

HCLSoftware

HCL DRYiCE MyCloud

User Guide
Version 10.8.1



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Document Revision History

This guide is updated with each release of the product or when necessary.

This table provides the revision history of this User Guide.

Version Date	Description
May, 2020	DRYiCE MyCloud v9.2 User Guide
August, 2020	DRYiCE MyCloud v10.0 User Guide
November, 2020	DRYiCE MyCloud v10.1 User Guide
February, 2021	DRYiCE MyCloud v10.2 User Guide
April, 2021	DRYiCE MyCloud v10.4 User Guide
October, 2021	DRYiCE MyCloud v10.5 User Guide
September, 2022	DRYiCE MyCloud v10.6 User Guide
July, 2023	HCL_DRYiCE_MyCloud_10.7_User_Guide
April, 2024	HCL_DRYiCE_MyCloud_10.8_User_Guide
September, 2024	HCL_DRYiCE_MyCloud_10.8.1_User_Guide

1 Preface

This section provides information about the MyCloud User Guide and includes the following topics.

- [Intended Audience](#)
- [About This Guide](#)
- [Related Documents](#)
- [Conventions](#)

1.1 Intended Audience

This document is primarily for users like Operations Manager, Application Test Leads/ Test Leads, Delivery Heads etc. who provision infrastructure resources, request approvals and consume other MyCloud services.

1.2 About This Guide

This guide provides instructions to use and consume MyCloud services. This includes the post-configuration procedures for the product.

1.3 Related Documents

The following documents can be referenced in addition to this guide for further information on MyCloud.

- [MyCloud Introduction Guide](#)
- [MyCloud Installation Guide](#)
- [MyCloud Configuration Guide – Admin Module](#)
- [DRYiCE MyCloud Configuration Guide – Provider Module – Part 1](#)
- [DRYiCE MyCloud Configuration Guide – Provider Module – Part 2](#)
- [MyCloud Troubleshooting Guide](#)
- [MyCloud Developer Guide](#)
- [MyCloud API Guide](#)
- [MyCloud V3 API Guide](#)

1.4 Conventions

The following typographic conventions are used in this document:

Table 1 – Conventions

Convention	Element
Boldface	Indicates graphical user interface elements associated with an action, or terms defined in text or the glossary
Underlined blue	Indicates a cross-reference and links
Courier New (Font)	Indicates commands within a paragraph, URLs, code in examples, and paths including on screen text and text input from users
Italic	Indicates document titles, occasional emphasis, or glossary terms
Numbered lists	Indicates steps in a procedure to be followed in a sequence
Bulleted lists	Indicates a list of items that is not necessarily meant to be followed in a sequence

2 MyCloud Overview

DRYiCE MyCloud is a hybrid cloud management product that empowers organizations to optimally govern, provision, monitor, and manage cloud infrastructure. It combines data exploration and data visualization in an easy-to-use product that enables effective analysis and generates actionable insights for IaaS, PaaS resources and multi-machine blueprints. DRYiCE MyCloud's data-driven recommendations and advisories ensure continuous optimization of enterprise cloud environments across areas, including cost, performance, security, and utilization.

2.1 MyCloud Roles

This below table highlights the various roles that are available in MyCloud.

Table 2 – MyCloud Roles and Responsibilities

Role	Description
MyCloud Admin	MyCloud admin has the rights to manage providers, admin level jobs and other component related configurations
Provider	A provider has the rights to manage Jobs, Organizations, Approval & Process workflows, master activities and integrate the subscriptions (vCenter, Hyper V, public cloud subscriptions).
Organization Admin	An organization admin has the rights to manage the users, roles, and groups assigned to them (organization-specific)
Requester	A requester has the rights to request for Infrastructure resources (IaaS & PaaS services) view or manage reports related to the resources.
Approver	An approver has the rights to approve the requests raised by the requesters.

Refer to **MyCloud Configuration Guide** for more information about MyCloud Admin and Provider Admin.

2.2 MyCloud Features

- **Self Service Catalog based Provisioning and Auto-decommissioning**

[Self Service Catalog based Provisioning & Auto-decommissioning– Provisioning of IaaS, PaaS, and multi-machine blueprints in a multi-cloud environment, through an intuitive self-service catalog and auto-decommissioning post a defined interval to avoid cost leakages.](#)

- **Metering & Showback**

[Track utilization of resources across BUs, enabling transparency and visibility](#)

- **Advisory & Recommendation**

[Proactive recommendations around Cost Optimization, Fault Tolerance, Performance and Security](#)

- **Dynamic User Interface**

[Flexibility to customize the service request form templates to capture configuration parameters while placing provisioning requests.](#)

- **Dynamic Process Workflows**

[Enables automation of generic & custom tasks like installing agents, machine cloning etc. with support for parallel execution.](#)

- **Script Library**

[Create new or leverage out-of-the-box scripts in process workflows across environments.](#)

- **Forecasting & RI Recommendation**

[Enables cost optimization and resource utilization by analyzing the past usage patterns & recommending the most optimal resource types on AWS and Azure.](#)

- **Role Based Access Control**

[Manage user privileges based on their roles, eligibility and policies](#)

- **Policy driven Orchestration**

[Be in control of your cloud orchestration ecosystem aligned to your organizational policies.](#)

- **Rich Integration Ecosystem**

[Enables integration with industry leading third party tools through REST APIs and CLI](#)

- **Enterprise-Grade Security**

[Ensure security of end-to-end cloud management and orchestration ecosystem through various mechanisms.](#)

2.3 MyCloud Benefits

- **Reduce Costs**

- Higher cost savings through Process standardization & Automation
- Provide visibility of usage of virtual assets & cost obligations to key custodians
- Optimize virtual asset utilization to avoid cost leakages

- **Mitigate Risks**

- Improve Performance, Fault Tolerance and Compliance of systems and services through proactive advisories.
- Transform the process from Human driven to Automation driven and eliminate human error from the equation.
- Mitigate security related risks based on system driven suggestions

– **Drive Efficiency**

- Reduce VM provisioning cycle by up to 85%
- Achieve up to 50% faster deployment of services through automation

3 Consuming MyCloud Services

3.1 MyCloud Modules

This section highlights the different modules of MyCloud that serve unique and separate business operations like an end user initiating a service request, status reports of infrastructure resources, approving the service requests and many more.

Table 3 – MyCloud Modules

Module Name	Description	Access to this module
Organization Module	Organization admin manages users and view reports related to this module.	Organization Admin
Requester Module	For end-users who consume MyCloud services like provisioning/decommissioning VMs, viewing reports and many more.	Requestor
Approver Module	Users who have the right to approve various service requests initiated by Requester users in MyCloud.	Business Approver Technical Approver
Cloud Advisory	This module highlights Advisory & recommendation reports of the Public Cloud environment (AWS and Azure) that are based on, Cost Optimization Fault Tolerance Security Advisory Performance Optimization	Technical Approver
My Reports	Different types of reports (Top Bottom Nodes, Request Tracking, My Bills and many more) are accessed in MyCloud through this module.	Organization Admin, Requester User, Technical Approver, and Business Approver

3.1.1 Organization Module

This module describes how an organization admin manages the users and view reports related to requests generated by users.

3.1.1.1 Accessing MyCloud

First, get the URL and user credentials for DRYiCE MyCloud.

Reach out to the person who has configured MyCloud or drop an email to MyCloud-Product-Supp@hcl.com

1. Launch the web browser (Chrome, Mozilla, or Edge) and use the **MyCloud URL** and user credentials to login.
2. Enter the **Email ID**.
3. Click **Next**.

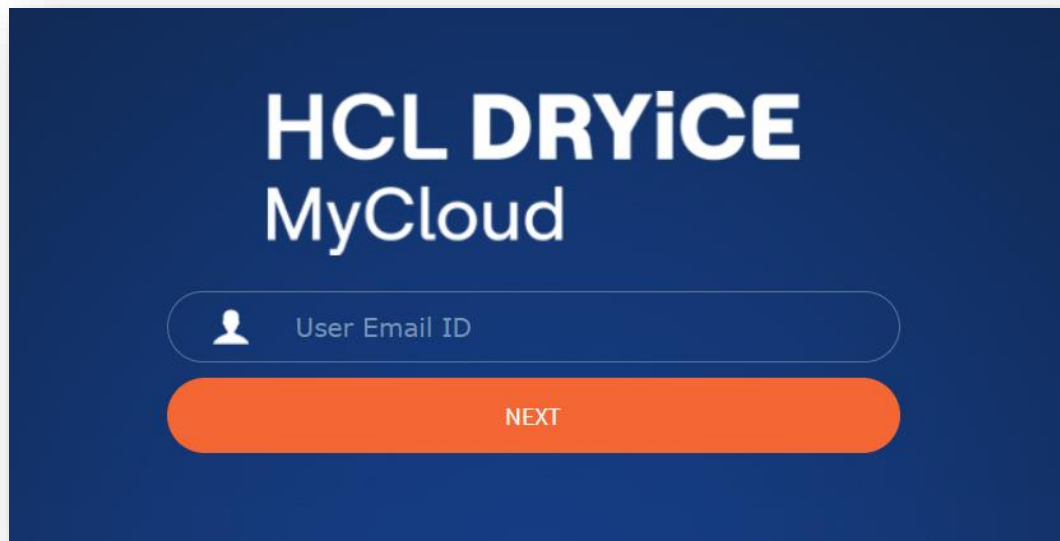


Figure 1 - MyCloud Login Page

4. Enter **Password**.

Change the password frequently, at least once a month, to keep hackers out of the system. When the application is not being used, then log off for security purposes.

5. Select the **Authentication Type**. The following authentication types are available for login:

Table 4 - Authentication Type

Authentication Type	Description
Form Based	Authenticates the user through the credentials which are stored in the database
LDAP	Authenticates the user through Active Directory (AD) credentials
SAML Based Authentication	Authenticate the user through the third- party Identity Access Management (IAM) which supports SAML based authentication

If there are no login credentials, then drop an email to MyCloud-Product-Supp@hcl.com.

If the login type is Form Based, no domain selection is required.

If the login type is **LDAP**, domain credentials need to be entered with domain selection.

If the login type is **SAML**, the user gets re-directed to the authentication page.

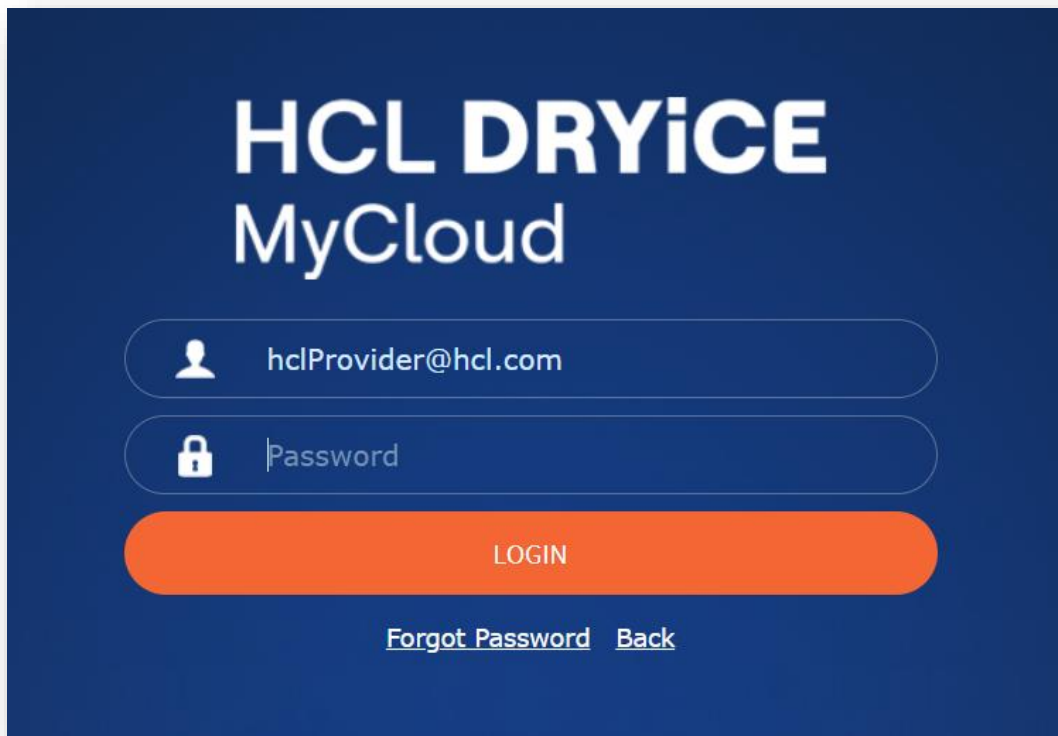


Figure 2 – MyCloud Login Page (Cont.)

6. Click **Login**.
7. On a successful login, MyCloud homepage appears as shown below.

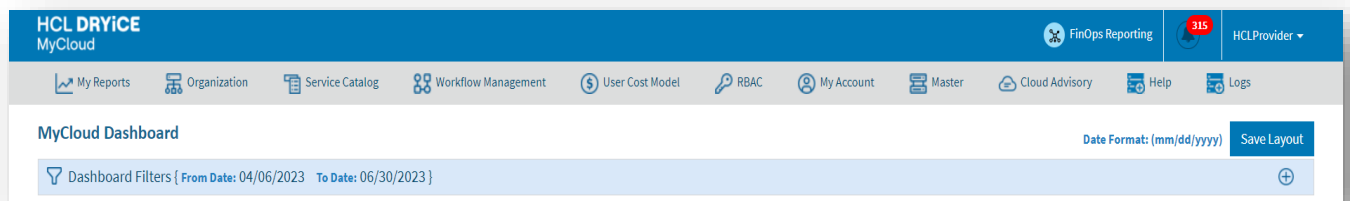


Figure 3 – MyCloud Homepage

Admin user can change the appearance of the MyCloud Web/Reports to meet Customer-specific branding by changing the logo.

For Forgot Password and changed password functionality please refer to provider Configuration guide –Provider Module Part-1.

The Organizational Module contains the following options:

- [RBAC](#)
- [My Reports](#)
- [My Account](#)
- [Help](#)

3.1.1.1.1 RBAC (Role Based Access Control)

Role-Based Access Control (RBAC) is an essential component of MyCloud. This module details the steps to manage the RBAC model within an environment to implement several critical securities such as least privilege, separation of duties, and data abstraction.

This module includes two kinds of Role Management: Manage Group and Manage User. Different users of this platform or with service providers, get permissions to access resources, and these permissions are given based on mapping of the users to system-based groups.

1. On the main menu bar, click **RBAC**.
2. The drop-down appears with the following options:
 - Manage Group
 - Manage User
 - Role Management
 - Transfer Object Ownership

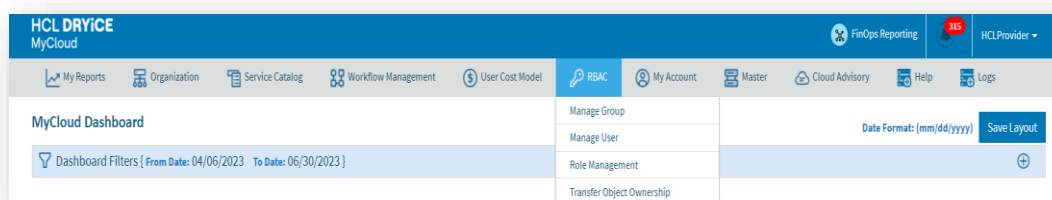


Figure 4 – RBAC

Provider gets to access both the **Manage user** and **Manage group** sections.

3.1.1.1.1.1 Manage User

Through this module, the organization admin manages (Add, Edit and Delete) other users in an organization. It has the following options:

- Add Users
- Upload Users
- View users

3.1.1.1.1.1.1 Add User

To add an end user in an organization, organization admin needs to follow the steps below:

1. Click on the **Manage User** screen and then click **Add User**.

Figure 5 – Add User

2. Refer the below table to understand the fields mentioned in the above figure.

Table 5 – Add User Fields

Fields	Description
API user	User for API integration with MyCloud
Organizational user	User for request and manage resources
Organization	Select the name of the organization (Business units/ divisions in organizations)
User Name	This field contains the UserName of the user
User Id	This field contains the User Id of the user
Email	This field contains the Email of the user
Active	This field is used to mark the user as Active (Checked)/Inactive (Unchecked)
Password	This field gets populated with MyCloud generated password
Generate password	The option that helps to generate a password in MyCloud
Role	Provider needs to provide a role to a user while adding it in MyCloud
Select widget	MyCloud dashboard widgets are listed. System defined widgets appear

3. Select Organization.
4. Select **User Type**. MyCloud supports two types of users:
 - API User – Has access to MyCloud APIs and used for integration with MyCloud.
 - Organizational user – Has access to MyCloud web portal and used to request services.
5. Enter the **UserName** and then enter the **User ID**.
6. Enter **Email ID**.
7. Click **Generate Password** to generate a new password.

8. Select **Role**.
9. Once the role is selected, the widgets appear in the **Widget** box.
10. Select **Widget**.
11. Provider selects the widgets according to the roles which are to be assigned to an end user.
12. Click **Save**.

Figure 6 - Add User (Cont.)

All the fields marked with an asterisk (*) are mandatory.

13. A success message box appears.



Figure 7 - Add User (Cont.)

3.1.1.1.1.2 View Users

This section lists all the provider users that have been created by an organization admin.

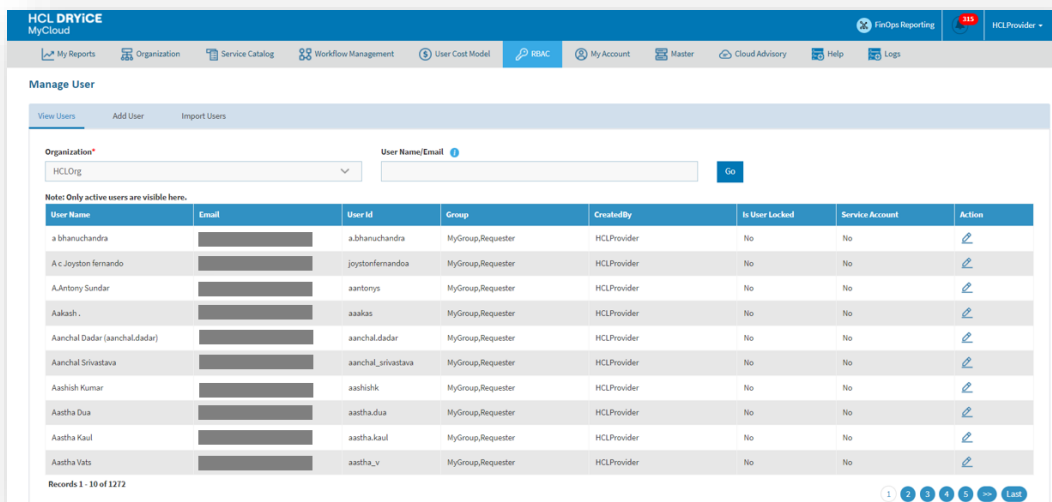


Figure 8 – View Users

Refer the below table to understand the fields mentioned in the above figure.

Table 6 – View Users Field

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
User Name/Email	Enter UserName or Email to filter the Gird Data
UserName	Displays the username of the user that has been added
Email	Displays the email of the user that has been added
User Id	Displays the user id of the user that has been added
Group	Displays the group name the user belongs to
Created By	Displays the name of the user, who has created the specific user.
Is User Locked	Displays whether the user has been locked by MyCloud, post multiple failed login attempts
APIUser	Displays whether user is API user who can access API's of MyCloud or other users who has access MyCloud Portal.
Action	User to take actions like Edit against the listed users

You can modify the details of existing providers by clicking on the Edit icon .

3.1.1.1.1.3 Edit User

To edit/modify user details, organization admin needs to follow the steps below:

1. On the **Manage User** screen, click **View Users**.

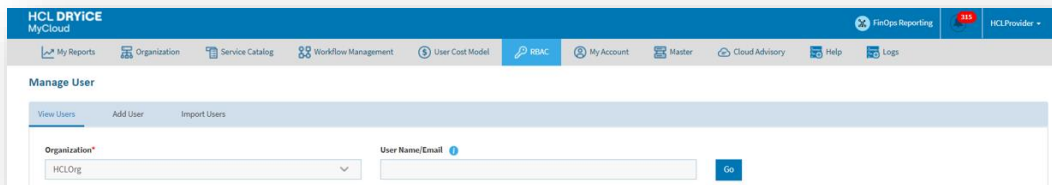


Figure 9 – Edit Users

2. Select an organization and then click **Go**.
3. Available users appear in a tabular view.
4. Click Edit (✎) icon.
5. Modify the details as desired and click **Update**.

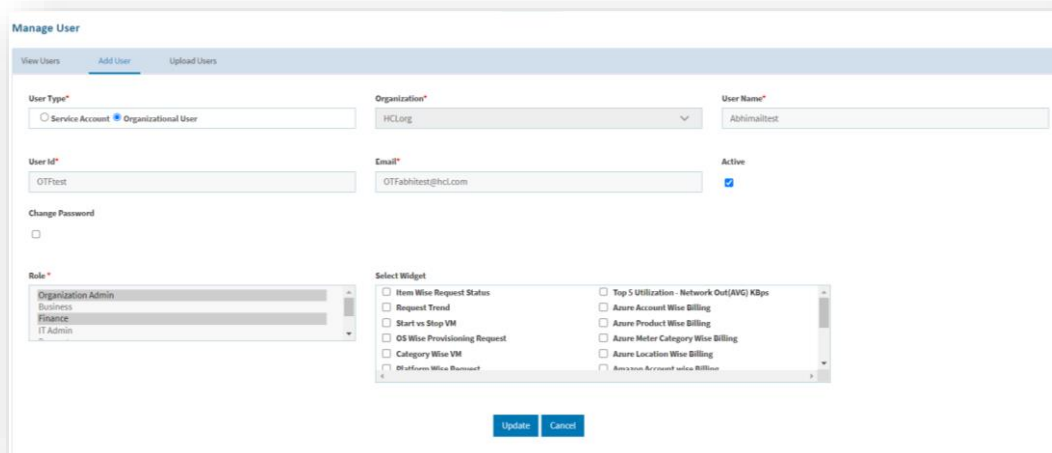


Figure 10 – Edit User (Cont.)

6. A success message box appears.

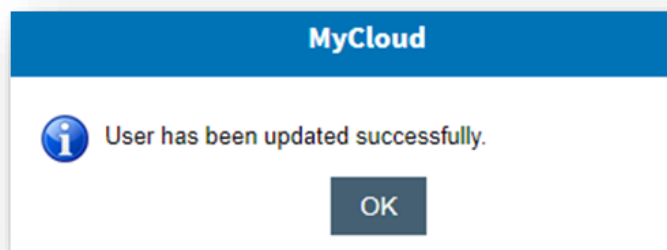


Figure 11 – User Updated Successfully

3.1.1.1.1.4 Upload Users

To upload end-users in an organization, organization admin needs to follow the steps below:

1. On the Upload Users tab, select the Organization Name.
2. Click **Choose File** to select the csv file that has the user details.
3. Click on Upload File.

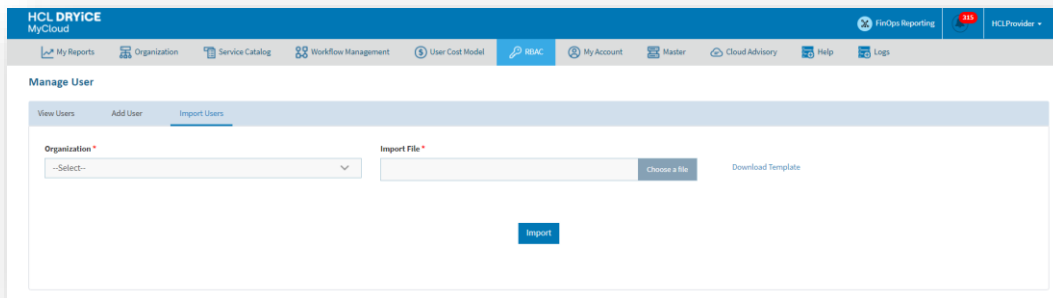


Figure 12 – Upload User

4. A success message box appears.

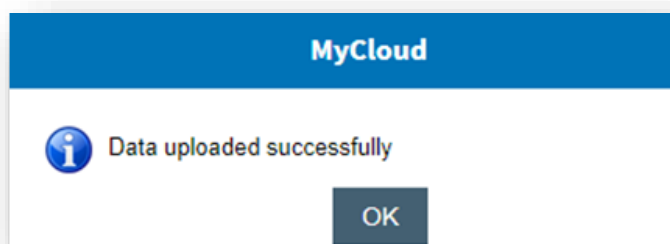


Figure 13 – Delete User Confirmation

To download the CSV template for users, click on **Download Template Hyperlink**.

3.1.1.1.2 Manage Group

To create a system group in an organization and map users to it, Organization Admin needs to follow the below steps:

1. On the main menu bar, click **RBAC**, and then click **Manage Group**.
2. The **Manage Group** screen appears, and it lists down the available groups in a tabular view that helps to see available groups and map users/ assign group user and assign actions to them.

Group ID	Name	Tags	Organization Name	Map Group To	System Group	Action
5	Business			RBAC/AD Group Add User	YES	
7	IT Admin			RBAC/AD Group Add User	YES	
4	Organization Admin			RBAC/AD Group Add User	YES	
8	Requester			RBAC/AD Group Add User	YES	
18	1		HCLOrg	RBAC/AD Group Add Role/ Add User	NO	
19	2		HCLOrg	RBAC/AD Group Add Role/ Add User	NO	
20	3		HCLOrg	RBAC/AD Group Add Role/ Add User	NO	
13	AAAGroupBA		orgMultiGroups	RBAC/AD Group Add Role/ Add User	NO	
14	BGMDEVIT		orgMultiGroups	RBAC/AD Group Add Role/ Add User	NO	
15	BGMMYCLOUDORG		orgMultiGroups	RBAC/AD Group Add Role/ Add User	NO	
9	MyGroup		HCLOrg	RBAC/AD Group Add Role/ Add User	NO	

Figure 14 – Group Management

3. Refer the below table to understand the fields mentioned in the above figure.

Table 7 – Group Management Fields

Fields	Description
Group ID	The ID that has been generated by MyCloud engine
Group Name	Displays the name of the group
Organization Name	Displays the name of the organization
Map Group To	Associated the Group with AD Groups or Add Users in the group
System Group	This field represents the group is System group or User created group
Action	User to take actions like Edit, Change Status (active or Inactive) ,Delete and Add tagging against the listed groups

3.1.1.1.2.1 Add Group

To add a group, organization admin needs to follow the below steps:

1. On the **Manage Group** screen, click **Add Group** tab.

Figure 15 – Add Group

2. Refer the below table to understand the fields mentioned in the above figure.

Table 8-Add Group Fields

Fields	Description
Name	Unique Name of the group.
Organization Name	Select organization under which group needs to be created.

- Click on Add Button.
- A success message box appears.

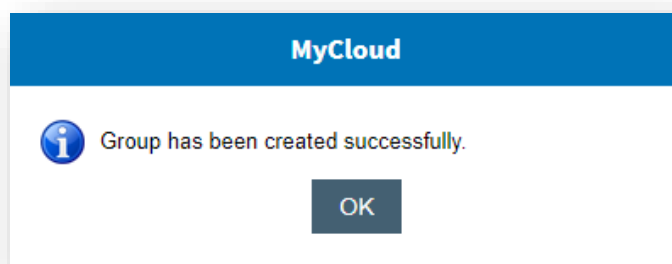


Figure 16 - Add Group (Cont.)

A new group is added and listed in the table.

Action like edit and delete can only be performed when the **MyCloud System Group** is **NO**.

3.1.1.1.2.2 RBAC/AD Group

To map a group, organization admin needs to follow the below steps:

- On the **Manage Group** screen, click **RBAC/AD Group** link corresponding to the group to be mapped.











Group ID	Name	Tags	Organization Name	Map Group To	System Group	Action
5	Business			RBAC/AD Group Add User	YES	
7	IT Admin			RBAC/AD Group Add User	YES	
4	Organization Admin			RBAC/AD Group Add User	YES	
8	Requester			RBAC/AD Group Add User	YES	
30	001Group		HclOrganization	RBAC/AD Group Add Role Add User	NO	  
31	001Group		CloudOrg	RBAC/AD Group Add Role Add User	NO	  
20	ClonetestGroup	:"[]	HclOrganization	RBAC/AD Group Add Role Add User	NO	  

Figure 17 - View Groups

- A pop-up window prompts to map the AD group to the selected RBAC group.
- Enter **AD Group Name** or **AD Group Email ID** and then select the required **Role** i.e. Group to the RBAC group.
- Click **Search** and available AD groups appear in the **Available Groups** box.
- Select **AD groups** and then click () on to move selected AD groups to **Selected RBAC** groups box or vice versa, to unselect the AD groups from an RBAC group.

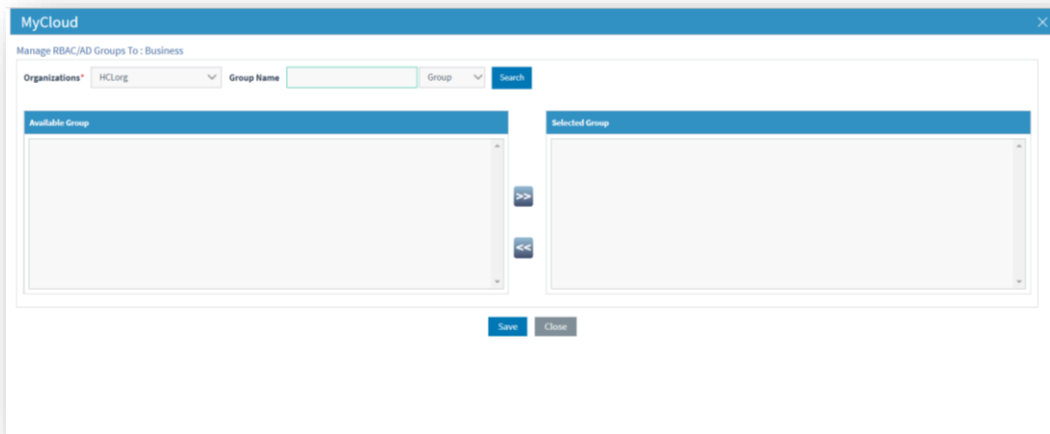


Figure 18 – Add Groups (Cont.)

All the fields marked with an asterisk (*) are mandatory.

6. Click **Save**.
7. A success message box appears.

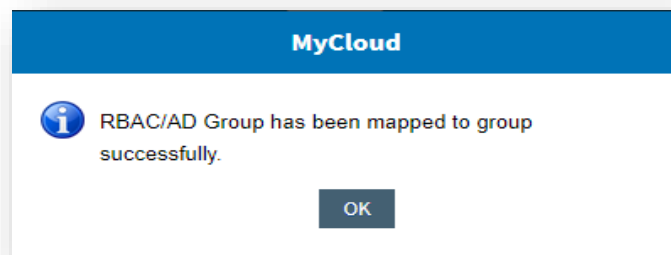


Figure 19 – Confirmation Message

3.1.1.1.2.3 Add User

To assign a user or multiple users to a group, organization admin needs to follow the steps below:

1. On the **Manage Group** screen, click **Add User** against the selected group.











Manage Group						
View Group		Add Group				
Group ID	Name	Tags	Organization Name	Map Group To	System Group	Action
5	Business			RBAC/AD Group Add User	YES	
7	IT Admin			RBAC/AD Group Add User	YES	
4	Organization Admin			RBAC/AD Group Add User	YES	
8	Requester			RBAC/AD Group Add User	YES	
30	001Group		HclOrganization	RBAC/AD Group Add Role Add User	NO	  
31	001Group		CloudOrg	RBAC/AD Group Add Role Add User	NO	  
20	ClonetestGroup	:[]	HclOrganization	RBAC/AD Group Add Role Add User	NO	  

Figure 20 – Map User

2. A pop-up window prompts to map a user to the selected group.

3. Select Organization.
4. Enter the **Email/Group Name**.
5. Click **Search** and available users appear in the **Available User** box.
6. Select **Users** and then click on  to move selected users to **Selected Users** box or vice-versa, to unselect the users from a group.
7. Click **Save**.

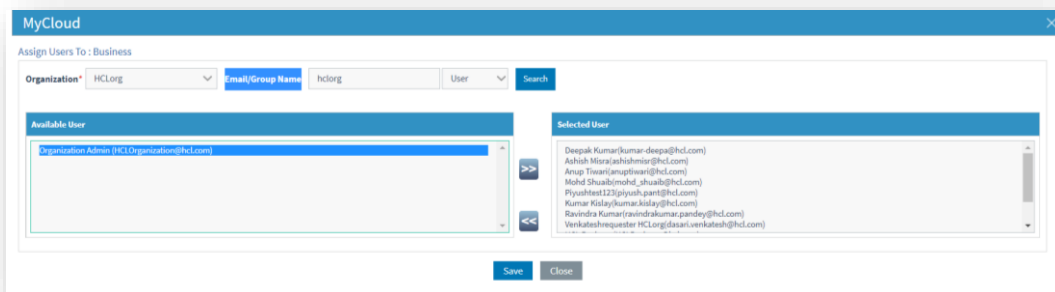


Figure 21 – Map User (Cont.)

All the fields marked with asterisk (*) are mandatory.

8. Click **Save**.
9. A success message box appears.

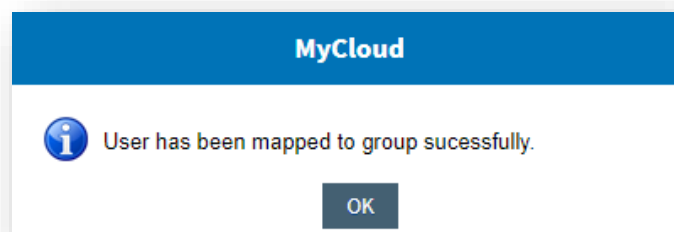


Figure 22 – Confirmation Message

3.1.1.1.2.4 Add Role

To assign a role or multiple roles to a group, organization admin needs to follow the steps below:

1. On the **Manage Group** screen, click **Add Role** link corresponding to the **System Group** with the value 'No'.





Role Name	Power User	Parent Role	MyCloud System Role	Action
Organization Admin	NO		YES	
Business	NO		YES	
Finance	NO		YES	
IT Admin	NO		YES	
Requester	NO		YES	
fvtbfgh	YES	Organization Admin	NO	  

Figure 23 – Map Role

2. A pop-up window prompts to map a user to the selected group.
3. Select **Roles from Available Role** and then click on  to move selected roles to **Selected Role** box or vice-versa, to unselect the users from a group.
4. Click **Save**.

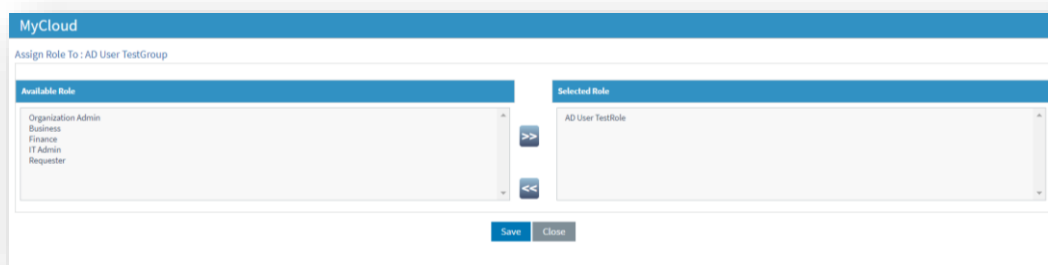


Figure 24 – Map Role (Cont.)

All the fields marked with asterisk (*) are mandatory.

5. Click **Save**.
6. A success message box appears.

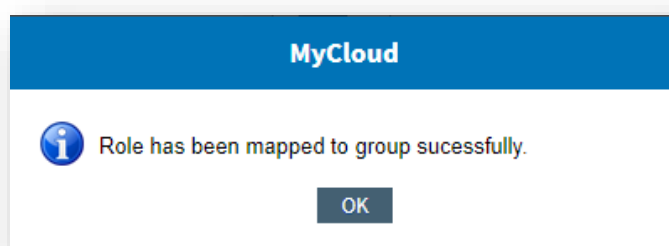



Figure 25 – Confirmation Message

3.1.1.1.2.5 Add Tags

Tags will be helpful to distinguish resources between Groups. To add tags on group, organization admin needs to follow the steps below:

1. On the **Manage Group** screen, click on icon  against the selected group.

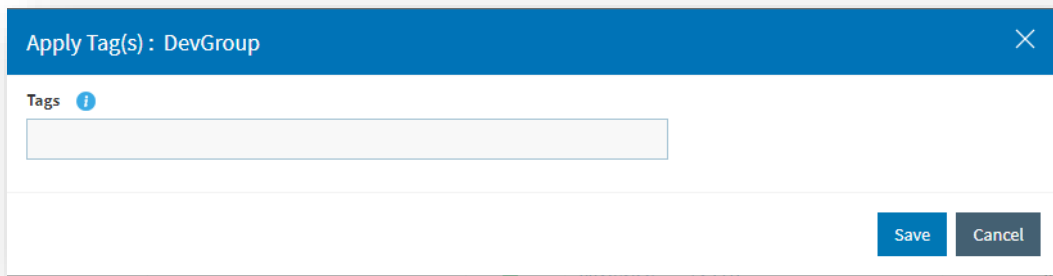


Figure 26-Add Tag

2. Enter **Tag(s)** with help of comma and enter key.
3. Click **Save**.
4. A success message box appears.

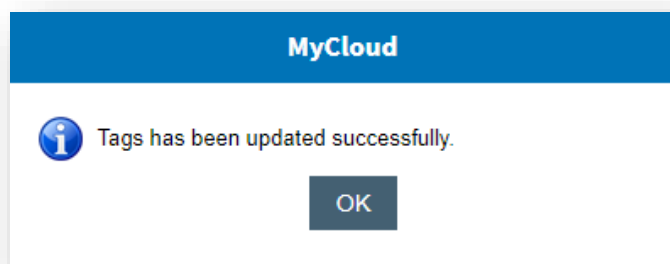


Figure 27 -Confirmation Message

3.1.1.1.3 Role Management

Through this module, Organization admin user can manage roles in an organization through below steps:

1. On the Main Menu bar, click **RBAC** and then click **Role Management**.
2. The **Role Management** screen appears, and it lists down the available roles in a tabular view that helps to see available roles and add new roles and assign actions to them.

Role Name	Power User	Parent Role	MyCloud System Role	Action
Organization Admin	NO		YES	
Business	NO		YES	
Finance	NO		YES	
IT Admin	NO		YES	
Requester	NO		YES	
fvtbfgh	YES	Organization Admin	NO	

Figure 28 – Role Management

3. Refer the below table to understand the fields mentioned in the above figure.

Table 9 – Role Management

Fields	Description
Role Name	This indicated the Name of the Role
Power User	This field indicates whether the Role is of Power users or not.
Parent Role	This field indicates the MyCloud System created Role that will act as a Parent Role for the Newly added User-Created role.
MyCloud System Role	This field represents the role is MyCloud System Role or User-Created role
Action	User to take actions like Edit, Delete, Configure Menu, Configure Widgets against the listed role.

Power User – Power users will be able to see request and object belongs to another user in same role.

It also consists of the following actions:

- [Add Role: To add a role in organization](#)
- [Edit Role: To update an existing roles](#)
- [Delete Role: To delete an existing role](#)
- [Configure Widgets: To manage Dashboard widget assigned to role](#)
- [Configure Menu: To manage Menu assigned to role](#)

3.1.1.1.3.1 Add Role

To add a role, organization admin needs to follow the below steps:

1. On the **Role Management** screen, click Add **Role** tab.

Figure 29 – Add Role Screen

2. Refer the below table to understand the fields mentioned in the above figure:

Table 10 – Add Role

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Role Name	This field contains the Name of the new Role.
Parent Role	This field contains the MyCloud System Role.
Power User	This field indicates whether the Role is of Power users or not.

3. Select Organization.
4. Enter Role Name.
5. Select Parent Role and Power User.
6. Click on **Save**.



Figure 30 – Confirmation Message

A new role is added and listed in the table.

Action like edit and delete can only be performed when the **MyCloud System Role** is **NO**.

3.1.1.1.3.2 Edit Role

To Edit/ Modify the information of an existing Role, Organization user needs to follow the below steps:

1. On the Role Management screen, click **View Role**.



Figure 31 – Edit Role

2. Select Organization.
3. Click **Go**.
4. Available Role list is shown in a tabular view.
5. Click **Edit** (edit icon) corresponding to the Role to be edited.
6. Modify the details as required and click **Save**.

The screenshot shows the 'Role Management' interface with the 'Add Role' tab selected. The form contains the following fields:

- Organization ***: A dropdown menu with 'HCLorg' selected.
- Role Name ***: A text input field containing 'CustomRole'.
- Parent Role ***: A dropdown menu with 'Organization Admin' selected.
- Power User**: A dropdown menu with 'No' selected.

A blue 'Save' button is located at the bottom right of the form.

Figure 32 - Edit Role (Cont.)

7. A success message box appears.

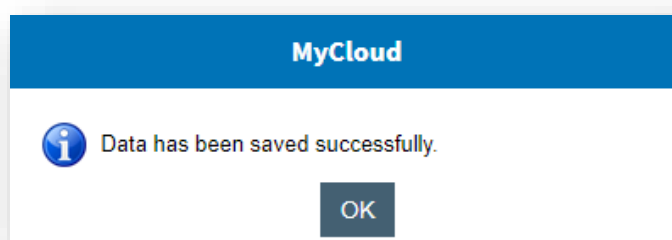


Figure 33 - Role Added Successfully

3.1.1.1.1.3.3 Delete Role

To delete an existing Role, Organization user needs to follow the below steps:

1. On the Role Management screen, click View Role.

The screenshot shows the 'Role Management' interface with the 'View Role' tab selected. The form contains the following elements:

- Organization ***: A dropdown menu showing '--Select--'.
- Go**: A blue button next to the dropdown menu.

Figure 34 - Delete Role

2. Select Organization.
3. Click **Go**.
4. Available Role list will be shown in a tabular view.
5. Click **Delete** (🗑️) corresponding to the Role to be deleted.
6. A confirmation message appears.

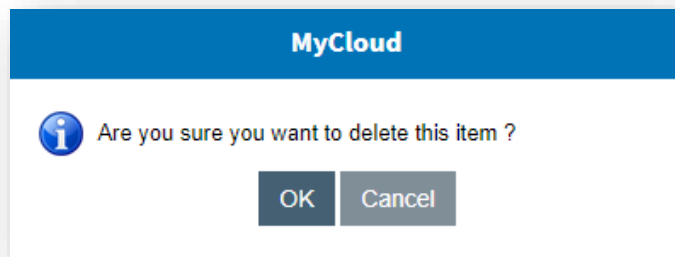


Figure 35 - Delete Role (Cont.)

7. Click **OK** to confirm. A success message appears.

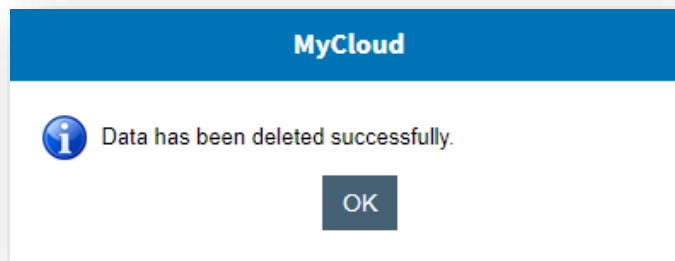


Figure 36 - Delete Role Successfully

3.1.1.1.3.4 Configure Widgets

To configure the widgets in existing Role, Organization user needs to follow the below steps:

1. On the Role Management screen, click View Role.

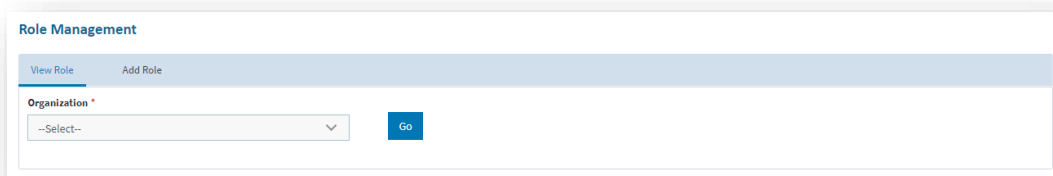



Figure 37 - Configure Widget

2. Select Organization.
3. Click **Go**.
4. Available Role list will be shown in a tabular view.
5. Click **Configure Widgets** () against the Role.
6. A popup window will appear.
7. If configuration of widgets has been done earlier, then all the widgets associated with the Parent Role will be shown as checked.

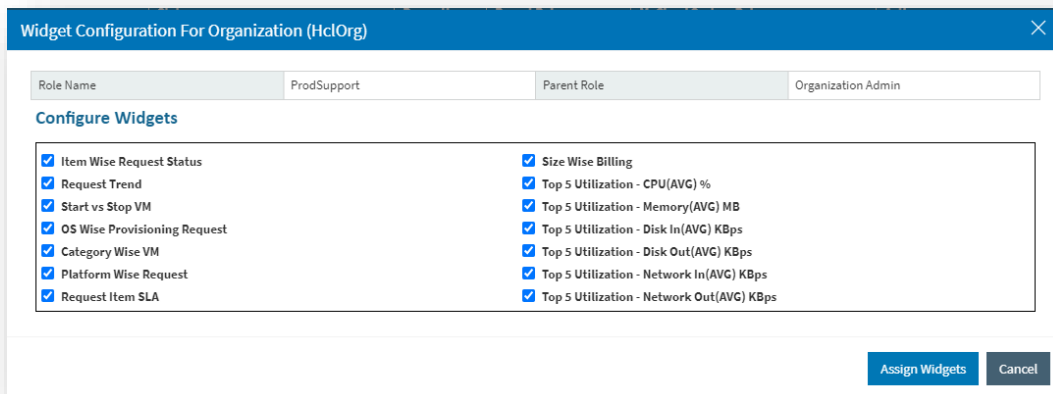


Figure 38 – Configure Widgets (Cont.)

8. Select/Unselect the Widgets as per widgets assignment. Click on **Assign Widgets**.

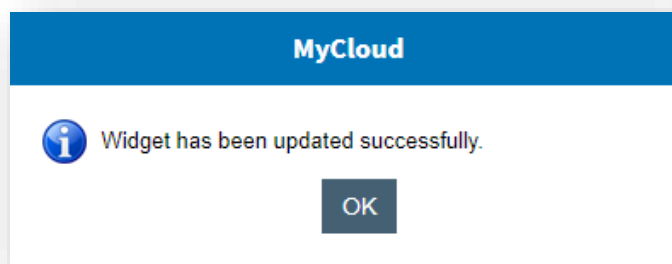


Figure 39 – Configure Widgets (Cont.)

3.1.1.1.3.5 Configure Menu

To configure the menus in existing Role, Organization user needs to follow the below steps:

1. On the Role Management screen, click View Role.

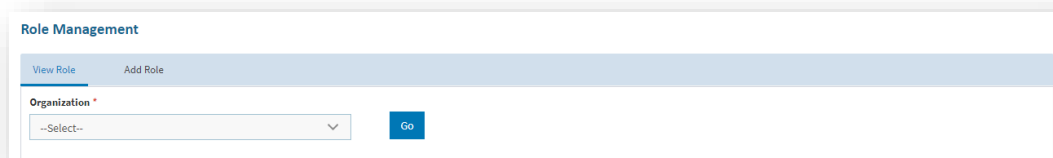


Figure 40 – Configure Menu


2. Select Organization.
3. Click **Go**.
4. Available Role list will be shown in a tabular view.
5. Click **Manage Menus** () against the Role.
6. A popup window will appear.
7. If configuration of menu has been done earlier, then all the menus associated with the Parent Role will be shown as checked.

Figure 41 - Configure Menu (Cont.)

8. Select/Unselect the Menu Item as per menu assignment. Click on **Assign Menu**.

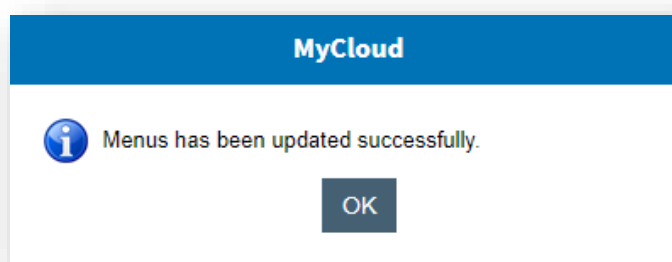


Figure 42 - Configure Menu (Cont.)

3.1.1.1.1.4 Transfer Object Ownership

To transfer the ownership of an Object from One requester to another, Organization Admin needs to follow the below steps:

1. On the main menu bar, click **RBAC**, and then click **Transfer Object Ownership**.
2. The Transfer Object Ownership screen appears.
3. Select filter parameters to see the list of available **Objects**.


	ObjectID	Object Type	User Email	Lease Period	Action
<input type="checkbox"/>	MCLD-1360-1	VM	hcirequester@hcl.com	1 Month(s)	
<input type="checkbox"/>	MCLD-1364-1	VM	hcirequester@hcl.com		
<input type="checkbox"/>	MCLD-1367-1	VM	hcirequester@hcl.com	1 Week(s)	
<input type="checkbox"/>	MCLD-1368-1	VM	hcirequester@hcl.com		
<input type="checkbox"/>	MCLD-1369-1	VM	hcirequester@hcl.com	1 Week(s)	
<input type="checkbox"/>	MCLD-1370-1	VM	hcirequester@hcl.com	1 Week(s)	
<input type="checkbox"/>	MCLD-1371-1	VM	hcirequester@hcl.com	1 Week(s)	

Figure 43 - Transfer Object Ownership

4. Refer the below table to understand the fields mentioned in the above figure.

Table 11 – Transfer Object Ownership Field

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Platform	The field lists down the cloud service provider.
Provisioning Endpoint	Displays the name of the environment (cloud endpoint)
Object Type	Name of the infrastructure resource.
Object ID	Object Id, Unique Id of the object
Requester Name	Name of the person who has created the request.
User Email	Email of the person who has created the request.
Lease Period	The lease period for which a resource is required.
Action	User to take actions like Transfer Object Ownership for Single Object

5. To transfer the ownership of an object, organization admin needs to select the objects by clicking the checkboxes (☐) corresponding to the **ObjectID** and then click on “**Transfer Object Ownership**” button or click () icon against an object. User can select multiple objects using the checkboxes.
6. A pop-up window will open. Enter the user in **Object Transferred To*** input field.

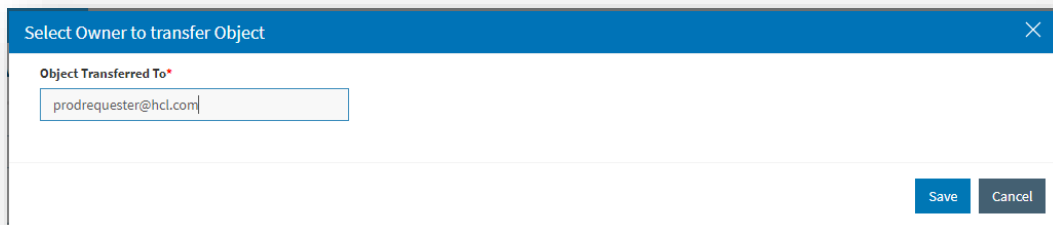


Figure 44 – Transfer Object Ownership (Cont.)

7. Click on **Save**. “Ownership changed successfully” message will appear.
8. Click **OK**.
9. The new requester will be updated in the Grid.

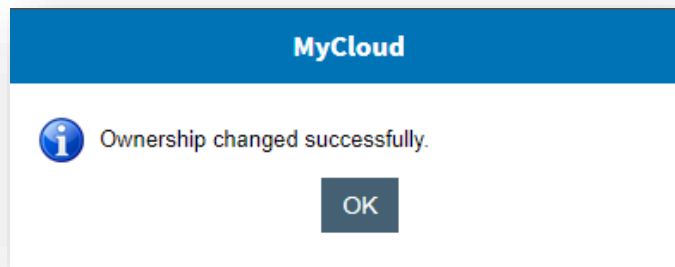


Figure 45 – Transfer Object Ownership (Cont.)

3.1.1.1.2 My Reports

This section highlights the reports that are accessed by Organization Admin.

- Metering
- Top Bottom Nodes
- Request Tracking
- Finance Report

3.1.1.1.3 My Account

This section explains the steps required to manage an account for a login user.

1. On the main menu bar, click **My Account**.
2. The drop-down appears with the following options:
 - My Schedules

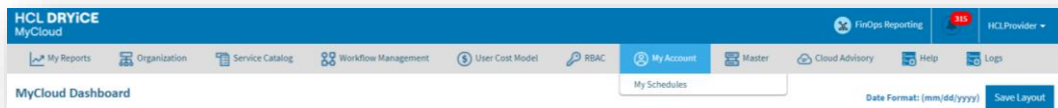


Figure 46 – My Account

3.1.1.1.3.1 My Schedules

Through this module, the user can schedule Action(s) on object(s) in an organization. Pre-requisites of using My Schedules:

- Organization should have "Action Scheduling Enabled" in the Organization Module.
- At least one Action should be active for respective object.
- UI associated with Action should not have Approval associated with it.
- Controls used in UI should be Textbox and Hidden Controls Only.

It has the following options:

- View Schedules
- Create Schedules
- Schedule History

Figure 47 – My Schedules

3.1.1.1.3.2 Create Schedules

To create a schedule of an Action in an organization, login user needs to follow the steps below:

1. Click on **My Schedules** menu option and then click **Create Schedule**.

Figure 48 – Create Schedule

2. Refer the below table to understand the fields mentioned in the above figure.

Table 12 – Create Schedule Fields

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Platform	The field lists down the cloud service provider.
Provisioning Endpoint	Displays the name of the environment (cloud endpoint)
Object Type	Name of the infrastructure resource.
Action	Displays the list of Action(s) associated to Object.
Name	This unique name of Schedule Action.
Description	Description of Schedule Action.
Time Zone	This field represents the Time Zone of Start Time.
Start Time	The field represents when to start/schedule the Action.
Frequency	Interval at which the Action can be schedules
Action Parameter(s)	List of Parameters depends on selected Action

3. Select Organization.
4. Select Platform and Provisioning Endpoint.
5. Select Object Type.
6. Select **Action**.
7. Enter the **Name** and **Description** of Schedule.
8. Select Time Zone and Start Time.
9. Select **Frequency**.
10. Now **Map the Parameters of Action**. Parameter Data Type supports two types:
 - Static – User can provide the Static value of a control.
 - SQL Function – SQL function can be used to find the dynamic value of a control.
11. Click **Save**.

Figure 49 – Create Schedule (Cont.)

All the fields marked with an asterisk (*) are mandatory.

12. A success message box appears.

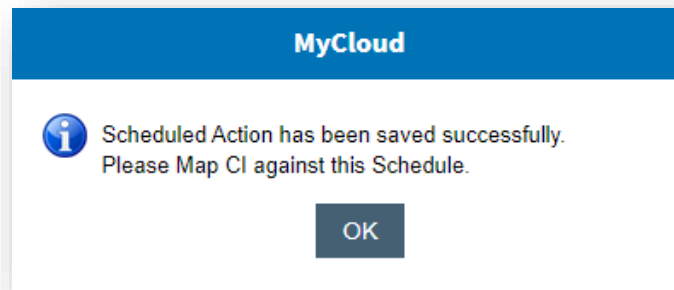


Figure 50- Create Schedule (Cont.)

13. Now click **Ok**. A Popup will open containing the relevant Object(s).
14. You can select the appropriate Object(s), on which Action needs to be scheduled.

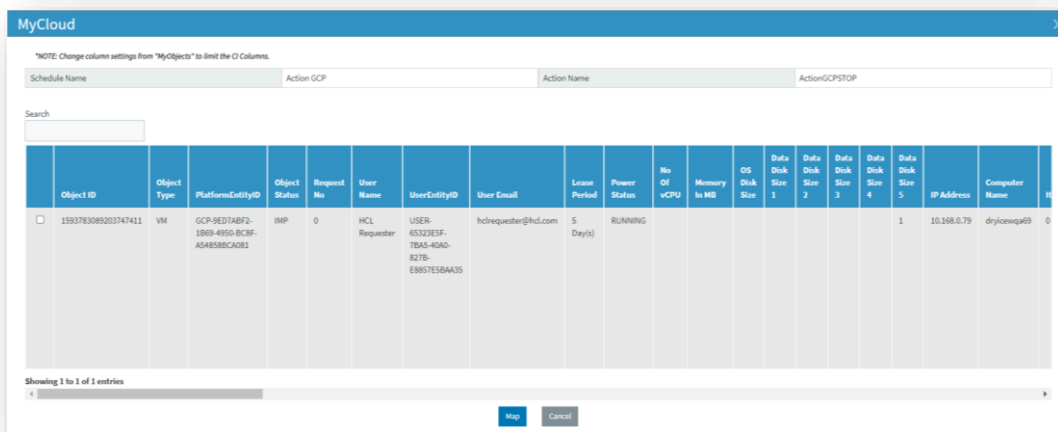


Figure 51 - Create Schedule (Cont.)

15. Now click on **Map** button.
16. A success message box appears.

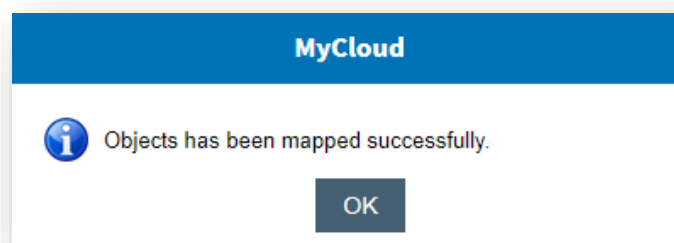


Figure 52 - Create Schedule (Cont.)

The Action Scheduled Successfully.

3.1.1.1.3.3 View Schedules

This section lists all the Schedules that have been created by an organization admin.

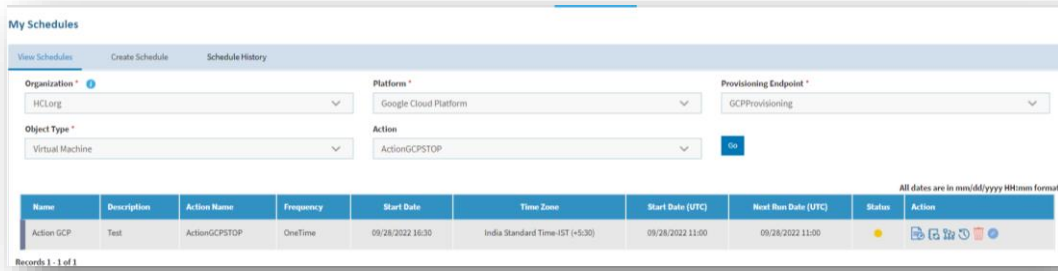



Figure 53 - View Schedules

Refer the below table to understand the fields mentioned in the above figure.




Table 13 - View Users field

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Platform	The field lists down the cloud service provider.
Provisioning Endpoint	Displays the name of the environment (cloud endpoint)
Object Type	Name of the infrastructure resource.
Action	Displays the list of Action(s) associated to Object.
Name	This unique name of Schedule Action.
Description	Description of Schedule Action.
Action Name	Name of Action for which Schedule has been created
Frequency	Interval at which the Action can be schedules
Start Date	The field represents when to start/schedule the Action.
Time Zone	This field represents the Time Zone of Start Time.
Start Date (UTC)	The field represents when to start/schedule the Action in UTC time zone
Next Run Date	The field represents next schedule time of the Action
Status	The status of the Schedule
Action	User to take actions like Edit, Change Status, Map Objects, history, Delete against the listed schedules

It also comprises the following actions:

- Edit (


User Guide

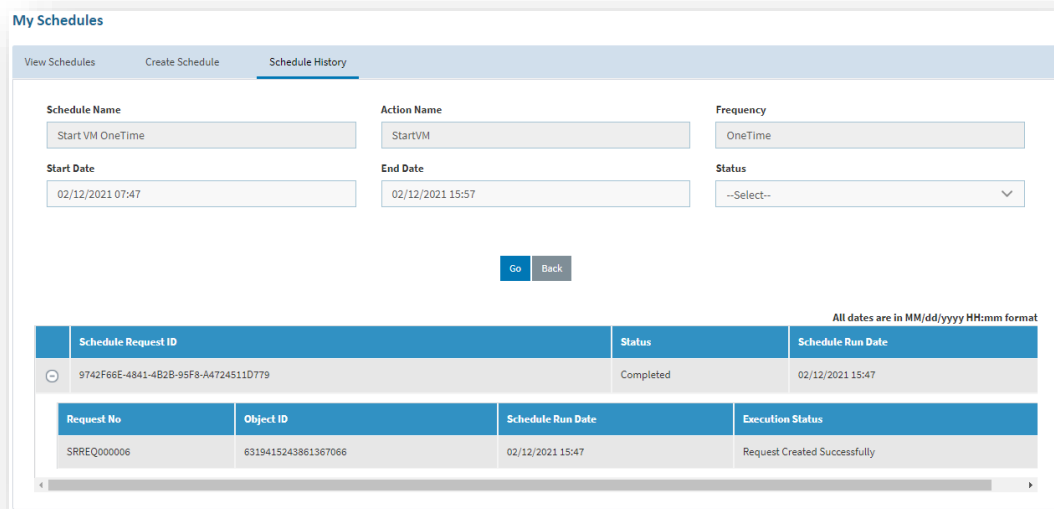
- History (): To check the history of Schedule.
- Delete (): To delete the Schedule.
- Execute Now (): To execute the schedule immediately.

3.1.1.1.3.4 Schedule History

This section lists all the History of Schedules Actions.

To view the schedule history, follow the below steps:

1. Click on () icon in the grid records on **View Schedule** tab.
2. On clicking this icon, **Schedule History** tab will open.



My Schedules

View Schedules Create Schedule **Schedule History**

Schedule Name: Start VM OneTime Action Name: StartVM Frequency: OneTime

Start Date: 02/12/2021 07:47 End Date: 02/12/2021 15:57 Status: --Select--

Go **Back**

All dates are in MM/dd/yyyy HH:mm format

Schedule Request ID	Status	Schedule Run Date
9742F66E-4841-482B-95F8-A4724511D779	Completed	02/12/2021 15:47

Request No	Object ID	Schedule Run Date	Execution Status
SRREQ000006	6319415243861367066	02/12/2021 15:47	Request Created Successfully

Figure 54 – Schedule History

Refer the below table to understand the fields mentioned in the above figure.

Table 14 – Schedule History Field

Fields	Description
Schedule Name	This unique name of Schedule Action.
Action Name	Name of Action for which Schedule has been created
Frequency	Interval at which the Action can be schedules
Start Date	Start Time, to filter the history of Schedules from this time
End Date	End Time, to filter the history of Schedules till this time
Status	InProgress, Completed, Failed filter status
Schedule Request Id	Unique GUID for the schedule instance.
Status	Status if the scheduled instance
Schedule Run Date	Run date of the scheduled instance
Request No	Request Tracking Request Number created by Schedule Request Id.
Object Id	Object Id, Unique Id of the object on which Action is performed.
Schedule Run Date	Run date of the scheduled instance
Execution Status	Status of the Request Execution

3.1.1.1.4 Help

This section explains the details to understand more about MyCloud

1. On the main menu bar, click **Help**.
2. The drop-down appears with the following options:
 - Generic Task details
 - Download Reference Guide

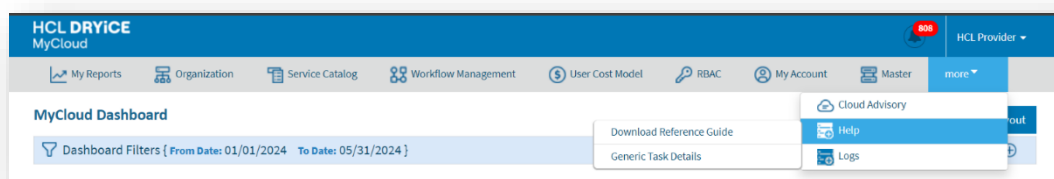


Figure 55 - Help

3.1.1.1.4.1 Generic Task Details

Through this module, the login user can view the generic MyCloud Out of Box methods and their parameter details.

Figure 56 - Help - Generic Task Details

To view the details:

1. Select **Platform**.
2. Select **Generic Task**.
3. Select **Type**.
4. Click **Go**.

The following screen appears.

Parameter	Data Type	Description	Sample Value	Type
IntersightWorkflowName	String	Workflow execution name. Preferably unique value for easy tracking on Cisco Intersight portal.	Workflow execution name eg: MyCloud-d6-MM-YYYY-01	INPUT
OrganizationMold	String	Cisco Intersight Organization's Mold.	Cisco Intersight Organization's Mold ec: 5d8b6746972652d3acc963.	INPUT
OutputIntersightResultID	static	Output variable name to store execution Mold. Default parameter name is Sys_IntersightResultID.	Output parameter name to store unique identifier of execution eg: Sys_IntersightResultID	INPUT
OutputIntersightResultJson	static	Output variable name to store execution result json. Default parameter name is Sys_IntersightResultJson.	Output parameter name to store execution result json eg: Sys_IntersightResultJson	INPUT
PollingIntervalInMins	String	Polling Interval in Mins, for configured interval, System will poll task status.	Sync Task Optional Parameter. Default Polling interval is 1 minute.	INPUT
PollingTimeoutInMins	String	Polling Timeout in Mins, after defined time, system will stop polling task status and marked the Task as Timed out.	Async Task Optional Parameter. Default Polling timeout is 20 minutes.	INPUT
WorkflowMold	String	Cisco Intersight Workflow's Mold.	Cisco Intersight Workflow's Mold ec: 5d8b6746972652d3acc963.	INPUT
WorkflowParameters	keyvalue	Workflow input parameters in key/value format.	Workflow Input Parameters eg: [{"CPU": "2", "Name": "MyCloud-01"}]	INPUT

Figure 57 - Help - Generic Task Details (Cont.)

3.1.1.1.4.2 Download Reference Guide

Through this module, the login user can view the MyCloud Product Document(s) based on their Roles.

- Click on the Download link corresponding to the document to be downloaded (PDF).
- Click on the View link corresponding to the document to open the PDF in new Tab.

Document	Description	Action
API Guide	This document explains about Rest APIs which are being used in My Cloud to support cloud infrastructure. With the help of these APIs, we can connect multiple enterprise applications with MyCloud over HTTP and HTTPS.	Download View
Developer Guide	This guide provides instructions to developers for developing UI forms and defining process workflows. This includes the post-installation and configuration procedures for the product.	Download View
Configuration Guide Admin	This document is intended for IT administrators/ Business Administrators those are responsible for configuring MyCloud and enabling end-users to consume MyCloud services.This includes the post-installation and configuration using MyCloud admin module.	Download View
Introduction Guide	This document is intended for IT administrators/ Business Administrators those are responsible for configuring MyCloud and enabling end-users to consume MyCloud services.This includes the post-installation and configuration procedures for the product.	Download View
Troubleshoot Guide	This guide provides instructions to troubleshoot some of the commonly occurring issues along with steps to resolve the issues.	Download View
Configuration Guide Provider Part 1	This document is intended for IT administrators/ Business Administrators those are responsible for configuring MyCloud and enabling end-users to consume MyCloud services.This includes the post-installation and configuration using MyCloud provider module.	Download View
Configuration Guide Provider Part 2	This document is intended for IT administrators/ Business Administrators those are responsible for configuring MyCloud and enabling end-users to consume MyCloud services.This includes the post-installation and configuration using MyCloud provider module.	Download View
V3 API Guide	This document explains about Rest APIs which are being used in My Cloud to support cloud infrastructure. With the help of these APIs, we can connect multiple enterprise applications with MyCloud over HTTP and HTTPS.	Download View

Figure 58 – Download Reference Guide

3.1.2 Requester Module

This module describes how a service requester requests different types of services including IaaS and PaaS. A Requester is a business end user who is consuming services of MyCloud. The following actions are performed through this module:

- Request service catalog items that are entitled to the user.
- Manage their provisioned resources.
- View reports

3.1.2.1 Accessing MyCloud

1. Obtain the URL and user credentials for DRYiCE MyCloud.

Contact the person who has configured MyCloud or drop an email to MyCloud-Product-Supp@hcl.com

2. Launch a web browser (Chrome, Mozilla, and Edge) and use the **MyCloud URL** and **user credentials** to login to the system.
3. Enter the **Email ID**.
4. Click **Next**.

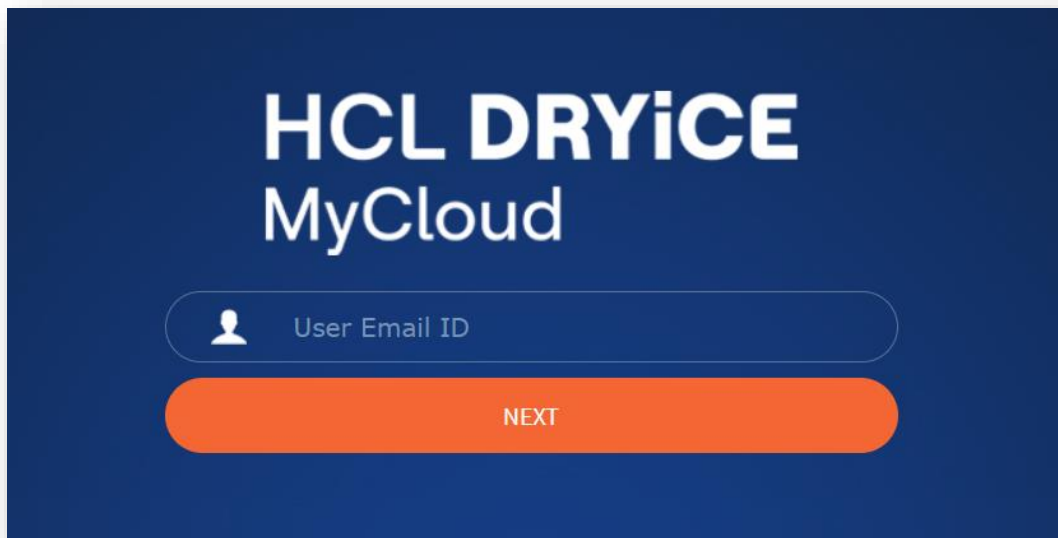


Figure 59 - MyCloud Login Page

5. Enter Password.

For security purposes, it is advised to change the password frequently and log out when you are not using the application.

6. Select the **Authentication Type**. The following authentication types are available for login:

Table 15 - Authentication Type

Authentication Type	Description
Form Based	Authenticates the user through the credentials which are stored in the database
LDAP	Authenticates the user through Active Directory (AD) credentials
SAML Based Authentication	Authenticate the user through the third- party Identity Access Management (IAM) which supports SAML based authentication

If there are no login credentials, then drop an email to MyCloud-Product-Supp@hcl.com.

If the login type is **Form Based**, no domain selection is required.

If the login type is **LDAP**, domain credentials need to be entered with domain selection.

If the login type is **SAML**, user gets re-directed to the authentication page.

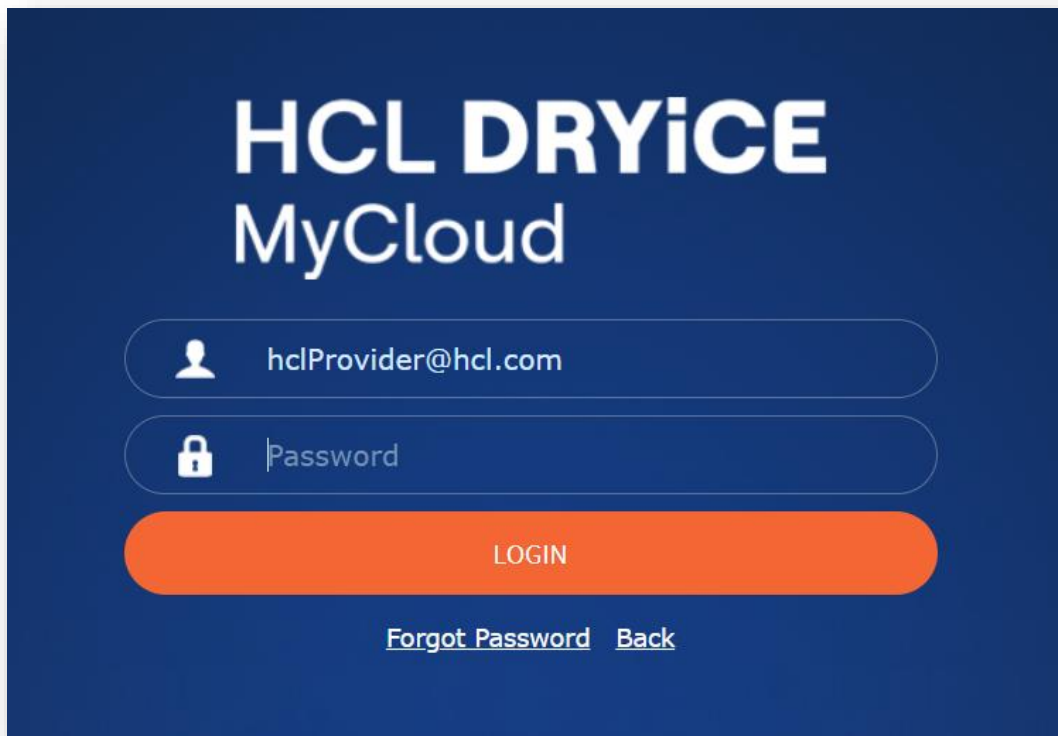


Figure 60 – MyCloud Login Page (Cont.)

7. Click Login.
8. On a successful login, MyCloud homepage appears as shown below:

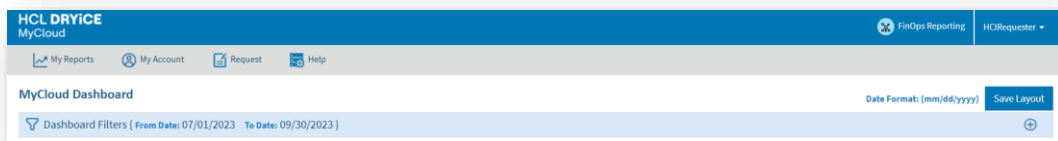


Figure 61 – MyCloud Dashboard

Admin user can change the appearance of the MyCloud Web/Reports to meet Customer-specific branding by changing the logo.

9. The **Requester Module** has the following options:
 - Request
 - My Account
 - My Reports

3.1.2.1.1 Request

This section describes the steps required to request a service catalog. A service catalog serves as a framework to improve service offerings by bringing all the offered services to one place and then redefining them in the context of a dynamic business environment.

1. On the main menu bar, click **Request**.
2. The drop-down appears with the following option:

- [Request Service Catalog](#)

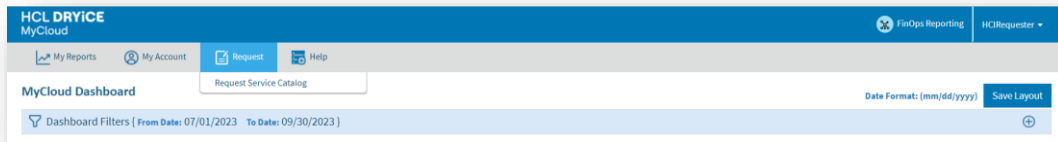


Figure 62 – Request

3.1.2.1.1.1 Request Service Catalog

To request a service in the catalog, the end user needs to follow the steps mention under **Generic Request Flow**. The Generic Request Flow provides the general steps to be followed for all the available catalog(s). By following the generic Request Flow, user will be able to place a request successfully:

3.1.2.1.1.1.1 Generic Request Flow

1. On the main menu bar, click **Request**, and then click **Request Service Catalog**.
2. If Provider has setup the **Questionnaire**, then the **Fill Questionnaire** screen will be displayed, and requester needs to fill the answer for the question and click on **Proceed**.

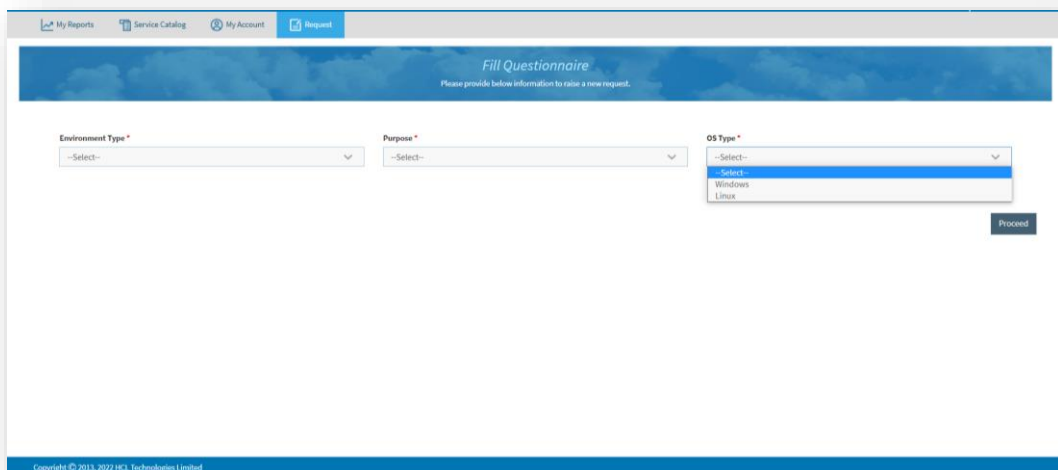


Figure 63 – Questionnaire Screen

3. The **Request Service Catalog** screen appears and displays the available cloud provider(s).

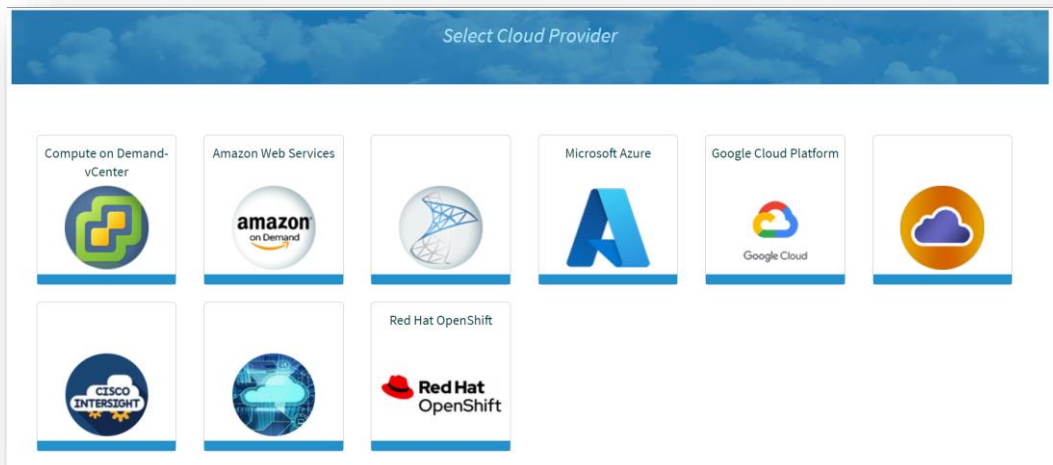


Figure 64 - Request Service Catalog

4. Select a **Cloud Service Provider** and click on **Proceed** to place a request.

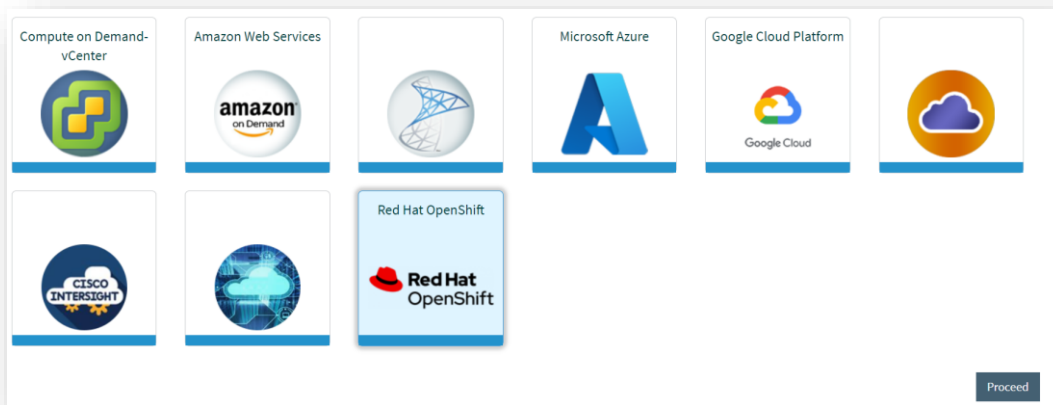


Figure 65 - Cloud Provider Selection

5. On **Service Catalogs** page, Select the following fields:
 - a. Select **Service** from the options being displayed, i.e. **All Service** (it includes all the services given in the catalog), **Service Type** created by provider and mapped with service catalog.
 - b. Select **Provisioning Endpoint**. Provisioning Endpoint will be filtered as per below criteria:
 - User logged in with Requester Role: Only Those Endpoints will be listed, which are allocated to user's Organization by the Provider admin user.
 - User logged with Custom Role having parent role as Requester: Then the tag of the user group should match the tag with Provisioning Endpoint configured by Provider admin.
 - c. Select **Region**.
 - Private Cloud: Region at which Private DCs would be located, and resources would be getting consumed.
 - Public Cloud: Region selected by the Provider admin at the time of creating the Provisioning EndPoint.

6. Based on the filter parameters selected in the above points, Service Catalogs will be listed. Now user can select the catalog and click on **Request** button.

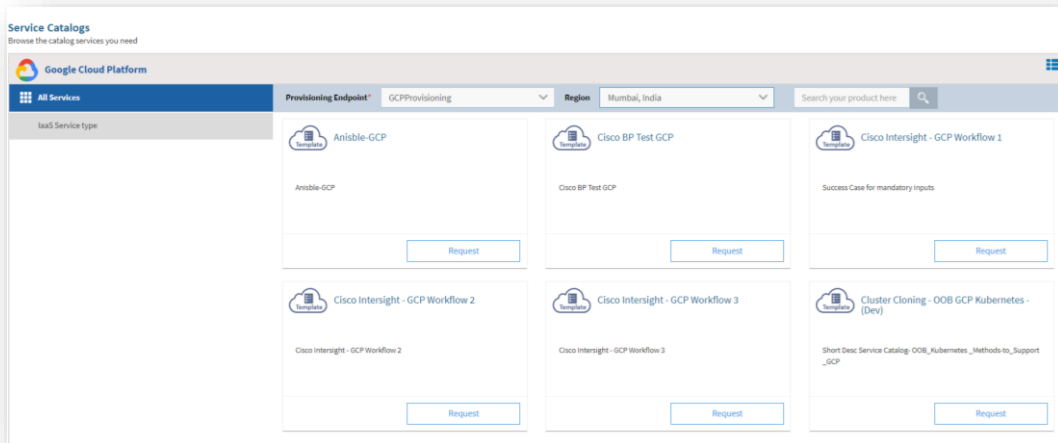


Figure 66 – Cloud Provider Selection (Cont.)

7. If Provider has setup the “Maximum number of Instances” greater than 1, then the below popup will appear, and the requester needs to select the number of instances and click on **Proceed**.

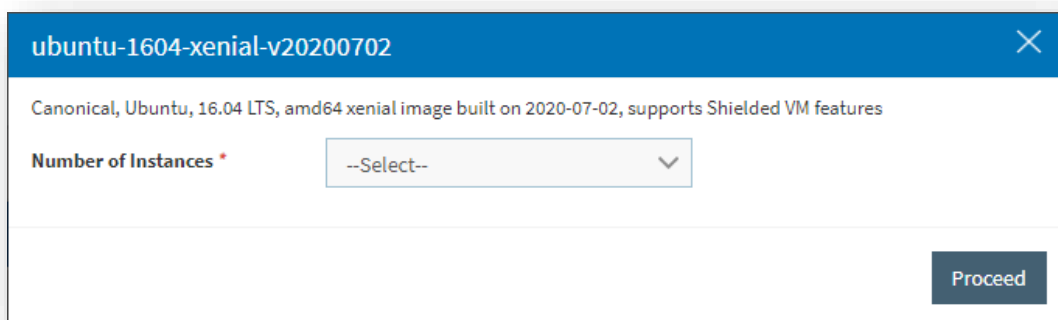


Figure 67 – Request Service Catalog (Cont.)

If provider enabled “Request For” option in service catalog, then “Request For (Email)” option will be visible to requester user to place request on the behalf of other user in same organization.

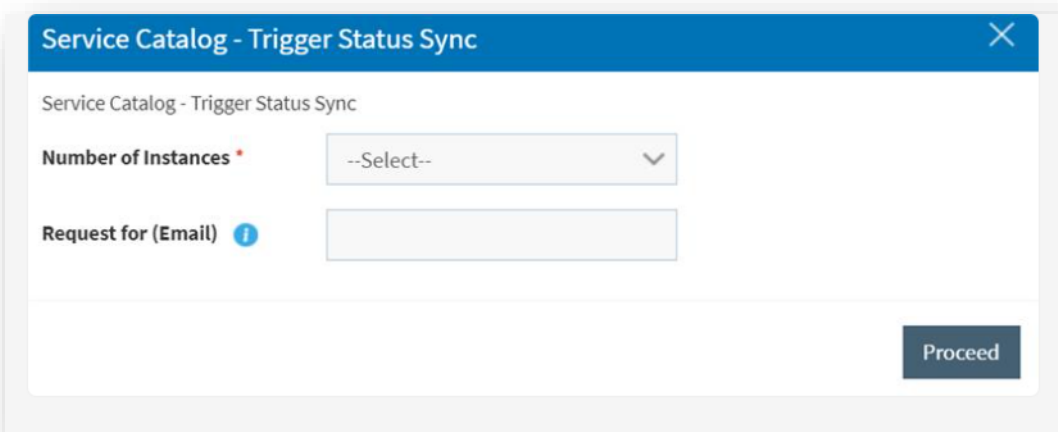


Figure 68 – Request Service Catalog (Cont.)

8. The request service catalog form appears.

This is a sample request form for Machine Provisioning. The form, tabs, UI fields may vary depending on the Catalog selection and as per configuration done by provider admin.

9. The form is categorized into four categories:

- UI tabs created using form designer
- Additional Storage
- Attachment
- Architecture Diagram
- Tags

3.1.2.1.1.1.1 UI Tabs Created Using Form Designer

This tab allows the user to manage the general configuration required for requesting cloud services.

1. Select **Machine Name**, **Zone**, **Size**, **Network Interface**, and **SubNetwork Interface** for which the user requires the services.




The screenshot shows a web form titled "Service Catalog Name: Debian GNU/Linux 10" with a "Copy From" dropdown set to "--Select--" and a "Copy To" dropdown set to "--All--". The form has three tabs: "General", "Additional Storage", and "Tags". The "General" tab is selected, showing "Item No: 1". The form contains several input fields and dropdown menus: "Machine Name" (text input), "Zone" (dropdown menu), "Description" (text input), "Size" (dropdown menu), "IpForward" (dropdown menu, currently set to "false"), "HostName" (text input), "DeletionProtection" (dropdown menu, currently set to "false"), "NetworkInterface" (dropdown menu), "SubNetworkInterface" (dropdown menu), "NetworkTier" (dropdown menu), and "NatIP" (text input). A green checkmark icon is visible next to the "NatIP" field.

Figure 69 - Request Service Catalog (Cont.)

2. Refer the below table to understand the fields mentioned in the above figure.

Table 16 - Request Service Catalog: GCP General Fields


Fields	Description
Machine Name	The name which is used to provision the machine
Zone	The zone where machine is to be provisioned
Description	Description of the resource.
Size	It is a set of virtualized hardware resources available to a virtual machine.
IpForward	Allows this instance to send and receive packets with non-matching destination or source IPs
HostName	The hostname of the instance
Deletion Protection	The resource should be protected against deletion
Network Interface	The network configurations for the instance
SubNetwork Interface	The Subnetwork configurations for the instance
Network Tier	The networking tier used for configuring this access configuration. It is used to provide an external IP address to the instance
NatIP	The external IP address associated with this instance

3. Enter **Machine Name**.
4. Select **Zone**.
5. Enter **Description**.
6. Select **Size**.
7. Select **IpForward**.
8. Enter **HostName**.
9. Select **DeleteProtection**.
10. Select **Network**, **SubNetwork**, **NetworkTier** and **NatIP** and then click on () to add selected values fields. We can add multiple values by clicking on ().
11. Copy From – Copy To
12. User needs to provide the details for another Item in the form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go ().
13. Once the form is filled, then click [Additional Storage](#).

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configure by provider admin from UI creation section.

3.1.2.1.1.1.2 Additional Storage

To add Additional Storage, user needs to follow the below steps:

1. Select the **DiskType**.
2. Provide the **DiskSize**.
3. Select AutoDelete.
4. Click () to add storage details.
5. Multiple storage details can be added.

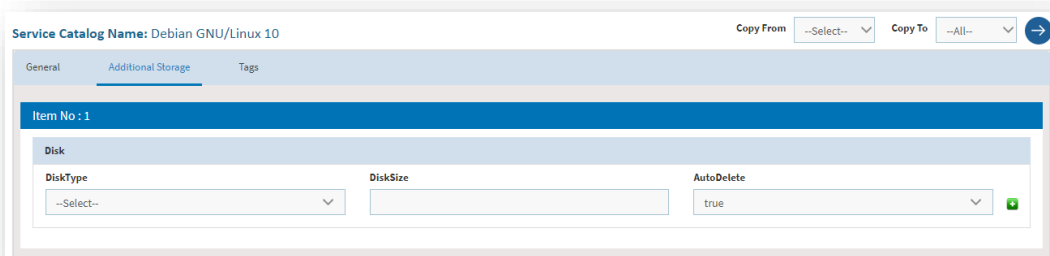


Figure 70 – Request Service Catalog (Cont.)

3.1.2.1.1.1.3 Attachment

This tab will be displayed, if Document Upload is enabled for service catalog by selecting “**Allow Document Upload**” setting to true on publish service catalog screen.

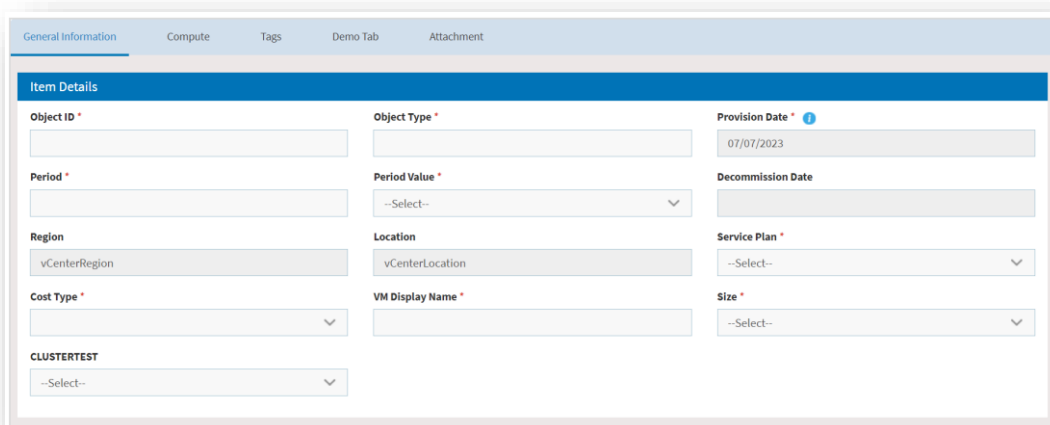


Figure 71 – Item Details

Figure 72 – Attachment

As mentioned in note section, requester can upload only predefined file extensions and file size should not exceed defined size. Also, requester cannot upload more than allowed files for each request.

3.1.2.1.1.1.4 Architecture Diagram

This tab will be displayed, if Architecture Diagram is enabled for service catalog by uploading image for architecture diagram in publish service catalog screen.


So while placing request user can see the any diagram under "Architecture Diagram" tab.

Figure 73 – Item Details (Architecture Diagram)

3.1.2.1.1.1.5 Tags

To add Tags, user needs to follow the below steps:

Figure 74 – Request Service Catalog (Cont.)

1. Enter **Key** Name for the tag being created.
2. Enter **Value**, to determine whether the machine belongs to test, QA or production environment.
3. Click **Add** ().
4. Click **Submit**.
5. The **Request summary** screen appears.
6. Click **Confirm**.

Request Summary

Request Detail			
Request No		Request Date (mm/dd/yyyy)	07/14/2020
Catalog Name	Debian GNU/Linux 10	Region Name	us-east1
Provisioning Endpoint	Gcp	Requester Name	requester
Request for			


Item : 1

General Tag Network Disk			
Machine Name	mycloud-vm-01	Zone	us-east1-b
Description	this is a test description	Size	n1-standard-1(1vCPU,3.75 GB)
Region	us-east1	IpForward	false
HostName	mycloud.vm	DeletionProtection	false

Confirm

Figure 75 – Request Service Catalog (Cont.)

7. The order confirmation pop-up window appears.
8. User can request for a new service request by clicking **New Request**.
9. Click **Close** to close the pop-up window.

 Your request has been submitted successfully.
 Request Number: SRREQ000171

Request Detail

Request No	SRREQ000171	Location Name	NA
Request Date (mm/dd/yyyy)	07/14/2020	Catalog Name	Debian GNU/Linux 10
Region Name	us-east1	Requester Name	requester
Platform	Google Cloud (GCP)	Provisioning Endpoint	Gcp
Request Type	VM-Virtual Machine Provisioning	Request for	

Item : 1

General			
Machine Name	mycloud-vm-01	Zone	us-east1-b
Description	this is a test description	Size	n1-standard-1(1vCPU,3.75 GB)
Region	us-east1	IpForward	false
HostName	mycloud.vm	DeletionProtection	false

Approval History

Request ID	Date	Status
SRREQ000171		Pending Approval

Figure 76 - Request Service Catalog (Cont.)

10. Refer the below table to understand the Approval History mentioned in the above figure.

Table 17 - Approval History

Field	Description
Request ID	ID generated after submitting the request
Date	Approval date gets displayed post approver's action.
Status	Current status of the request placed

All the fields marked with an asterisk (*) are mandatory.

Request is placed successfully.

The next section of this document explains the steps to process the requests for respective cloud providers.

3.1.2.1.1.2 Virtual Machine Requests

This section explains the steps to process the request for respective cloud providers.

3.1.2.1.1.2.1 VMware

To proceed with service requests that have VMware as a cloud provider, end-user needs to follow the steps below:

1. Select Provisioning EndPoint.
2. Only the endpoints which are tagged in RBAC group of User configuration are enable to Provider admin.
3. Select **Region**.
4. Region at which **Private DCs** would be located, and resources would be getting consumed.

5. Select **Service** from the options being displayed, i.e. **All Service** (it includes all the services given in the catalog), **Service Type** created by provider and mapped with service catalog.
6. Click **Request**.

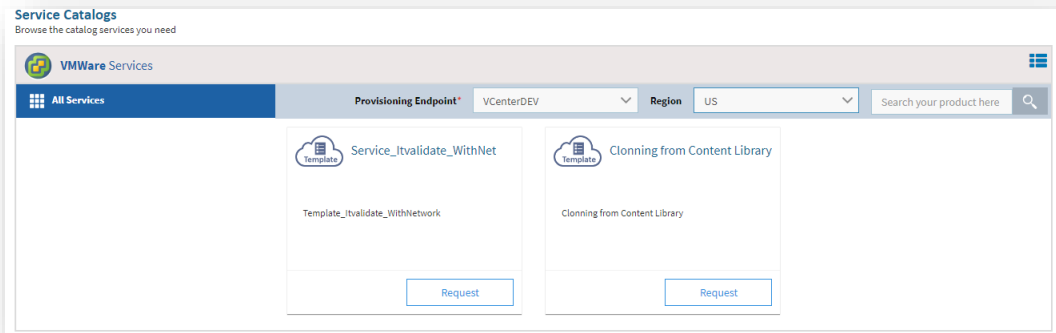


Figure 77 - Request Service Catalog (Cont.)

7. Select the Number of Instances and click Proceed.

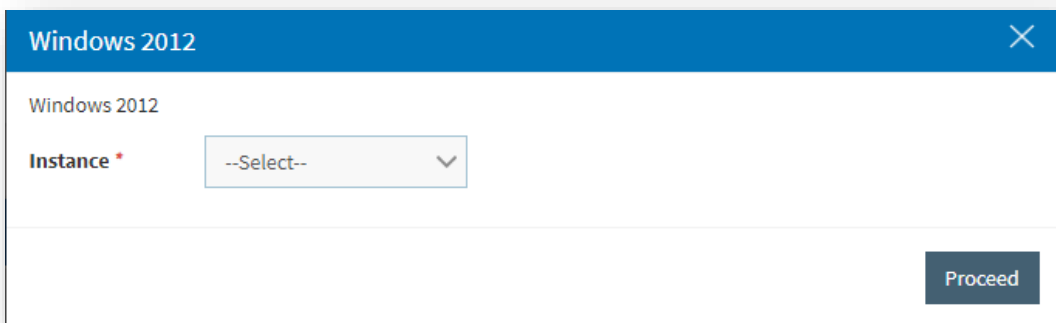


Figure 78 - Request Service Catalog (Cont.)

8. This displays the **Request Form** associated with the service catalog to fill in the Information.
9. The request service catalog form appears. The form is categorized into two categories:
 - General Information
 - Compute

These categories vary from one Service Catalog to other. Fields are totally dependent on UI created by Provider and associated with Service Catalog.

3.1.2.1.1.2.1.1 General Information

This tab allows the user to manage the general configuration.

The screenshot shows a web application interface for requesting services. It has two tabs: 'General Information' and 'Compute'. Below the tabs, there are 'Copy From' and 'Copy To' dropdown menus with a right arrow button. The main content area contains two identical forms, labeled 'Item No : 1' and 'Item No : 2'. Each form has the following fields:

- Provision Date ***: Text input with a date icon, showing '08/27/2019'.
- Period ***: Text input.
- Period Value ***: Dropdown menu showing '--Select--'.
- Region**: Text input showing 'India'.
- Location**: Text input showing 'Chennai'.
- Service Plan ***: Dropdown menu showing '--Select--'.
- Cost Type ***: Dropdown menu showing '--Select--'.
- VM Display Name ***: Text input.
- Remarks**: Text area.
- Size ***: Dropdown menu showing '--Select--'.
- Network IP**: Text input.

At the bottom of the form, there are four buttons: 'View Cost' (blue), 'Cancel' (grey), 'Save Draft' (blue), and 'Submit' (blue).

Figure 79 - Request Service Catalog (Cont.)

Refer to the below table to understand the fields mentioned in the above figure.

Table 18 - Request Service Catalog Fields

Fields	Description
Provision Date	The date on which a resource is required
Period	The lease period for which a resource is required
Period Value	Time period for the selected resource i.e., months, days, weeks or years
Region	The Region is Geographical Region at which Private DCs are located
Location	The locations at which Private DCs are located, and resources are getting consumed
Service Plan	Selecting the resource category created by the provider i.e. platinum, gold or bronze
Cost Type	Cost model as Pay as you go, or allocation based
VM Display Name	Name to be displayed against the Resource being created
Remarks	Provide additional requests, if any
Size	Need to mention the size
Network IP	It is the IP address of the server

1. Select **Provision Date** and **Period**.

2. Select **Period Value**.
3. Enter **Region**.
4. Enter **Location**.
5. Select **Service Plan** and **Cost Type**.
6. Enter **VM Display Name**.
7. Enter **Remarks** and select **Size**.
8. Enter **Network IP**.

The screenshot shows a web application interface for 'Request Service Catalog'. It has two tabs: 'General Information' (active) and 'Compute'. At the top right, there are 'Copy From' and 'Copy To' dropdown menus, both set to '--Select--', and a 'Go' button with a right arrow. Below this is a header for 'Item No : 1'. The form contains several input fields and dropdowns, some marked with an asterisk (*) indicating they are mandatory. The fields are arranged in a grid-like fashion. The 'Provision Date' field contains '08/27/2019'. The 'Region' field contains 'India'. The 'Location' field contains 'Chennai'. The 'Service Plan' dropdown is set to '--Select--'. The 'Cost Type' dropdown is also set to '--Select--'. The 'Size' dropdown is set to '--Select--'. The 'Period' field is empty. The 'VM Display Name' field is empty. The 'Network IP' field is empty. The 'Period Value' dropdown is set to '--Select--'. The 'Remarks' field is empty.

Figure 80 - Request Service Catalog (Cont.)

9. If a user has selected <n> no. of instances, then the same no. of item information appears on the screen in the form of Item number (s).
10. User needs to provide the details for another Item in another form or a user may simply copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (→)

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configured by provider admin from UI creation section.

General Information **Compute**

Copy From --Select-- Copy To --All-- →

Item No : 1

Provision Date * 08/27/2019

Region India

Cost Type *

Size * --Select--

Period *

Location Chennai

VM Display Name *

Network IP

Period Value * --Select--

Service Plan * --Select--

Remarks

Item No : 2

Provision Date * 08/27/2019

Region India

Cost Type *

Size * --Select--

Period *

Location Chennai

VM Display Name *

Network IP

Period Value * --Select--

Service Plan * --Select--

Remarks

View Cost Cancel Save Draft Submit

Figure 81 – Request Service Catalog (Cont.)

11. Once the form is filled, go to **Compute** tab.

3.1.2.1.1.2.1.2 Compute

This tab allows the requester to configure the hardware required. It is an optional tab.

Fill the following details in the **Compute** form:

1. Enter Additional Storage.
2. Click **Add**

General Information **Compute**

Copy From --Select-- Copy To --All-- →

Item No : 1

Additional Storage

GB ADD

Item No : 2

Additional Storage

GB ADD

View Cost Cancel Save Draft Submit

Figure 82 – Request Service Catalog (Cont.)

3. If a user has selected <n> no. of instances, then the same no. of item information appears on the screen in the form of Item number(s)
4. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (➡).
5. Once the form is filled, click **Submit**.
6. The **Order Summary** screen appears as shown in Figure 83 – Request Service Catalog (Cont.).
7. Scroll down and click **Confirm**.

The screenshot shows a window titled "Order Summary" with a close button (X) in the top right corner. The window is divided into two main sections: "Order Detail" and "Item : 1".

Order Detail

Request No		OrderExpectedCost	0.00
Request Date (mm/dd/yyyy)	08/27/2019	Catalog Name	Windows_2012_R2
Location Name	India	Environment	vCenterSDI
Requester Name	requester		


Item : 1

General Information

Provision Date	08/27/2019	Period	1
Period Value	Week(s)	Region	India
Location	Chennai	Service Plan	Platinum
Cost Type	Allocation based model	VM Display Name	testdemo
Remarks		Size	Small
Cluster		Storage	
Network		Network IP	

Figure 83 – Request Service Catalog (Cont.)

8. The order confirmation window appears with **MyCloud Request Number**.
9. User requests for a new service request by clicking **New Request**.
10. Click **Close** to close the pop-up window.

 Your request has been submitted successfully.
Request Number : 401

Order Detail

Request No	SR-REQ00000401	Location Name	Chennai
Request Date (mm/dd/yyyy)	08/28/2019	Catalog Name	Windows_2012_R2
Region Name	India	Requester Name	requester
Platform	VMware	Environment	vCenterSDI
RequestType	Vm Provisioning		

Item : 1

General Information		Additional Storage	
Network IP		Provision Date	08/28/2019
Period	1	Period Value	Day(s)
Region	India	Location	Chennai
Service Plan	Platinum	Cost Type	Allocation based model
VM Display Name	testdemo	Remarks	
Size	Small	Cluster	
Storage		Network	

Approval History

No Record Found

[New Request](#)
[Close](#)

Figure 84 - Request Service Catalog (Cont.)


3.1.2.1.1.2.2 Amazon Web Services (AWS)

To proceed with Amazon Service Request (AWS), a user needs to follow the steps below:

1. Select **Provisioning EndPoint**. Only the endpoints which are tagged in RBAC group of User configuration are enabled to Provider admin.
2. Select **Region**, (Lists the geographical presence of native cloud providers).
3. Select **Service** from **All Service** option.
4. Click **Request**.

Service Catalogs

Browse the catalog services you need


Amazon Services

All Services


Provisioning Endpoint*

AWSdev

Region

--Select--

Search your product here



Service27082020

Service27082020

[Request](#)

Figure 85 - Request Service Catalog (Cont.)

5. Select **number of Instance** required.
6. Click **Proceed**.

Figure 86 - Request Service Catalog (Cont.)

7. The **Request Service Catalog** form appears. The form is categorized into four categories:

- General Information
- VPC (Virtual Private Cloud)
- General Details
- Tags

3.1.2.1.1.2.2.1 General Information

This tab allows the user to manage the general configuration required for requesting cloud services.

Figure 87 - Request Service Catalog (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 19 - Request Service Catalog Fields

Fields	Description
Provision Date	The date on which resource gets provisioned
Period	The time period of a resource that is required to get consumed by an organization
Period Value	Time period of a resource expressed in months, days, weeks or years
Region	It is the geographical region of Native Cloud Provider
Availability Zone	Each region consists of multiple independent locations known as availability zones
Instance type	Each instance type offers different compute, memory and storage
VM Display Name	Name to be displayed against the Resource that has been created
Service Plan	Select the category of plans that have been created by provider, i.e. platinum, gold or bronze
Cost Type	Select the Cost model as Pay as you go, or allocation based
Remarks	The additional comments/ descriptions/ information, if any

Region and **Location** pre-populates based on the selection made on the previous screen as shown in [Figure 87 - Request Service Catalog \(Cont.\)](#).

Figure 88 - Request Service Catalog (Cont.)

1. Enter **Provision Date** and **Period**.
2. Select Period Value.
3. Select Availability Zone.
4. Select Instance Type.
5. Enter **VM Display Name**.
6. Select Service Plan and Cost Type.
7. Enter the additional information in **Remarks**.
8. If a user has selected <<n>> no. of instances, then the same no. of item information appears on the screen in the form of Item number(s).

9. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (➡).
10. Once the form is filled, click on VPC.

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configure by provider admin from UI creation section.

3.1.2.1.1.2.2.2 VPC

This tab allows the user to configure the Virtual Private Cloud (VPC) by provisioning a logically isolated section in Amazon Web Services cloud.

Figure 89 - Request Service Catalog (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 20 - Request Service Catalog - VPN Fields

Fields	Description
Subnet ID	Network range within an availability zone
Tenancy	Default tenancy leverages shared resources whereas dedicated tenancy leverages dedicated resources
Assign New NIC	Number of network interface cards
Security Group	Provides security at Protocol and Port Access level

1. Select the **Subnet ID**.
2. Select the **Tenancy**.
3. Select **Security Group** from the list.

Security Group appear based on the Subnet ID selected.

4. If a user has selected <<n>> no. of instances, then the same no. of item information appears on the screen in the form of Item number(s).

5. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (➔).
5. Once the form is filled, then click General Details.

All the fields marked with an asterisk (*) are mandatory.

3.1.2.1.1.2.2.3 General Details

This tab allows the user to manage the general configuration required. It is an optional tab.

The screenshot shows a web form titled 'General Details' under the 'VPC' section. The form is for 'Item No : 1'. It contains six input fields arranged in two rows of three. The first row includes 'EBS Volume(GB)', 'Existing Key Pairs' (a dropdown menu showing '--Select--'), and 'Volume Type' (a dropdown menu showing 'Stander'). The second row includes 'IOPS', 'Elastic IP' (a dropdown menu showing 'False'), and 'Enable Detailed Monitoring' (a dropdown menu showing 'true'). At the bottom of the form, there are four buttons: 'View Cost', 'Cancel', 'Save Draft', and 'Submit'.

Figure 90 - Request Service Catalog (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 21 - Request Service Catalog: General Information fields

Fields	Description
EBS Volume	Block level storage volumes to be associated with instances
Existing Key Pairs	Authenticate users associated with instance
Volume Type	Type of EBS Supported by AWS. This can be Standard, IOPS, General Purpose 2
IOPS	In case of IOPS Type EBS Number of IO per second requested
Elastic IP	If public IP needs to attach with instance
Enable Detailed Monitoring	In case of detailed monitoring needs to be enabled

1. Enter EBS Volume.
2. Select Existing Key Pairs.
3. Select Volume Type.
4. Enter **IOPS**.
5. Select Elastic IP.
6. Select Enable Detailed Monitoring.

7. If a user has selected <n> no. of instances, then the same no. of item information appears on the screen in the form of Item number(s)
8. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy from** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (➡).

3.1.2.1.1.2.2.4 Tags

Tags are the name-value pair; they are used to organize resources in AWS portal. A user applies tags for individual resource.

Figure 91 - Request Service Catalog (Cont.)

1. Enter **Key**, and name for the tag being created.
2. Enter **Value** to determine whether the machine belongs to test, QA or production environment.
3. Click **Add** (+)
4. Click **Submit**.
5. The Request Summary pop-up window appears as shown in Figure 92 - Request Service Catalog (Cont.).

All the fields marked with an asterisk (*) are mandatory.

6. Click **Confirm**.

Request Summary

Request Detail

Platform	Amazon	Order Date	21 Aug 2019
Requester Name	Requester	Order Expected Cost (\$)	43.07
Catalog	Mycloud-RHEL-Docker-Golden-Image(AMI ID: ami-b6e6c3d5)		

Item No: 1 (sampleTest)

Server Detail	Other Details	Additional Information	
Region	ap-southeast-2	Availability Zone	ap-southeast-2a
Service Plan	Platinum	Computer Name	COMP-1
Provision Request Date	21 Aug 2019	Actual Provision Date	
Request Bid Price	0.0100	Decommission Date	22 Aug 2019
Cost Type	Time Based model	Expected Cost (\$)	43.07
Instance Type	(Small Instance-1,00,1)		
Remarks			

Confirm

Figure 92 - Request Service Catalog (Cont.)

- The order confirmation window appears as shown in [Figure 93 - Request Service Catalog \(Cont.\)](#).
- User can request for a new service request by clicking **New Request**.
- Click **Close** to close the pop-up window.

Your request has been submitted successfully.
Request Number : 398

Order Detail

Request No	SR-REQ00000398	Location Name	ap-southeast-2b
Request Date (mm/dd/yyyy)	08/27/2019	Catalog Name	AWS_IAAS_SERVICE
Region Name	ap-southeast-2	Requester Name	requester
Platform	Amazon	Environment	AWSdev
RequestType	Vm Provisioning		

Item : 1

General Information	VPC	General Details	
Provision Date	08/31/2019	Period	1
Period Value	Day(s)	Region	USA
Availability Zone		Instance Type	t2.small
VM Display Name	testdemo	Service Plan	Platinum
Cost Type	Time Based model	Remarks	

Approval History

	Activity	Request ID	Date	Status
+	Do Work	SR-REQ00000398		Pending Approval

New Request

Close

Figure 93 - Request Service Catalog (Cont.)

Refer the below table to understand the Approval History mentioned in the above figure.

Table 22 - New Request

Fields	Description
Activity	Displays the activity performed by the user
Request ID	ID generated after submitting the request
Date	Approval date gets displayed post approver's action.
Status	Current status of the request placed

Click **Expand (+)** to expand the fields and all the fields marked with asterisk (*) are mandatory.

3.1.2.1.1.2.3 Azure

1. Select **Provisioning EndPoint**. Only those endpoints will show which are tagged in rbac group of User configuration are enable to Provider admin.
2. Select **Region**.
3. Select **Service** from All Services option on the left pane.
4. (All Services option includes all the services given in the other catalog).
5. Click **Request**.

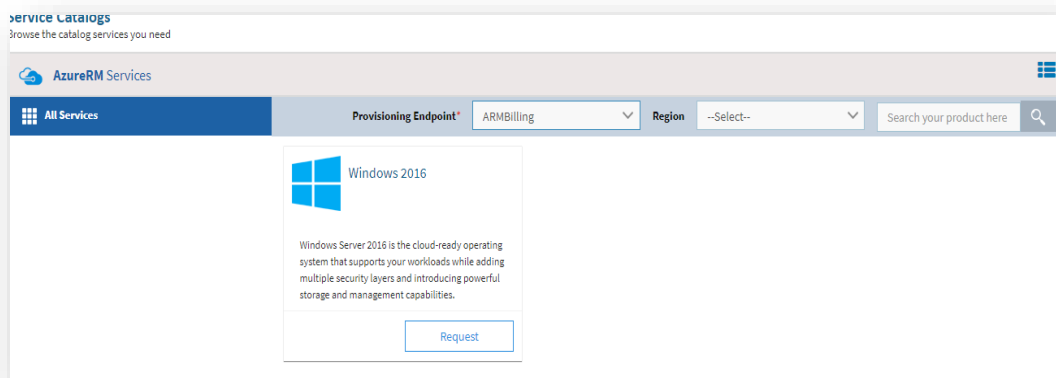


Figure 94 - Request Service Catalog (Cont.)

6. Select Number of Instances, and then click Proceed.

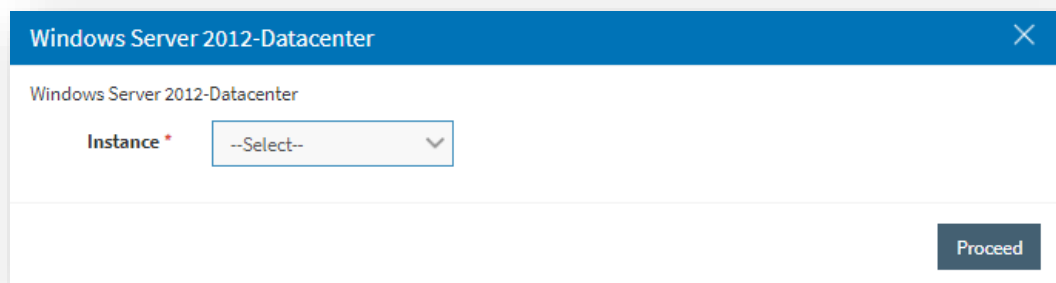


Figure 95 - Request Service Catalog (Cont.)

7. The Request Service Catalog form appears. The form is categorized into four categories:
 - General Information
 - Instance Details

- Additional Storage
- Tags

3.1.2.1.1.2.3.1 General Information

This tab allows the user to manage the general configuration required for requesting cloud services.

1. Select **Provision Date** and **Period** for which the user requires the services.

The screenshot shows a web form titled 'General Information' with a tabbed interface. The 'General Information' tab is active. Below the tabs, there's a header 'Item No : 1'. The form contains several input fields: 'Provision Date' (text box), 'Period' (text box), 'Period Value' (dropdown menu with '--Select--'), 'Location' (text box with 'southeastasia'), 'Service Plan' (dropdown menu with '--Select--'), 'Cost Type' (dropdown menu with '--Select--'), 'VM Display Name' (text box), 'Remarks' (text box), and 'ServerName' (text box). At the bottom, there are four buttons: 'View Cost' (blue), 'Cancel' (grey), 'Save Draft' (blue), and 'Submit' (blue).

Figure 96 – Request Service Catalog (Cont.)

2. Refer the below table to understand the fields mentioned in the above figure.

Table 23 – Request Service Catalog: Azure General Information Fields

Fields	Description
Provision Date	The date on which a resource gets provisioned
Period	The time period of a resource that is required to get consumed by an organization
Period Value	Time period of a resource expressed in months, days, weeks or years
Location	The locations at which Public Cloud services are getting consumed
Service Plan	Select the category of plans that have been created by provider; i.e. platinum, gold or bronze
Cost Type	Select the Cost model as Pay as you Go
VM Display Name	Name of the Resource that has been created
Remarks	Provide any additional comments/ descriptions/ information
Server Name	Name to be displayed on the server and to be used as a hostname

3. Select Period Value.
4. Enter **Location**.
5. Select Service Plan and Cost Type.
6. Enter **VM Display Name**.
7. Enter the additional information in **Remarks** box.

8. Enter Server Name.
9. If a user has selected <n> no. of instances, then the same no. of item information appears on the screen in the form of Item number(s).
10. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (→).
11. Once the form is filled, then click Instance Details.

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configure by provider admin from UI creation section.

3.1.2.1.1.2.3.2 Instance Details

This tab allows the user to configure the Instance required. It is an optional tab.

The screenshot shows the 'Instance Details' tab in a web application. The form is titled 'Item Details' and contains several configuration options for an instance. The options are arranged in a grid-like format with dropdown menus. The fields are: Tier (Standard), Size (--Select--), Resource Group (*, --Select--), Virtual Network (*, --Select--), Subnets (*, --Select--), Disk Type (--Select--), Is Availability Set (Yes), Availability Set (--Select--), Load Balancer (--Select--), Is Backup (Yes), Recovery Vault (--Select--), Backup Policy (--Select--), and Enable Monitoring (Yes). At the bottom of the form, there are five buttons: View Cost, Cancel, Save Draft, Submit, and Generate API JSON.

Figure 97 - Request Service Catalog (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 24 – Instance Details: Request Service Catalog (Cont.)

Fields	Description
Tier	Select the Tier Type
Size	Signifies compute, memory and storage associated with instances
Resource Group	Logical grouping of cloud resources
Virtual Networks	Choose a network to communicate between virtual machines
Subnets	Network range within a VNET
Disk Type	Type of disk required for operations could be standard or premium.
Is Availability Set	Whether availability set is required or not
Availability Set	Logical grouping capability for isolating VM resources from each other when they're deployed
Load Balancer	Distributes the traffic across multiple VMs
Is Backup	Backing up of instance is required or not
Recovery Vault	Native backup services provided by Azure
Backup Policy	Multiple backup policies can be defined and selected for a recovery vault
Enable Monitoring	Choose if monitoring of the instance is to be enabled or not

1. Select **Tier** and **Size**.
2. Select Resource Group and Virtual Network.
3. Select Subnets and Disk Type.
4. Select Is Availability Set.
5. Select Availability Set and Load Balancer.
6. If required, select Is Back Up required.
7. Select Recovery Vault and Back Up Policy.
8. If user wishes to enable monitoring on the VM, select Enable Monitoring.
9. Once the form is filled, click **Additional Storage**.

3.1.2.1.1.2.3.3 Additional Storage

To add Additional Storage, user needs to follow the below steps:


1. Enter required **Disk Space**.
2. Click **ADD** to add storage details.
3. If a user wants to delete the added details, click **Delete** ().

Figure 98 - Request Service Catalog (Cont.)

4. If a user has selected <n> no. of instances, then the same no. of item information appears on the screen in the form of Item number(s).
5. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.)
 - Select Copy To (Item No.)
 - Click Go (→)
6. If required, click **Submit** to submit the request.
7. Once the form has been filled, click **Tags**.

All the fields marked with an asterisk (*) are mandatory. User can submit the request as tags are not compulsory.

3.1.2.1.1.2.3.4 Tags

To add Tags, user needs to follow the below steps:

Figure 99 - Request Service Catalog (Cont.)

3.1.2.1.1.2.4 GCP

To proceed with service requests that have GCP as a cloud provider, end-user needs to follow the steps below:

1. Select **Provisioning Endpoint**. Only those endpoints will show which are tagged in RBAC group of User configuration are enable to Provider admin.
2. Select **Region**.
3. Click **Request**.

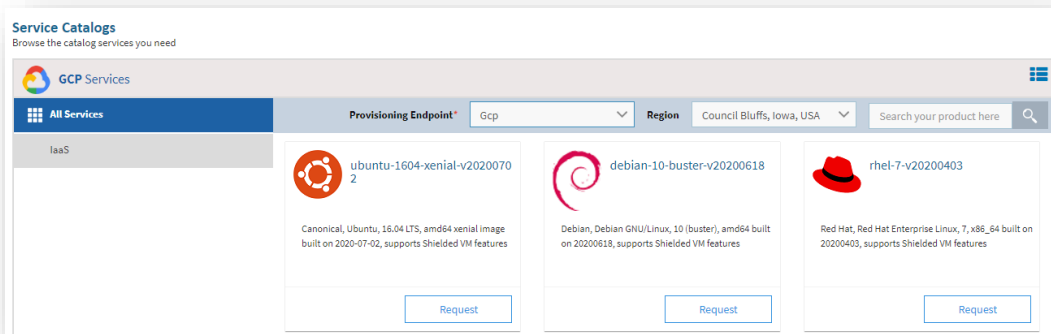


Figure 100 - Request Service Catalog (Cont.)

4. Select Number of Instances, and then click **Proceed**.

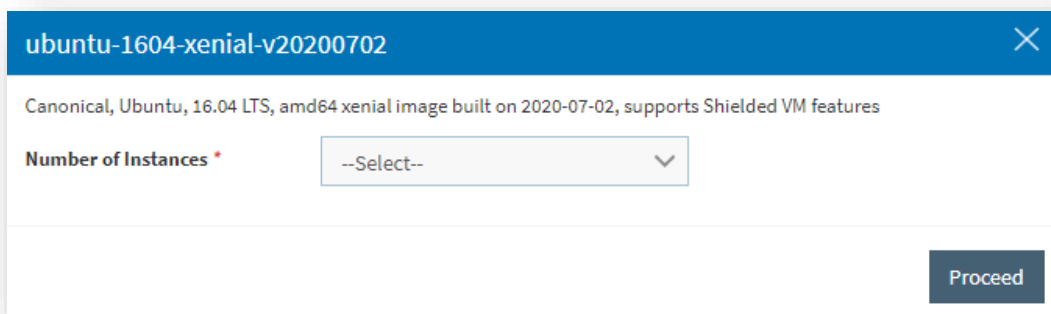


Figure 101 - Request Service Catalog (Cont.)

5. The request service catalog form appears. The form is categorized into three categories:
 - General
 - Additional Storage
 - Tags

3.1.2.1.1.2.4.1 General Information

This tab allows the user to manage the general configuration required for requesting cloud services.

1. Select **Machine Name**, **Zone**, **Size**, **Network Interface**, and **SubNetworkInterface** for which the user requires the services.

Service Catalog Name: Debian GNU/Linux 10

Copy From: --Select-- Copy To: --All--

General Additional Storage Tags

Item No : 1

Machine Name * Zone * Description

Size * IpForward HostName

DeletionProtection

Network

NetworkInterface * SubNetworkInterface * NetworkTier

NatIP

Figure 102 - Request Service Catalog (Cont.)

2. Refer the below table to understand the fields mentioned in the above figure.

Table 25 - Request Service Catalog: GCP General Fields

Fields	Description
Machine Name	The name which is used to provision the machine
Zone	The zone where machine is to be provisioned
Description	Description of the resource.
Size	It is a set of virtualized hardware resources available to a virtual machine.
IpForward	Allows this instance to send and receive packets with non-matching destination or source IPs
HostName	The hostname of the instance
Deletion Protection	The resource should be protected against deletion
Network Interface	The network configurations for the instance
SubNetwork Interface	The Subnetwork configurations for the instance
Network Tier	The networking tier used for configuring this access configuration. It is used to provide an external IP address to the instance
NatIP	The external IP address associated with this instance

1. Enter Machine Name.
2. Select **Zone**
3. Enter Description.
4. Select **Size**.

5. Select IpForward.
6. Enter HostName.
7. Select DeletionProtection.
8. Select **Network**, **SubNetwork**, **NetworkTier** and **NatIP** and then click on (+) to add selected values fields. We can add multiple values by clicking on (+).
9. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
10. Select **Copy From** (Item No.).
 - Select Copy To (Item No.).
 - Click Go (→).
11. Once the form is filled, then click Additional Storage.

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configure by provider admin from UI creation section.

3.1.2.1.1.2.4.2 Additional Storage

To add Additional Storage, user needs to follow the below steps:

1. Select the **DiskType**.
2. Provide the **DiskSize**
3. Select AutoDelete.
4. Click (+) to add storage details.


The user has the option to add Multiple storage details.

Figure 103 - Request Service Catalog (Cont.)

3.1.2.1.1.2.4.3 Tags

To add Tags, user needs to follow the below steps:

Figure 104 - Request Service Catalog (Cont.)

1. Enter **Key** name for the tag being created.
2. Enter **Value**, to determine whether the machine belongs to test, QA, or production environment.
3. Click **Add** ().
4. Click **Submit**.
5. The **Request summary** screen appears.
6. Click **Confirm**.

Request Detail			
Request No		Request Date (mm/dd/yyyy)	07/14/2020
Catalog Name	Debian GNU/Linux 10	Region Name	us-east1
Provisioning Endpoint	Gcp	Requester Name	requester
Request for			

Item : 1

General			
Machine Name	mycloud-vm-01	Zone	us-east1-b
Description	this is a test description		
Region	us-east1	Size	n1-standard-1(1vCPU,3.75 GB)
HostName	mycloud.vm	IpForward	false
		DeletionProtection	false

Confirm

Figure 105 - Request Service Catalog (Cont.)

7. The order confirmation pop-up window appears.
8. User can request for a new service request by clicking **New Request**.
9. Click **Close** to close the pop-up window.

Your request has been submitted successfully.
 Request Number : SRREQ000171

Request Detail

Request No	SRREQ000171	Location Name	NA
Request Date (mm/dd/yyyy)	07/14/2020	Catalog Name	Debian GNU/Linux 10
Region Name	us-east1	Requester Name	requester
Platform	Google Cloud (GCP)	Provisioning Endpoint	Gcp
Request Type	VM-Virtual Machine Provisioning	Request for	

Item : 1

General
Tags
Network
Disk

Machine Name	mycloud-vm-01	Zone	us-east1-b
Description	this is a test description	Size	n1-standard-1(1vCPU,3.75 GB)
Region	us-east1	IpForward	false
HostName	mycloud.vm	DeletionProtection	false

Approval History

	Request ID	Date	Status
+	SRREQ000171		Pending Approval

New Request
Close

Figure 106 – Request Service Catalog (Cont.)

10. Refer to the below table to understand the Approval History mentioned in the above figure.

Table 26 – Approval History

Fields	Description
Request ID	ID generated after submitting the request
Date	Approval date gets displayed post approver's action.
Status	Status of the request placed

All the fields marked with an asterisk (*) are mandatory.

3.1.2.1.1.2.5 HyperV 2012

To proceed with service requests that have HyperV 2012 as a cloud provider, end-user needs to follow the steps below:

1. Select **Provisioning Endpoint**. Only those endpoints are tagged in RBAC group of User and configuration are enabled to Provider admin.
2. Select **Region**.
3. Click **Request**.

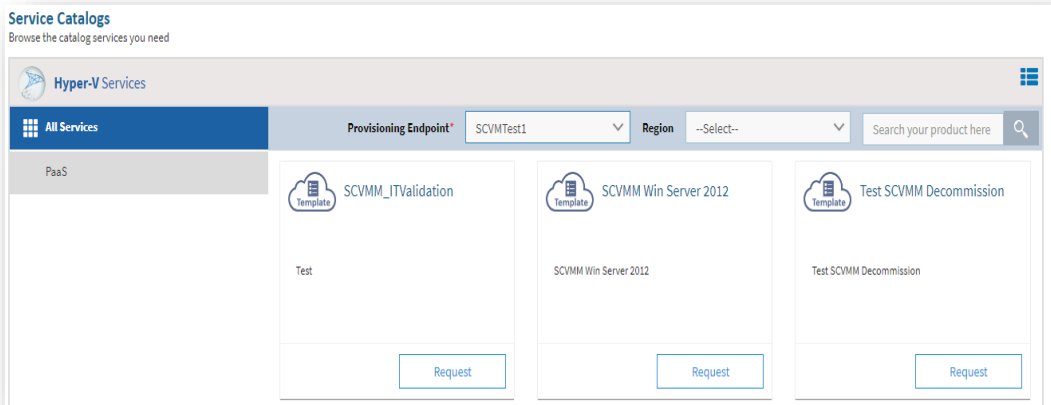


Figure 107 –Request Service Catalog (Cont.)

4. Select number of Instances and click **Proceed**.

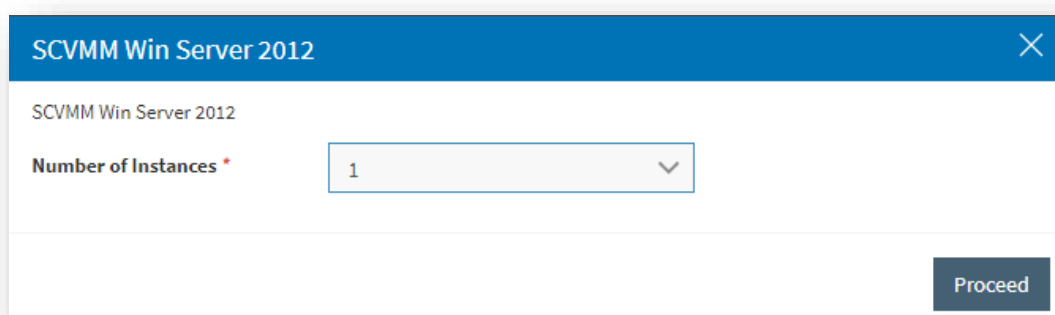


Figure 108– Request Service Catalog (Cont.)

3.1.2.1.1.2.5.1 General Information

This tab allows the user to manage the general configuration.

Service Catalog Name: SCVMM Win Server 2012

General Information Info

Item Details

Location * --Select--	Environment * --Select--	VM Size * --Select--
SR Number * ServiceNow Request Number	Server Name * ⓘ Server Name	Description/Justification
Domain * INV	DMZ * No	Application Name * Application Name
Requested By req@hcl.com	Requested For * req@hcl.com	Application Owner Group * Business Owner
Responsible Team Responsible Team	Cost Center Cost Center	Project Code * ⓘ Project Code
Network Zone * --Select--	Backup Required * No	Lease Period * --Select--
Vlan ID (Data) * Vlan ID (Data)	IP (Data) * IP (Data)	Vlan ID (Mgmt) * Vlan ID (Mgmt)
IP (Mgmt) * IP (Mgmt)	Vlan ID (Bkp) 0	IP (Bkp) IP (Bkp)
Subnet IP (Bkp) Subnet IP (Bkp)	Gateway IP (Bkp) Gateway IP (Bkp)	Vlan ID (Storage) 0
IP (Storage) IP (Storage)	Hyper-V Replica * No	Hyper-V Replica Name Hyper-V Replica Name
Server Role * --Select--	Service Hours --Select--	

Cancel Submit

Figure 109 - Request Service Catalog (Cont.)

5. Select all the fields visible in UI and click on **Submit**.

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configured by provider admin from UI creation section.

3.1.2.1.1.2.6 Cisco Intersight

To proceed with service requests that have Cisco Intersight as a cloud provider, end-user needs to follow the steps below:

1. Select **Provisioning Endpoint**. Only the Provisioning Endpoints are tagged in RBAC group of users and configuration are enabled to Provider admin.
2. Select Region.
3. Click Request.

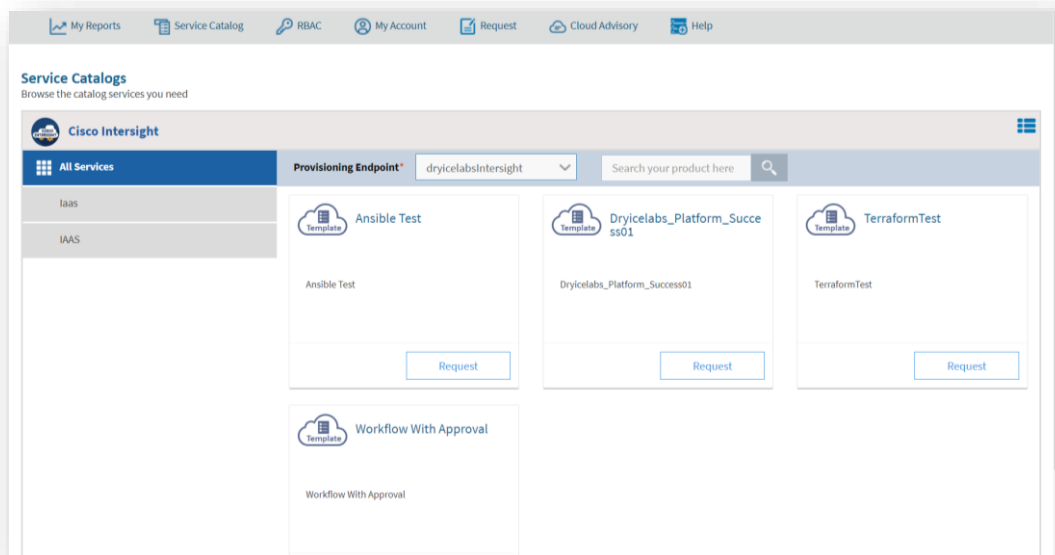


Figure 110 – Cloud Provider Selection (Cont.)

4. Select Number of Instances, and then click Proceed.

Figure 111 – Request Service Catalog (Cont.)

5. The request service catalog form appears. The form contains the following tab:
 - [General Info](#)

3.1.2.1.1.2.6.1 General Information

This tab allows the user to manage the general configuration required for requesting cloud services.

Figure 112 - Request Service Catalog (Cont.)

Select all the fields visible in UI and click on **Submit**.

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configure by provider admin from UI creation section.

3.1.2.1.1.2.7 MultiHyper-Visor

To proceed with service requests that have Multi-Hypervisor as a cloud provider, end-user needs to follow the steps below:

1. Select **Provisioning Endpoint**. Only the Provisioning Endpoints are tagged in RBAC group of users and configuration are enabled to Provider admin.
2. Click **Request**.

Figure 113 - Cloud Provider Selection (Cont.)

3. Select **Number of Instances**, and then click **Proceed**.

Figure 114 – Request Service Catalog (Cont.)

4. The request service catalog form appears. The form contains the following tab:

- [General Info](#)

3.1.2.1.1.2.7.1 General Information

This tab allows the user to manage the general configuration required for requesting cloud services.

Figure 115 – Request Service Catalog (Cont.)

Select all the fields visible in UI and click on **Submit**.

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configure by provider admin from UI creation section.

3.1.2.1.1.2.8 Red Hat OpenShift

To proceed with service requests that have Red Hat OpenShift as a cloud provider, end-user needs to follow the steps below:

1. Select Provisioning Endpoint.
2. Only the endpoints which are tagged in RBAC group of User configuration are enable to Provider admin.
3. Select **Region**.
4. Select **Service** from the options being displayed, i.e. **All Service** (it includes all the services given in the catalog), **Service Type** created by provider and mapped with service catalog.
5. Click **Request**.

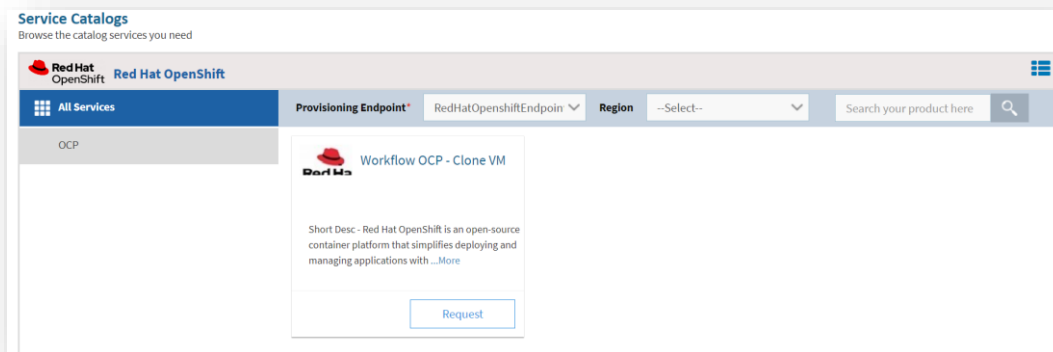


Figure 116 – Request Service Catalog (Cont.)

6. Select the Number of Instances and click Proceed.

Figure 117 – Request Service Catalog (Cont.)

7. This displays the **Request Form** associated with the service catalog to fill in the Information.
8. The request service catalog form appears. The form is categorized into two categories:
 - General Information
 - Attachment

These categories vary from one Service Catalog to other. Fields are totally dependent on UI created by Provider and associated with Service Catalog.

3.1.2.1.1.2.8.1 General Information

This tab allows the user to manage the general configuration.

Service Catalog Name: Workflow OCP - Clone VM

General Information | Attachment

Item Details

Virtual Machine Name:

Namespaces: -- Select --

Provision Date: 09/03/2024

Enter Period:

Select Period Value: -- Select --

Decommission Date:

CloudinitDisk: -- Select --

Select Annotation: -- Select --

Select Template: -- Select --

No Of CPU: -- Select --

Memory: -- Select --

Disk

Name:

StorageClassName: nfs-client

StorageQuantity:

Figure 118 – Request Service Catalog (Cont.)

Refer to the below table to understand the fields mentioned in the above figure.

Table 27 – Request Service Catalog Fields

Fields	Description
Provision Date	The date on which a resource is required
Period	The lease period for which a resource is required
Period Value	Time period for the selected resource i.e., months, days, weeks or years
Region	The Region is Geographical Region at which Private DCs are located
Location	The locations at which Private DCs are located, and resources are getting consumed
Service Plan	Selecting the resource category created by the provider i.e. platinum, gold or bronze
Cost Type	Cost model as Pay as you go, or allocation based
VM Display Name	Name to be displayed against the Resource being created
Remarks	Provide additional requests, if any
Size	Need to mention the size
Network IP	It is the IP address of the server

1. Select **Provision Date** and **Period**.
2. Select **Period Value**.
3. Enter **Region**.
4. Enter **Location**.
5. Select **Service Plan** and **Cost Type**.
6. Enter **VM Display Name**.
7. Enter **Remarks** and select **Size**.

8. Enter **Network IP**.

The screenshot displays a web form titled "Request Service Catalog" with two tabs: "General Information" (active) and "Compute". At the top right, there are "Copy From" and "Copy To" dropdown menus, both set to "--Select--", and a "Go" button with a right-pointing arrow. Below this is a header for "Item No : 1". The form contains several fields, some marked with an asterisk (*) indicating they are mandatory:

- Provision Date ***: Text input with "08/27/2019".
- Period ***: Text input.
- Period Value ***: Dropdown menu with "--Select--".
- Region**: Text input with "India".
- Location**: Text input with "Chennai".
- Service Plan ***: Dropdown menu with "--Select--".
- Cost Type ***: Dropdown menu.
- VM Display Name ***: Text input.
- Size ***: Dropdown menu with "--Select--".
- Network IP**: Text input.
- Remarks**: Text area.

Figure 119 - Request Service Catalog (Cont.)

9. If a user has selected <n> no. of instances, then the same no. of item information appears on the screen in the form of Item number (s).
10. User needs to provide the details for another Item in another form or a user may simply copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (→)

All the fields marked with an asterisk (*) are mandatory and UI fields are varying as per configured by provider admin from UI creation section.

Figure 120 - Request Service Catalog (Cont.)

11. Once the form is filled, go to **Compute** tab.

3.1.2.1.1.2.8.2 Attachment

This tab will be displayed, if Document Upload is enabled for service catalog by selecting "Allow Document Upload" setting to true on publish service catalog screen.

Figure 121 - Request Service Catalog (Cont.)

1. If a user has selected <n> no. of instances, then the same no. of item information appears on the screen in the form of Item number(s)
2. User needs to provide the details for another Item in another form or a user may copy the Details from one Item form to another Item by using **Copy From** and **Copy To** menu.
 - Select Copy From (Item No.).
 - Select Copy To (Item No.).
 - Click Go (→).

- Once the form is filled, click **Submit**.
- The **Order Summary** screen appears as shown in Figure 83 – Request Service Catalog (Cont.).
- Scroll down and click **Confirm**.

Order Summary

Order Detail

Request No		OrderExpectedCost	0.00
Request Date (mm/dd/yyyy)	08/27/2019	Catalog Name	Windows_2012_R2
Location Name	India	Environment	vCenterSDI
Requester Name	requester		

Item : 1

General Information

Provision Date	08/27/2019	Period	1
Period Value	Week(s)	Region	India
Location	Chennai	Service Plan	Platinum
Cost Type	Allocation based model	VM Display Name	testdemo
Remarks		Size	Small
Cluster		Storage	
Network		Network IP	

Figure 122 – Request Service Catalog (Cont.)

- The order confirmation window appears with **MyCloud Request Number**.
- User requests for a new service request by clicking **New Request**.
- Click **Close** to close the pop-up window.

Your request has been submitted successfully.
Request Number : 401

Order Detail

Request No	SR-REQ00000401	Location Name	Chennai
Request Date (mm/dd/yyyy)	08/28/2019	Catalog Name	Windows_2012_R2
Region Name	India	Requester Name	requester
Platform	VMware	Environment	vCenterSDI
RequestType	Vm Provisioning		

Item : 1

General Information Additional Storage

Network IP		Provision Date	08/28/2019
Period	1	Period Value	Day(s)
Region	India	Location	Chennai
Service Plan	Platinum	Cost Type	Allocation based model
VM Display Name	testdemo	Remarks	
Size	Small	Cluster	
Storage		Network	

Approval History

No Record Found

[New Request](#) [Close](#)

Figure 123 – Request Service Catalog (Cont.)

3.1.2.1.1.2 Request Service Catalog with Generic Endpoint

A Generic Endpoint is used for provisioning or platform agonistics service catalogs. Any type of service can be onboarded into a generic endpoint.

Like other provisioning endpoints, Generic endpoints has following features/workflow

- Admin can enable Generic Endpoint for Provider.
- Provider can create Generic Endpoint using “Manage Provisioning Platform” screen.
- Creation of Self-Service catalog for Generic Endpoint.

3.1.2.1.1.2.1 Manage Provider Screen

Admin user has the option to assign “Generic Endpoint” endpoint to provider. Below are the steps:

1. In the Provider menu, click on **Manage Provider**.
2. Enter Provider Name.
3. Enter **Provider** Description.
4. Select Applicable Cloud Platform.
5. Click on **Save**.

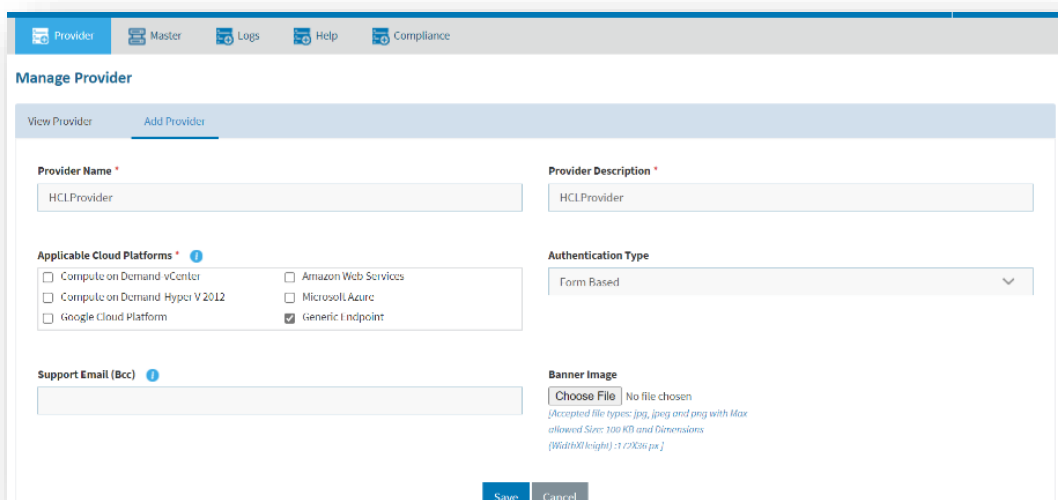


Figure 124 – Manage Provider

All the fields marked with an asterisk (*) are mandatory.

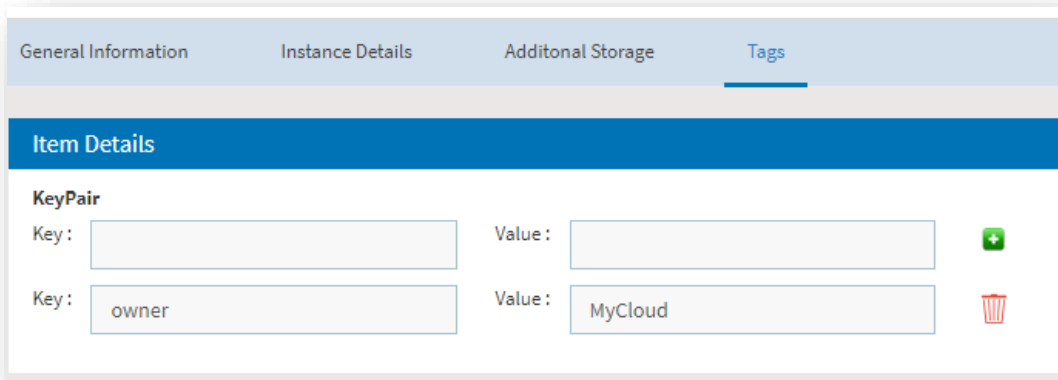

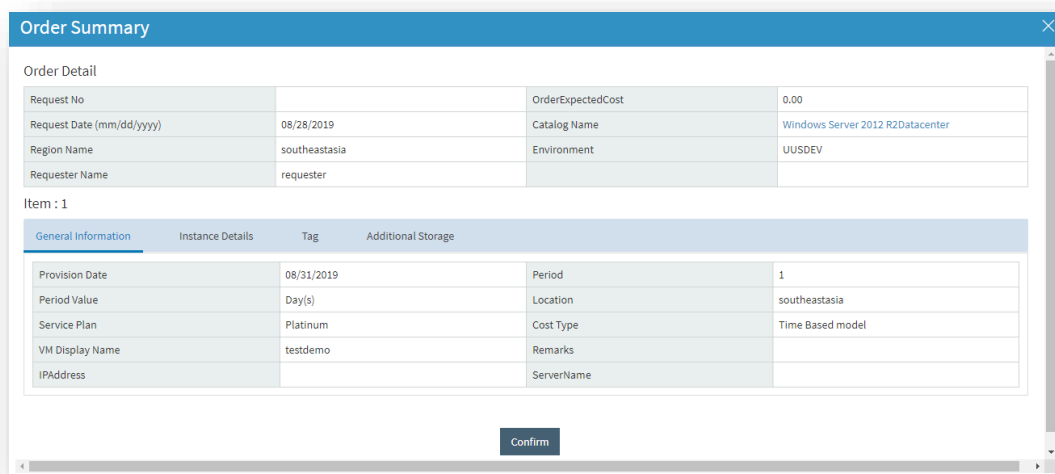


Figure 125 – Request Service Catalog (Cont.)

6. Enter Key, Name for the tag being created.
7. Enter Value, to determine whether the machine belongs to test, QA or production environment.

8. Click Add ().
9. Click Submit.
10. The Order summary screen appears.
11. Click Confirm.



Order Summary

Order Detail

Request No		OrderExpectedCost	0.00
Request Date (mm/dd/yyyy)	08/28/2019	Catalog Name	Windows Server 2012 R2Datacenter
Region Name	southeastasia	Environment	UUSDEV
Requester Name	requester		

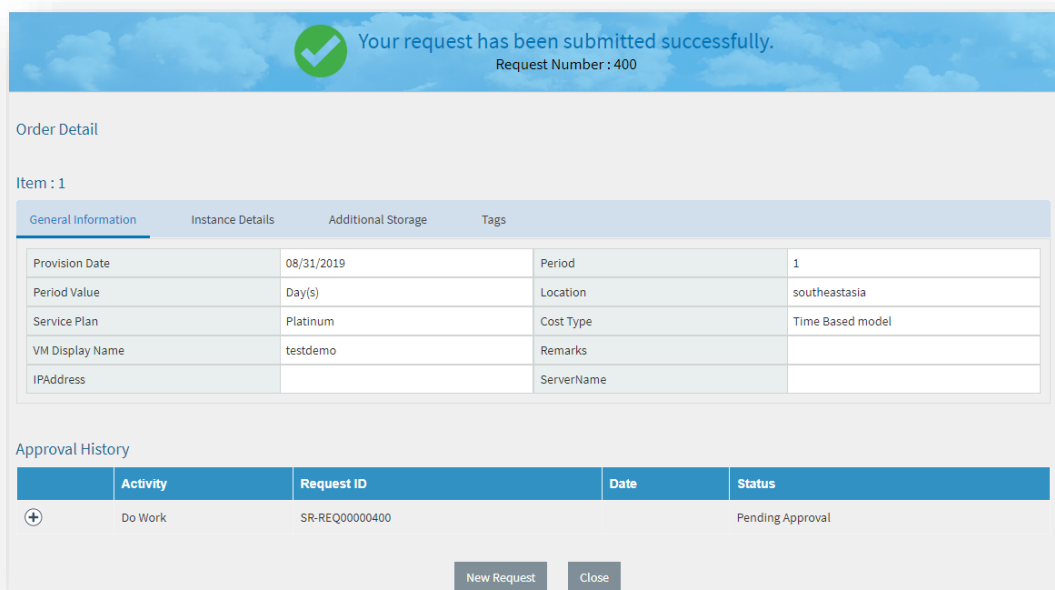
Item : 1


General Information	Instance Details	Tag	Additional Storage
Provision Date	08/31/2019	Period	1
Period Value	Day(s)	Location	southeastasia
Service Plan	Platinum	Cost Type	Time Based model
VM Display Name	testdemo	Remarks	
IPAddress		ServerName	

Confirm

Figure 126 - Request Service Catalog (Cont.)

12. The order confirmation pop-up window appears.
13. User can request for a new service request by clicking **New Request**.
14. Click **Close** to close the pop-up window.




 Your request has been submitted successfully.
Request Number : 400

Order Detail

Item : 1

General Information	Instance Details	Additional Storage	Tags
Provision Date	08/31/2019	Period	1
Period Value	Day(s)	Location	southeastasia
Service Plan	Platinum	Cost Type	Time Based model
VM Display Name	testdemo	Remarks	
IPAddress		ServerName	

Approval History

	Activity	Request ID	Date	Status
	Do Work	SR-REQ00000400		Pending Approval

New Request **Close**

Figure 127 - Request Service Catalog (Cont.)

15. Refer to the below table to understand the Approval History mentioned in the above figure.

Table 28 - Approval History

Fields	Description
Activity	Displays the activity performed by the user
Request ID	ID generated after submitting the request
Date	Approval date gets displayed post approver's action.
Status	Current status of the request placed

All the fields marked with an asterisk (*) are mandatory.

3.1.2.1.1.2.2 Generic Endpoint Management

If Admin user has configured "**Generic Endpoint**" for provider, then provider user can create Generic endpoint.

1. In Master menu, click on Manage Provisioning Platform.
2. Select Generic Endpoint.
3. Click on the **Go** button.

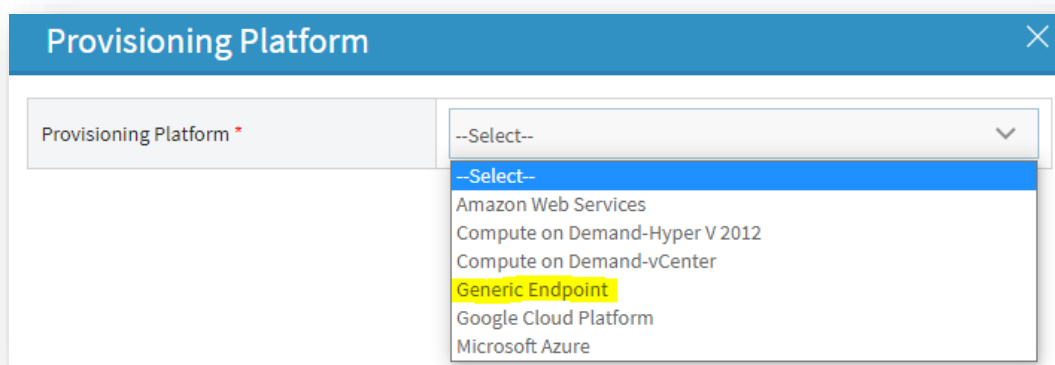


Figure 128 – Provisioning Platform

3.1.2.1.1.2.2.1 Add Configuration

The Add Configuration option allows the provider user to specify an endpoint for the Generic Endpoint. At one endpoint, the provider can define details of multiple cloud endpoints, which could be of any cloud provider.

Figure 129 – Manage Provisioning Platform – Generic Endpoint

1. To add configuration details, click on **Add Configuration** tab.

Figure 130 – Manage Provisioning Platform – Generic Endpoint (Cont.)

2. Refer to the below table to understand the fields mentioned in the above figure.

Table 29 – Managing Provisioning Platform

Fields	Description
Generic Endpoint	User for API integration with MyCloud
Display Name	User for request and manage resources
Tags	Select the name of the organization (Business units/ divisions in organizations)
Description	This field contains the Username of the user
Configuration Type	This field contains the User Id of the user

3. Enter Configuration Name.
4. Enter Tennant ID.
5. Enter Native Client ID.
6. Enter Client Secret Key.
7. Enter Subscription Id.

All the fields marked with an asterisk (*) are mandatory.

8. Click on **Submit**.
9. A Success message appears.

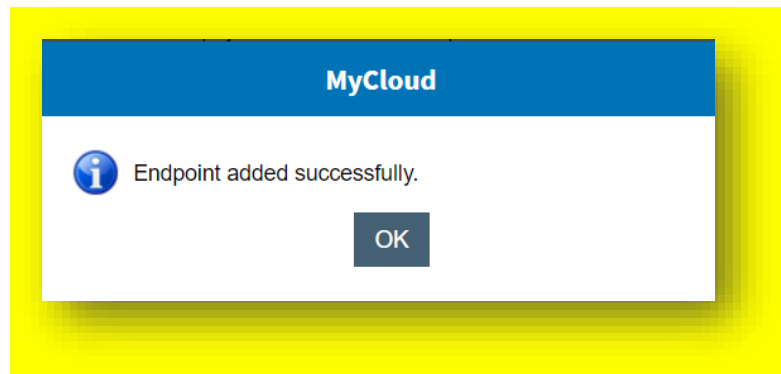








Figure 131 – Success Message

3.1.2.1.1.2.2.2 View Configuration


This section lists all the Generic Endpoints. The following actions can be performed from this screen:

- Edit
- Tag
- Delete

View Configuration		Add Configuration			
Provisioning Endpoint	Object Id	Display Name	Description	Tags	Action
GenericConfiguration	LDZ-89086327-3F46-45EA-8D21-30CD8672780E	Generic Configuration	Generic Configuration Description	Tets	  
qq	LDZ-0D168A74-3CDF-479F-A8D2-B73AC783F372	qq		qq	  

Records 1 - 2 of 2

Figure 132 – Manage Provisioning Platform – View Generic Endpoint

To edit or update any generic endpoint detail, click on the **Edit** icon . The following screen appears:




Manage Provisioning Platform - Generic Endpoint			
View Configuration		Add Configuration	
Generic Endpoint* <input type="text" value="GenericConfiguration"/>	Display Name* <input type="text" value="Generic Configuration"/>	Tags  <input type="text" value="Tets"/>	
Description <input type="text" value="Generic Configuration Description"/>	Configuration Type* <input type="text" value="--Select--"/>	<input type="button" value="Add Configuration"/>	
Azure Configuration 			
Configuration Name* <input type="text" value="AzureConfiguration"/>	Tenant ID* <input type="text" value="XXXXXXXXXX"/>	Native Client ID* <input type="text" value="XXXXXXXXXX"/>	
Change Encrypted Keys <input type="checkbox"/>	Subscription Id* <input type="text" value="XXXXXXXXXXXXXXXXXXXX"/>		
<input type="button" value="Update"/> <input type="button" value="Cancel"/>			

Figure 133 – Manage Provisioning Platform - Generic Endpoint- Edit

1. To update the **Client Secret Key**, select the “**Change Encrypted Keys**” checkbox. The following screen appears where the client secret key is selected/entered.

Figure 134 – Manage Provisioning Platform – Generic Endpoint- Edit (Cont.)

2. Click on the search button  where the pop up appears and select the input type from the drop-down.
3. Click **Submit** to map the value with the **Client Secret Key**.
4. Click **Update** to update the configuration.
5. A Success Message appears:

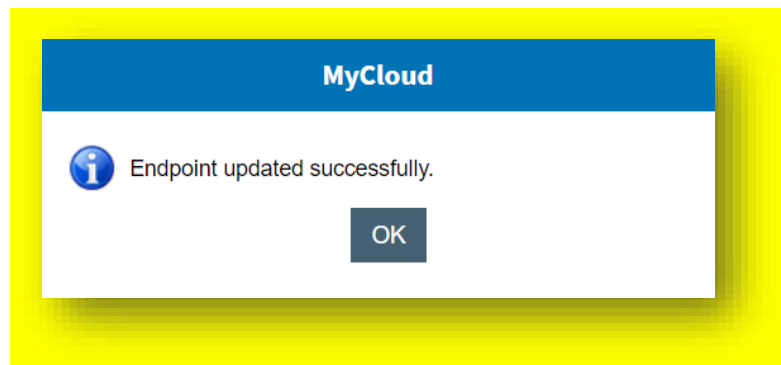


Figure 135 – Success Message


6. To add tag(s) against any configuration just click on  button. The following screen appears:

Figure 136 – Apply Tag(s)

7. Click **Save**. All the entered tags are mapped against the configuration.
- **Allocating Organization:**

Once an endpoint is created, the provider needs to allocate the generic endpoint to the organization for further processing.

- In the Organization menu, click on Allocate Resource to Organization.
- Select Organization.
- Select 'Generic Endpoint' as **Platform**.
- Click on **Go**.
- Click on Allocate New Resource.
- The following Screen appears:

Allocate Resource to Organization

Allocated Resources | Allocate New Resource

Organization *
HclOrganization

Platform *
Cisco Intersight

Provisioning Endpoint
--All--

Resource Type
--All--

Go

Resource Name	Resource Type	Platform	Provisioning Endpoint	Is Master EndPoint	Action
SDIDC	Virtualization - Datacenter	Cisco Intersight	CiscoProvisioningWorking	NO	
SDIDC	Virtualization - Datacenter	Cisco Intersight	Ciscoprovisioning	NO	
svm0	NetApp - StorageVm	Cisco Intersight	Ciscoprovisioning	NO	
svm0	NetApp - StorageVm	Cisco Intersight	CiscoProvisioningWorking	NO	
MGMT	Pure Storage - Host Group	Cisco Intersight	CiscoProvisioningWorking	NO	

Figure 137 – Allocate Resource to Organization

- Now click on any **Cloud Landing Zone** provisioning endpoint under the **Resources** section.

Allocate Resource to Organization

Allocated Resources | Allocate New Resource

Organization *
HclOrganization

Platform *
Cisco Intersight

Provisioning Endpoint *
Ciscoprovisioning

Go

Virtualization - Datacenter

Name	MOID	VCenter	Network Count	Cluster Count	Host Count	DataStore Count	VM Count
SDIDC	63a1a715736c62d35275236	VMware vCenter Server(63a1a715736c62d3527522b)	35	2	7	36	235

NetApp - StorageVm

Name	MOID	Cluster	State	Subtype
svm0	643598ec616c62d3337b450	NETAPP_NOICDHCL(63a1ab0c616c62d33f6c074)	Running	default

Pure Storage - Host Group

Figure 138 – Allocate Resource to Organization (Cont.)

- Click **Save** to save the mapping.
- The following Message box appears.

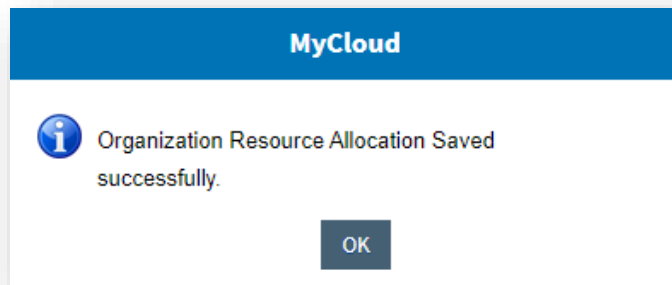


Figure 139 – Success Message

3.1.2.1.1.2.3 Manage Cloud Template

However, Cloud Template creation is not required for Generic Endpoint, but to fit into the existing MyCloud process, the provider user must define a Cloud Template.

By default, MyCloud has a new region called "Global" which is applicable only for Generic Endpoint.

For generic endpoint, the Image Type is always "None".

To Add Cloud Template:

1. In the Workflow Template menu, click on Manage Cloud Template.
2. The Manage Cloud Template appears.

A screenshot of the "Manage Cloud Templates" form in the MyCloud application. The form has a title bar "Manage Cloud Templates" with a "Create Template" button. Below the title bar are several fields: "Platform" (dropdown menu with "Generic Endpoint" selected), "Provisioning Endpoint" (dropdown menu with "GenericConfiguration" selected), "Image Type" (dropdown menu with "None" selected), and "Template Name" (text input field with "Cloud Landing Zone" entered). Below these fields are "Region" (dropdown menu with "Global" selected) and "Description" (text area). At the bottom right of the form is a "Save" button.

Figure 140 – Manage Cloud Template

3. Click on Create Template.
4. Select 'Generic Endpoint' as **Platform**.
5. Select Provisioning Endpoint.
6. Select Image Type.
7. Enter Template Name.
8. Select **Region**.
9. Click **Save** to save the mapping.
10. A Success Message appears:



Figure 141 – Success Message

11. To view the Cloud Template, select **Platform**.
12. Select Provisioning Endpoint.
13. Click **Go**.

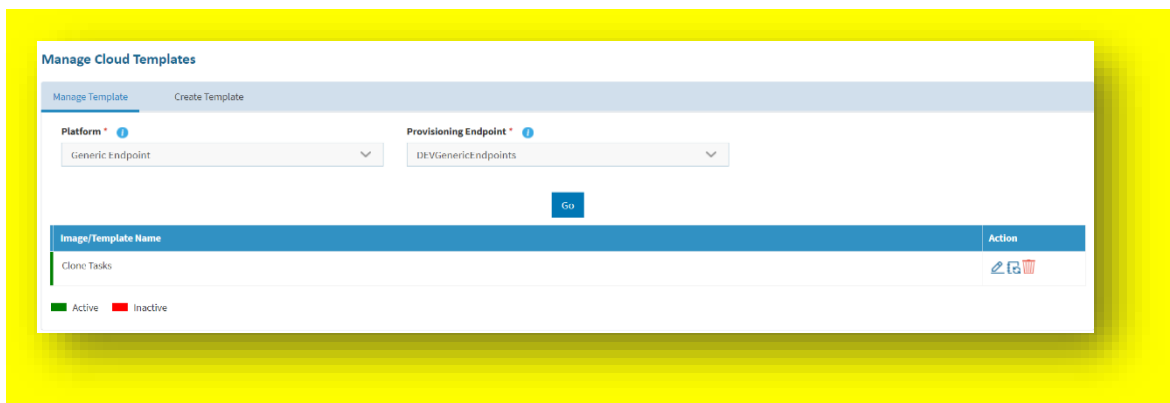


Figure 142 – Manage Cloud Template – View Cloud Templates

3.1.2.1.1.2.4 Manage UI Template

Dynamic UI Creation screen also has a new platform option as "Generic Endpoint". Custom controls are not applicable for Generic Endpoint.

To Create UI Template:

1. In the Workflow Management menu, click on Manage UI Template.
2. The **Manage UI Template** appears. Click Create UI Template.

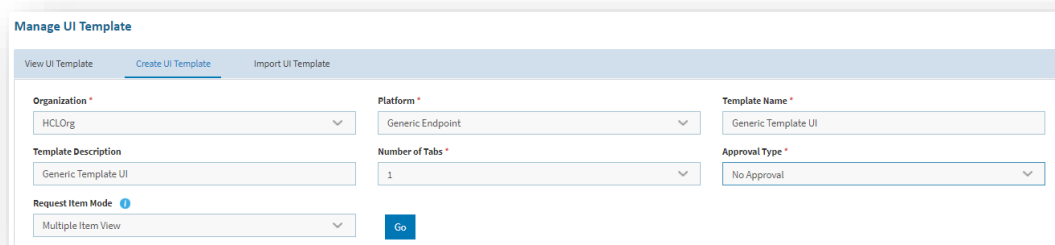


Figure 143 – Manage UI Template

3. Select Organization.
4. Select Platform.
5. Enter Template Name.

6. Enter Template Description.
7. Select Number of Tabs.
8. Select Approval Type.
9. Click **Go**. The following screen appears with the Drag and Drop controls:

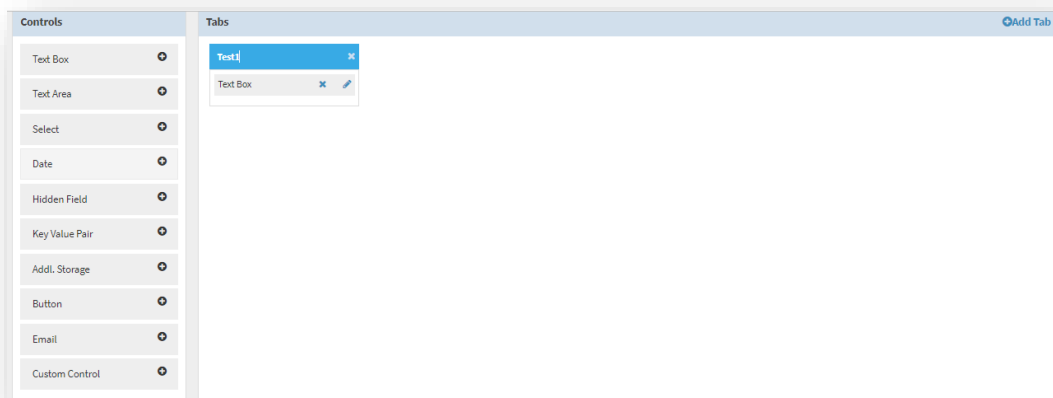


Figure 144 – Manage UI Template (Cont.)

10. Fill control's property.
11. Click **Save**. A Success Message appears:



Figure 145 – Success Message

3.1.2.1.1.2.5 Process Workflow

Process workflow also has a new platform called "Generic Endpoint". This new platform has various tasks to provision Landing Zone. Each task may provision resources to a specific cloud provider. i.e., Task list may have task like VPC creation, Vnet creation etc. VPC creation is specific to AWS whereas Vnet is specific to Azure.

To Create Process Template for Generic Endpoint:

1. In the Workflow Management menu, click on Manage Process Template.
2. The Manage Process Template page appears:

Figure 146 – Manage Process Template

3. Click on **Add Template** tab.
4. Select Organization.
5. Select Platform.
6. Select UI Template.
7. Enter Template Name.
8. Enter Template Description.
9. Click on **Add Template**. This creates a New Process template.

3.1.2.1.1.2.6 Manage Catalog

Manage Catalog screen also has a new platform option called "Generic Endpoint".

To Create Catalog for Generic Endpoint:

1. In the Service Catalog menu, click on Manage Catalog.
2. The **Manage Catalog** page appears:

Figure 147 – Manage Catalog

3. Click on **Create Catalog** tab.

Figure 148 – Manage Catalog

4. Select **Platform**.
5. Select **Provisioning Endpoint**.
6. Select **Template**.
7. Select **Region**.

For Generic Endpoint, The **Region** is always 'Global'.

8. Enter Catalog Name.
9. Enter Catalog Description.
10. Click **Save**. This saves the catalog.
11. A Success Message appears:



Figure 149 – Success Message

3.1.2.1.1.2.7 Publish Service Catalog

The Publish Service Catalog will also have a new platform option as "Generic Endpoint".

To Create Publish Service Catalog:

1. In Service Catalog menu, click on Publish Service Catalog.
2. The Publish Service Catalog page appears.

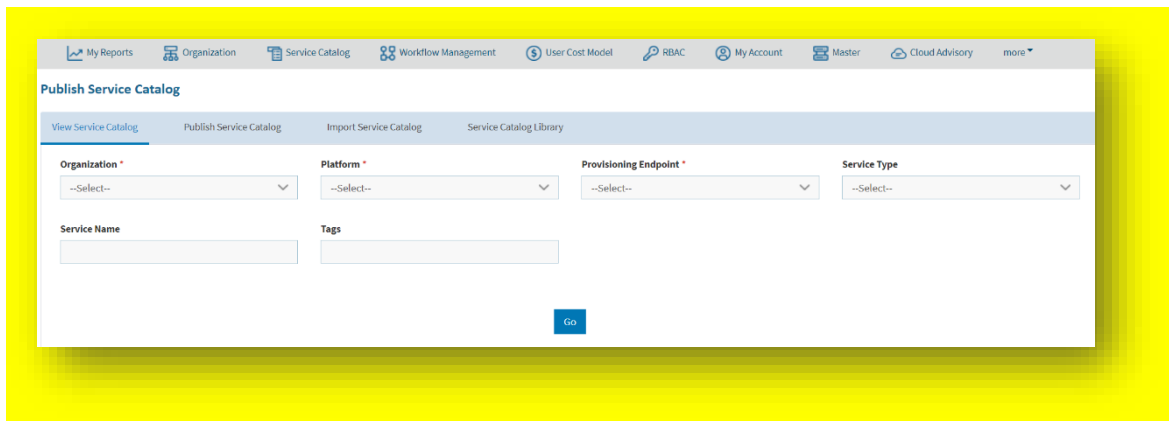


Figure 150 – Publish Service Catalog

3. Select the Publish Service Catalog tab.

Figure 151 – Publish Service Catalog (Cont.)

4. Select Organization.
5. Select Platform.
6. Select Provisioning Endpoint.
7. Select Catalog.
8. Select Service Type.
9. Enter Service Name.
10. Select Object Type.
11. Enter Short Description.
12. Enter Description.
13. Select Process Template Workflow.
14. Select Maximum Number of Instances.
15. Click **Create**. This publishes the catalog and displays a success message.

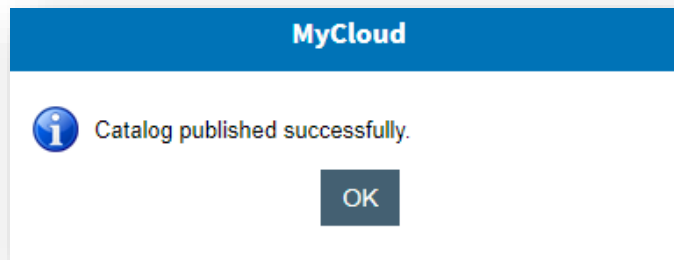


Figure 152 – Success Message

3.1.2.1.1.2.8 Provisioning Generic Endpoint

Requester module has "Generic Endpoint" as new cloud provider. This contains all the service catalog configured for "Generic Endpoint".

To Generate Request:

1. Login as **Requester**.
2. In the Request menu, click on Request Service Catalog.
3. Click on Generic Endpoint.

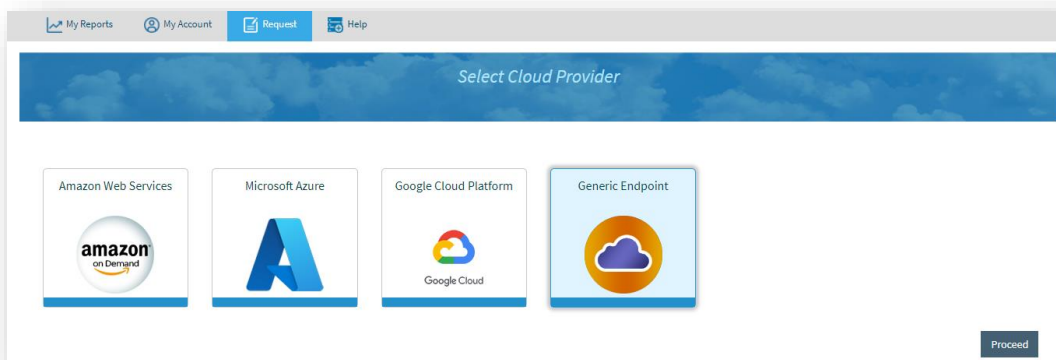


Figure 153 – Request Service Catalog

4. Click on **Proceed**.

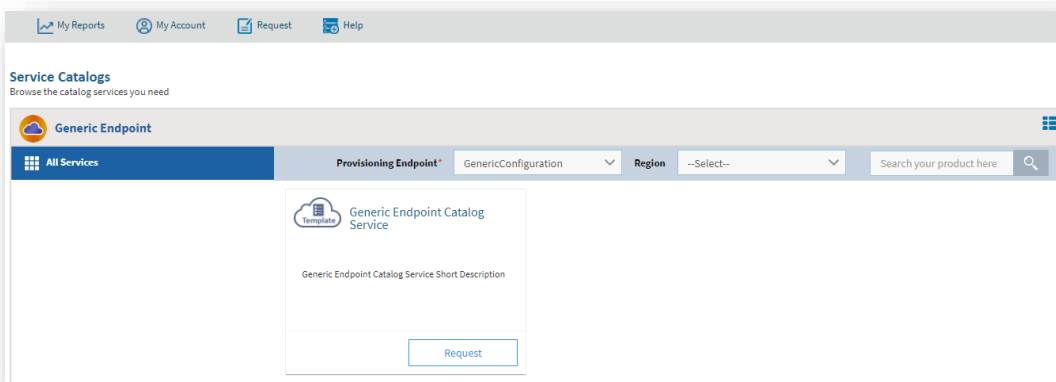


Figure 154 – Service Catalogs

5. Click on **Request**.

Service Catalog Name: Generic Endpoint Catalog Service

Test

Item Details

Test

Test Generic Request

Cancel Submit

Figure 155 – Service Catalog Service

6. Click on Submit.
7. A Confirmation popup appears.

MyCloud

Request Detail

Request Date (mm/dd/yyyy)	04/15/2022	Catalog Name	Generic Endpoint Catalog Service
Region Name	Global	Provisioning Endpoint	GenericConfiguration
Requester Name	req@hcl.com		

Item : 1

Test

Test

Test Generic Request

Confirm

Figure 156 – Request Detail

8. Click on **Confirm**.
9. The following screen appears and displays the new Request.

My Reports My Account Request Help

✓ Your request has been submitted successfully.
Request Number : SRREQ000001

Request Detail

Request No	SRREQ000001	Location Name	NA
Request Date (mm/dd/yyyy)	04/15/2022	Catalog Name	Generic Endpoint Catalog Service
Region Name	Global	Requester Name	req@hcl.com
Platform	Generic Endpoint	Provisioning Endpoint	GenericConfiguration
Request Type	Provisioning Endpoint Provisioning		

Item : 1

Test

Test

Test Generic Request

Approval History

No Record Found

New Request Close

Figure 157 – Request Details

3.1.2.1.1.3 My Account

This section explains the steps required to manage an account for a service requester. A service requester is a consumer of cloud services.

1. On the main menu bar, click **My Account**.
2. The drop-down appears with the following options:
 - **My Objects**
 - My Schedules
 - My Reports

Through this module, the user can schedule action(s) on object(s) in an organization. Pre-requisites of using my schedules:

- Organization should have "action scheduling enabled" in the organization module.
- At least one action should be active for respective object.
- UI associated with action should not have approval associated with it.
- Controls used in UI should be textbox and hidden controls only.

It has the following options:

- View Schedules
- Create Schedules
- Schedule History

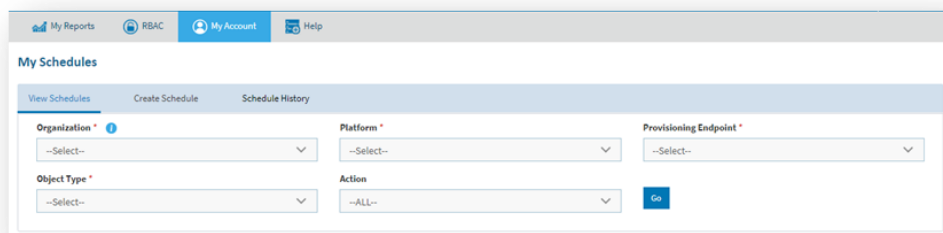
The screenshot shows the 'My Schedules' interface with the 'View Schedules' tab selected. It features a form with several dropdown menus: 'Organization *', 'Platform *', 'Provisioning Endpoint *', 'Object Type *', and 'Action *'. The 'Action' dropdown is currently set to '--ALL--'. A blue 'Go' button is located to the right of the 'Action' dropdown.

Figure 158 - My Schedules

3.1.2.1.1.3.1 Create Schedule

To create a schedule of an action in an organization, login user needs to follow the steps below:

1. Click on my schedules menu option and then click create schedule.

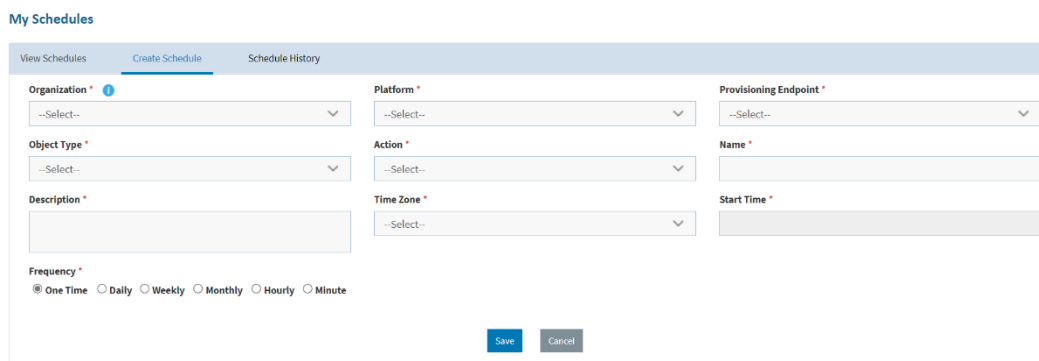
The screenshot shows the 'My Schedules' interface with the 'Create Schedule' tab selected. The form includes dropdowns for 'Organization *', 'Platform *', 'Provisioning Endpoint *', 'Object Type *', 'Action *', 'Time Zone *', 'Name *', and 'Start Time *'. Below these, there is a 'Frequency *' section with radio buttons for 'One Time', 'Daily', 'Weekly', 'Monthly', 'Hourly', and 'Minute'. At the bottom, there are 'Save' and 'Cancel' buttons.

Figure 159 - Create Schedule

2. Refer the below table to understand the fields mentioned in the above figure:

Table 30 – Create Schedule Fields

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Platform	The field lists down the cloud service provider.
Provisioning Endpoint	Displays the name of the environment (cloud endpoint)
Object Type	Name of the infrastructure resource.
Action	Displays the list of Action(s) associated to Object.
Name	This unique name of Schedule Action.
Description	Description of Schedule Action.
Time Zone	This field represents the Time Zone of Start Time.
Start Time	The field represents when to start/schedule the Action.
Frequency	Interval at which the Action can be schedules
Action Parameter(s)	List of Parameters depends on selected Action

3. Select Organization.
4. Select Platform and Provisioning Endpoint.
5. Select Object Type.
6. Select Action.
7. Enter the Name and Description of Schedule.
8. Select Time Zone and Start Time.
9. Select Frequency.
10. Now Map the Parameters of Action. Parameter Data Type supports two types:
 - Static – User can provide the Static value of a control.
 - SQL Function – SQL function can be used to find the dynamic value of a control.
11. Click Save.

My Schedules

View Schedules | **Create Schedule** | Schedule History

Organization * Platform * Provisioning Endpoint *

Object Type * Action * Name *

Description * Time Zone * Start Time *

Frequency * ☒ One Time ☐ Daily ☐ Weekly ☐ Monthly ☐ Hourly ☐ Minute

UI Parameter	Data Type	Parameter Value
Gcp_ObjectID	--Select--	--Select--
btmachineName	--Select--	--Select--
btlzone	--Select--	--Select--

Records 1 - 3 of 3

Figure 160 - Create Schedule (Cont.)

All the fields marked with an asterisk (*) are mandatory.

A success message box appears.

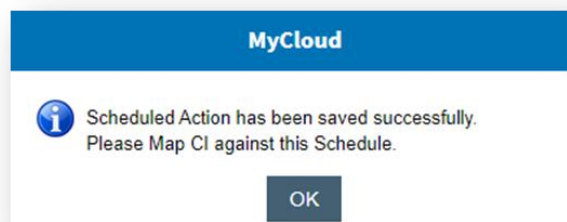


Figure 161 - Create Schedule (Cont.)

12. Now click Ok. A Popup will open containing the relevant Object(s).
13. You can select the appropriate Object(s), on which Action needs to be scheduled.

MyCloud

*NOTE: Change column settings from "MyObjects" to limit the O Columns.

Schedule Name: Action Name:

Search:

Object ID	Object Type	PlatformEntityID	Object Status	Request No	User Name	User Email	User EntityID	User Email	Lease Period	Power Status	No Of vCPU	Memory In MB	OS Disk Size	Data Disk Size 1	Data Disk Size 2	Data Disk Size 3	Data Disk Size 4	Data Disk Size 5	IP Address	Computer Name	R
<input type="checkbox"/> 159378308203747411	VM	GCP-9ED7ABF2-1869-4955-BCF8-AS4838CAB81	IMP	0	HCL Requester	USER-65323E3F-7845-404D-827B-E8857E5BA435	hclrequester@hcl.com	hclrequester@hcl.com	5 Day(s)	RUNNING								1	10.168.0.79	dryicewq49	0

Showing 1 to 1 of 1 entries

Figure 162 - Create Schedule (Cont.)

14. Now click on the Map button.

A success message box appears.

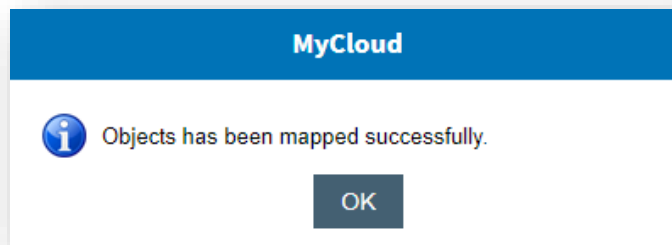


Figure 163 – Create Schedule (Cont.)

The Action Scheduled Successfully.

3.1.2.1.1.3.2 View Schedules

This section lists all the Schedules that have been created by an organization admin.

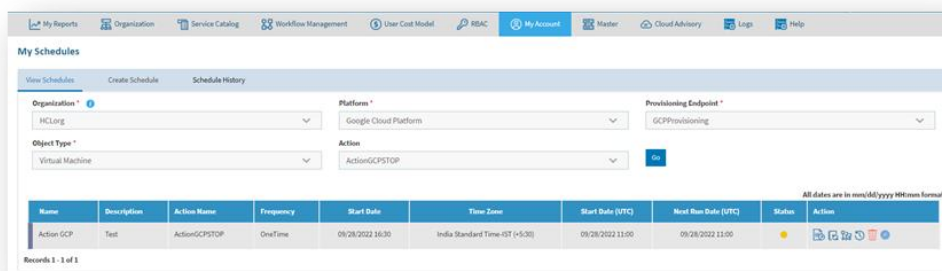


Figure 164 – View Schedules







Refer to the below table to understand the fields mentioned in the above figure.

Table 31 – View Users Field

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Platform	The field lists down the cloud service provider.
Provisioning Endpoint	Displays the name of the environment (cloud endpoint)
Object Type	Name of the infrastructure resource.
Action	Displays the list of Action(s) associated to Object.
Name	This unique name of Schedule Action.
Description	Description of Schedule Action.
Action Name	Name of Action for which Schedule has been created
Frequency	Interval at which the Action can be schedules

Start Date	The field represents when to start/schedule the Action.
Time Zone	This field represents the Time Zone of Start Time.
Start Date (UTC)	The field represents when to start/schedule the Action in UTC time zone
Next Run Date	The field represents next schedule time of the Action
Status	The status of the Schedule
Action	User to take actions like Edit, Change Status, Map Objects, history, Delete against the listed schedules


It also comprises the following actions:

- Edit (): to modify the details of schedule.
- Change status (): to change the status of schedule.
- Map objects (): to map objects to schedule.
- History (): to check the history of schedule.
- Delete (): to delete the schedule.
- Execute now (): to execute the schedule immediately.

3.1.2.1.1.3.3 Schedule History

This section lists all the History of Schedules Actions.

To view the schedule history, follow the below steps:

1. Click on () icon in the grid records on View Schedule tab.
2. On clicking this icon, Schedule History tab will open.

My Schedules

View Schedules Create Schedule **Schedule History**

Schedule Name: StartVM OneTime Action Name: StartVM Frequency: OneTime

Start Date: 02/12/2021 07:47 End Date: 02/12/2021 15:57 Status: --Select--

Go Back

All dates are in MM/dd/yyyy HH:mm format

Schedule Request ID	Status	Schedule Run Date
9742F66E-4B41-4B2B-95F8-A4724511D779	Completed	02/12/2021 15:47

Request No	Object ID	Schedule Run Date	Execution Status
SRREQ000006	6319415243861367066	02/12/2021 15:47	Request Created Successfully

Figure 165 - Schedule History

Refer the below table to understand the fields mentioned in the above figure.

Table 32 - Schedule History Field

Fields	Description
Schedule Name	This unique name of Schedule Action.
Action Name	Name of Action for which Schedule has been created
Frequency	Interval at which the Action can be schedules
Start Date	Start Time, to filter the history of Schedules from this time
End Date	End Time, to filter the history of Schedules till this time
Status	InProgress, Completed, Failed filter status
Schedule Request Id	Unique GUID for the schedule instance.
Status	Status if the scheduled instance
Schedule Run Date	Run date of the scheduled instance
Request No	Request Tracking Request Number created by Schedule Request Id.
Object Id	Object Id, Unique Id of the object on which Action is performed.
Schedule Run Date	Run date of the scheduled instance
Execution Status	Status of the Request Execution

3.1.2.1.1.4 My Schedule

Through this module, the user can schedule Action(s) on object(s) in an organization. Pre-requisites of using My Schedules:

- Organization should have "Action Scheduling Enabled" in the Organization Module.
- At least one Action should be active for respective object.
- UI associated with Action should not have Approval associated with it.
- Controls used in UI should be Textbox and Hidden Controls Only.

It has the following options:

- **View Schedules**
- **Create Schedules**
- **Schedule History**

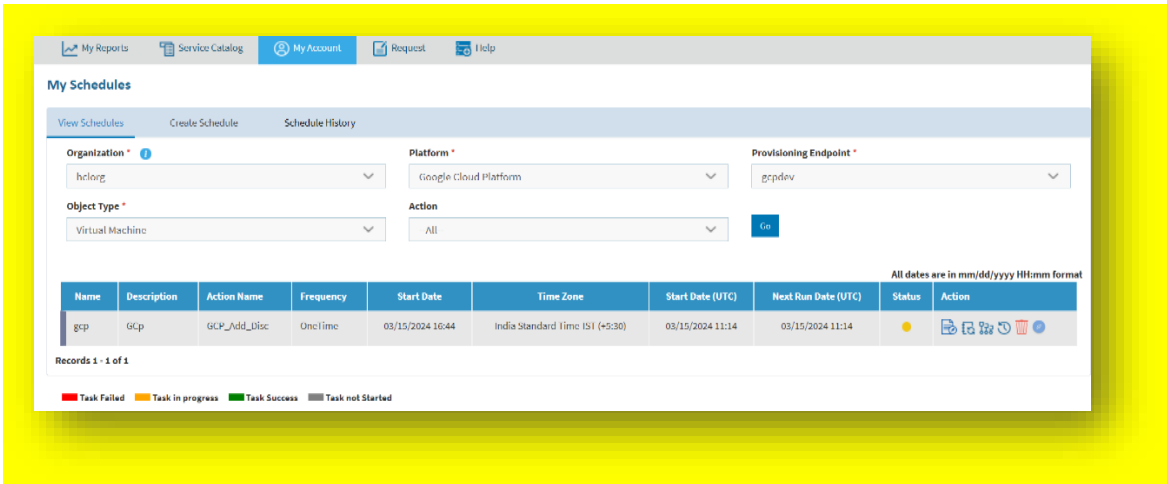


Figure 166 – My Schedules

3.1.2.1.1.4.1 Create Schedules

To create a schedule of an Action in an organization, login user needs to follow the steps below:

1. Click on **My Schedules** menu option and then click **Create Schedule**.

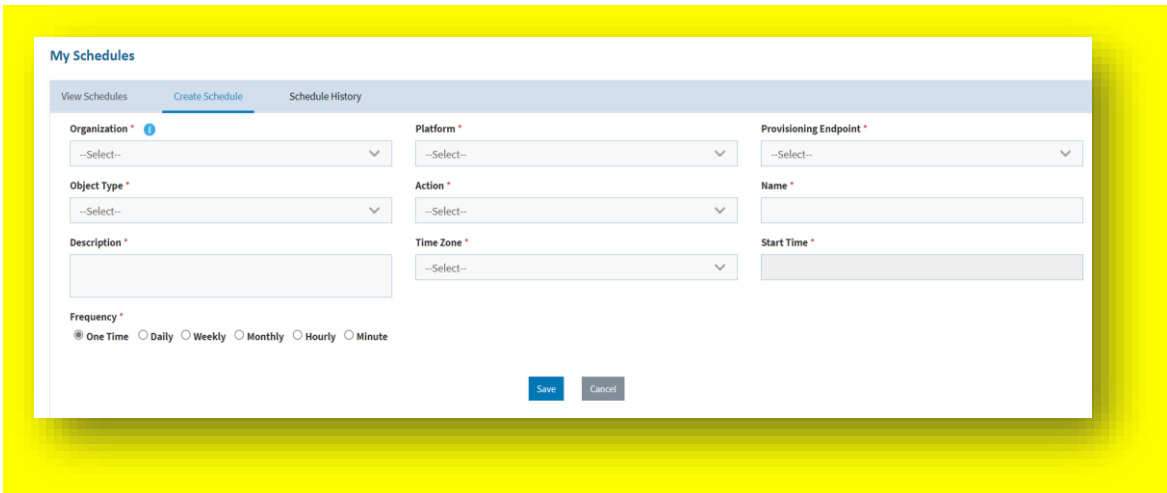


Figure 167 – Create Schedule

2. Refer to the below table to understand the fields mentioned in the above figure.

Table 33 – Create Schedule Fields

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Platform	The field lists down the cloud service provider.
Provisioning Endpoint	Displays the name of the environment (cloud endpoint)
Object Type	Name of the infrastructure resource.
Action	Displays the list of Action(s) associated to Object.
Name	This unique name of Schedule Action.
Description	Description of Schedule Action.
Time Zone	This field represents the Time Zone of Start Time.
Start Time	The field represents when to start/schedule the Action.
Frequency	Interval at which the Action can be schedules
Action Parameter(s)	List of Parameters depends on selected Action

3. Select Organization.
4. Select Platform and Provisioning Endpoint.
5. Select Object Type.
6. Select **Action**.
7. Enter the Name and Description of Schedule.
8. Select Time Zone and Start Time.
9. Select **Frequency**.
10. Now map the Parameters of Action. Parameter Data Type supports two types:
 - Static – User can provide the Static value of a control.
 - SQL Function – SQL function can be used to find the dynamic value of a control.
11. Click **Save**.

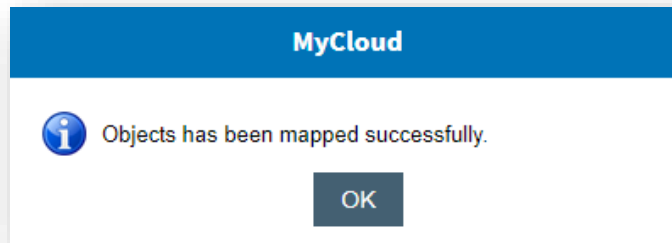


Figure 171 – Create Schedule (Cont.)

The action scheduled successfully.

3.1.2.1.1.4.2 View Schedules

This section lists all the Schedules that have been created by an organization admin.

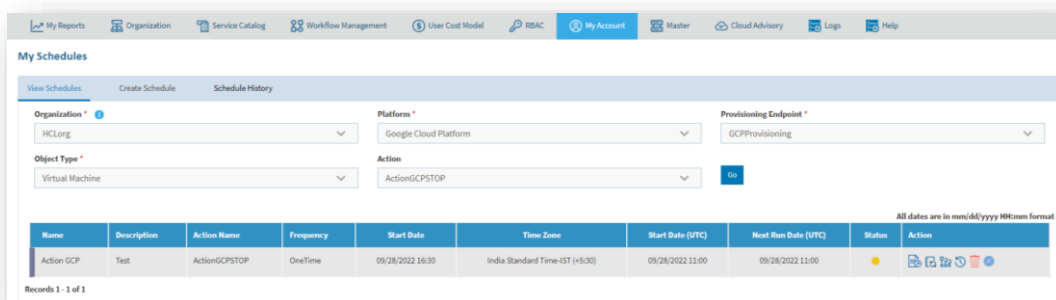



Figure 172 – View Schedules

Refer to the below table to understand the fields mentioned in the above figure.

Table 34 – View Users Field

Fields	Description
Organization	Select the name of the organization (Business units/ divisions in organizations)
Platform	The field lists down the cloud service provider.
Provisioning Endpoint	Displays the name of the environment (cloud endpoint)
Object Type	Name of the infrastructure resource.
Action	Displays the list of Action(s) associated to Object.
Name	This unique name of Schedule Action.
Description	Description of Schedule Action.
Action Name	Name of Action for which Schedule has been created
Frequency	Interval at which the Action can be schedules
Start Date	The field represents when to start/schedule the Action.
Time Zone	This field represents the Time Zone of Start Time.
Start Date (UTC)	The field represents when to start/schedule the Action in UTC time zone
Next Run Date	The field represents next schedule time of the Action
Status	The status of the Schedule
Action	User to take actions like Edit, Change Status, Map Objects, history, Delete against the listed schedules


It also comprises the following actions:

- Edit (

3.1.2.1.1.4.3 Schedule History

This section lists all the History of Schedules Actions.

To view the schedule history, follow the below steps:

1. Click on () icon in the grid records on View Schedule tab.
2. On clicking this icon, Schedule History tab will open.

My Schedules

View Schedules Create Schedule **Schedule History**

Schedule Name: Start VM OneTime Action Name: StartVM Frequency: OneTime

Start Date: 02/12/2021 07:47 End Date: 02/12/2021 15:57 Status: --Select--

[Go](#) [Back](#)

All dates are in MM/dd/yyyy HH:mm format

Schedule Request ID	Status	Schedule Run Date
9742F66E-4841-4B2B-95F8-A4724511D779	Completed	02/12/2021 15:47

Request No	Object ID	Schedule Run Date	Execution Status
SRREQ000006	6319415243861367066	02/12/2021 15:47	Request Created Successfully

Figure 173 – Schedule History

Refer the below table to understand the fields mentioned in the above figure.

Table 35 – Schedule History Field

Fields	Description
Schedule Name	This unique name of Schedule Action.
Action Name	Name of Action for which Schedule has been created
Frequency	Interval at which the Action can be schedules
Start Date	Start Time, to filter the history of Schedules from this time
End Date	End Time, to filter the history of Schedules till this time
Status	InProgress, Completed, Failed filter status
Schedule Request Id	Unique GUID for the schedule instance.
Status	Status if the scheduled instance
Schedule Run Date	Run date of the scheduled instance
Request No	Request Tracking Request Number created by Schedule Request Id.
Object Id	Object Id, Unique Id of the object on which Action is performed.
Schedule Run Date	Run date of the scheduled instance
Execution Status	Status of the Request Execution

3.1.2.1.1.5 My Object

To create and manage objects within object type on a platform, Requester needs to follow the below steps:

1. Select **Platform** from the list of cloud service providers.
2. Select the **Object Type** from the list of infrastructure resource.

3. Click **Go**.

My Objects

Filters

Platform * --Select--

Object Type * --Select--

Owner Type --All--

Additional Filter

NOTE: Enter comma(,) separated values in case of filter Operator 'IN'.

Filter Type --Select--

Filter Operators --Select--

Filter Value

Go

Figure 174 - My Objects

It lists down the available Object Types in a tabular view which enables the requester to perform various actions as listed below on the object types.

- About My Objects
- Bulk Delegation
- Remove Delegation
- Grid Column Arrangement
- Actions
- Object and Health Details
- Object Order Details

My Objects

Filters

Platform * Google Cloud Platform

Object Type * Virtual Machine

Owner Type --All--

Additional Filter

Go

All dates are in mm/dd/yyyy HH:mm:ss format

Object Details	Object ID	Request No	Provisioning Date	Decommission Date	Object Type	Lease Period	Power Status	No Of vCPU	Computer Name	Display Name	MachineStatus	Action
<input type="checkbox"/>	1593783089203747411	Imported	08/10/2022	08/15/2022	VM	5 Day(s)	●		dryicewqa69	dryicewqa69	4	Action

Active Objects Lease Expired In Grace Period

Figure 175 - My Objects (Cont.)

3.1.2.1.1.5.1 About My Objects

This section will provide the details of fields on My Objects Page.

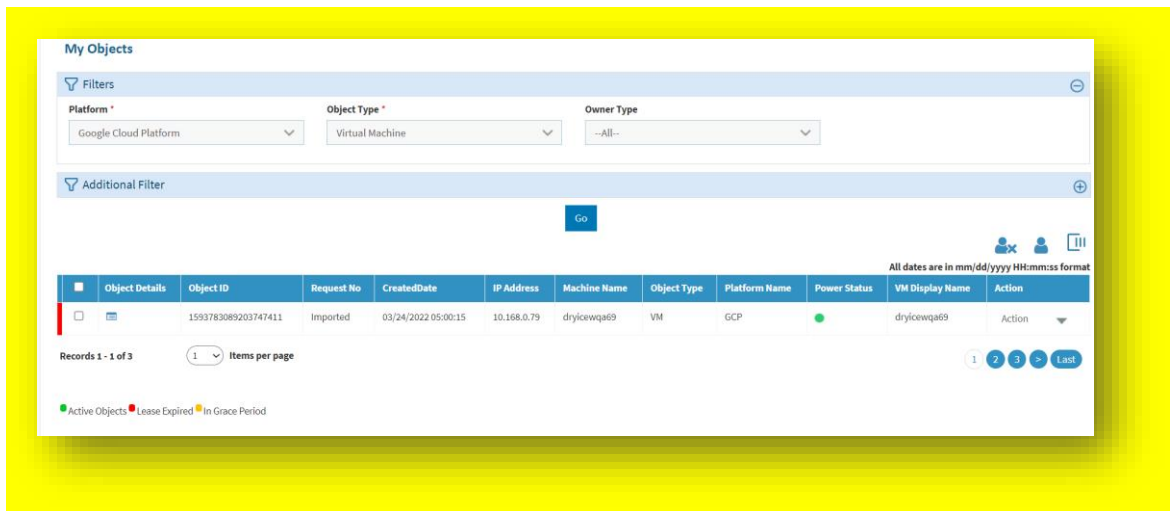


Figure 176 - My Objects (Cont.)

Refer to the below table to understand the fields mentioned in the above figure.

Table 36 - My Objects

Fields	Description
Platform	The name of Cloud service providers
Object Types	Infrastructure resource
Owner Type	Resource owner includes Delegate or Self
<input type="checkbox"/>	Checkbox to select a specific or multiple Object Type(s).
	Object and Health Details.
	Remove Delegation
	Delegate object(s) to another user.
	Grid Column Settings
Action	List of all the actions available on specific object.

(Object and Health Details) – This column will only be shown for Object Type is Virtual Machine

3.1.2.1.1.5.2 Bulk Delegation

To transfer/ delegate the object(s) to another user, follow the steps below:

1. Select the Objects by clicking on the checkbox ☐ corresponding to the objects that need to be transferred to another user.
2. Click on **Add Delegate** user button on pane.
3. A pop up appears.

Add Delegate User/RBAC Group(s)

User/RBAC Group *

Figure 177 – My Objects – Add Delegate User

4. Enter the **User/RBAC Group** name in the text box and click on (+). Click **Save**.
5. A Success Message appears:

MyCloud

Delegation details updated successfully.

Figure 178 – My Objects – Add Delegate User

3.1.2.1.1.5.3 Remove Delegation

To remove the object(s) delegates/transferred to another user, follow the steps below:

1. Click on **Remove Delegation** button (👤✕) on pane.
2. A pop up appears. Enter the **User/RBAC Group** name in the text box and click on the **GO** button.
3. A grid populates with all the delegated objects to this user.

Remove Delegation

User/RBAC Group *

Requester (Requester)-RBAC Group

	Object Id	Object Type	Display Name	Owner	Platform
<input type="checkbox"/>	8362246683650032864	VM	ubuntuui002	requester@hcl.com	gcpDev

Figure 179 – My Objects – Remove Delegation

4. Select the object by clicking on the checkbox.
5. Click **Remove**.

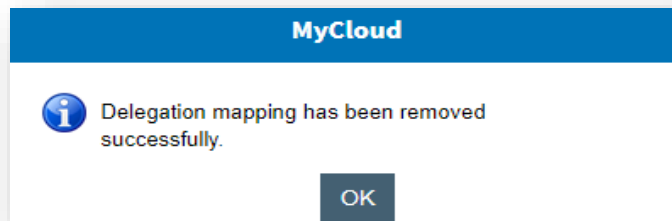



Figure 180 – My Objects – Remove Delegation

3.1.2.1.1.5.4 Grid Column Arrangement

To arrange (show/hide) the columns related to selected object type. Then following the steps below:

1. Click on **Column Settings** button  on the pane.
2. A screen will appear where requester can configure the columns which will be visible/hidden on **My objects** page. This popup contains 2 sections:
 - Available Columns – List of columns which are not shown on the screens.
 - Selected Columns – Already selected columns.
3. User can move the column from **Available** to **Selected** column section which needs to be visible on the page. And vice versa i.e., **Selected** to **Available** to hide the columns.
4. To update the settings, click **Save**.

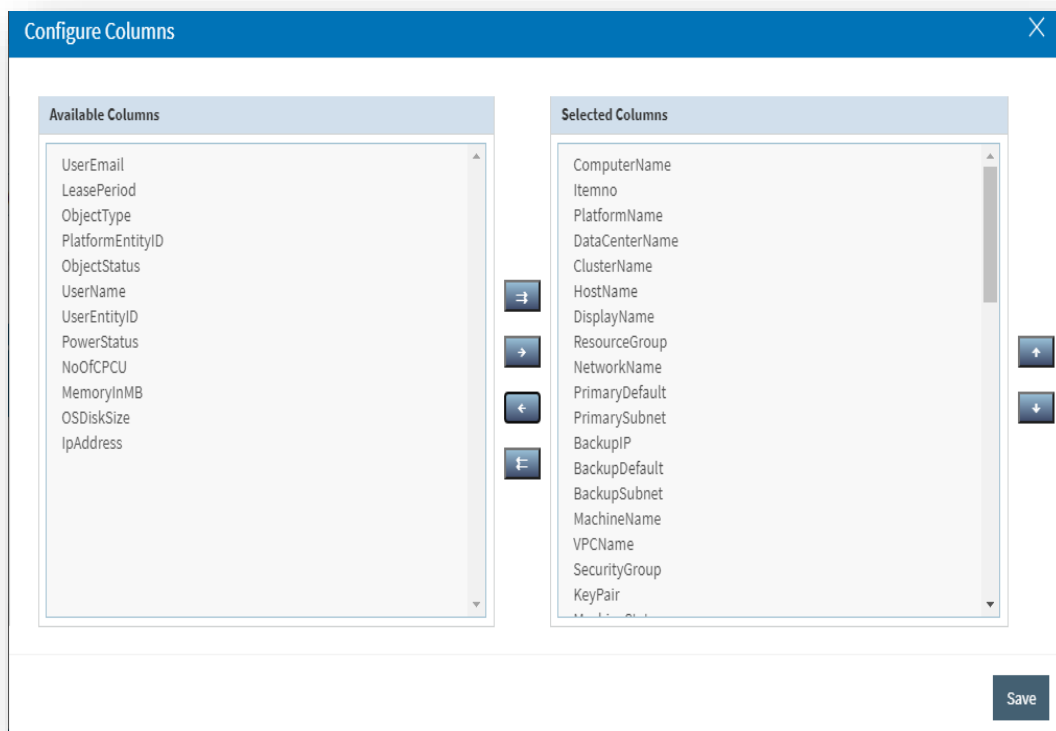


Figure 181 – My Objects – Grid Column Arrangement

3.1.2.1.1.5.5 Actions

This section provides the details on how to access the actions available for the respective object.

1. Scroll to the last column in the grid ("Action").

2. Hover the mouse over the **Action** link.
3. The drop-down appears with the following options:

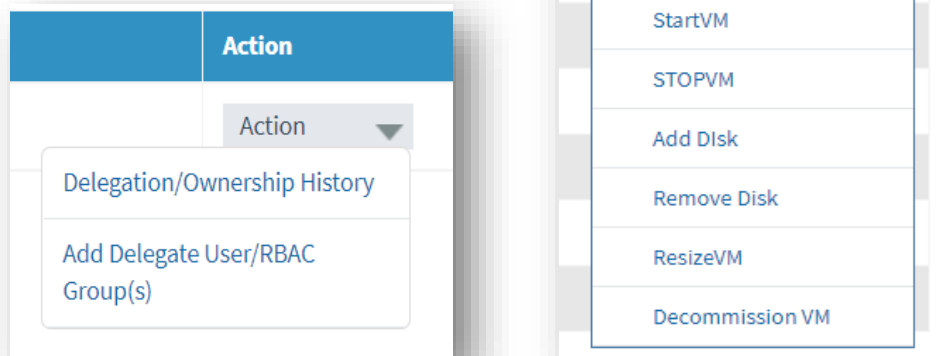


Figure 182 - My Objects - Actions

Refer to the below table to understand the Approval History mentioned in the above figure.

Table 37 - My Objects - Actions

Fields	Description
Delegation/Ownership History	Requests to get delegation and ownership history details
Add Delegate User/RBAC Group(s)	Add Delegate User/RBAC Group(s)
Start VM	Requests to start a VM
Stop VM	Requests to stop a VM
Add disk	Requests to add disk
Remove disk	Requests to remove disk
Resize VM	Requests to resize VM
Decommission VM	Requests to decommission/ stop using the resource

4. Click on the action "**StartVM**". This opens the Start VM Request form.

MyCloud

General Information

Item Details

MachineName: mac-1741-1

Action: Start a Server

Submit

Figure 183 – My Objects – Actions

The form and UI fields may vary as per configuration done by provider admin.

5. Fill in all required fields and Click **Submit**.

MyCloud

Request No: 446 submitted successfully.

OK

Figure 184 – My Objects – Actions

For more Actions and Actions related to other Object Type, kindly contact the Provider admin user, or refer the DRYiCE MyCloud Configuration Guide – Provider Module

6. Click on the action "**Delegation/Ownership History**". The below form opens.

MyCloud (Object Id: i-0599b04bbd20dc0d0)

Delegation History Ownership History

Status: --All-- Go

All dates are in mm/dd/yyyy HH:mm:ss format

Delegated User/RBAC Group	Delegation type	From Date	To Date
Requester	RBAC Group	2022-06-07T16:38:19.293	
testuser@test.com(testuser@test.com)	USER	2022-06-07T10:12:06.653	
IT Admin	RBAC Group	2022-06-07T10:12:06.653	
IT Admin	RBAC Group	2022-06-06T14:22:16.997	2022-06-06T16:09:14.14
testuser@test.com(testuser@test.com)	USER	2022-06-06T14:22:16.997	2022-06-06T16:09:14.14

Records 1 - 5 of 59

First < 1 2 3 4 5 ... 12 > Last

Close

Figure 185 – My Objects – Actions (Delegation/Ownership History)

Using this form, the requester user can see the Delegation History and Ownership history with respect to Object id. Delegation history can be filtered by Status filter (i.e., Active/Inactive).

- Click on the action **"Add Delegate User/RBAC Group(s)"**. The below form opens:

Delegated User/RBAC Group	Delegation type	Action
Business	RBAC Group	
Gupta, Swati (guptasw@hcl.com)	USER	
IT Admin	RBAC Group	
orgadminuser (orgadmin1@hcl.com)	USER	
Organization Admin	RBAC Group	


Figure 186 – My Objects – Actions (Add Delegate User/RBAC Group(s))

Using this form, the requester user can add the User or RBAC group with respect to a particular object.

3.1.2.1.1.5.6 Object and Health Details


This section will provide details about Object and Health. To view the Object and Health Details follow the steps below:

The view Object and Health Details is only applicable when Object Type is "VM".

- Click **Object Details** () on the navigation column of the grid.

Object ID	Request No.	ComputerName	Action
1593783089203747411	Imported	dryicewqa69	Action ▼
6319415243861367066	Imported	mclid-test-1202-001	Action ▼

Figure 187 – My Objects – Object and Health Details

- The **Cloud Control** pop-up appears with the following types of object details:
 - The **Basic Details** tab includes the Object ID, Request No., Object Type, and Power Status.
 - The **Health** tab includes the Machine Utilizations Graph information.
 - Click **Close** () to close the pop-up window.

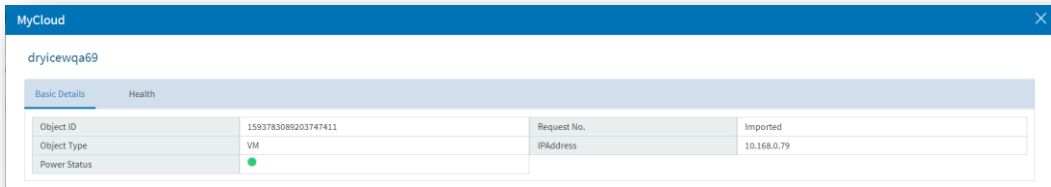


Figure 188 - My Object - Object and Health Details (Cont.)

By default, the **Basic Details** tab appears.

If the **Health** tab is not visible, kindly contact the Provider admin user to configure the performance job.

3. Click on **Object ID** that generates the summary of object type.
4. Click Close (X) to close the pop-up window.

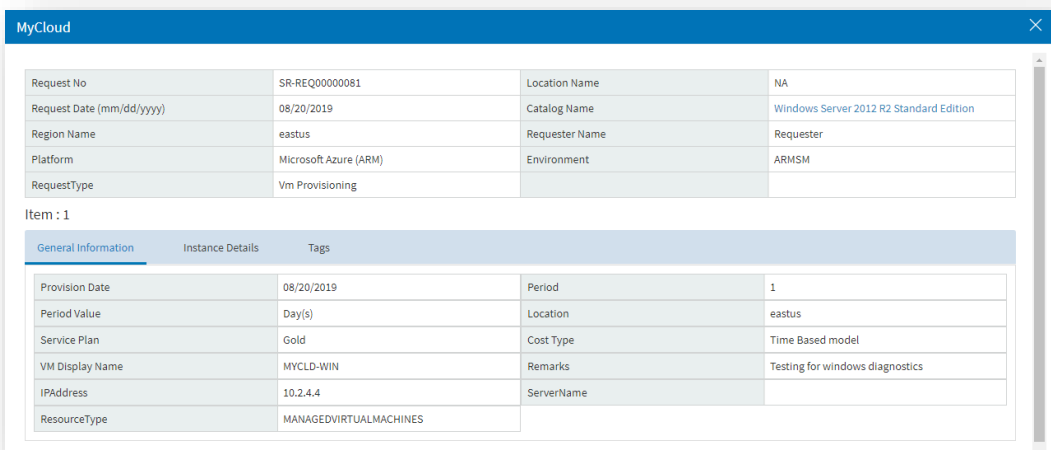


Figure 189 - My Objects - Object and Health Details (Cont.)

3.1.2.1.1.5.7 Object Order Details

This section will provide details about the Object Oder Details. To view the Object Order Details, follow the steps below:

The Object Order Details is only applicable for the resource for which request has been given using MyCloud Portal. Imported Resource are not applicable.

1. Click **Object ID (MCLD-1674-1)** in the **Object ID** column of the grid.

Object Details	Object ID	Request No	CreatedDate	Tags	MachineStatus	ObjectType	PlatformEntityID	ObjectID
<input type="checkbox"/>	MCLD-1674-1	SRREQ001674-1	08/02/2021 11:13:44		4	VM	VMWAR-D26651DE-A9D4-4631-BAFF-26DFD4AD5028	NEW
<input type="checkbox"/>	svcas0134	Imported	04/22/2021 10:30:14	[{"Application":"Zenoss"}, {"BusinessGroup":"ServiceAssurance"}, {"VMJustification":"Development:RequestedbyNikhilKumarSharma-nikhilsh@hcl.com\nSpareSystemforAdhocModuleslikeAdditionalWebServer,PatchManager\nSpareSystemforAdhocModuleslikeDPA Linux"}, {"VMOwner":"LokeshRawat"}, {"VMOwner":"nikhilsh@dryicelabs.com"}, {"vrmManagedMachine":"True"}]		VM	VMWAR-D26651DE-A9D4-4631-BAFF-26DFD4AD5028	IMP

Figure 190 – My Objects – Object Order Details

- The Cloud Control pop-up appears with the summary of object and Approval history.
- Click **Close** (X) to close the pop-up window.

MyCloud

Request No	SRREQ001674	Location Name	Location1
Request Date (mm/dd/yyyy)	08/02/2021	Catalog Name	vCenter Test support SCSI for Additional Disk
Region Name	Region1	Requester Name	hclrequester
Platform	Compute on Demand-vCenter	Provisioning Endpoint	VMWAREprovisioning
Request Type	Virtual Machine Provisioning	Request for (Email)	

Item : 1

General Information	Compute	Additional Information	Tags	TestingOnly	Disk	Network
Period	2	Cost Type	Allocation based model			
Service Plan	Service Plan1	Provision Date	08/02/2021			
Period Value	Day(s)	Decommission Date	08/03/2021			
Region	Region1	Location	Location1			
VM Display Name	vcenbx	Remarks				
Size	Small (vCPU : 1, Memory : 2 GB)	Cluster	secondary-compute			
Os Disk Storage	SharedDatastore04					

Approval History

Figure 191 – My Objects – Object Order Details (Cont.)

3.1.2.1.1.5.8 Object Actions

This section provides the details of Virtual Machine Actions.

3.1.2.1.1.5.8.1 Start VM

To start a VM, requester needs to follow the below steps:

- Enter **Server Name** against which user needs to perform the action.
- Enter **Resource Group Name**, against which user needs to perform the action.
- Click **Submit** to start a VM.
- Click **Generate API JSON** to get JSON file.

Figure 192 – Start VM

3.1.2.1.1.5.8.2 Stop a VM

To stop a VM, requester needs to follow the below steps:

1. Enter **Server Name**, the name of server to be displayed.
2. Enter **Resource Group Name**, group name of resource against which user needs to perform the action.
3. Click **Submit** to stop a VM.
4. Click **Generate API JSON** to get JSON file.

Figure 193 – Stop VM

3.1.2.1.1.5.8.3 Add Disk

To add disk, a requester needs to follow the below steps:

1. Enter **Server Name**, the name of server to be displayed.
2. Enter **Resource Group Name**, group name of resource against which user needs to perform action.
3. Select **Storage Account Type** from the list.
4. Enter Disk requirement (in GB) under Add Disk.

5. Click **Submit** to add disk.
6. Click **Generate API JSON** to get JSON file.

Figure 194 – Add Disk

3.1.2.1.1.5.8.4 Remove Disk

To remove disk, a requester needs to follow the below steps:

1. Enter **Server Name**.
2. Enter **Resource Group Name**.
3. Select **Disks**.
4. Click **Submit** to remove disk.
5. Click **Generate API JSON** to get JSON file.

Figure 195 – Remove Disk

3.1.2.1.1.5.8.5 Resize VM

To resize a VM, requester needs to follow the below steps:

1. Enter **Server Name**, the name of server to be displayed.
2. Enter **Resource Group Name**, the group name of resource against which user needs to perform action.

3. Select **New Instance Size**, size of the required instance.
4. Click **Submit** to resize VM.
5. Click **Generate API JSON** to get JSON file.

Figure 196 – Resize VM

3.1.2.1.1.5.8.6 Decommission VM

To decommission a VM, requester needs to follow the below steps:

1. Enter **Server Name**, the name of server to be displayed.
2. Enter **Resource Group Name**, the group name of resource against which user needs to perform action.
3. Click **Submit** to decommission VM.
4. Click **Generate API JSON** to get JSON file.

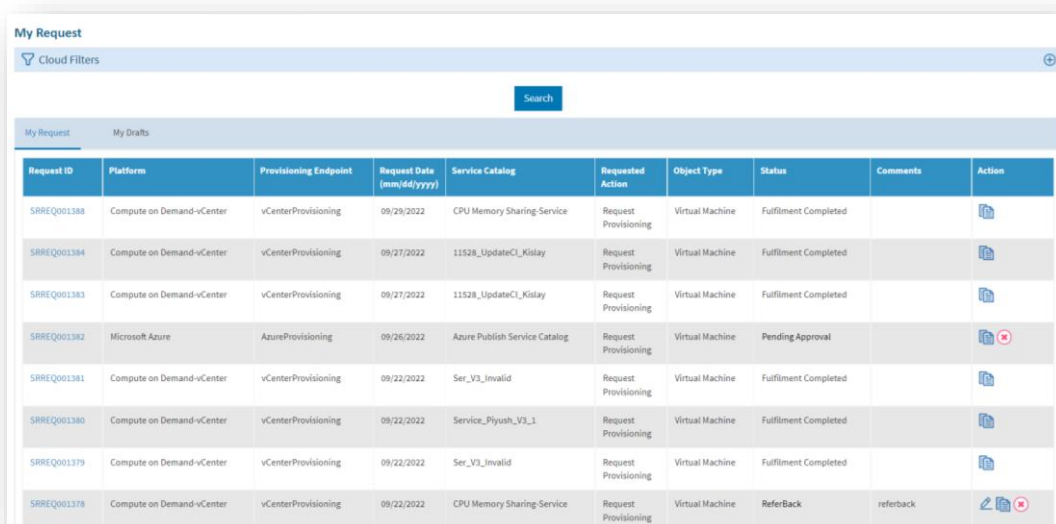
Figure 197 – My Object (Cont.)

3.1.2.1.1.6 My Request

This section explains the steps to view and manage service requests. It allows the user to Edit/Cancel request if it is not yet approved/rejected.

1. On the main menu bar, click **My Account**, and then click **My Request**.
2. Upon clicking, following options appear:
 - My Request
 - My Drafts

3.1.2.1.1.6.1 Managing My Request



Request ID	Platform	Provisioning Endpoint	Request Date (mm/dd/yyyy)	Service Catalog	Requested Action	Object Type	Status	Comments	Action
SRREQ001388	Compute on Demand-vCenter	vCenterProvisioning	09/29/2022	CPU Memory Sharing-Service	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001384	Compute on Demand-vCenter	vCenterProvisioning	09/27/2022	11528_UpdateCl_Kislay	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001383	Compute on Demand-vCenter	vCenterProvisioning	09/27/2022	11528_UpdateCl_Kislay	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001382	Microsoft Azure	AzureProvisioning	09/26/2022	Azure Publish Service Catalog	Request Provisioning	Virtual Machine	Pending Approval		
SRREQ001381	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	Ser_V3_Invalid	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001380	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	Service_Piyush_V3_1	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001379	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	Ser_V3_Invalid	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001378	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	CPU Memory Sharing-Service	Request Provisioning	Virtual Machine	ReferBack	referback	

Figure 198 – Managing My Request

Refer to the below table to understand the fields mentioned in the above figure.

Table 38 – Managing My Request

Fields	Description
Request ID	Displays the ID-number of the request created
Platform	The name of Cloud service providers
Provisioning Endpoint	Displays the name of environment (cloud endpoint)
Request Date	Displays the date of the request created
Service Catalog	The interface for IT service consumers that is used to request or manage the services
Requested Action	The type of request against an infrastructure resource
Object Type	Name of the object against which the request was raised
Status	Displays the current status of the request
Comments	Displays the comments/inputs shared by the approver
Action	It allows the user to take actions like Edit, Cancel the request and Clone Request

Submitted request can be edited only if it is **Referred back** by the Approver.

To place a new request, like existing request, requester needs to follow the below steps:

Request ID	Platform	Provisioning Endpoint	Request Date (mm/dd/yyyy)	Service Catalog	Requested Action	Object Type	Status	Comments	Action
SRREQ001388	Compute on Demand-vCenter	vCenterProvisioning	09/29/2022	CPU Memory Sharing-Service	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001384	Compute on Demand-vCenter	vCenterProvisioning	09/27/2022	11528_UpdateCl_Kislay	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001383	Compute on Demand-vCenter	vCenterProvisioning	09/27/2022	11528_UpdateCl_Kislay	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001382	Microsoft Azure	AzureProvisioning	09/26/2022	Azure Publish Service Catalog	Request Provisioning	Virtual Machine	Pending Approval		
SRREQ001381	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	Ser_V3_Invalid	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001380	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	Service_Plyush_V3_1	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001379	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	Ser_V3_Invalid	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ001378	Compute on Demand-vCenter	vCenterProvisioning	09/22/2022	CPU Memory Sharing-Service	Request Provisioning	Virtual Machine	ReferBack	referback	

Figure 199 – Clone Request

1. Click **Clone Request** icon ().

Service Catalog Name: CPU Memory Sharing-Service

General Information | Compute | Additional Information | Tags | TestingOnly

Item Details

Provision Date * 09/22/2022

Decommision Date 09/23/2022

Service Plan * Service Plan1

Remarks test remarks

TestNumber test1

Period * 2

Region vCenterRegion

Cost Type * Allocation based model

Size * VerySmall (vCPU : 1, Memory : 1 GB)

PBI No. / Name * 3123213

Period Value * Days(s)

Location vCenter Location

VM Display Name * testvm

CLUSTERTEST Secondary-ComputE

View Cost | Cancel | **Save Draft** | Review and Confirm | Generate API Json

Figure 200 – Clone Request (Cont.)

2. Popup will open with filled in details of existing request, User can change any details as desired and click **Save Draft**.
3. Click **Cancel** to discard all changes.
4. To submit the request, click **Submit**.

MyCloud

Request Date (mm/dd/yyyy)	05/26/2021	Catalog Name	NA
Region Name		Requester Name	hclrequester
Platform	Microsoft Azure (ARM)	Provisioning Endpoint	ARMprovisioning
Request Type	ResizeNodePool		


Item : 1

General Info

Cluster Name	test26may2	Node Name	default
Disk Size (GB)	200	Count	1
Vm Size	t2.micro	Os Type	Linux
Mode	System	Max Pods	110
AvailabilityZone	2		

Figure 201 – Clone Request (Cont.)

5. A success message appears.


Your request has been submitted successfully.
Request Number : SRREQ000072

Request Detail

Request No	SRREQ000072	Location Name	NA
Request Date (mm/dd/yyyy)	05/26/2021	Catalog Name	NA
Region Name		Requester Name	hclrequester
Platform	Microsoft Azure (ARM)	Provisioning Endpoint	ARMprovisioning
Request Type	ResizeNodePool		

Item : 1

General Info

Cluster Name	democluster	Node Name	default
Disk Size (GB)	200	Count	1
Vm Size	t2.micro	Os Type	Linux
Mode	System	Max Pods	110
AvailabilityZone	2		

Figure 202 – Clone Request (Cont.)

The new request is saved and appears in a tabular view as shown in [Figure 198 – Managing My Request](#).

If Clone Request Button is not visible for Service Catalog/Action(s) then either Clone Request Enabled option is not checked for the Organization or Service Catalog has been disabled or deleted.

3.1.2.1.1.6.2 Managing My Drafts

To save the service request without submitting them, Requester needs to follow the below steps:

1. On the **My Request** screen, click **My Drafts**.

Request ID	Platform	Provisioning Endpoint	Request Date (mm/dd/yyyy)	Service Catalog	Object Type	Comments	Action
SRREQ001195	Cisco Intersight	cisco1	08/03/2022	CiscoIntersightKislayTest_01_service_catalog	Virtual Machine		
SRREQ001147	Cisco Intersight	cisco1	07/21/2022	Cisco1	Virtual Machine		
SRREQ001118	Cisco Intersight	cisco1	07/19/2022	Cisco Intersight_JS Function_Abhishek	Virtual Machine		
SRREQ001097	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		
SRREQ001094	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		
SRREQ001091	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		

Figure 203 – Managing My Drafts

Refer to the below table to understand the fields mentioned in the above figure.

Table 39 – Managing My Drafts

Fields	Description
Request ID	ID-number of the request created
Platform	Name of Cloud service providers
Provisioning Endpoint	Name of environment (cloud endpoint).
Request Date	Date of the request created
Service Catalog	The interface for IT service consumers that is used to request or manage the services
Object Type	Object against which the request was raised
Comments	Comments/inputs related to a service request
Action	It allows the user to take actions like Edit or Delete the request

3.1.2.1.1.6.2.1 Edit Drafts

To edit/modify the saved service request, requester needs to follow the below steps.

My Request

Cloud Filters

Search

My Request My Drafts









Request ID	Platform	Provisioning Endpoint	Request Date (mm/dd/yyyy)	Service Catalog	Object Type	Comments	Action
SRREQ001195	Cisco Intersight	cisco1	08/03/2022	CiscoIntersightKislayTest_01_service_catalog	Virtual Machine		 
SRREQ001147	Cisco Intersight	cisco1	07/21/2022	Cisco1	Virtual Machine		 
SRREQ001118	Cisco Intersight	cisco1	07/19/2022	Cisco Intersight_JS Function_Abhishek	Virtual Machine		
SRREQ001097	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		 
SRREQ001094	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		 
SRREQ001091	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		

Figure 204 - Edit Drafts

1. Click **Edit** ().

General Information

Item No: 1

Resource Group Name *	Deployment Name *	Network Security Group Name *
resDK	DepDK	NetDK
Rule Name *	Description *	Protocol
RuleDK	DesDK	Tcp
Source Port Range *	Destination Port Range *	Source Address Prefix *
1	1	1
Destination Address Prefix *	Access	Priority *
1	Allow	200
Direction		
Inbound		

View Cost Cancel Save Draft Submit

Figure 205 - Edit Drafts (Cont.)

2. Modify the details as desired and click **Save Draft**.
3. Click **Cancel** to discard all the changes.
4. To submit the request, click **Submit**.
5. A success message box appears.

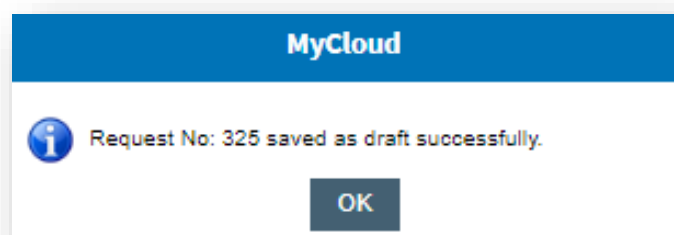


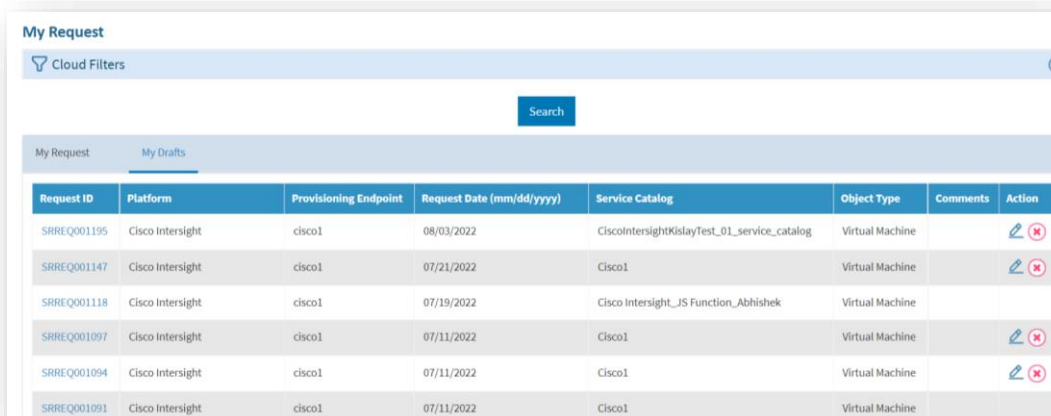
Figure 206 - Edit Drafts (Cont.)

The new draft is saved and appears in a tabular view as shown in [Figure 204 - Edit Drafts](#).

3.1.2.1.1.6.2.2 Delete Drafts

To delete a service request, Requester needs to follow the below steps.

1. On the **My Drafts** pane, click **Cancel** (✖).











Request ID	Platform	Provisioning Endpoint	Request Date (mm/dd/yyyy)	Service Catalog	Object Type	Comments	Action
SRREQ001195	Cisco Intersight	cisco1	08/03/2022	CiscoIntersightKislayTest_01_service_catalog	Virtual Machine		 
SRREQ001147	Cisco Intersight	cisco1	07/21/2022	Cisco1	Virtual Machine		 
SRREQ001118	Cisco Intersight	cisco1	07/19/2022	Cisco Intersight_JS Function_Abhishek	Virtual Machine		
SRREQ001097	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		 
SRREQ001094	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		 
SRREQ001091	Cisco Intersight	cisco1	07/11/2022	Cisco1	Virtual Machine		

Figure 207 - Delete Drafts

2. To delete the request, click **OK**.

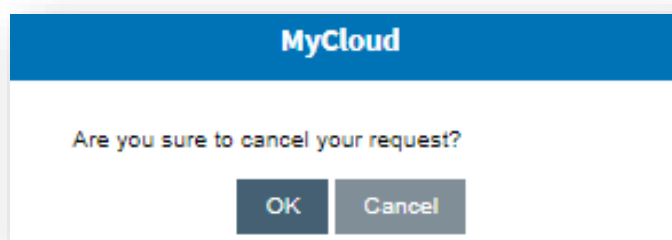


Figure 208 - Delete Drafts (Cont.)

3. A success message box appears.

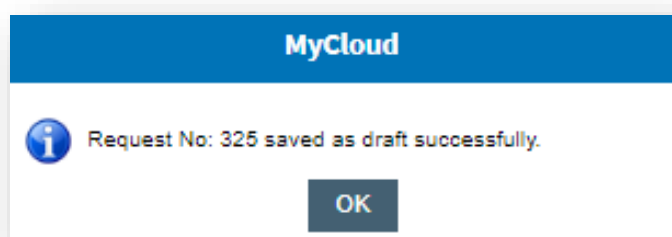


Figure 209 - Delete Drafts (Cont.)

3.1.2.1.2 My Reports

This section highlights the reports that are accessed by Requester.

- **Metering**
- **My Dashboard Requester**
- **Top Bottom Nodes**

- [My Bills](#)
- [Request Analytical Report](#)
- [Request Trend Compare](#)
- [SLA Report](#)
- [Request Tracking](#)

3.1.3 Approver Module

Approver is responsible to approve, reject & refer back the service requests (e.g. Order Requests, Decommission Requests, Extension Requests or Customization Requests) raised by requester to consume cloud services via MyCloud.

The approval workflow includes two types of approvers:

- [Business Approver](#)
- [Technical Approver](#)

On successful Logging to business approver module, the user gets redirected to MyCloud Requester Dashboard.

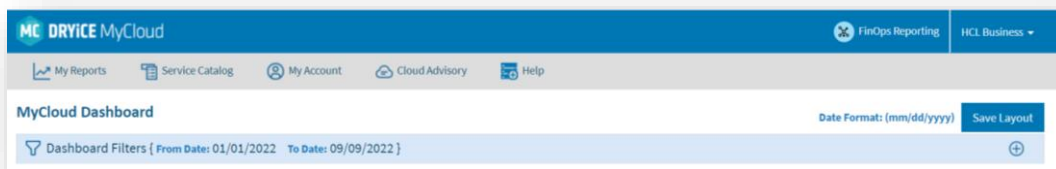


Figure 210 – Approver Module

Admin users can change the appearance of the MyCloud Web/Reports to meet Customer-specific branding by changing the logo.

3.1.3.1 Business Approver

3.1.3.1.1 Accessing MyCloud

Get the URL and user credentials for DRYiCE MyCloud.

Reach out to the person who has configured MyCloud or drop an email to MyCloud-Product-Supp@hcl.com

1. Launch a web browser (Chrome, Mozilla, or Edge) and use the MyCloud URL and user credentials to login to the system.
2. Enter the **Email ID**.
3. Click **Next**

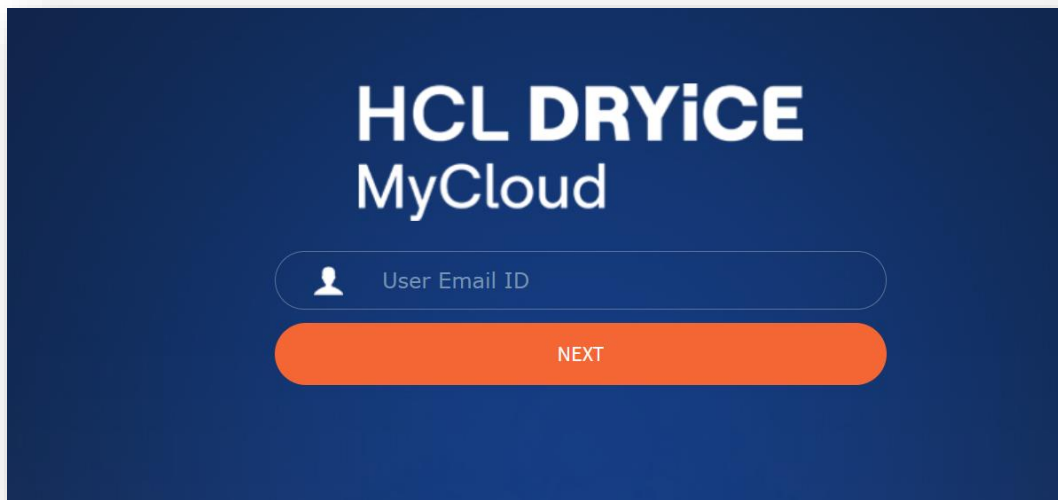


Figure 211 – MyCloud Login Page

4. Enter Password.

For security purposes, it is advised to change the password frequently, at least once a month, to keep the hackers out of the system and to log off when the application is not being used.

5. Select the **Authentication Type**. The following authentication types are available for login:

Table 40 – Approver Module Authentication Type

Authentication Type	Description
Form Based	It provides a mechanism to authenticate the user through the credentials which are stored in the database
LDAP	It provides a mechanism to authenticate the user to login through Active Directory (AD) credentials
SAML Based Authentication	It provides a mechanism to authenticate user through the third -party Identity Access Management (IAM) which supports SAML based authentication

If there are no login credentials, then drop an email to MyCloud-Product-Supp@hcl.com.

If the login type is **Form Based**, no domain selection is required.

If the login type is **LDAP**, domain credentials need to be entered with domain selection.

If the login type is **SAML**, user gets re-directed to the authentication page.

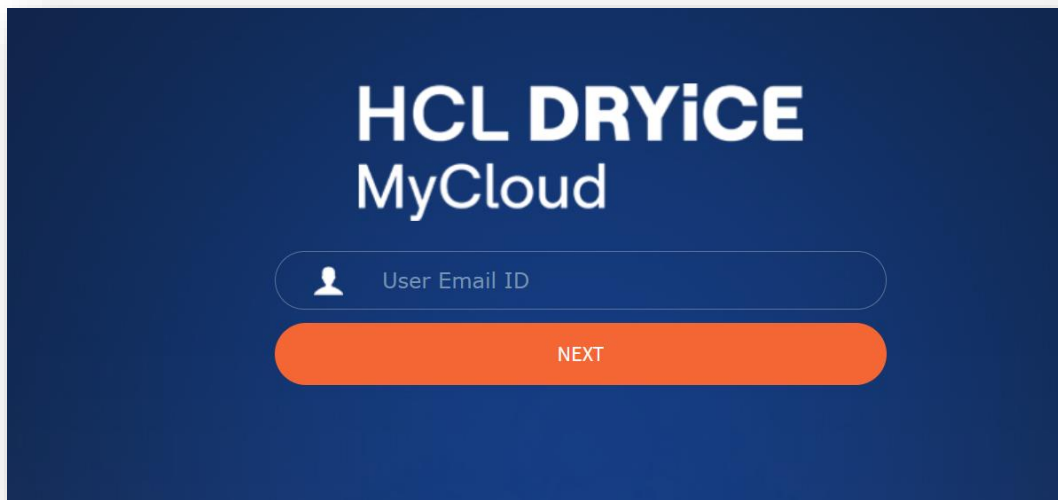


Figure 212 - MyCloud Login Page

6. Click **Login**.
7. On successful login, MyCloud homepage for Business Approver appears, as shown below.
8. Following are the options that are available for Business Approver:
 - My Reports
 - Service Catalog
 - My Account
 - Cloud Advisory
 - Help

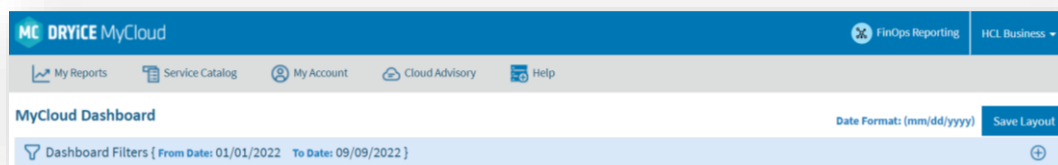


Figure 213 - My Approval

3.1.3.1.1.1 My Account

This section details the steps required to manage the service requests that are submitted by a requester. On the main menu bar, click on My Account and the drop-down appears with the following options:

- **My Objects**
- **My Approval**

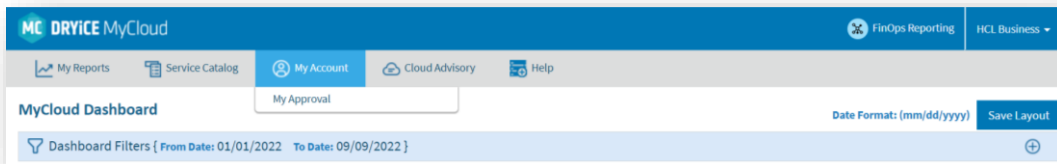


Figure 214 - My Account

3.1.3.1.1.1 My Approval

My Approval screen appears with following options:

- **My Pending Approvals**
- **My Approval History**

My Approvals

My Pending Approvals My Approval History

Platform: --All-- Request Number: Go







Request ID	Provisioning Endpoint	Platform	Requested Action	Object Type	Request Date	Requester Name	Status	Action
SRREQ000171	GcpDev	Google Cloud (GCP)	Request Provisioning	VM-Virtual Machine	14 Jul 2020	requester	Pending Approval	  
SRREQ000155	VcenterDev	Compute on Demand-vCenter	Request Provisioning	VM-Virtual Machine	22 Jun 2020	requester	Pending Approval	  

Figure 215 - My Approval

Refer to the below table to understand the fields mentioned in the above figure.

Table 41 - My Approval Fields

Fields	Description
Platform	Select the cloud service provider from the list.
Request Number	ID of the Service request
Request ID	ID of the Service request
Provisioning Endpoint	Name of environment (cloud endpoint).
Platform	Name of Cloud service providers
Requested Action	Task to be performed
Object Type	Name of the object against which service request has been raised
Request Date	Date on which the request has been created
Requester Name	Name of the person who has created the request
Status	Current status of the request
Action	It allows the Approver to take actions like Approve, reject or refer back the request

3.1.3.1.1.1.1 My Pending Approval

This section explains the steps to approve the pending requests or necessary actions that need to be taken by the business approver.

1. On the My Approval screen, click My Pending Approvals.
2. Select the **Platform or Request Number** and click **Go**.

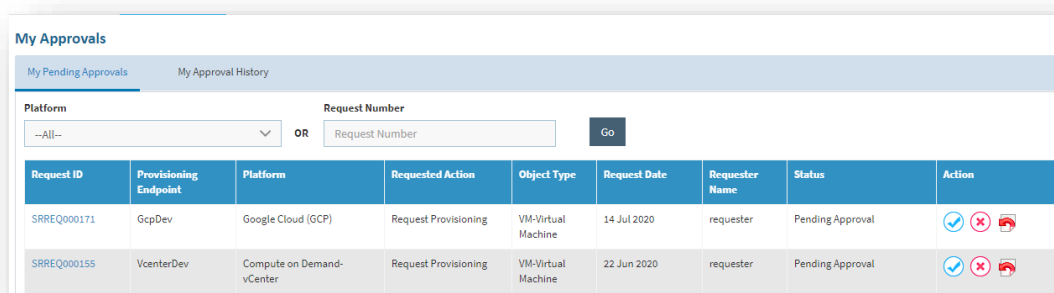


Figure 216 - My Pending Approval

A Business Approver performs the following actions on the pending request:

- **Approve Requests:** To approve a request, user needs to follow the steps:
 - a. Click **Approve** (✓) against the request ID that needs to be approved.
A window pops-up with a summarized view.
 - b. If required, enter **Remarks** in remarks box and click **Approve**.

Figure 217 - My Pending Approval (Cont.)

- c. Selected Request Id has been approved and moved from **My Pending Approval** to **Approval History**.
- d. A success message box appears.



Figure 218 - My Pending Approval (Cont.)

- **Reject Requests:** To reject a request, perform the below steps:
 - a. Click **Reject** (✖) against the request ID.
A window pops-up with a summarized view.
 - b. If required, enter **Remarks** in remarks box and click **Reject**.
Selected Request ID gets rejected.

Figure 219 - My Pending Approval (Cont.)

A success message box appears.

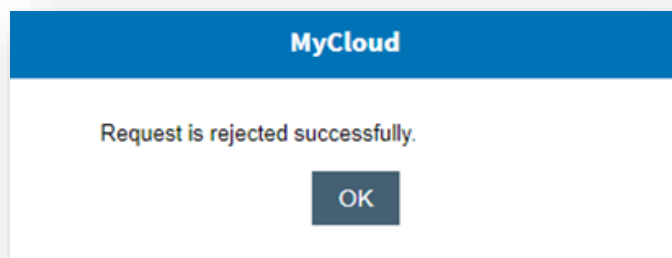


Figure 220 - My Pending Approval (Cont.)

– **Refer back Requests: To refer back a request, perform the below steps:**

- Click **Refer back** () against the request ID.

A window pops-up with request details.

- If required, enter **Remarks** in remarks box and click **Refer back**.

Request No	SRREQ000037	Request Date	29 Apr 2020
Catalog Name	Windows 2012	Region Location Name	USA
Platform Name	VMWARTest	Requester Name	requester
Request for			

Item : 1

RequestDate	04/29/2020	Period	1
PeriodValue	Day(s)	DDate	04/30/2020
Region	USA	Location	New.Jersey
ddlServiceplan	Platinum	ddlCostType	Allocation based model
VmDisplayName	VMDN2904	Remarks	
ddlSize	Small (vCPU : 1, Memory : 2 GB)	ddlCluster	
ddlStorage		hdnStorageId	
ddlNetwork		hdnEnableStorageDrsRecommend	false

Figure 221 - My Pending Approval (Cont.)

- c. Selected request Id has been referred back and the requester gets a notification with the remarks for further actions to be taken on it.
- d. A success message box appears.

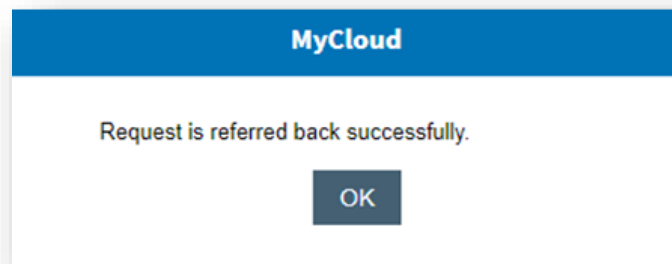


Figure 222 - My Pending Approval (Cont.)

All the fields marked with an asterisk (*) are mandatory.

3.1.3.1.1.1.2 My Approval History

This section details out the steps to view the actions that have been taken by Business Approver against service requests.

1. On the **My Approval** screen, click **My Approval History**.
2. Select the **Platform** or **Request Number** and click **Go**.
3. Click on **Request ID**.

My Approvals

My Pending Approvals

My Approval History

Platform

--All--

OR

Request Number

Comma Separated Request Number

Go

Request ID	Provisioning Endpoint	Platform	Requested Action	Object Type	Request Date	Requester Name	Approval Stage	Approval Date	Status
SRREQ000333	gcpDev	Google Cloud (GCP)	Request Provisioning	Virtual Machine	15 Feb 2021	requester	BusinessApproval	15 Feb 2021	Approved

Figure 223 - My Approval History

Refer to the below table to understand the fields mentioned in the above figure.

Table 42 - My Approval History

Fields	Description
Request ID	ID of the request created
Provisioning Endpoint	Name of environment (cloud endpoint).
Platform	Name of Cloud service providers
Requested Action	Task to be performed
Object Type	Name of the object against which service request has been raised
Request Date	Date on which the request has been created
Requester Name	Name of the person who has created the request
Approval Stage	Describe the name of the Approval Stage on which Approval is provided
Approval Date	Date on which Approval is provided
Status	Displays the status of the request

The Order History window appears.

The screenshot shows the 'MyCloud' application window. It contains a table with request details and a section for 'Item : 1' with tabs for General Information, Instance Details, Additional Storage, Tags, Additional Information, Network, and Disk. The 'General Information' tab is active, showing details like Provision Date, Period Value, Location, Cost Type, Application, and IPAddress1.

Request No	SRREQ001405	Location Name	NA
Request Date (mm/dd/yyyy)	10/06/2022	Service Catalog Name	Azure Publish Service Catalog
Region Name	eastus	Requester Name	HCL Requester
Platform	Microsoft Azure	Provisioning Endpoint	AzureProvisioning
Request Type	Virtual Machine Provisioning	Request for (Email)	

Item : 1

General Information			
Provision Date	09/11/2022	Period	1
Period Value	Day(s)	Decommission Date	09/12/2022
Location	eastus	Service Plan	Public cloud Service Plan
Cost Type	Time Based model	VM Display Name	vm6563Test1
Application	MyCloud	Remarks	
IPAddress1		ResourceType	MANAGEDVIRTUALMACHINES

Figure 224 - My Approval History (Cont.)

Refer the below table to understand the fields mentioned in the following table in the above figure.

Table 43 - My Approval History

Fields	Description
Request ID	Unique request ID
Date	Approval date (appears post approval)
Status	Current status of the request

3.1.3.1.2 My Reports

- [Request Analytical Report](#)
- [Request Trend Compare](#)

3.1.3.2 Technical Approver

Technical approver is the user who is responsible for validating and approving the requests submitted by end-users. Technical Approver has the visibility of underlying infrastructure and validates the actual resources being consumed for request fulfilment.

3.1.3.2.1 Accessing MyCloud

Get the URL and user credentials for DRYiCE MyCloud.

Reach out to the person who has configured MyCloud or drop an email to MyCloud-Product-Supp@hcl.com

1. Launch a web browser (Chrome, Mozilla, or Edge) and use the MyCloud URL and User credentials to login to the system.
2. Enter the **Email ID**.
3. Click **Next**.

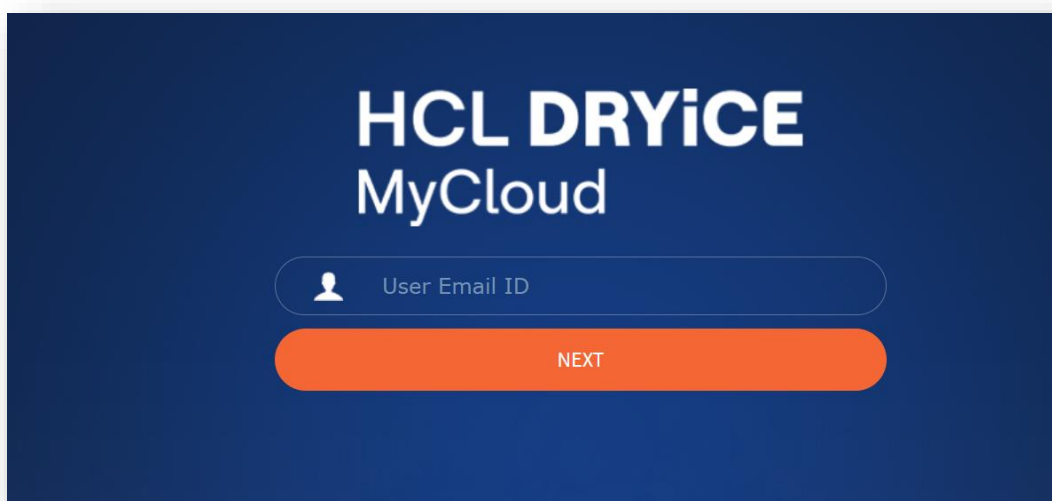


Figure 225 - MyCloud Login Page

4. Enter Password.

Change the password frequently, at least once a month, to keep hackers out of the system. When the application is not being used then log out.

5. Select the **Authentication Type**. The following authentication types are available for login:

Table 44 – Technical Approver: Authentication Type

Authentication Type	Description
Form Based	It provides a mechanism to authenticate the user through the credentials which are stored in the database
LDAP	It provides a mechanism to authenticate the user to login through Active Directory (AD) credentials
SAML Based Authentication	It provides a mechanism to authenticate user through the third -party Identity Access Management (IAM) which supports SAML based authentication

If there are no login credentials, then drop an email to MyCloud-Product-Supp@hcl.com.

If the login type is **LDAP**, domain credentials need to be entered with domain selection.

If the login type is **SAML**, the user gets re-directed to the authentication page.

If the login type is **Form Based**, no domain selection is required.

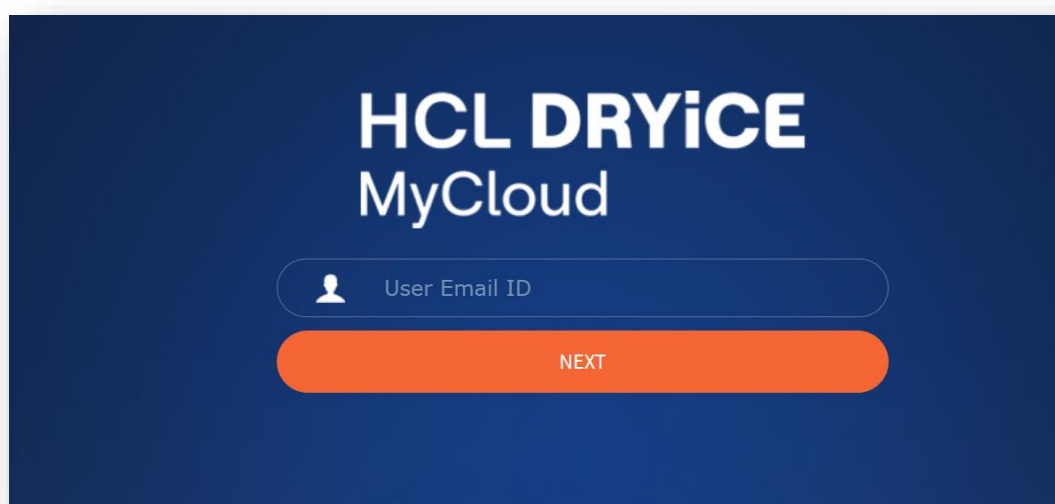


Figure 226 - MyCloud Login Page (Cont.)

6. Click **Login**.
7. On successful login, MyCloud homepage for technical approver appears, as shown below.

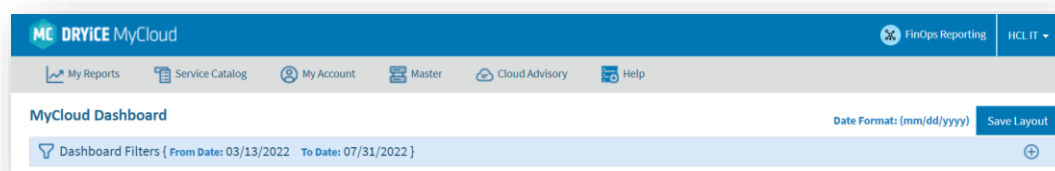


Figure 227 - Technical Approver

8. Following options are available for **Technical Approver**:
 - **My Account**

- Cloud Advisory
- My Reports
- [Help](#)

3.1.3.2.1.1 My Account

This section details out the steps required to manage the service requests that were submitted by Requester.

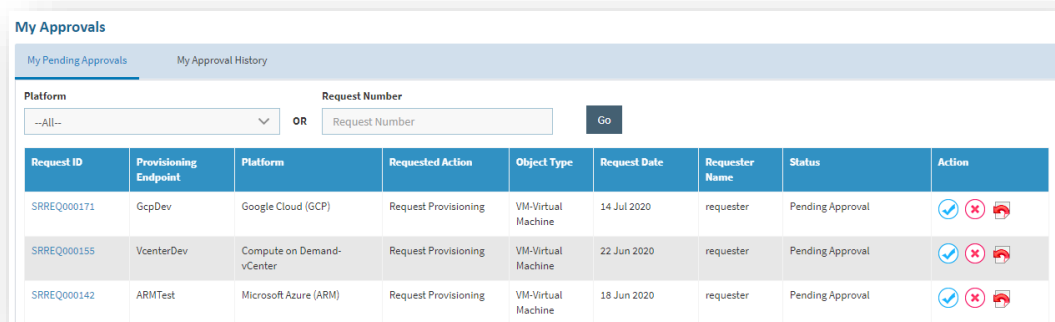
3.1.3.2.1.1.1 My Approvals

On the main menu bar, click My Account and then click My Approvals.

The My Approvals screen appears with the following options:

- [My Pending Approvals](#)
- [My Approval History](#)

Button like Edit/Approve is not visible then check the Organization configuration.



The screenshot shows the 'My Approvals' interface. At the top, there are two tabs: 'My Pending Approvals' (active) and 'My Approval History'. Below the tabs, there is a search section with a 'Platform' dropdown menu (set to '--All--'), an 'OR' separator, a 'Request Number' input field, and a 'Go' button. The main part of the screen is a table with the following columns: Request ID, Provisioning Endpoint, Platform, Requested Action, Object Type, Request Date, Requester Name, Status, and Action. There are three rows of data, all with a status of 'Pending Approval'.










Request ID	Provisioning Endpoint	Platform	Requested Action	Object Type	Request Date	Requester Name	Status	Action
SRREQ000171	GcpDev	Google Cloud (GCP)	Request Provisioning	VM-Virtual Machine	14 Jul 2020	requester	Pending Approval	  
SRREQ000155	VcenterDev	Compute on Demand-vCenter	Request Provisioning	VM-Virtual Machine	22 Jun 2020	requester	Pending Approval	  
SRREQ000142	ARMTTest	Microsoft Azure (ARM)	Request Provisioning	VM-Virtual Machine	18 Jun 2020	requester	Pending Approval	  

Figure 228 - My Approval

Refer to the below table to understand the fields mentioned in the above figure.

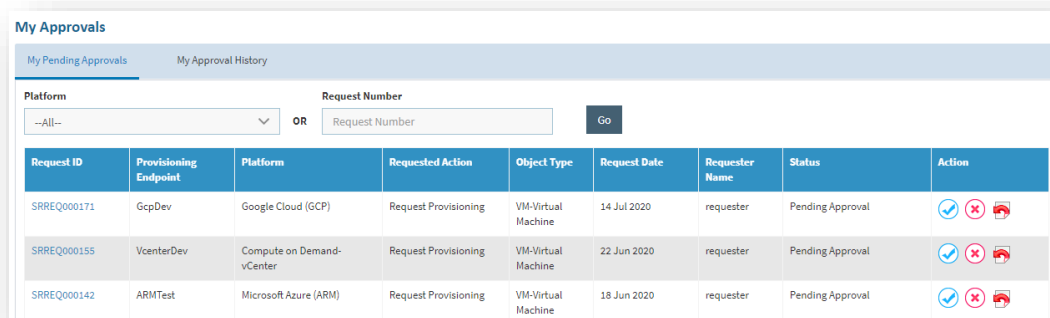
Table 45 - My Approval

Fields	Description
Request ID	Displays the ID-number of the request created
Request Number	ID of the Service request
Request ID	ID of the Service request
Provisioning Endpoint	Name of environment (cloud endpoint).
Platform	Name of Cloud service providers
Requested Action	Displays the action requested by requester
Object Type	Displays the type of the infrastructure resource
Request Date	Date on which the request has been created
Requester Name	Name of the person who has created the request
Status	Displays the current status of the request placed
Action	It allows the user to take actions like mark as Complete, reject or refer back the request.

3.1.3.2.1.1.1 My Pending Approval

This section explains the steps required to manage pending requests and necessary actions that need to be taken against the requests.

1. On the My Approval screen, click My Pending Approvals.



The screenshot shows the 'My Approvals' interface. At the top, there are two tabs: 'My Pending Approvals' (active) and 'My Approval History'. Below the tabs, there is a search section with a 'Platform' dropdown menu (set to '-All-'), a 'Request Number' input field, and a 'Go' button. Below the search section is a table with the following columns: Request ID, Provisioning Endpoint, Platform, Requested Action, Object Type, Request Date, Requester Name, Status, and Action. The table contains three rows of pending requests.










Request ID	Provisioning Endpoint	Platform	Requested Action	Object Type	Request Date	Requester Name	Status	Action
SRREQ000171	GcpDev	Google Cloud (GCP)	Request Provisioning	VM-Virtual Machine	14 Jul 2020	requester	Pending Approval	  
SRREQ000155	VcenterDev	Compute on Demand-vCenter	Request Provisioning	VM-Virtual Machine	22 Jun 2020	requester	Pending Approval	  
SRREQ000142	ARMTTest	Microsoft Azure (ARM)	Request Provisioning	VM-Virtual Machine	18 Jun 2020	requester	Pending Approval	  

Figure 229 - My Pending Approval

A Technical Approver performs the following actions on the pending request:


- **Approve Requests:** To approve a request, user needs to follow the steps:
 - a. Click **Approve** () against the request ID.
A window pops-up with a summarized view.
 - b. If required, enter **Remarks** in remarks box.
 - c. Click **Approve**.

Figure 230 – Requester Approver Comments

Refer to the below table to understand the fields mentioned in the above figure.

Table 46 – My Pending Approval

Fields	Description
Provision Date	Date on which resource has been requested
Period	The lease period for which a resource is required
Period Value	Time period for the selected resource i.e., months, days, weeks, or years
Region	Lists the Geographical presence of native cloud providers
Location	Data center location associated with request
Service Plan	Resource category created by the provider i.e., platinum, gold, or bronze
Cost Type	Cost model as Pay as you go, or allocation based
VM Display Name	Name to be displayed against the Resource being created
Remarks	Additional information provided by the requester
Size	Compute size of requested resource
Cluster	List the vCenter cluster
Storage	List the data stores associated with clusters
Network	Lists the network associated with cluster
Remarks	Provide the additional requests if any

- Selected request ID has been approved and moved from **My Pending Approval** to **Approval History**.

3. A success message box appears.



Figure 231 – My Pending Approval

- **Reject Request:** To reject a request, perform the following steps:
 - a. Click **Reject** (✖) against the request ID.
A window pops-up with a summarized view.
 - b. If required, enter **Remarks** in remarks box and click **Reject**.
Selected request ID gets rejected.

A screenshot of the 'MyCloud' 'Item Details' form. The form is divided into several sections: 'General Information', 'Compute', 'Additional Information', 'Tags', and 'TestingOnly'. The 'General Information' section is active and contains fields for 'Provision Date' (10/06/2022), 'Decommission Date' (10/07/2022), 'Service Plan' (Service Plan1), 'Remarks' (empty), and 'TestNumber' (empty). The 'Compute' section contains fields for 'Period' (2), 'Region' (vCenterRegion), 'Cost Type' (Allocation based model), 'Size' (VerySmall (vCPU : 1, Memory : 1 GB)), and 'PBI No. / Name' (1). The 'Additional Information' section contains fields for 'Period Value' (Day(s)), 'Location' (vCenter Location), 'VM Display Name' (sample/VM), and 'CLUSTERTEST' (--Select--). At the bottom of the form is a large text area for 'Remarks (Maximum 250 characters)*' and a blue 'Reject' button.

Figure 232 – My Pending Approval (Cont.)

A success message box appears.

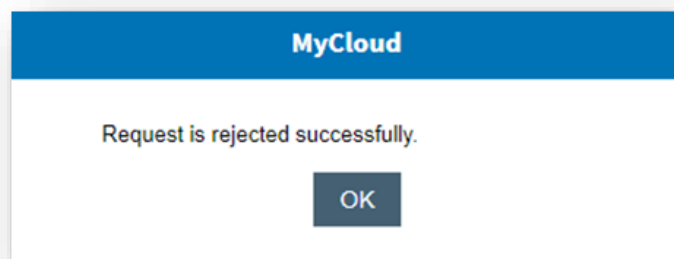


Figure 233 – My Pending Approval (Cont.)

- **Refer back Requests:** To refer back a request, follow the below steps:

- c. Click **Refer back** (🔙) against the request ID.
A window pop-up with request details.
- d. If required, enter **Remarks** in remarks box and click **Refer back**.

The screenshot shows a web form titled 'Item Details' with a blue header. Below the header, there are several input fields and dropdown menus arranged in a grid. The fields include dates, numbers, and text inputs, some with asterisks indicating they are mandatory. A 'Refer Back' button is located at the bottom right of the form.

Figure 234 – My Pending Approval (Cont.)

4. Selected request Id has been referred back and the requester gets a notification with the remarks for further actions to be taken on it.
5. A success message box appears.

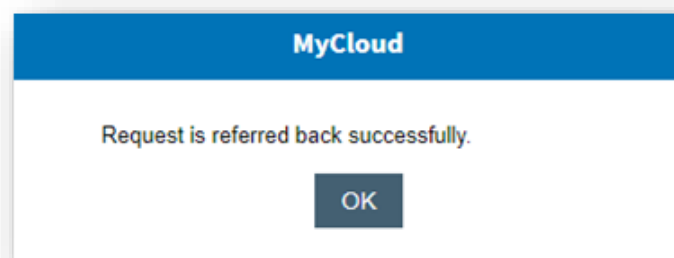


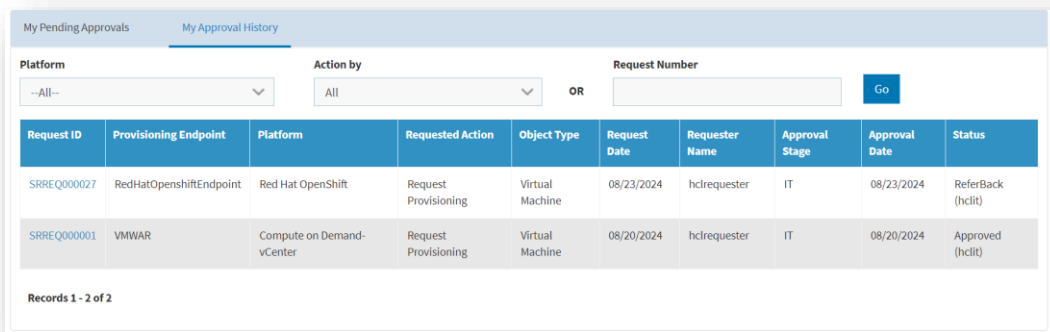
Figure 235 – My Pending Approval (Cont.)

All the fields marked with asterisk (*) are mandatory. Above process is for VMware, Fields may vary in case of other cloud providers.

3.1.3.2.1.1.2 My Approval History

This section details out the steps required to view the actions that have been taken by technical Approver on the service requests.

1. On the My Approval screen, click My Approval History.



The screenshot shows a web interface titled "My Pending Approvals" and "My Approval History". It features a search bar with "Platform" (dropdown: --All--), "Action by" (dropdown: All), and "Request Number" (text input) with a "Go" button. Below is a table with 10 columns: Request ID, Provisioning Endpoint, Platform, Requested Action, Object Type, Request Date, Requester Name, Approval Stage, Approval Date, and Status. Two records are shown: SRREQ000027 (RedHatOpenshiftEndpoint, Red Hat OpenShift, Request Provisioning, Virtual Machine, 08/23/2024, hcirequester, IT, 08/23/2024, ReferBack (hclit)) and SRREQ000001 (VMWAR, Compute on Demand-vCenter, Request Provisioning, Virtual Machine, 08/20/2024, hcirequester, IT, 08/20/2024, Approved (hclit)). A footer indicates "Records 1 - 2 of 2".

Request ID	Provisioning Endpoint	Platform	Requested Action	Object Type	Request Date	Requester Name	Approval Stage	Approval Date	Status
SRREQ000027	RedHatOpenshiftEndpoint	Red Hat OpenShift	Request Provisioning	Virtual Machine	08/23/2024	hcirequester	IT	08/23/2024	ReferBack (hclit)
SRREQ000001	VMWAR	Compute on Demand-vCenter	Request Provisioning	Virtual Machine	08/20/2024	hcirequester	IT	08/20/2024	Approved (hclit)

Figure 236 - My Approval History

- It lists down all the approved request approved by self or others.
- Refer to the below table to understand the fields mentioned in the above figure.

Table 47 - My Approval History

Fields	Description
Request ID	ID of the request created
Provisioning Endpoint	Name of environment (cloud endpoint).
Platform	Name of Cloud service providers
Requested Action	Action requested by requester
Object Type	Type of the infrastructure resource
Request Date	Date on which the request has been created
Requester Name	Name of the person who has created the request
Approval Stage	Describe the name of the Approval Stage on which Approval is provided
Approval Date	Date on which Approval is provided
Status	Status of the request (user name of approval)

- Click on **Request ID**.
- The **Order History** window appears.

The screenshot shows the 'MyCloud' application window. At the top, there's a header bar with the 'MyCloud' logo and a close button. Below the header, there's a table with request details:

Request No	SRREQ001410	Location Name	vCenter Location
Request Date (mm/dd/yyyy)	10/06/2022	Service Catalog Name	CPU Memory Sharing - JS Function
Region Name	vCenterRegion	Requester Name	HCL Requester
Platform	Compute on Demand-vCenter	Provisioning Endpoint	vCenterProvisioning
Request Type	Virtual Machine Provisioning		

Below this table, it says 'Item : 1'. Then there's a tabbed interface with four tabs: 'General Information', 'Compute', 'Additional Information', and 'TestingOnly'. The 'General Information' tab is selected, showing a table with details like Period, Service Plan, Period Value, Region, VM Display Name, Size, Os Disk Storage, and TestNumber. Below the tabs, there's an 'Approval History' section with a table showing the request ID, date, and status.

Request ID	Date	Status
SRREQ001410		Pending Approval

Figure 237 - My Approval History (Cont.)

Refer to the below table to understand the fields mentioned in the above figure.

Table 48 - My Approval History

Fields	Description
Activity	Activity type for the request
Request ID	Unique request ID
Date	Approval date; appears post approval
Status	Current status of the request

3.1.3.2.1.1.2 IT Verification

This section provides the IT Admin to verify, approve, request action(s) to the resources, once all the Task(s) in the request has successfully completed.

Only those requests will be sent to IT Verification where Provider Admin has configured the Organization with IT Verification Enabled.

1. On the main menu bar, click **My Account** and then click **IT Verification**.
2. The **IT Verification** screen appears with the following options:
 - [My Pending Approvals](#)
 - [My Approval History](#)

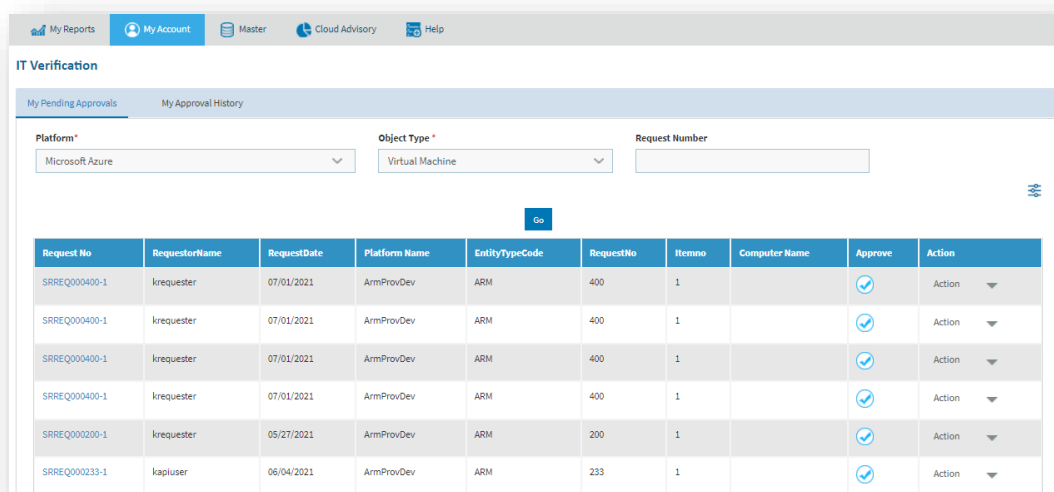



Figure 238 – IT Approval

Refer to the below table to understand the fields mentioned in the above figure.

Table 49 – IT Approval

Fields	Description
Platform	Name of Cloud service providers
Object Type	Displays the type of the infrastructure resource
Request Number	ID of the Service request
Requester Name	Name of the person who has created the request
Request Date	Date on which the request has been created
Platform	Name of Cloud service providers
Entity Type Code	Code of the Cloud service providers
Item No	Item number of the request
Computer Name	Name of the computer
Approve	Action Button – To approve the Resource Provisioning
Action	It allows the user to take actions. Only those actions will be listed on this screen for which Provider admin has marked "IT Verification Enabled"
	Grid Column Setting

3.1.3.2.1.2.1 My Pending Approval

This section explains the steps required to approve the pending requests and necessary actions that need to be taken against the requests.

1. On the IT Approval screen, click My Pending Approvals.

IT Verification

My Pending Approvals My Approval History

Platform* Object Type* Request Number

Microsoft Azure Virtual Machine

Go

Request No	Requester Name	Request Date	Platform Name	Entity Type Code	Request No	Item No	Computer Name	Approve	Action
SRREQ000400-1	kre requester	07/01/2021	ArmProvDev	ARM	400	1		<input checked="" type="checkbox"/>	Action ▼
SRREQ000400-1	kre requester	07/01/2021	ArmProvDev	ARM	400	1		<input checked="" type="checkbox"/>	Action ▼
SRREQ000400-1	kre requester	07/01/2021	ArmProvDev	ARM	400	1		<input checked="" type="checkbox"/>	Action ▼
SRREQ000400-1	kre requester	07/01/2021	ArmProvDev	ARM	400	1		<input checked="" type="checkbox"/>	Action ▼
SRREQ000200-1	kre requester	05/27/2021	ArmProvDev	ARM	200	1		<input checked="" type="checkbox"/>	Action ▼
SRREQ000233-1	kapiuser	06/04/2021	ArmProvDev	ARM	233	1		<input checked="" type="checkbox"/>	Action ▼

Figure 239 – IT Verification – My Pending Approval

A Technical Approver performs the following actions on the pending request:

- To approve a request, user needs to follow the steps:
 - a. Click **Approve** ☒ against the request ID.
A window pops-up with a summarized view.
 - b. If required, enter **Remarks** in remarks box.
 - c. Click **Save**.

Approver Comments ✕

Request No	SRREQ000400-1	Object Id	DRYICELQA1024
Create Date	17/08/2021	Requester Name	requester

Remarks*

Approval Comments

Save Cancel

Figure 240 – IT Verification – Approval Popup

Refer to the below table to understand the fields mentioned in the above figure.

Table 50 – My Pending Approval

Fields	Description
Request No	ID of the Service request
Object Id	Object Id, Unique Id of the object on which Action is performed.
Create Date	Date on which resource has been requested
Requester Name	Name of the person who has created the request
Remarks	Additional information provided by the IT Admin
Save	Button to complete the Approval process
Cancel	Button to terminate the Approval process.

2. Selected request ID has been approved and moved from **My Pending Approval** to **Approval History**.
3. A success message box appears.

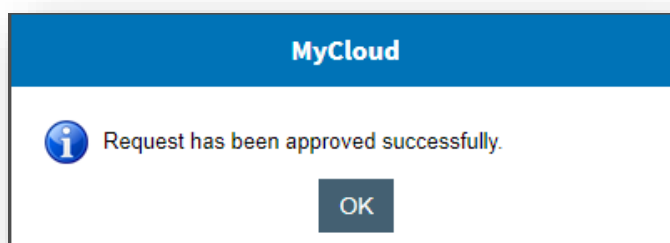


Figure 241 – My Pending Approval

- **Raise Action Requests:** To raise an Action Request on the requested Resource kindly refer [Virtual Machines Actions](#).

3.1.3.2.1.1.2.2 My Approval History

This section details out the requests that have been approved by technical Approver on the IT Approval My Pending Approvals

1. On the IT Approval screen, click My Approval History.

Request No	RequestorName	RequestDate	ApprovalDate	ApprovedBy	Comments	Platform Name	EntityTypeCode	Computer Name
SRREQ000400-1	krequester	07/01/2021	08/17/2021	ktechnical	Approval Comments	ArmProvDev	ARM	
SRREQ000400-1	krequester	07/01/2021	08/17/2021	ktechnical	Approval Comments	ArmProvDev	ARM	
SRREQ000400-1	krequester	07/01/2021	08/17/2021	ktechnical	Approval Comments	ArmProvDev	ARM	
SRREQ000400-1	krequester	07/01/2021	08/17/2021	ktechnical	Approval Comments	ArmProvDev	ARM	
SRREQ000200-2	krequester	05/27/2021	05/27/2021	ktechnical	approved	ArmProvDev	ARM	

Figure 242 – IT Approval – My Approval History

- It lists down all the approved requests.
- Refer to the below table to understand the fields mentioned in the above figure.

Table 51 – My Approval History

Fields	Description
Request No	ID of the request created
Requester Name	Name of the requester who has placed the request.
Request Date	Date on which the request has been created
Approval Date	Date on which the request has been approved.
Approved By	IT Admin who has approved the request
Comments	Comments added by IT Admin while approving the request.
Platform Name	Name of Cloud service providers
Computer Name	Name of the VM

- Click on **Request NO**.
- The **Order History** window appears.

The screenshot shows the 'MyCloud' application window. At the top, there's a header bar with the title 'MyCloud'. Below it, a table displays request details for 'SRREQ001418'. The table has columns for Request No, Request Date, Region Name, Platform, Request Type, Location Name, Service Catalog Name, Requester Name, Provisioning Endpoint, and Request for (Email). Below this table, there's a section titled 'Item : 1' which contains a sub-table with tabs for General Information, Compute, Additional Information, Tags, TestingOnly, Disk, and Network. The 'General Information' tab is active, showing details like Period, Service Plan, Object Type, Period Value, Region, VM Display Name, Size, OS Disk Storage, and Test Number. At the bottom of the window, there's an 'Approval History' section with a table showing the request ID, Date, and Status. The status is 'Approved'.

Request No	Request Date (mm/dd/yyyy)	Region Name	Platform	Request Type	Location Name	Service Catalog Name	Requester Name	Provisioning Endpoint	Request for (Email)
SRREQ001418	10/07/2022	vCenterRegion	Compute on Demand-vCenter	Virtual Machine Provisioning	vCenter Location	11528_Kislay_DeleteCI	HCL Requester	vCenterProvisioning	

Item : 1

General Information				Compute	Additional Information	Tags	TestingOnly	Disk	Network
Period	1	Cost Type	Allocation based model						
Service Plan	Service Plan1	Objectid	MCLD-1380-1						
ObjectType	VM	Provision Date	10/07/2022						
Period Value	Week(s)	Decommission Date	10/13/2022						
Region	vCenterRegion	Location	vCenter Location						
VM Display Name	25Sep1982_vm	Remarks							
Size	VerySmall (vCPU : 1, Memory : 1 GB)	Cluster	SB-Compute-Cluster						
Os Disk Storage	SharedDatastore05	CLUSTERTEST							
TestNumber		PBI No. / Name	11539						

Approval History

	Request ID	Date	Status
+	SRREQ001418	10/07/2022 16:25:01	Approved

Figure 243 – IT Approval – Order History

3.1.3.2.1.2 Cloud Advisory

This section explains how MyCloud optimizes the cost and recommends advisories to meet business goals. The module helps to create a strong foundation to achieve the benefits of cloud adoption and virtualization.

- On the main menu bar, click **Cloud Advisory**.

2. The drop-down appears with the following option:

- Azure Advisory
- Google (GCP) Advisory
- Amazon Advisory

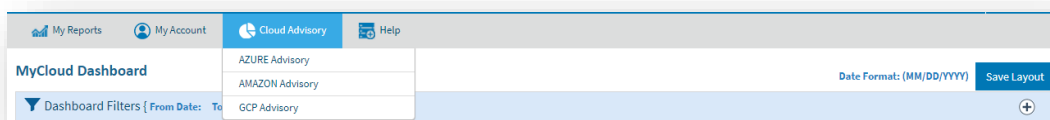


Figure 244 – Cloud Advisory

Only technical approver can access cloud advisory.

3.1.3.2.1.2.1 Azure Advisory

In this advisory module, technical approver comes to know the health of its Azure environment.

1. On the main menu bar, click **Cloud Advisory**, and then click **Azure Advisory**.
2. The **Azure Advisory** screen appears.

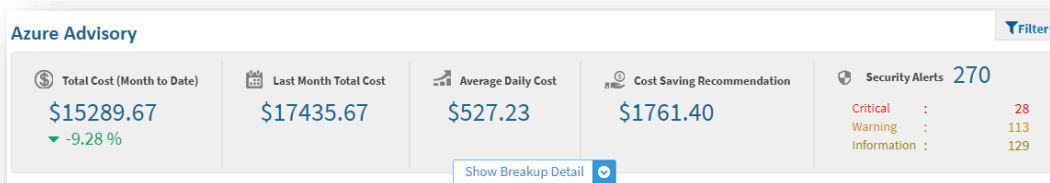


Figure 245 – Azure Advisory

Table 52 – Azure Advisory

Fields	Description
Total Cost	Current incurred cost
Last month total cost	Previous month cost
Average Daily Cost	Average daily consumption cost
Cost Saving Recommendation	Cost saving recommendation
Security Alerts	Number of securities alerts as per the degree of threats/ risks

3. Click Show Break Up Detail.
4. A pane appears with the breakup of each subscription

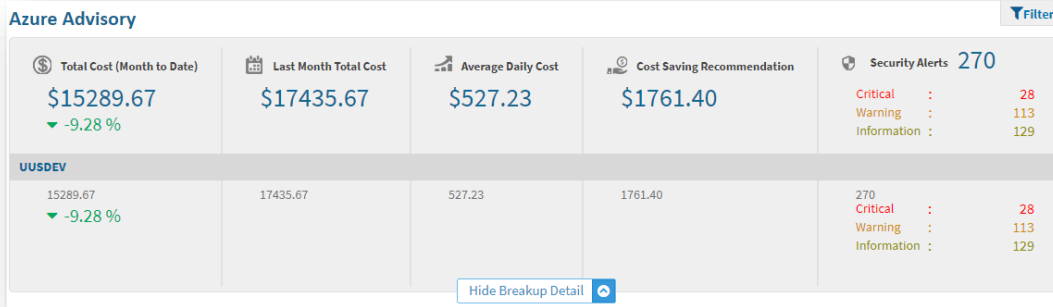


Figure 246 – Azure Advisory (Cont.)

5. A section below the cost pane displays the services that are used for business purposes.
- **Cost** – This parameter has many heads, and each head shows those services that are not fully utilized. If necessary, user may take actions against these VMs to save cost.
 - **High Availability** – To protect the application from a single point of failure and shows the services which are under fault tolerance.
 - **Performance**– This parameter shows many heads and data with poor performance.
 - **Security**– Based on the security risk level and security impact level, it advises the security center recommendation.

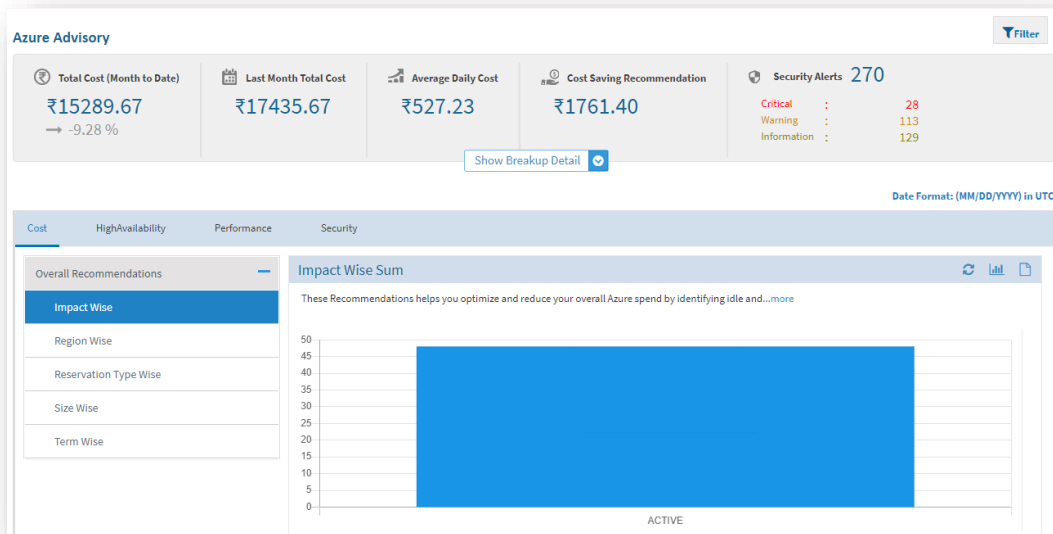


Figure 247 – Azure Advisory (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 53 – Azure Advisory

Fields	Description
Impact Wise	These Recommendations helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. Low resource utilization results in unwanted expenditure that you can fix without significant performance impact. Impact can be High, Medium, Low.
Region Wise	These Recommendations helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. Low resource utilization results in unwanted expenditure that you can fix without significant performance impact. Below chart depict cost recommendations based on azure regions.
Reservation Type Wise	These Recommendations helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. Low resource utilization results in unwanted expenditure that you can fix without significant performance impact. This shows you the regions and sizes where the potential for savings is highest and the estimated savings from purchasing reservations.
Size Wise	These Recommendations help you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. Low resource utilization results in unwanted expenditure that you can fix without significant performance impact. This shows you the sizes where the potential for savings is highest and the estimated savings from purchasing reservations.
Term Wise	These Recommendations help you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. Low resource utilization results in unwanted expenditure that you can fix without significant performance impact. This shows you the sizes where the potential for savings is highest and the estimated savings from purchasing reservations.

3.1.3.2.1.2.2 Amazon Advisory

Through this module, technical approver comes to know the ways to optimize the cost of resources, increase their performance and security.

1. On the main menu bar, click **Cloud Advisory**, and then click **Amazon Advisory**.
2. The **Amazon Advisory** screen appears.

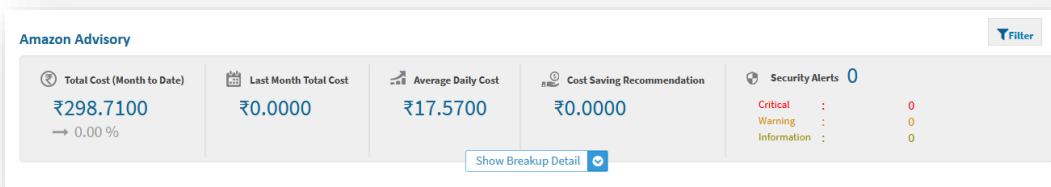


Figure 248 - Amazon Advisory

Table 54 - Amazon Advisory

Fields	Description
Total Cost	Current incurred cost
Last Month Total Cost	Previous month cost
Average Daily Cost	Average daily consumption cost
Cost Saving Recommendation	Cost saving recommendation
Security Alerts	Number of securities alerts as per the degree of threats/ risks

- Click Show Breakup Detail.
- A pane appears with the breakup of each subscription.

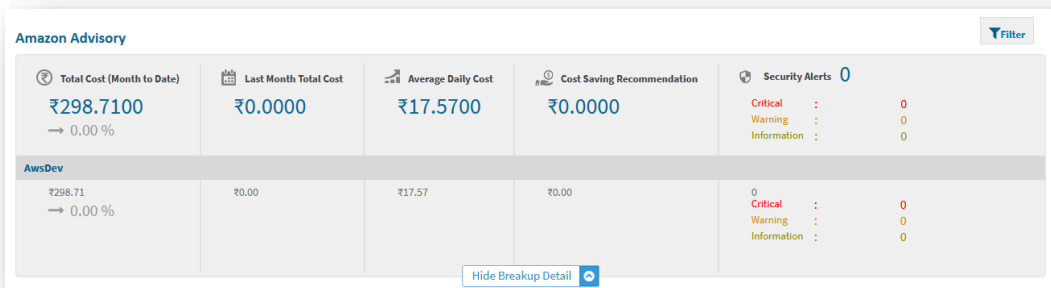


Figure 249 - Amazon Advisory (Cont.)

- A section below the cost pane displays the services that are used for business purposes.
 - Cost Optimization**- This parameter has many heads, and each head shows those services that are not fully utilized. If necessary, user may take actions against these VMs to save cost.
 - Fault Tolerance**- To protect the application from a single point of failure and shows the services which are under fault tolerance.
 - Performance**- This parameter shows many heads and data with poor performance.
 - Security**- Shows many heads and data with their securities at risk.

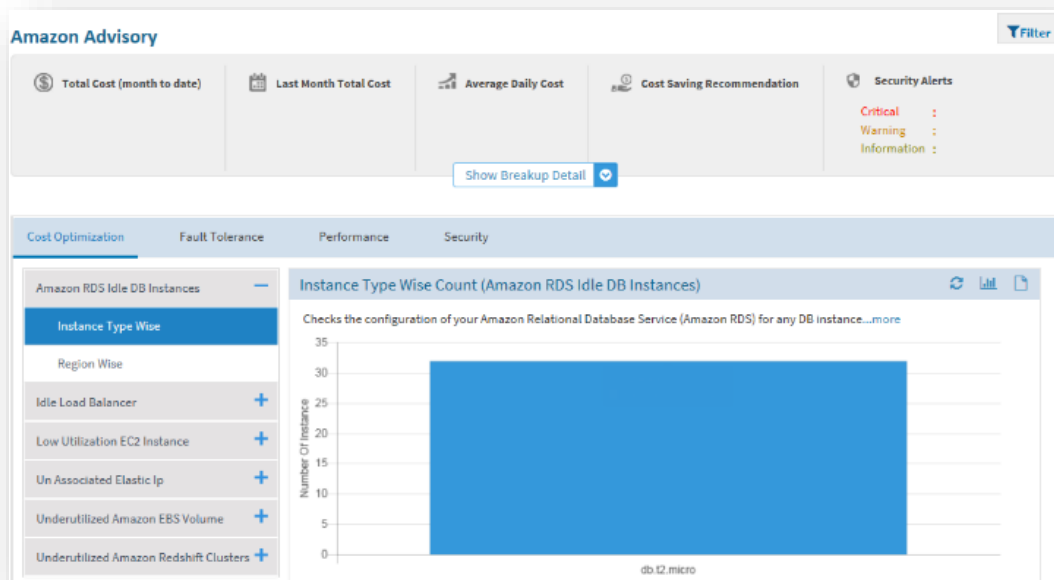


Figure 250 – Amazon Advisory (Cont.)

Refer to the below table to understand the fields mentioned in the above figure.

Table 55 – Amazon Advisory

Fields	Description
Amazon RDS idle DB instance	number of AWS RDS Instances that are ideal/ not being used in an environment.
Instance Type Wise	Data grouped by instance types.
Idle Load Balancer	This section lists out the LBs which are not being utilized efficiently in an organization
Low utilization EC2 Instance	This section lists out the instances which are not being utilized efficiently in an organization
Unassociated Elastic IP	This section lists out the EIPs which are not being utilized in an organization
Underutilized Amazon Redshift Cluster	This section lists out the RDS clusters which are not being utilized efficiently in an organization

3.1.3.2.1.2.3 Google (GCP) Advisory

Through this module, technical approver comes to know the ways to optimize the cost of resources, increase their performance and security.

1. On the main menu bar, click **Cloud Advisory**, and then click **GCP Advisory**.
2. The **Google (GCP) Advisory** screen appears.

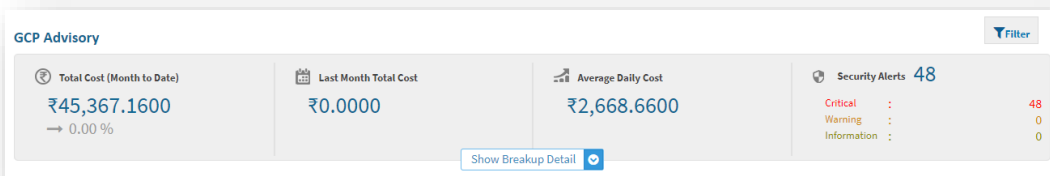


Figure 251 - GCP Advisory

Table 56 - GCP Advisory

Fields	Description
Total Cost	Current incurred cost
Last month total cost	Previous month cost
Average Daily Cost	Average daily consumption cost
Security Alerts	Number of securities alerts as per the degree of threats/ risks

3. Click Show Breakup Detail.
4. A pane appears with the breakup of all Google Cloud Platforms that are configured in Platform Provisioning master.

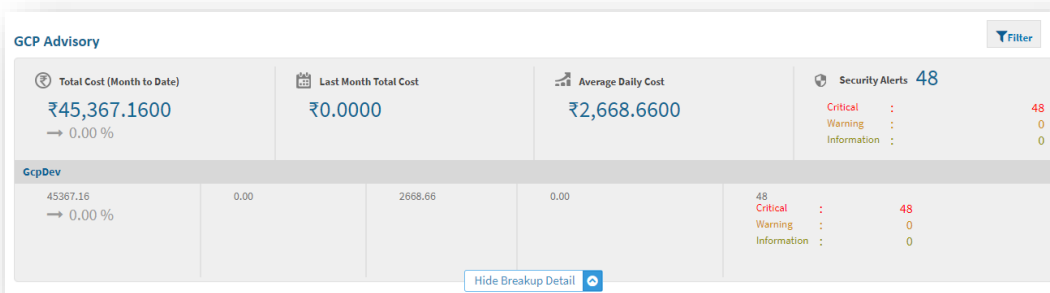


Figure 252 - GCP Advisory (Cont.)

A section below the cost pane displays the services that are used for business purpose.

- Cost - This parameter has many heads, and each head shows those services that are not fully utilized. If necessary, user may take actions against these VMs to save cost.
- Performance- This parameter shows many heads and data with poor performance.
- Security- Shows many heads and data with their securities at risk.

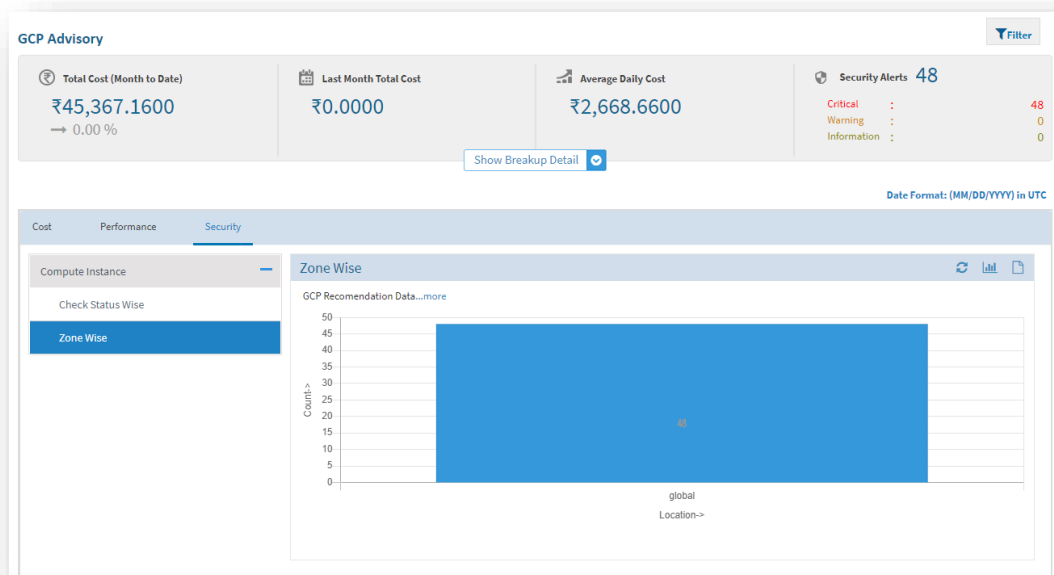


Figure 253 – GCP Advisory (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 57 – GCP Advisory

Fields	Description
Check Status Wise	Data grouped by Status wise.
Zone Wise	Data grouped by Zone wise.

3.1.3.2.1.3 My Reports

- Request Analytical Report
- Request Trend Compare
- My Dashboard Requester
- Metering
- Top Bottom Nodes

3.1.4 Blueprint Module

A blueprint is a package of deployable, reusable configuration and policies that implements and documents a specific solution. Blueprints enable users to design infrastructure, platforms, and application services by composing and connecting cloud resources with declarative configuration. Blueprints are designed to capture best practices for specific use cases, including appropriate resource groupings and policies. Once best practices are packaged into a blueprint, they can be shared internally within your organization or distributed among certain groups to evangelize them more broadly. Because blueprints package multiple resources together to target specific use cases, they can provide sensible, contextual default configurations, which reduces the need to tune every option on each resource. This makes onboarding faster and reduces costs. This module describes how to create, edit, and deploy blueprints in DRYICE MyCloud. It is a drag and

drop blueprint designer to support provisioning and post provisioning and has the following features covered.

- Support for GCP, Azure, AWS
- Support Ansible and Cisco Intersight for post provisioning task
- Ability to create infrastructure blueprint using blueprint designer
- Blueprint deployment and status tracking
- Out of box (OOB) method to deploy blueprints in MyCloud Orchestrator
- View execution history and rerun functionality
- Downloads terraform files for blueprint
- History and drift view among multiple versions of blueprint
- Import/Export functionality of blueprints

3.1.4.1 Manage Blueprint

3.1.4.1.1 Accessing Blueprint

The Blueprint module is managed by the Provider user. To access the blueprint, the user needs to login as a provider user and follow the below steps.

1. Login into MyCloud with provider user credentials.
2. On the main menu bar, click **Service Catalog** tab.
3. Select **Manage Blueprint** from the available options.

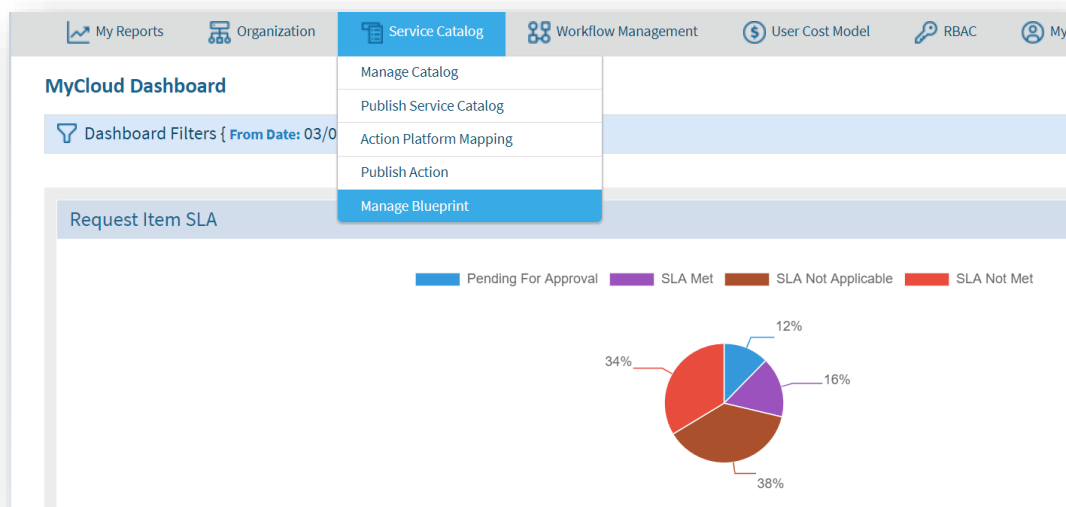


Figure 254 – Manage Blueprint menu

4. The **Manage Blueprint** page appears:

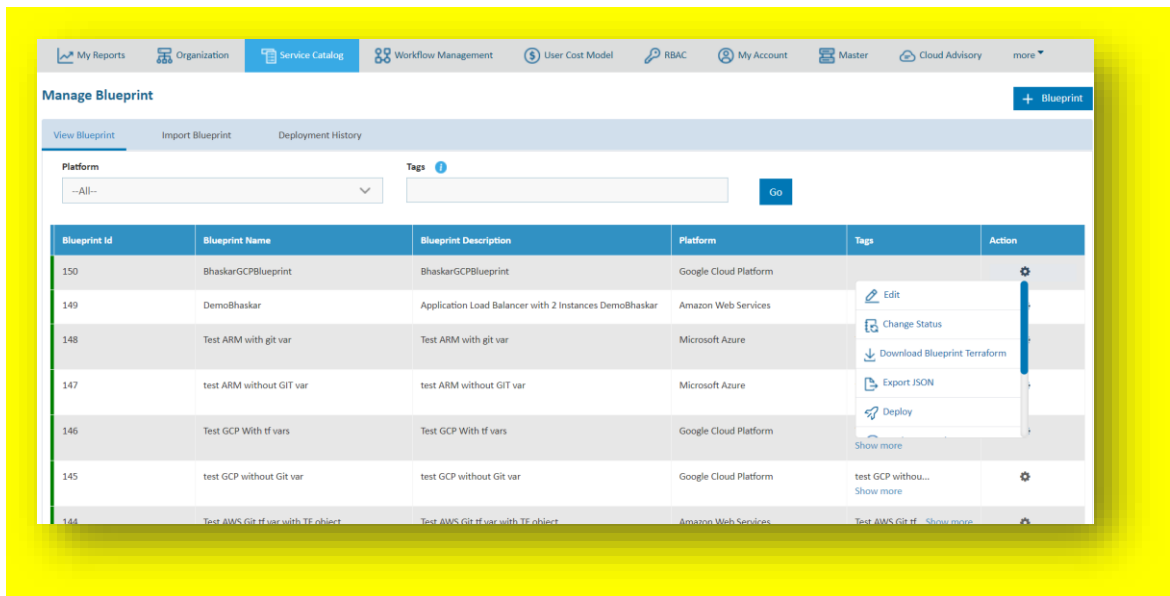


Figure 255 – Manage Blueprint Page

5. The Manage Blueprint page is the landing page for the blueprint module. This page has the options to create and list the blueprint. Under the list section, users have the options to import the blueprint and to view the deployment history, along with other actions. The Manage Blueprint page covers the following two areas of the blueprint module.

- Create New Blueprint
- Manage Existing Blueprints

3.1.4.1.2 Create New Blueprint

To create a new blueprint, click on the **+ Blueprint** icon on Manage Blueprint page. The user is directed to the Design Blueprint page.

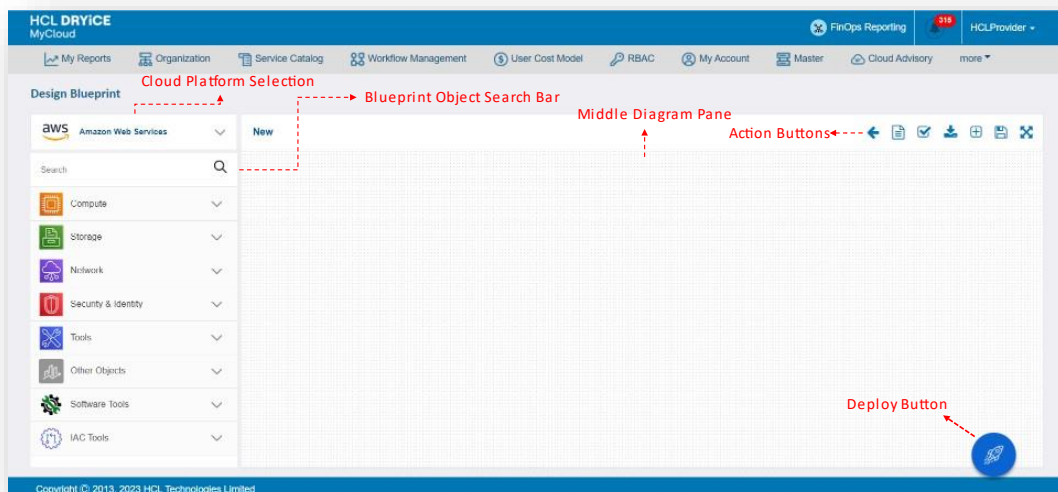


Figure 256 – Design Blueprint

The Design Blueprint page has the following functionalities:

- Cloud platform selection
- Blueprint object search bar
- Left object menu

- Middle diagram pane
- Right attribute window
- Deploy Blueprint (Icon)
- Action Buttons

3.1.4.1.2.1 Cloud Platform Selection

The Design Blueprint page has a platform selection dropdown where users can select the different configured cloud platforms supported by the Blueprint module.

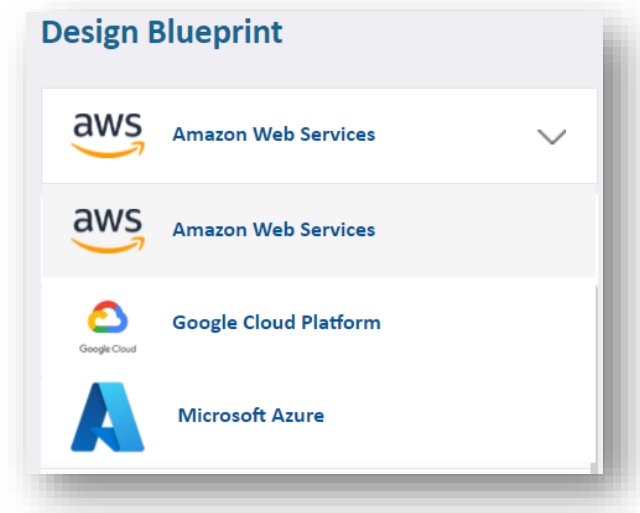


Figure 257 – Cloud Platform Selection

3.1.4.1.2.2 Blueprint Object Search Bar

The Design Blueprint page has the option to search for blueprint objects in the left menu. The left menu is filtered based on the input text in the search box. To search, enter any filter value in the search box and click the search icon (🔍).

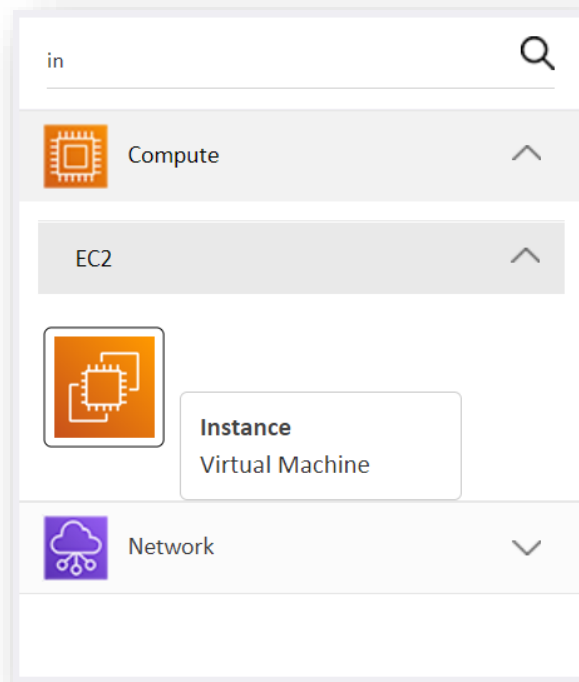


Figure 258 – Blueprint Object Search Bar

3.1.4.1.2.3 Left Object Menu

All the configured cloud resources (or objects) of the selected platform appear in the left menu on the Design Blueprint page. Cloud objects are arranged category-wise.

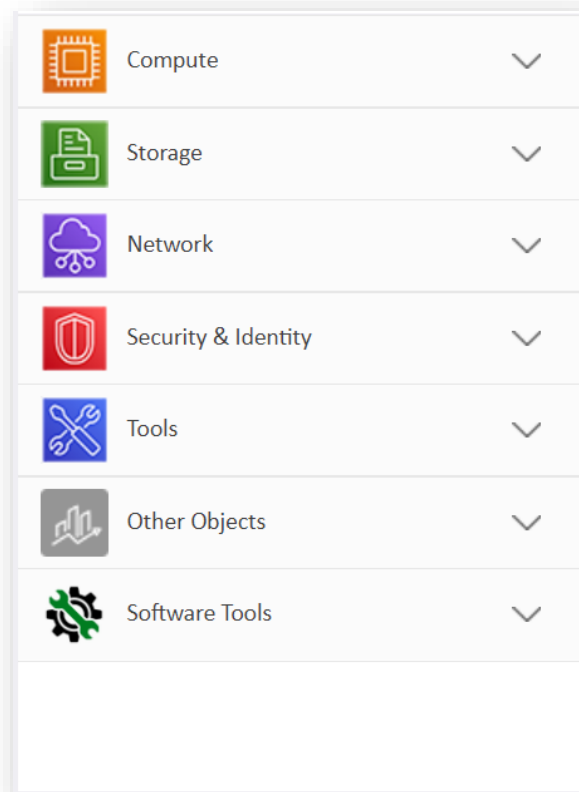


Figure 259 – Left Object Menu

To use the configured cloud objects, the user needs to take the following steps:

1. Click on desired category.
2. Click on desired subcategory.
3. Drag the object to the Middle Diagram Pane.

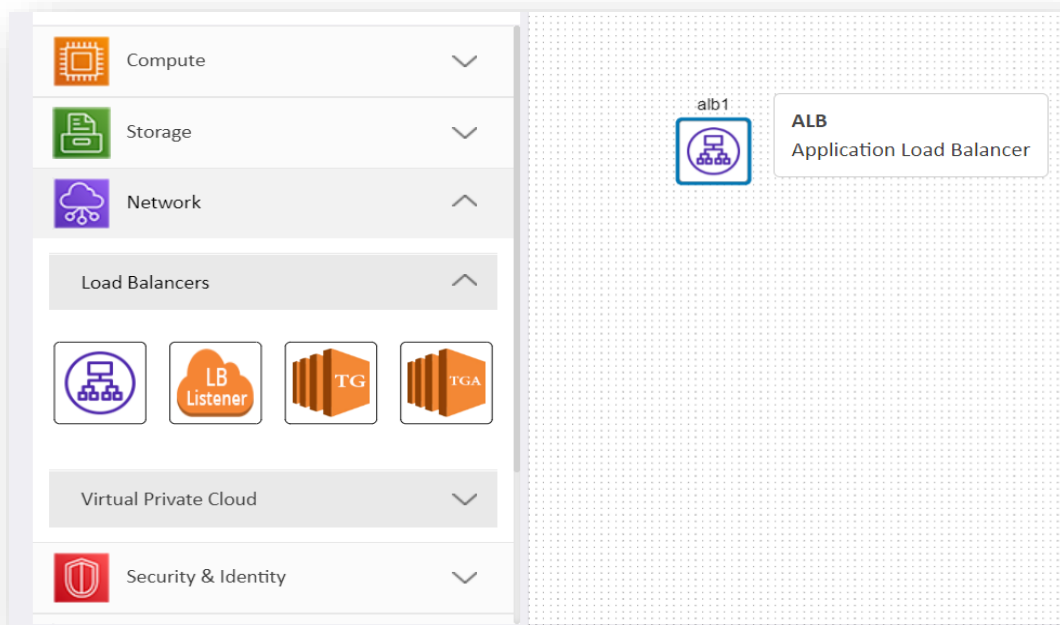


Figure 260 – Left Object Menu (Cont.)

3.1.4.1.2.4 Middle Diagram Pane

The middle diagram pane in the Design Blueprint page is the area where all the objects are dragged, and the blueprints are designed. It is a designer pane where a user can drag objects and map them to other objects.

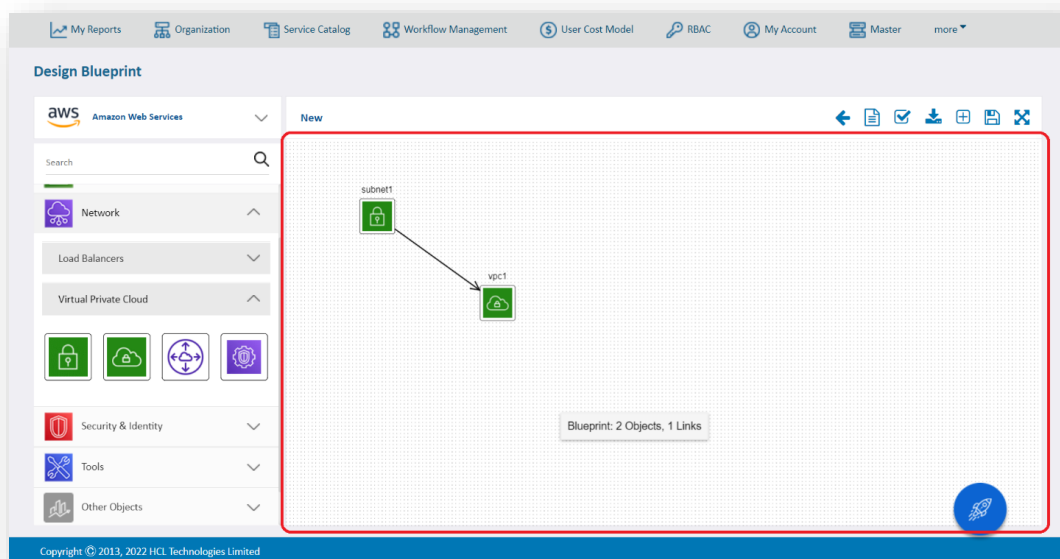


Figure 261 – Middle Diagram Pane

3.1.4.1.2.5 Right Attribute Pane

The right attribute pane appears on clicking any object in the diagram pane. It has an attribute list of the selected object. The cloud object attribute can be configured here for the selected object.

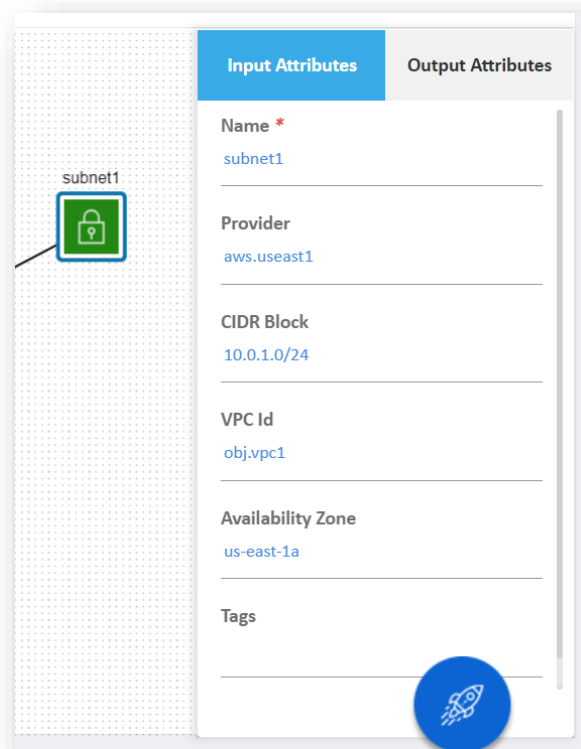


Figure 262 – Right Attribute Window

The right attribute window has two types of attributes. The user can configure both types of attributes by selecting the desired tab.

- Input attributes: This tab displays the input attributes for the selected object.

Input Attributes

Output Attributes

Name *

subnet1

Provider

aws.useast1

CIDR Block

10.0.1.0/24

VPC Id

obj.vpc1

Availability Zone

us-east-1a

Tags

Figure 263 – Input Attributes

- Output attributes: This tab displays the output attributes for the selected object. There is a checkbox for the attribute name. If this is unchecked, the output property will not be used to capture the output of blueprint execution.

Input Attributes Output Attributes

Check to include output variables.

☒ Subnet Id

output_subnet_id1

Figure 264 – Output Attributes

By default, the output property is output_subnet_id1 which is changeable. Ensure that the value is unique throughout the blueprint.

The attribute window has the following options for user input.

- Variable Mapping
- Provider Mapping
- Zone mapping
- Object Mapping/Multiple Object Mapping

3.1.4.1.2.5.1 Variable Mapping

The user has the option to map the variable to the object attribute which is configured to map variables. Variables can be created using Variables window from top menu. The list of variables shown for that attribute can be filtered by configuring mapping restrictions.

1. Click on the attribute textbox and type "var."

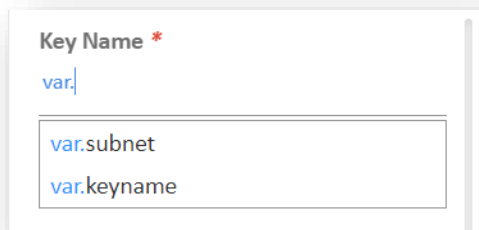


Figure 265 – Variable Mapping

2. Select the variables from the list.

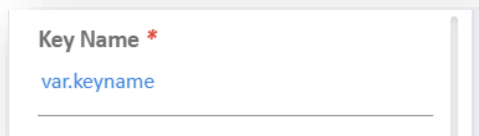


Figure 266 – Variable Mapping (Cont.)

3.1.4.1.2.5.2 Provider Mapping

The user has the option to map the provider to the object attribute which is configured to map providers. List of providers will be available based on the Cloud platform selected.

1. Click on the attribute textbox and type "AWS." for Amazon, and "google." for the GCP platform.
2. Select the provider from list.

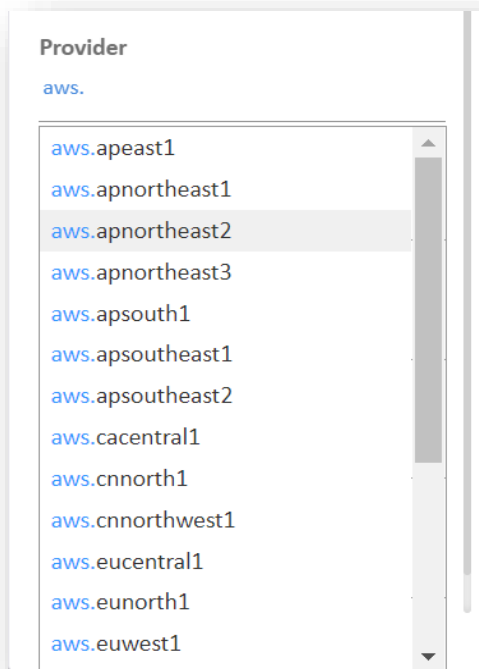


Figure 267 – Provider Mapping

3.1.4.1.2.5.3 Zone Mapping

The user has the option to map the zone (in case of AWS and GCP). The zone attribute is used to map the object. A list of zones is available based on the cloud platform selected.

1. Click on the attribute textbox and start typing the name of any zone. A list appears.
2. Select the desired zone from the list.

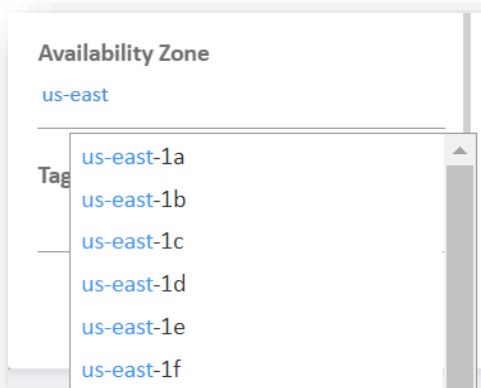


Figure 268 – Zone Mapping

3.1.4.1.2.5.4 Object Mapping/ Multiple Object mapping

The Object Mapping option allows users to map either single object or collection of objects to the object attribute which is configured to map objects.

Single Object Mapping:

1. Click on the attribute textbox and type "obj."
2. Select the object from the list.

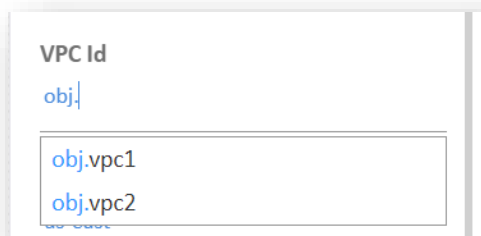


Figure 269 – Object Mapping

Multiple Object Mapping:

The Multiple Object Mapping option is used to map multiple objects to the object attribute which is configured to map multiple objects to it. There are three options available in multiple object mapping.

3. **Input object ID as text:** the user can input an existing object ID into the attribute field.

Figure 270 – Input object ID as text

4. Select the object from list.

Figure 271 – Select the Object from list

5. Map variables to the attributes for providing the objects' name at a later stage:
6. For mapping variables, the user needs to click on the bind variables checkbox next to the attributes.


Figure 272 – Object Mapping Using Variables

3.1.4.1.2.6 Action Buttons

The icons on the top of the Design Blueprint page are the action buttons and are the short cuts for taking the following actions:

- Expand/Collapse
- Save Blueprint
- Variables
- Download TF (Terraform) File
- Validate Blueprint
- New Blueprint
- Back to Manage Blueprint
- Blueprint Name textbox (Title)

3.1.4.1.2.6.1 Expand/Collapse

Clicking on the Expand/collapse icon  expands the Diagram Pane to cover the entire page. Clicking the icon again resizes the pane to its original position.

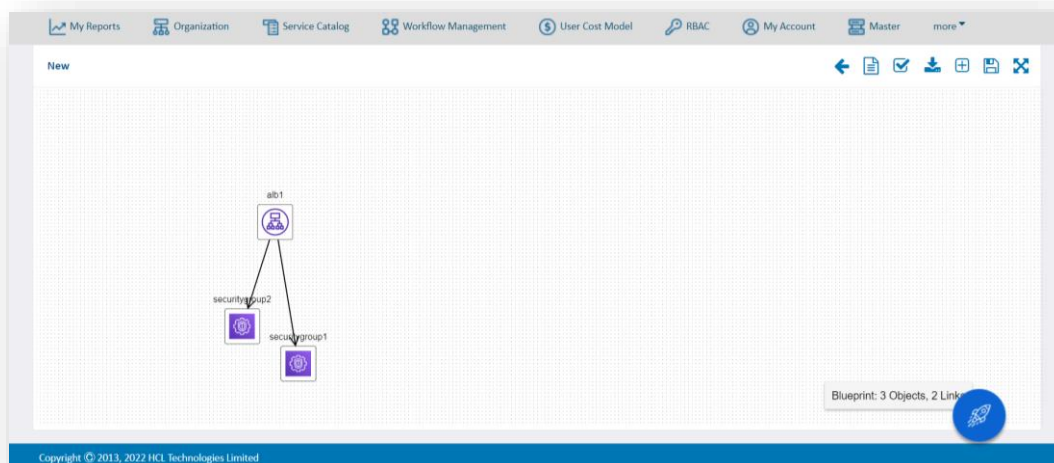


Figure 273 – Expand

3.1.4.1.2.6.2 Save Blueprint

Clicking the Save Blueprint icon  saves the newly created blueprint.

1. Click the Save Blueprint icon , the **Save Blueprint** dialog box appears.

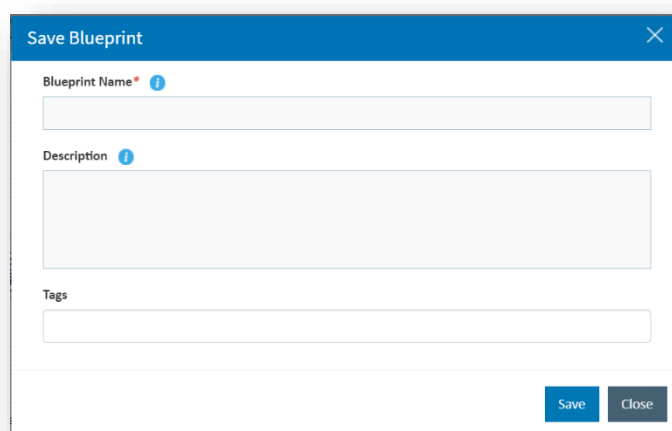


Figure 274 – Save Blueprint

2. The dialog box has the following fields that need to be populated:
 - Blueprint Name
 - Description
 - Tags
3. Click **Save**. A success message appears:



Figure 275 – Success Message

The '**Tags**' field in the Save Blueprint dialog box is to attach tags while saving the blueprint. These tags help users to search for an existing blueprint.

3.1.4.1.2.6.3 Variables

Create Variable:

To create a variable, take the following steps:

1. Click on **Variables** (+) icon.
2. Click on **Add variable** tab.

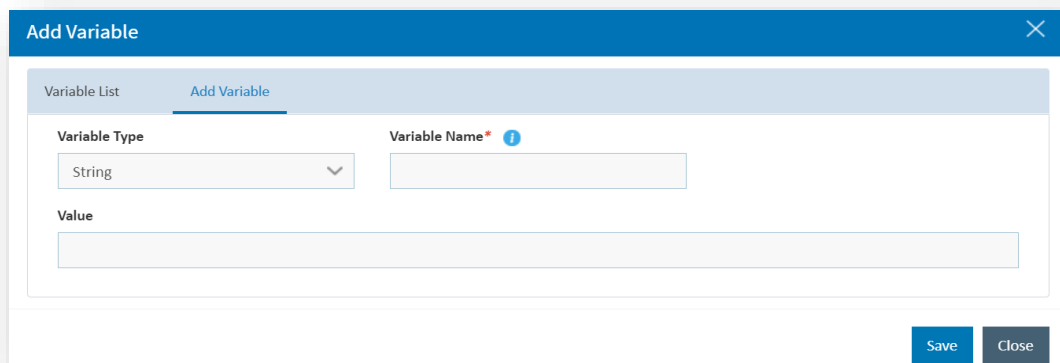


Figure 276 – Add Variable

3. Select the **Variable Type** from the dropdown.

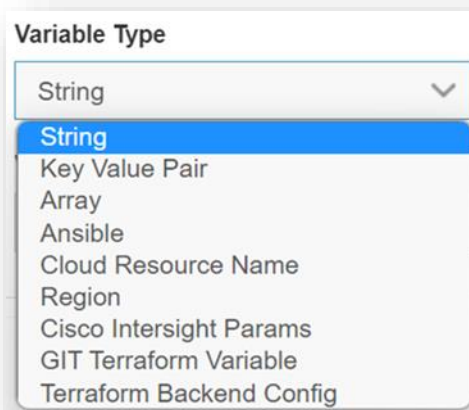


Figure 277 – Variable Type

4. Nine types of variables are available:
- String: This variable is used to map plain text values like Ids or any other input value to attributes.
 - Key Value Pair: This variable is used to map the Tags type of input to any attributes. The value of this variable type is passed in “key=Value” format.

The screenshot shows the 'Add Variable' dialog box. It has a blue header with a close button. Below the header, there are two tabs: 'Variable List' and 'Add Variable'. The 'Add Variable' tab is active. Inside the tab, there are three input fields: 'Variable Type' (a dropdown menu with 'Key Value Pair' selected), 'Variable Name*' (an empty text box), and 'Value' (a text box containing 'key=value'). At the bottom right, there are 'Save' and 'Close' buttons.

Figure 278 – Add Variable – Key Value Pair Variable

- Array: This variable is used to map array type of values to attributes.

The screenshot shows the 'Add Variable' dialog box. It has a blue header with a close button. Below the header, there are two tabs: 'Variable List' and 'Add Variable'. The 'Add Variable' tab is active. Inside the tab, there are three input fields: 'Variable Type' (a dropdown menu with 'Array' selected), 'Variable Name*' (an empty text box), and 'Value' (a text box containing 'subnet-01,subnet-02'). At the bottom right, there are 'Save' and 'Close' buttons.

Figure 279 –Add Variable – Array Variable

- Ansible: This variable is used to map Ansible Extra Vars types of values to attributes.

Add Variable

Variable List
Add Variable

Variable Type
Ansible
Variable Name*

Value

Serial No.	Name	Value	Lookup	Action
1	Name	Mycloud	<input type="checkbox"/>	+

Save
Close

Figure 280 – Add Variable – Ansible Variable

Add Variable

Variable List
Add Variable

Variable Type
Ansible
Variable Name*

Value

Serial No.	Name	Value	Lookup	Action
1	Name	instance1.id	<input checked="" type="checkbox"/>	+

Save
Close

Figure 281 – Add Variable – Ansible Variable (Cont.)

Add Variable

Variable List
Add Variable

Variable Name	Value	Variable Type	Action
myextravar3	[{"sn": 1, "Name": "Hostname", "Value": "... Show more	Ansible	
rbid		String	
subnetname	Subnet1	String	

Close

Figure 282 – Add Variable – Ansible Variable (Cont.)

- **Cloud Resource Name:** This variable is used to map the Cloud Resource (Object) Name attribute of an object. In other words, this type of variable is specially used for the name attribute of an object.
- **Region:** This variable is used to map default provider in case of AWS and GCP.

Add Variable

Variable List

Add Variable

Variable Type

Region

Variable Name*

awsregion

Value

Save

Close

Figure 283 – Add Variable – Region Variable

- **Cisco Intersight Params:** This variable is used to map Cisco Intersight Params types of values to attributes.

Add Variable

Variable List

Add Variable

Variable Type

Cisco Intersight Params

Variable Name*

CI Params

Value

Serial No.	Name	Value	KeyType	Lookup	Action
1	Name	host	String	<input type="checkbox"/>	<div>+</div>

Save

Close

Figure 284 – Add Variable – Cisco Intersight Params Variable

Add Variable

Variable List

Add Variable

Variable Type

Cisco Intersight Params

Variable Name*

Value

Serial No.	Name	Value	KeyType	Lookup	Action
1	<div>Name</div>	<div>instance1.id</div>	<div>Object</div>	<input checked="" type="checkbox"/>	<div>+</div>

Save

Close

Figure 285 – Add Variable – Cisco Intersight Params Variable (Cont.)

Add Variable

Variable List

Add Variable

Variable Name	Value	Variable Type	Action
civar	<div>[</div> <div>{</div> <div>"sn": 1,</div> <div>"Name": "Name",</div> <div>"Value": "outp... Show more</div>		

 CiscoIntersight | |

Close

Figure 286 – Add Variable – Cisco Intersight Params Variable (Cont.)

- Git Terraform Variable: This variable is used to map Git Terraform Variable types of values to "TF Variables" attribute of ExecuteTFGit object.

Add Variable

Variable List
Add Variable

Variable Type

GIT Terraform Variable

Variable Name*

TF Var

Value

Serial No.	KeyType	Name	Value	Lookup	Action
1	String	Name	host	<input type="checkbox"/>	+

Save
Close

Figure 287 - Add Variable - Git Terraform Variable

Add Variable

Variable List
Add Variable

Variable Type

GIT Terraform Variable

Variable Name*

TF Var

Value

Serial No.	KeyType	Name	Value	Lookup	Action
1	String	Name	playbook1.RunbookStatus	<input checked="" type="checkbox"/>	+

Save
Close

Figure 288 - Add Variable - Git Terraform Variable (Cont.)

Add Variable

Variable List

Add Variable

Variable Name	Value	Variable Type	Action
tfvar	<pre>[{ "sn": 1, "KeyType": "string", "Name": "Name", "Value": "output_runbook_status1", "Lookup": "Y" }]</pre> Show less	ExecuteTFParams	

Close

Figure 289 - Add Variable - Git Terraform Variable (Cont.)

- Terraform Backend Config: This variable is used to map Terraform Backend Config types of values to attributes.

Add Variable

Variable List

Add Variable

Variable Type

Variable Name*

Backend Type

Terraform Backend Config

BackendTypeVar

s3

Value

Serial No.	Name	Value
1	Bucket	
2	Region	
3	Access_Key	

Save

Close

Figure 290 - Add Variable - Terraform Backend Config Variable

Add Variable

Variable List

Add Variable

Variable Type

Variable Name*

Backend Type

Terraform Backend Config

BackendTypeVar

blob

Value

Serial No.	Name	Value
1	StorageAccountName	
2	ContainerName	
3	Key	

Save

Close

Figure 291 - Add Variable - Terraform Backend Config Variable (Cont.)

Add Variable

Variable List

Add Variable

Variable Type

Variable Name*

Backend Type

Terraform Backend Config

BackendTypeVar

local

Save

Close

Figure 292 - Add Variable - Terraform Backend Config Variable (Cont.)

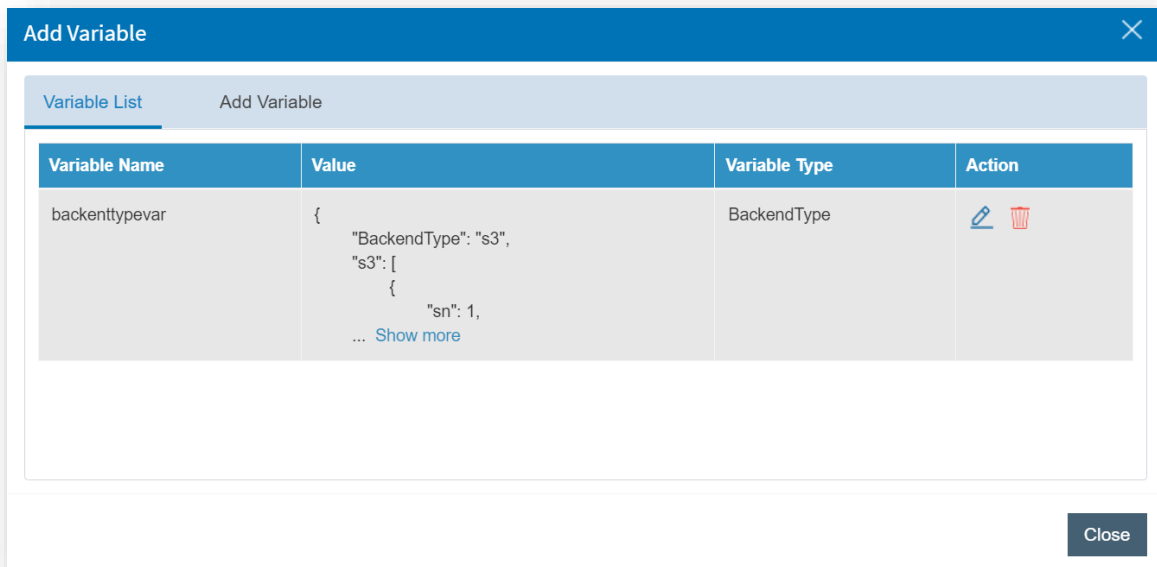


Figure 293 – Add Variable – Terraform Backend Config Variable (Cont.)

- Once the Variable type is selected, enter the **Variable Name** and **Value**.
- Click on **Save** button. A success message appears:

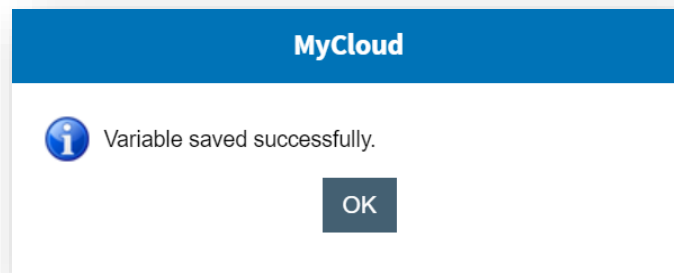


Figure 294 – Success Message

Edit Variable:

The Edit Variables option is available only for the unmapped variables. If the variables are mapped to the attributes the edit option does not appear. To edit a variable, perform the following steps:

- Click on the Variables icon.
- Select the **Variable List** tab.
- Click on the Edit icon corresponding to the variable to be edited.

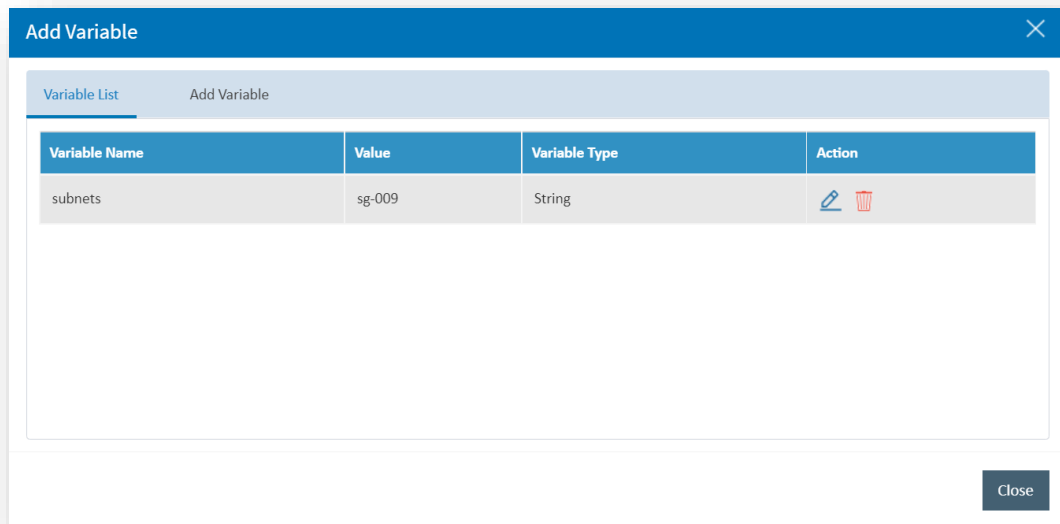


Figure 295 – Edit Variable

4. Change the **Value** and Click on **Update** button.

The Variable **Type** and **Name** are not editable.

Delete Variables:

The Delete Variables option is available only for the unmapped variables. If the variables are mapped to the attributes the delete option does not appear. To delete a variable, perform the following steps:

1. Click on the **Variables** icon.
2. Select the Variable List tab.
3. Click on the Delete icon corresponding to the variable to be deleted.

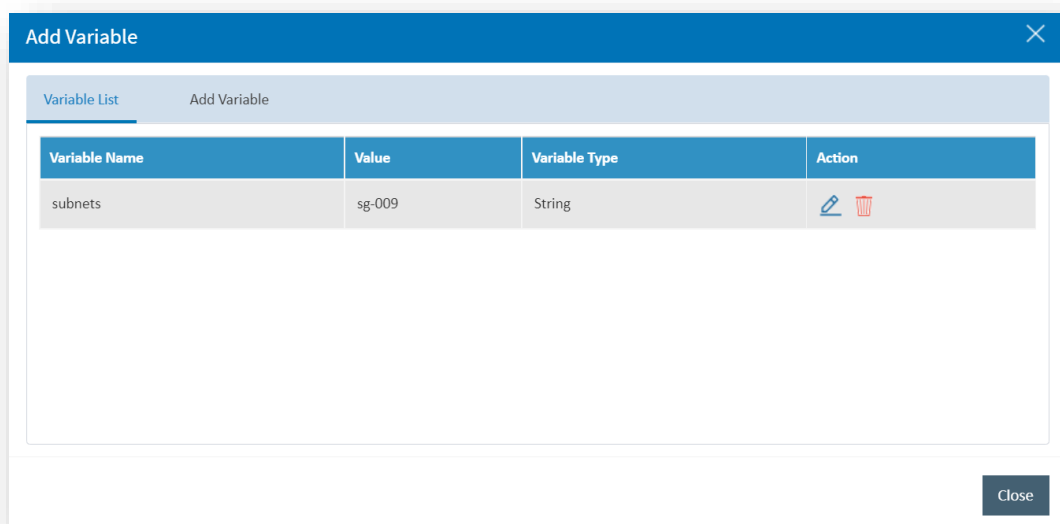
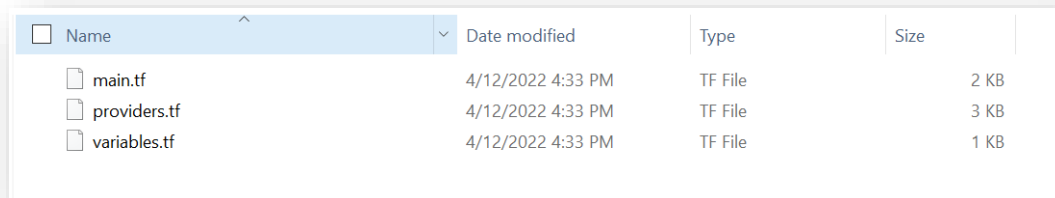


Figure 296 – Delete Variable

3.1.4.1.2.6.4 Download TF File

1. Click on **Download TF File** () icon.

2. A zip file with the blueprint name is downloaded. The file contains the main.tf, variable.tf, and provider.tf files inside it.




<input type="checkbox"/> Name	Date modified	Type	Size
main.tf	4/12/2022 4:33 PM	TF File	2 KB
providers.tf	4/12/2022 4:33 PM	TF File	3 KB
variables.tf	4/12/2022 4:33 PM	TF File	1 KB

Figure 297 – Download TF File

3.1.4.1.2.6.5 Validate Blueprint

This option is used to validate the attribute data entered for each object on the blueprint diagram against the configured validation data for each attribute.

1. Click on Validate attributes  icon.
2. A Validation Summary dialog box appears.

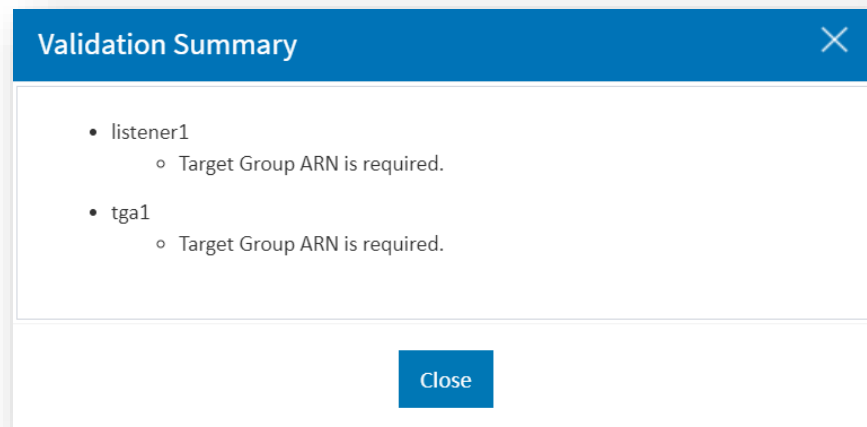


Figure 298 – Validation Summary

3. On successful validation, the following success message appears:

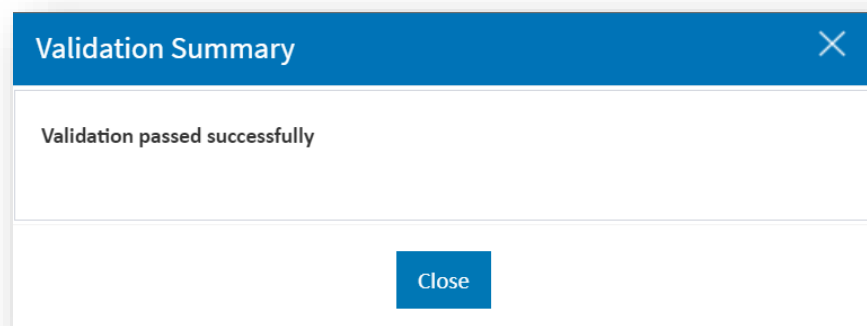



Figure 299 – Validation Success Message

3.1.4.1.2.6.6 New Blueprint

Clicking the New Blueprint icon  opens a new blank blueprint window to create a new blueprint.

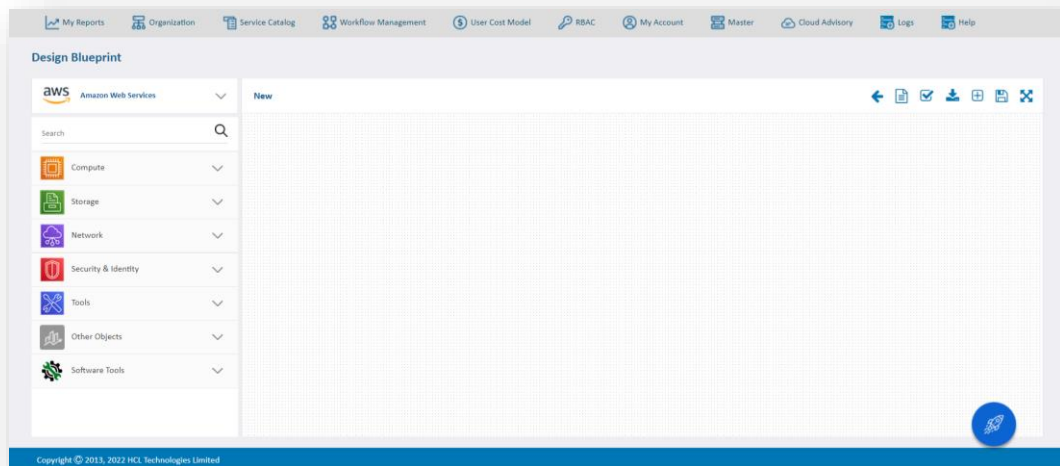


Figure 300 – New Blueprint

For a new blueprint, the default name is **"New"**. Once the blueprint is saved with a name, that name appears as the blueprint title.

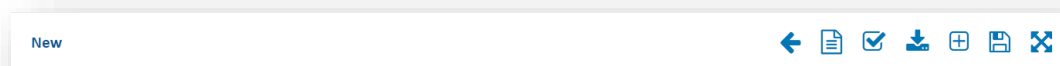



Figure 301 – Blueprint Title

3.1.4.1.2.6.7 Back to Manage Blueprint

Clicking on the Back to Manage Blueprint  icon redirects users to the Manage Blueprint page.

3.1.4.1.2.7 Deploy Blueprint

The Deploy Blueprint icon  on the bottom right allows users to deploy the blueprints through the Design Blueprint page.

For detailed information about the deployment process of blueprints, refer to [Deployment from the Design Blueprint page](#).

3.1.4.1.3 Manage Existing Blueprints

All the existing blueprints are listed on the Manage Blueprint page and are managed using the following options available on the page itself:

- View Blueprint
- Import Blueprint
- Deployment History

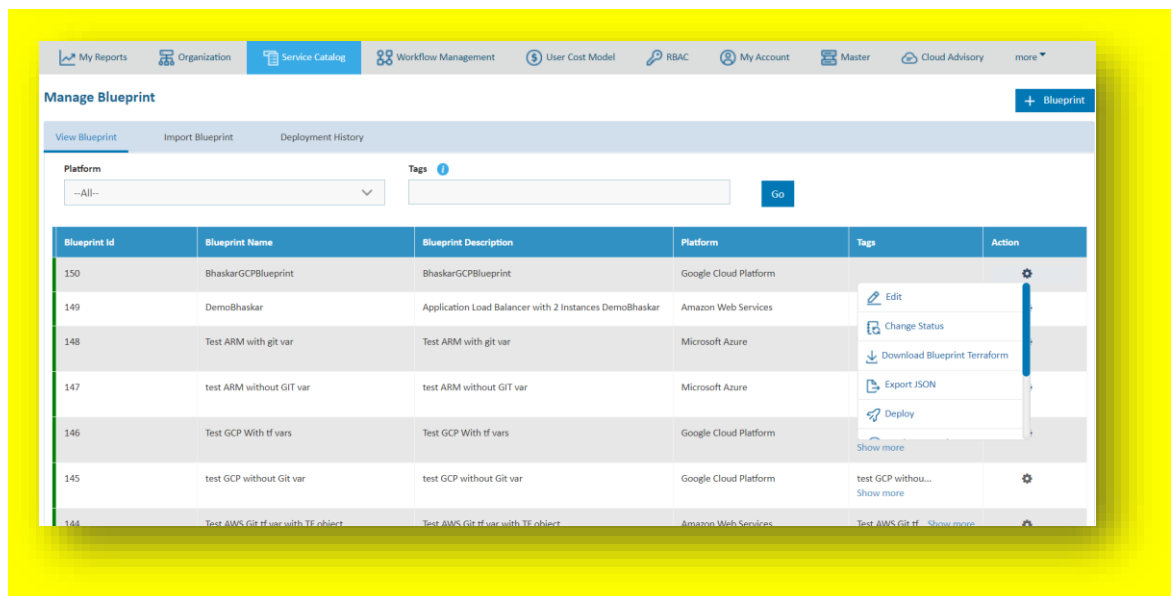


Figure 302 – Manage Blueprint Page

3.1.4.1.3.1 View Blueprint

The View Blueprint tab lists all the existing blueprints and displays various options associated with each blueprint. The user can search for specific blueprints by using the filter option.

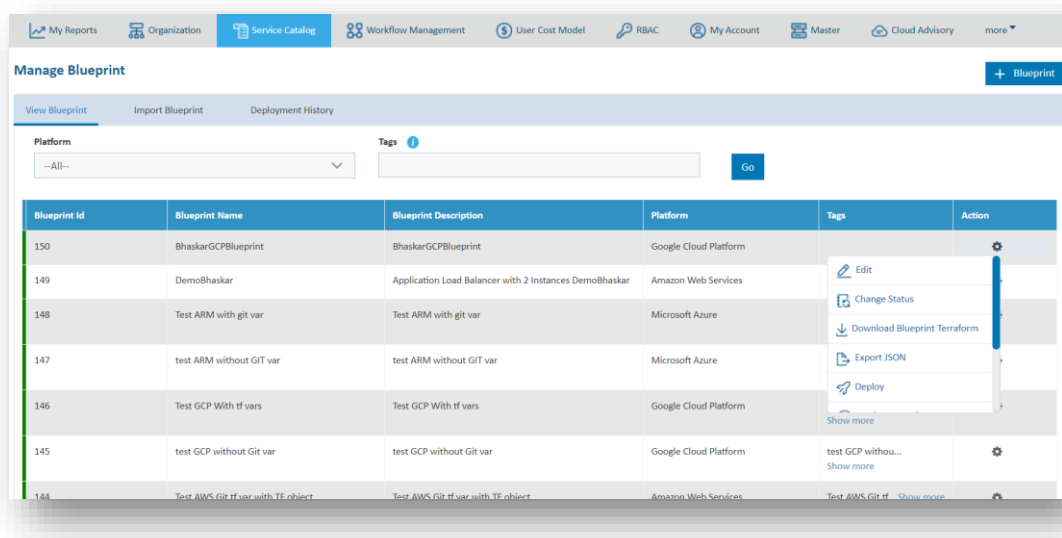


Figure 303 – View Blueprint

Refer the below table to understand the columns in the above figure:

Table 58 – View Blueprint Table Columns

Fields	Description
Blueprint Id	Displays the Id of the listed blueprint. This is used in process template for the execution of the Blueprint.
Blueprint Name	Displays the Name of the listed blueprint.
Blueprint Description	Displays the Description of the listed blueprint.
Platform	Displays the Platform of the listed blueprint.
Tags	Displays the tags associated with the listed blueprint.
Status	Displays the Active/Inactive status of the listed blueprint.
Action	Displays the actions that can be performed on the listed blueprints.

The search can be filtered by selecting the Platform and by providing Tags associated with the blueprints. By default, the page displays data for all the platforms.

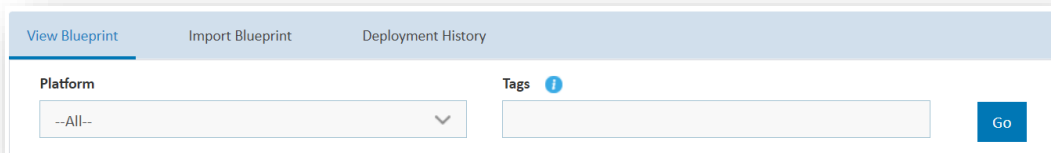


Figure 304 – View Blueprint Filter Option

The Action column displays the actions that can be performed on each blueprint.

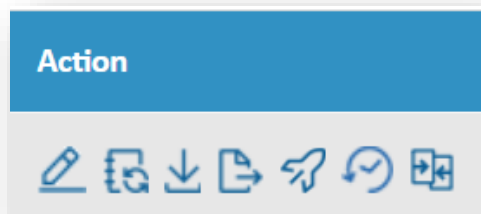



Figure 305 – Options in the Action Column

Below actions can be performed to manage an existing blueprint:

- Edit
- Change Status
- Download Blueprint Terraform
- Export JSON
- Deploy
- Deployment History
- Compare Blueprint Files

3.1.4.1.3.1.1 Edit

To edit a blueprint, follow the below steps:

1. From the list of the existing blueprints under the **View Blueprint** tab, click on the edit icon  corresponding to the blueprint to be edited.
2. It opens the **Design Blueprint** page in edit mode loaded with the selected blueprint in the diagram pane along with all the attributes and variables.

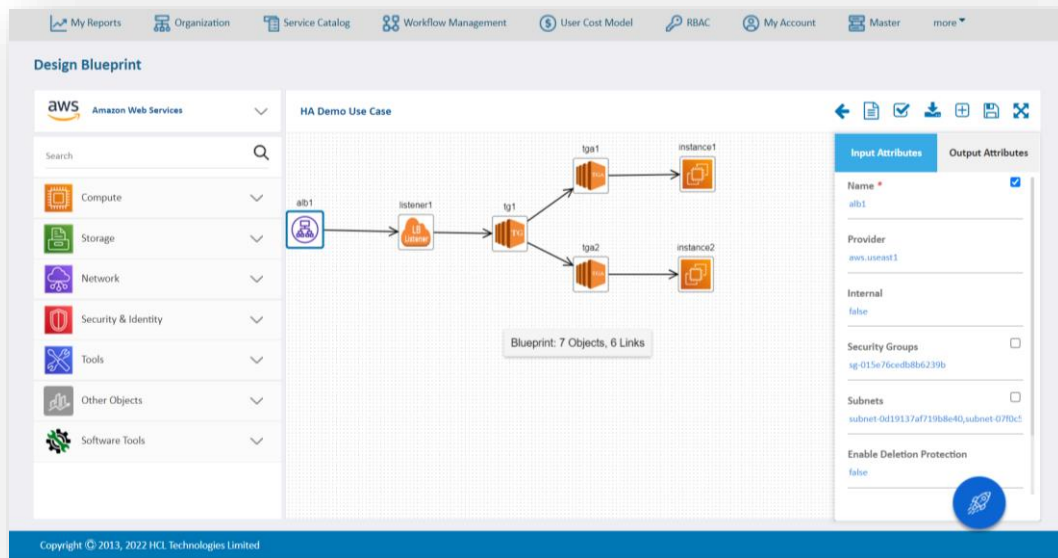

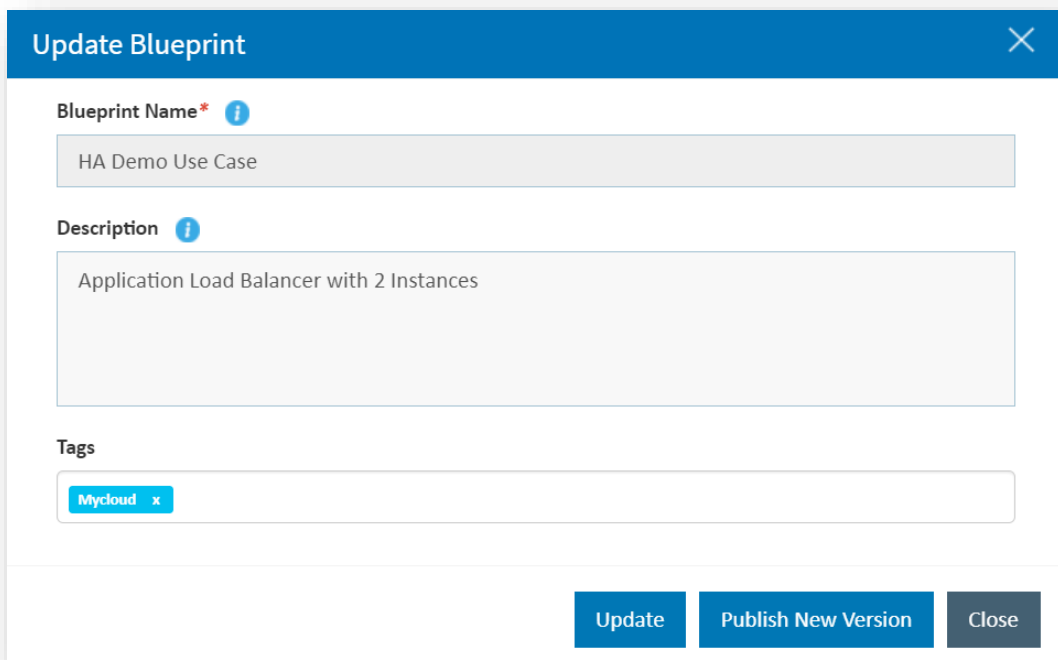


Figure 306 – Edit Blueprint

3. Make the required changes and click on the Save  action button.
4. The **Update Blueprint** dialog box appears.



The 'Update Blueprint' dialog box is shown. It has a title bar with the text 'Update Blueprint' and a close button. The main content area includes:

- Blueprint Name***: A text field containing 'HA Demo Use Case'.
- Description**: A text area containing 'Application Load Balancer with 2 Instances'.
- Tags**: A list of tags, currently showing 'Mycloud' with a close button.

 At the bottom right, there are three buttons: 'Update', 'Publish New Version', and 'Close'.

Figure 307 – Update Blueprint

5. On the Update Blueprint screen, users can add or remove tags while updating the blueprint. This can be used to search for the created blueprint with the help of tags attached to it under the **View blueprint** tab.

Only Blueprint **Description** and **Tags** fields are editable here.

6. This dialog has two options for updating the blueprint.
 - Update: Clicking on Update button updates the selected blueprint and displays the following success message:

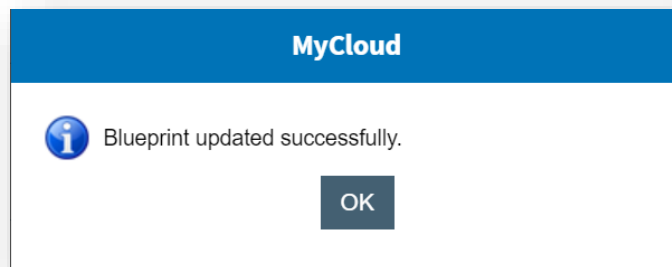


Figure 308 – Success Message for Update

- Publish New Version: Selecting this option creates a new version of the blueprint along with all the changes and saves it in the table with the new version number with column 'IsPublished' as 'Y'. The old copy of the blueprint is marked 'IsPublished' as 'N' in the table.

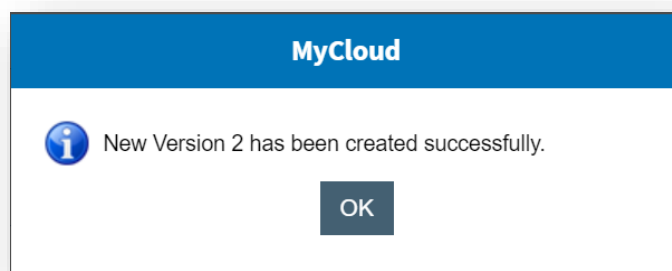



Figure 309 – Success Message for a New Version Update

3.1.4.1.3.1.2 Change Status

The option is to mark the listed blueprint status as Active/Inactive.

1. Click on the **Change Status** icon  corresponding to the desired blueprint.
2. A confirmation dialog appears to confirm the action.

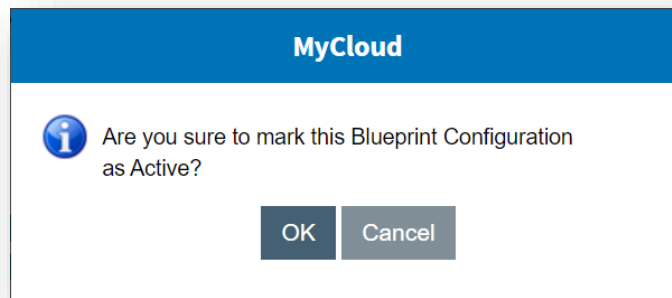


Figure 310 – Change Status Confirmation

- On clicking **OK**, the status of the blueprint is changed to Active or Inactive and a success message appears as follows:

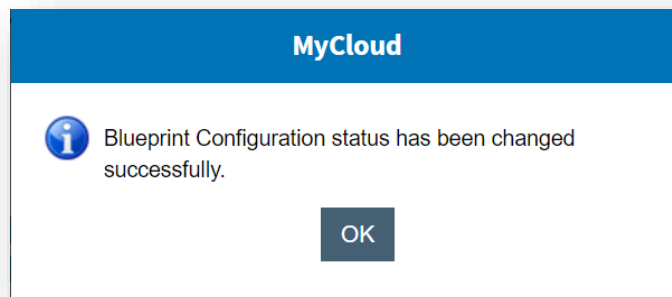


Figure 311 – Success Message for Status Change

- If the status is changed to "Active," it is marked with a green dot in the table.



Blueprint Id	Blueprint Name	Blueprint Description	Platform	Tags	Action
120	Backendtypevalidationcheck	Backendtypevalidationcheck	Amazon Web Services	Backendtypevali... Show more	 

Figure 312 – Status changed to 'Active'

- If the status is changed to "Inactive," it is marked with a red dot in the table.


Blueprint Id	Blueprint Name	Blueprint Description	Platform	Tags	Action
140	test GCP Var 00123	test GCP Var 00123	Google Cloud Platform	test GCP Var 00... Show more	 

Figure 313 – Status changed to 'Inactive'

For an Inactive Blueprint, the **Edit**, **Deploy** and **Deployment History** options are not available under the Action tab.

3.1.4.1.3.1.3 Download Blueprint Terraform


This option is used to download the blueprint TF file.

- Click on the **Download Blueprint Terraform** icon  corresponding to the desired blueprint.
- This downloads a zip file with the blueprint name.

- For further steps to download Blueprint Terraform, please refer to Download TF File.

3.1.4.1.3.1.4 Export JSON

This option is used to export the blueprint JSON that can be imported later to any other environment.

- To export the blueprint JSON, click on the  icon corresponding to the blueprint.
- A single JSON file with the blueprint name is downloaded. It has the blueprint data in JSON format.

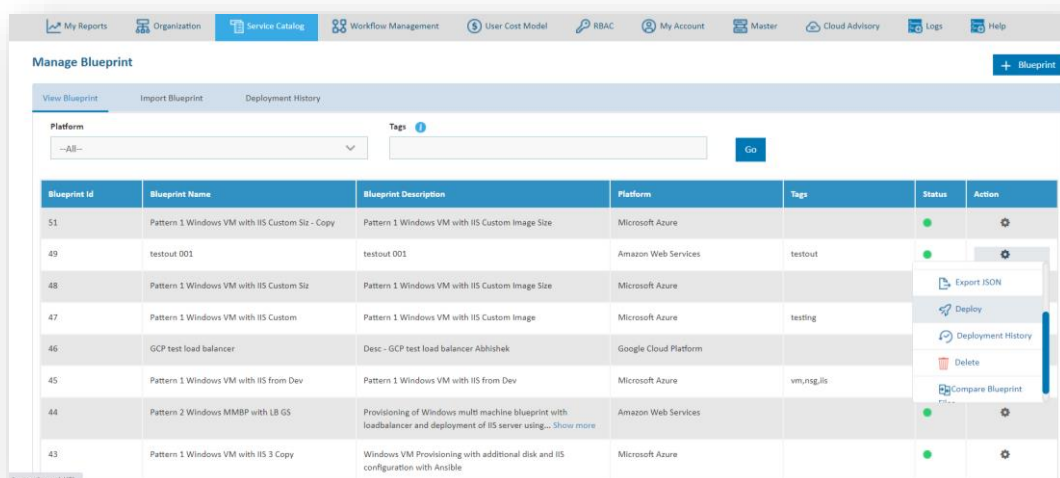
```
1 {
2   "BlueprintName": "Custom Blueprint",
3   "BPDESC": "Blueprint to showcase LB and SG",
4   "BlueprintJSON": "{\"diagramJson\": { \"class\": \"GraphLinksModel\", \"nodeDataArray\": [ { \"category\": \"security_group\", \"name\": \"secu",
5   "Platformcode": "AMAZN",
6   "Platform": "Amazon Web Services",
7   "Tags": "LB,SG"
8 }
```

Figure 314 – Exported JSON File

3.1.4.1.3.1.5 Deploy

Another way of deploying a blueprint is by clicking the Deploy icon under the Action column on the View Blueprint page.

For detailed information about the deployment process of blueprints, refer to [Deployment from the View Blueprint tab](#).











Blueprint Id	Blueprint Name	Blueprint Description	Platform	Tags	Status	Action
51	Pattern 1 Windows VM with IIS Custom Siz - Copy	Pattern 1 Windows VM with IIS Custom Image Size	Microsoft Azure		●	
49	testout 001	testout 001	Amazon Web Services	testout	●	
48	Pattern 1 Windows VM with IIS Custom Siz	Pattern 1 Windows VM with IIS Custom Image Size	Microsoft Azure		●	
47	Pattern 1 Windows VM with IIS Custom	Pattern 1 Windows VM with IIS Custom Image	Microsoft Azure	testing	●	
46	GCP test load balancer	Desc - GCP test load balancer Abhishek	Google Cloud Platform		●	
45	Pattern 1 Windows VM with IIS from Dev	Pattern 1 Windows VM with IIS from Dev	Microsoft Azure	vm,ng,ils	●	
44	Pattern 2 Windows MMBP with LB GS	Provisioning of Windows multi machine blueprint with loadbalancer and deployment of iis server using... Show more	Amazon Web Services		●	
43	Pattern 1 Windows VM with IIS 3 Copy	Windows VM Provisioning with additional disk and IIS configuration with Ansible	Microsoft Azure		●	

Figure 315 – Deploy Blueprint from View Blueprint Page

3.1.4.1.3.1.6 Deployment History

This option is used to view the deployment history of the listed blueprints. This option enables the user to view the Deployment History tab of the Manage Blueprint Page. The Deployment History tab cannot be directly accessed. It can be accessed through this action item of listed blueprints.

- Click on Deployment History icon .
- This takes the user to the **Deployment History** tab where he/she can view the deployment history of the blueprint.

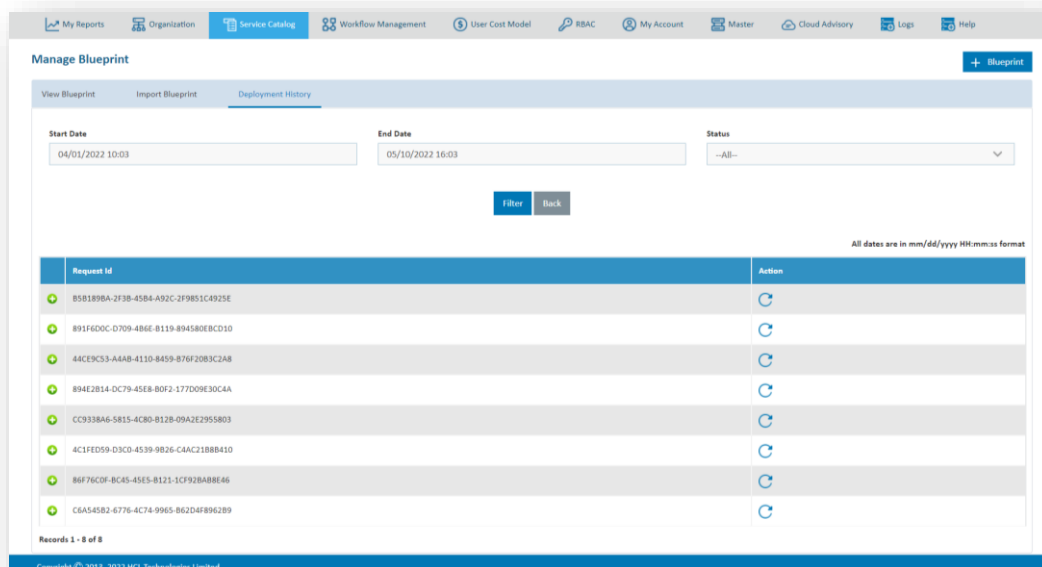



Figure 316 – Deployment History

- The Deployment History can be filtered by specifying the **Start Date**, **End Date**, and **Status**, then clicking the **Filter** button.
- Refer the below table to understand the columns in the above figure.

Table 59 – Deployment History Table Columns

Fields	Description
Request Id	Displays the Request Id of the blueprint deployment. On deployment of the blueprint, a request id is generated.
Action	Displays the actions that can be taken against the listed deployment request id. e.g.: Rerun.

- On expanding the listed request Id by clicking on the plus icon , a drill down table opens. This table displays the deployment request data. All the tasks created for Blueprint Deployment are listed under the given Request Id created for deployment. Tasks are grouped and listed under the Request Id created for deployment.

All dates are in mm/dd/yyyy HH:mm:ss format

Request Id	Action
F8D514D5-664E-4650-A157-1BE4E0B65326	

Request Id	Status	Date Executed	Result
F8D514D5-664E-4650-A157-1BE4E0B65326	Completed	04/07/2022 15:51:39	<pre>[{"OutputVariableName":"output_instance_id1","OutputVariableValue":"i-0868216c11bc16748"}, {"OutputVariableName":"output_instance_id2","OutputVariableValue":"i-059b6efa75a055291"}, {"OutputVariableName":"output_lb_arn1","OutputVariableValue":"arn:aws:elasticloadbalancing:us-east-1:016701022611:loadbalancer/app/privateLoadBalancer/20ce761f0fd15340"}, {"OutputVariableName":"output_sg_id1","OutputVariableValue":"sg-0d8de90d9acf2f22b"}, {"OutputVariableName":"output_sg_id2","OutputVariableValue":"sg-0b22dc5fd77e0f8c1"}, {"OutputVariableName":"output_subnet_id1","OutputVariableValue":"subnet-0325496bf2fc00f81"}, {"OutputVariableName":"output_subnet_id2","OutputVariableValue":"subnet-0c7a89e37ff673220"}, {"OutputVariableName":"output_vpc_id1","OutputVariableValue":"vpc-0d16e304a329054e5"}]</pre> Show less
7D568DAC-1ABF-4692-A850-67C91D7D6EC5			
92F3E757-70EA-4FFA-930B-124561179A11			
23531BE3-1B76-4C51-BE6B-572C32F677EE			
B87E5DD7-0A3D-4A2A-A8CB-EDCB9D684701			

Figure 317 – Deployment History Drill Down

6. Refer the below table to understand the columns in the above figure:

Table 60 – Deployment History Drill Down Table Field

Fields	Description
Request Id	Displays the Request Id of the blueprint deployment. On deployment of the blueprint, a request id is generated.
Status	Displays the status (Completed/InProgress/Error) of the blueprint deployment request.
Date Executed	Displays the Execution Date of the blueprint deployment request.
Result	Displays the Result of the blueprint deployment request.
Action	Displays the actions that can be taken against the listed deployment request id. e.g.: Rerun .

7. Further expanding the listed Request Id by clicking again on the plus icon opens the complete execution log of the blueprint deployment task.

Request Id	Status	Date Executed	Result
F8D514D5-664E-4650-A157-1BE4E0B65326	Completed	04/07/2022 15:51:39	["Output":{"OutputVariableName":"output_instance_id1","OutputVariableValue":"i-0868216c11bc16748"},{"OutputVariableName":"output_instance_id2","OutputVariableValue":"i-0868216c11bc16748"}]

Logs for TaskId: 899

04/07/2022 17:47:07 : End: CreateInit.

04/07/2022 17:47:07 : Result:
Initializing the backend...

Initializing provider plugins...

- Finding hashicorp/aws versions matching "3.61.0"...
- Installing hashicorp/aws v3.61.0...
- Installed hashicorp/aws v3.61.0 (self-signed, key ID 343650947207468F)

Partner and community providers are signed by their developers.
If you'd like to know more about provider signing, you can read about it here:
<https://www.terraform.io/docs/plugins/signing.html>

Terraform has created a lock file .terraform.lock.hcl to record the provider selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.


If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

Figure 318 –Deployment Execution Log

- One request can have multiple tasks that are listed in the drill down logs page as shown below:


04/05/2022 15:58:29 : Terraform init:	Press F11 to exit full screen
04/05/2022 15:58:29 : Start: CreateInit.	
04/05/2022 15:58:29 : End: CreateFileByContent	
04/05/2022 15:58:29 : Start: CreateFileByContent	
04/05/2022 15:58:29 : End: GetAuthToken	
04/05/2022 15:58:29 : Start: GetAuthToken	
04/05/2022 15:53:54 : End: UpdateRequest	
04/05/2022 15:53:54 : Result: {	
"output_instance_id1": {	
"sensitive": false,	
"type": "string",	
"value": "i-0c33fe7e62116455b"	
},	
"output_instance_id2": {	
"sensitive": false,	
"type": "string",	
"value": "i-03625e6c5777501a3"	
},	
"output_lb_arn1": {	
"sensitive": false,	
"type": "string",	
"value": "arn:aws:elasticloadbalancing:us-east-1:016701022611:loadbalancer/app/privateLoadBalancer/c101c9641cc3a8da"	
},	
"output_sg_id1": {	
"sensitive": false,	
"type": "string",	
"value": "sg-011b6cf734ff4b341"	

Figure 319 – Multiple Tasks Listed under Deployment History Drill Down

- The **Re-Run** functionality allows users to re-run a deployment request multiple time. To re-run the deployment request, click on the **Re-Run** icon  located under the **Action** column in the **Deployment History** table.
- To learn more about the Re-Run Blueprint functionality, please refer to the section [Re-Run Blueprint](#).

3.1.4.1.3.1.7 Delete Blueprint

The Delete icon under the Action column in the View Blueprint tab allows users to delete the listed blueprint.

1. Click on the Delete icon  corresponding to the blueprint to be deleted.
2. A confirmation message appears as follows:

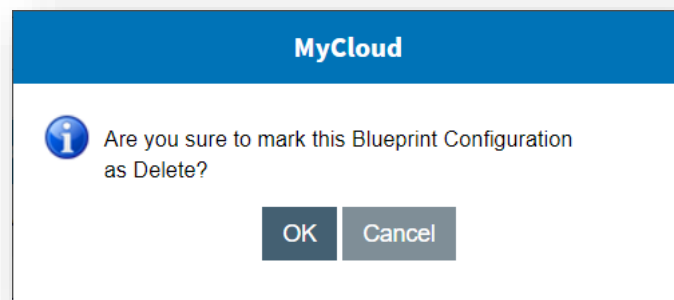


Figure 320 – Confirmation Message

3. Click **OK** to confirm. A success message appears as follows:

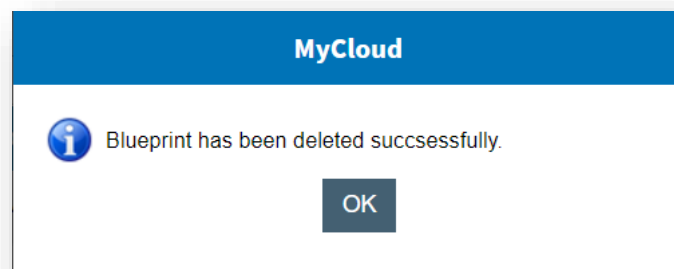


Figure 321 – Success Message

3.1.4.1.3.2 Import Blueprint

This tab allows the user to import the exported blueprint JSON. It is useful to migrate the created blueprint from one environment to another.

1. On the **Mange Blueprint** page, click on the **Import Blueprint** tab.
2. Browse for the exported blueprint JSON file by clicking on **Choose a file** button.

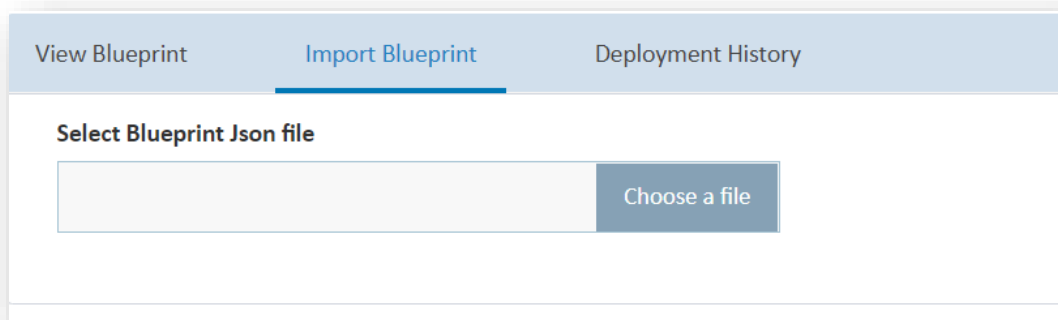


Figure 322 – Import Blueprint

3. The following dialog box appears and allows the user to choose the file:

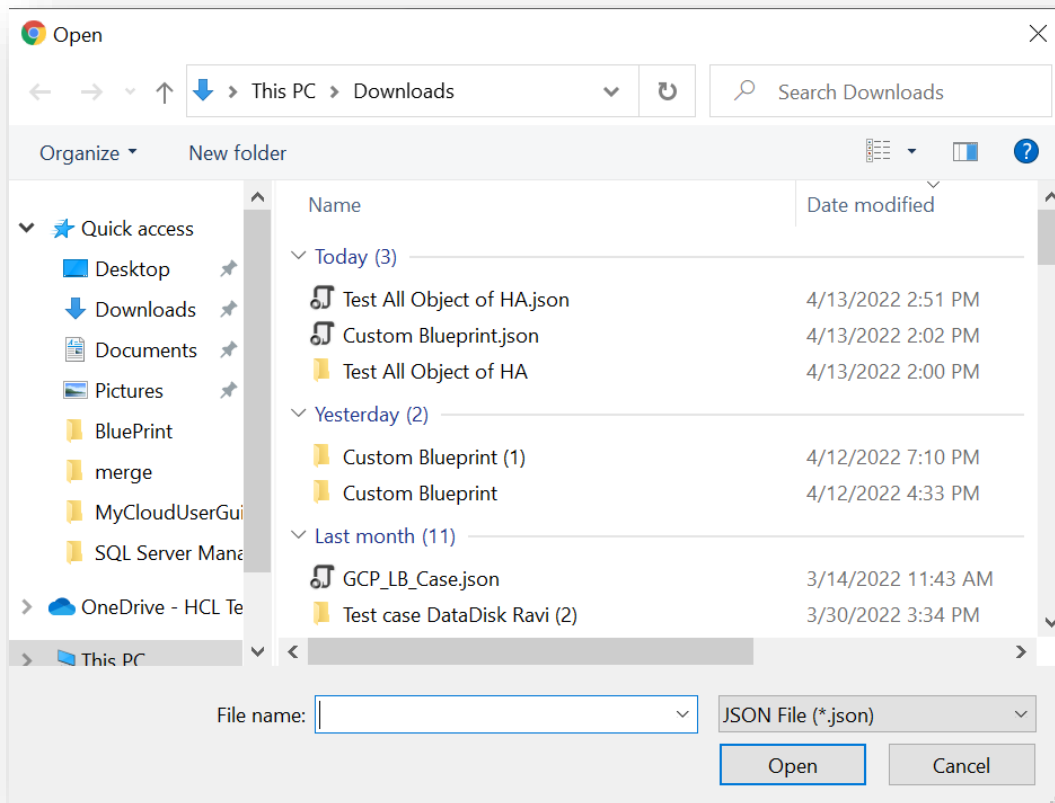


Figure 323 – Import Blueprint Choose File

4. Select the Blueprint JSON file.
5. The file gets uploaded for confirmation with the blueprint JSON data, **Blueprint Name**, **Blueprint Description**, and **Platform**.

For some files, the Platform field is disabled. This signifies that the platform for the imported document cannot be changed while importing the blueprint. It automatically detects and imports the blueprint of the listed platform.

6. Once the user clicks on the Import button, the blueprint gets imported successfully and starts appearing in the blueprint list on the **View Blueprint** page.

Blueprint Id	Blueprint Name	Blueprint Description	Platform	Tags	Status	Action
205	Custom Blueprint	Blueprint to showcase LB and SG	Amazon Web Services	LB,SG	●	Edit Delete Download Refresh Share
204	Test All Object of HA	Testing All Object of HA	Amazon Web Services	lb,instance,tar... Show more	●	Edit Delete Download Refresh Share

Figure 324 – Imported Blueprint listed in View Blueprint

3.1.4.1.3.3 Deployment History

The Deployment History tab is not directly accessible; however, it can be accessed via the Deployment History action item of listed blueprints in the View Blueprint section of the Manage Blueprint page. For details, please refer to the [Deployment History](#) section.

3.1.4.1.4 Enabling Ansible in Blueprint

The Ansible objects are enabled in Blueprint using the Software Tools option in the Left Object Menu. This software tool is independent of Amazon, Azure, GCP, or VMware and holds the Ansible objects in the blueprint.

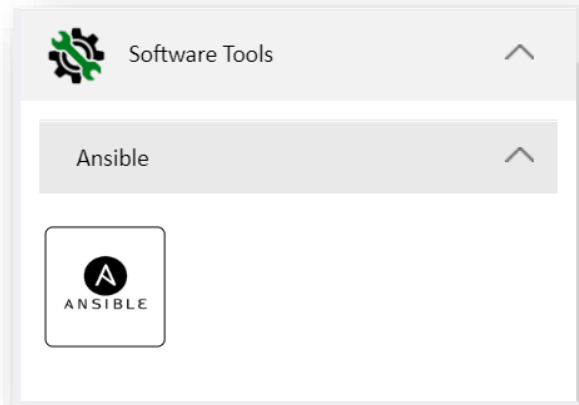


Figure 325 – Ansible Object

1. Drag Ansible object to **Diagram Pane** and create the use case.

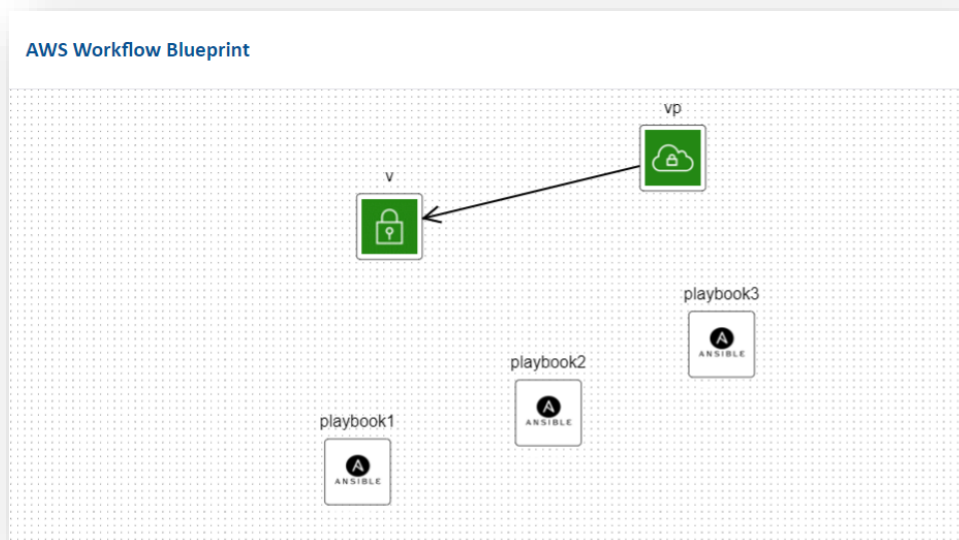


Figure 326 – Ansible Object on Blueprint Diagram

2. In the Right Attribute Panel, select the Input Attribute tab and populate the fields:
 - Name: The name of the object/resource to identify the purpose of the runbook.
 - Execution Order: The execution order attribute is used to refer to the execution order of the tasks executed during the deployment process explained under Point no. 3 of section [Deployment History](#).
 - Runbook Id: It is the id of the runbook provided by the user for post provisioning or day two task.
 - Extra Vars: A new type of variable (Ansible) can be created from variables window. For the details about Ansible variables, please refer to the section [Variables](#).

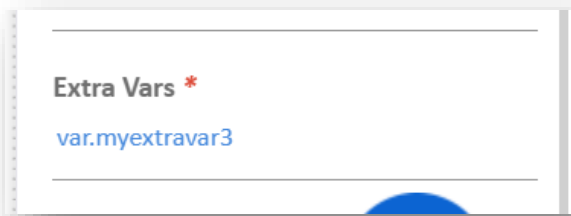



Figure 327 – Extra Vars in Ansible Object

3. Click on the deploy blueprint icon . For details on how to deploy the Ansible type object from the Design Blueprint page, please refer to the section [Deployment from the Design Blueprint page](#).

3.1.4.1.5 Enabling Cisco Intersight in Blueprint

The Cisco Intersight objects are enabled in Blueprint using the **Software Tools** option in the Left Object Menu. This software tool is independent of Amazon, Azure, GCP, or VMware and holds the Cisco Intersight objects in the blueprint.

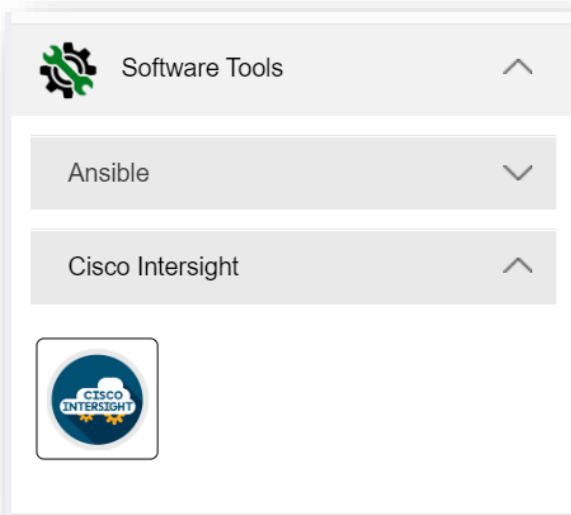


Figure 328 – Cisco Intersight Object

1. Drag **Cisco Intersight** object to **Diagram Pane** and create the use case.

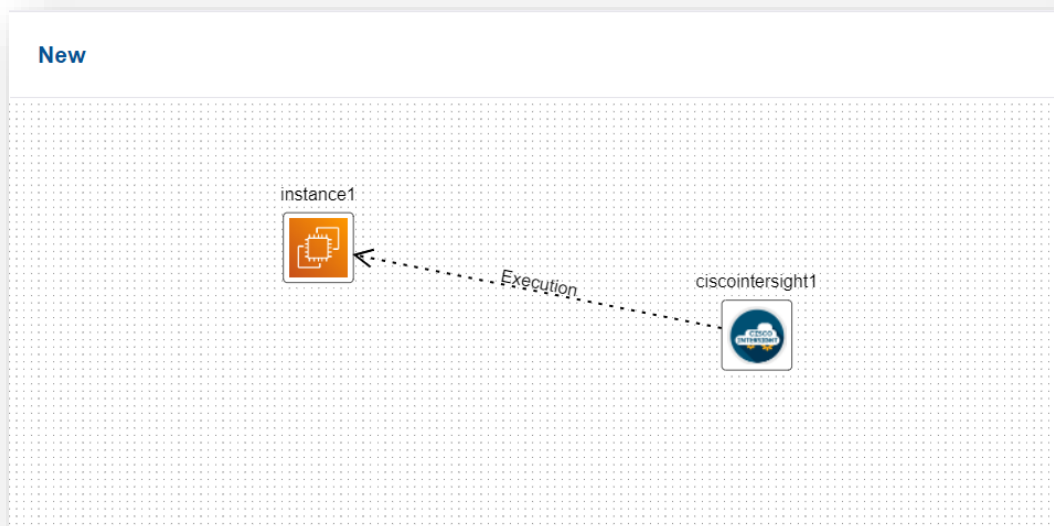


Figure 329 – Cisco Intersight Object on Blueprint Diagram

2. In the Right Attribute Panel, select the **Input Attribute** tab and populate the following fields:
 - **Name:** The name of the object/resource to identify the purpose of the Cisco Intersight object.
 - **Virtual Machine:** The Virtual Machine attribute is used to map the Instance.
 - **Execution Name:** It is the Execution name for Cisco Intersight provided by the user for post provisioning or day two task.
 - **Organization Moid:** It is the Organization Moid for Cisco Intersight provided by the user for post provisioning or day two task.
 - **Workflow Moid:** It is the Workflow Moid for Cisco Intersight provided by the user for post provisioning or day two task.
 - **Execution Order:** The execution order attribute is used to refer to the execution order of the tasks executed during the deployment process explained under Point no. 3 of section [Deployment History](#).
 - **Workflow Parameters:** A new type of variable (Ansible) can be created from variables window. For the details about Ansible variables, please refer to the section [Variables](#).

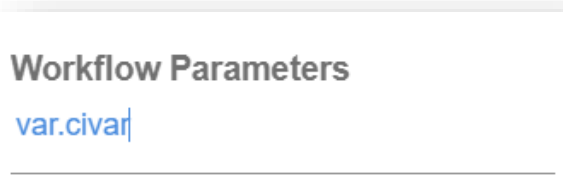



Figure 330 – Workflow Parameter in Cisco Intersight Object

3. Click on the deploy blueprint icon . For details on how to deploy the Cisco Intersight type object from the Design Blueprint page, please refer the section [Deployment from the Design Blueprint page](#).

3.1.4.2 Deploy Blueprint

There are three ways to deploy a blueprint:

- Deployment from the Design Blueprint page
- Deployment from the View Blueprint tab of the Manage Blueprint page
- Deployment from Process workflow

3.1.4.2.1 Deployment from the Design Blueprint page

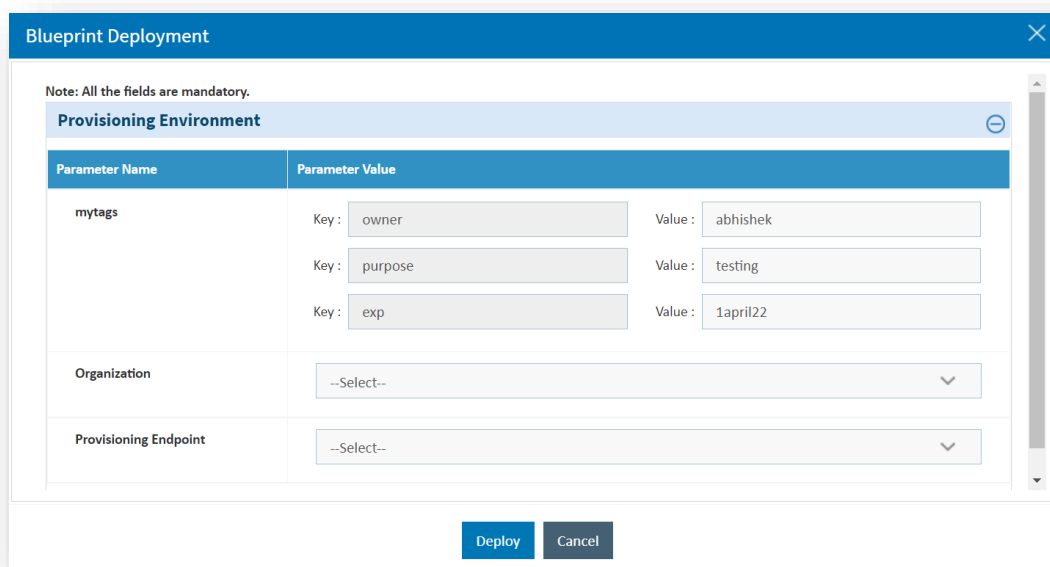
The Deploy Blueprint option on the Design Blueprint page is to deploy the created blueprint to do provisioning of the objects configured in the blueprint.

The deployment can be categorized into two types:

- Deployment without Ansible objects
- Deployment with Ansible objects

For deployment without Ansible Objects:

1. Click on the Deploy icon  on the bottom right of the page.
2. The **Blueprint Deployment** Window appears.



Parameter Name	Parameter Value
mytags	Key : owner Value : abhishek
	Key : purpose Value : testing
	Key : exp Value : 1april22
Organization	--Select--
Provisioning Endpoint	--Select--

Figure 331 – Blueprint Deployment

3. The user has the option to change the mapped variable values if desired.
4. Select the Organization and Provisioning Endpoint.
5. Click on **Deploy** button.
6. A Provisioning window appears and shows the real-time provisioning logs.




Figure 332 – Provisioning Window for Blueprint

7. On successful completion of provisioning, the output result is displayed in green color. The blueprint objects are successfully provisioned on the selected cloud platform.



Figure 333 – Successful Provisioning of Blueprint Objects

8. In the case of any error in processing, it shows it in red color.
9. For Deployment with Ansible Objects:
10. Click on the Deploy icon  on the bottom right of the page.
11. The Deployment Window appears.

Note: All the fields are mandatory.

Provisioning Environment

Parameter Name	Parameter Value
instancename	Instance08
label3	Key : qa Value : testing
metadatavaiable3	Key : keymetadat1 Value : valuemetada1 Key : keymetada2 Value : valuemetada2
Organization	--Select--

Deploy Cancel

Figure 334 – Blueprint Deployment Window from Ansible Object

- On the Blueprint Deployment window, the Ansible Extra Vars will be displayed under Ansible environment section.

Provisioning Environment

Ansible Environment

Parameter Name	Parameter Value									
myansible	<table border="1"> <thead> <tr> <th>Serial No.</th> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Hostname</td> <td>10.1.140.107</td> </tr> <tr> <td>2</td> <td>test</td> <td>output_instance_id1</td> </tr> </tbody> </table>	Serial No.	Name	Value	1	Hostname	10.1.140.107	2	test	output_instance_id1
Serial No.	Name	Value								
1	Hostname	10.1.140.107								
2	test	output_instance_id1								
EndpointURL	--Select--									

Deploy Cancel

Figure 335 – Extra Vars in Ansible Object


- Change the **Extra Vars** values if required.
- Select the **EndpointURL**, populate all the required fields, and click on **Deploy** button.
- The further steps are same as described in the section Deploy Blueprint.
- On successful deployment, the configured Ansible task is run.
- For Deployment with Cisco Intersight Objects:
- Click on the Deploy icon  on the bottom right of the page.
- The Deployment Window appears.


Figure 336 – Blueprint Deployment Window from Cisco Intersight Object

20. On the Blueprint Deployment window, the Cisco Intersight Workflow parameters will be displayed under Cisco Intersight environment section.

Figure 337 – Workflow Parameter in Cisco Intersight Object

21. Change the Workflow Parameter values if required.
22. Select the **EndpointURI**, populate all the required fields, and click on **Deploy** button.
23. The further steps are same as described in the section Deploy Blueprint.
24. On successful deployment, the configured Cisco Intersight task is run.

3.1.4.2.2 Deployment from the View Blueprint tab

Another way to deploy the blueprints is from the View Blueprint tab. The deploy button  available on this screen allows users to deploy a blueprint from here. Clicking on the deploy button opens the deploy dialog box. Follow the similar steps as described in the section "Deployment from the Design Blueprint page".

3.1.4.2.3 Deployment from Process workflow

In this method, the blueprints are deployed through process workflow. The section "[Execution of Blueprint by Creating UI and Process Template](#)" contains detailed information on deployment from process workflow.

3.1.4.3 Re-Run Blueprint

This option is used to re-run the deployment request. By using Re-run, a user can again request the deployment of the same blueprint request and can change the existing machine attributes values which are mapped to variables. For the attributes which are not mapped with the variables, the user will not be able to change values on re-run.

If the deployment request is not decommissioned, this option does not create new cloud objects; it makes modifications to the existing cloud objects that were created during the deployment request.

If the deployment request has been decommissioned and then re-run is used, it creates the new cloud object mentioned in the deployment request.

The user cannot change the platform or environment in the case of re-run.

The Re-Run action does not appear in the case of an InProgress or Error status of the deployment request. It appears only in the case of the Success status of the deployment request.

For a new deployment, it creates the new request id in the deployment history but for the re-run case, it runs the execution under the same request id. It does not create the new request id. It uses the same terraform state file for task execution.

3.1.4.3.1 Terraform State File

Terraform must store information about your managed infrastructure and configuration. This information/state is used by Terraform to map real-world resources to your configuration, to keep track of metadata, and to improve performance for large infrastructures.


This state is stored by default in a local file named "terraform.tfstate", but it can also be stored remotely, which works better in a team environment.

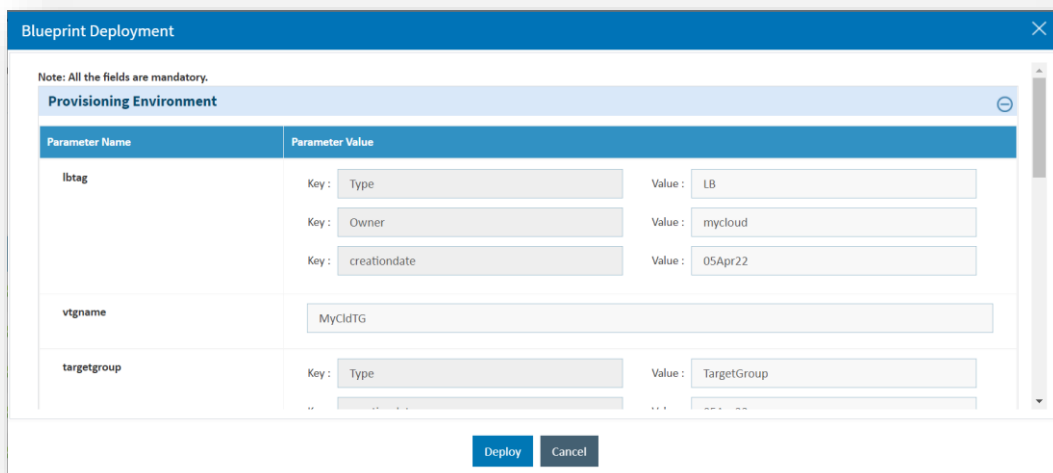
Terraform uses this local state to create plans and make changes to your infrastructure. Terraform performs a refresh prior to any operation to update the state with the actual infrastructure.

The primary purpose of Terraform state is to store bindings between objects in a remote system and resource instances declared in your configuration. When Terraform creates a remote object in response to a change in configuration, it records the identity of that remote object against a particular resource instance and then potentially updates or deletes that object in response to future configuration changes.

Terraform stores information about your infrastructure in a state file. This state file keeps track of resources created by your configuration and maps them to real-world resources.

Terraform compares your configuration with the state file and your existing infrastructure to create plans and make changes to your infrastructure. When you run terraform apply or terraform destroy against your initialized configuration, terraform writes metadata about your configuration to the state file and updates your infrastructure resources accordingly.

1. Click on Re-Run  icon listed in the action column.
2. The **Blueprint Deployment** window appears.



Parameter Name	Parameter Value
lbtarg	Key : Type Value : LB
	Key : Owner Value : mycloud
	Key : creationdate Value : 05Apr22
vtgname	MyCldTG
targetgroup	Key : Type Value : TargetGroup

Figure 338 – Blueprint Deployment on Re-Run

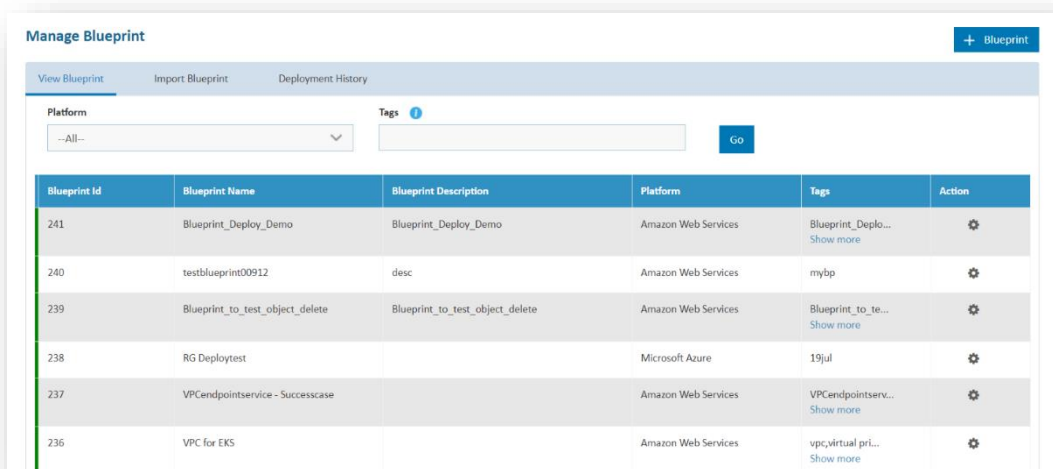
3. The user has the option to change the variable values mapped to the object attributes.
4. Click on the deploy button and perform the similar steps as described in the section [“Deployment from the Design Blueprint page”](#).

3.1.4.4 Execution of Blueprint by Creating UI and Process Template

The section covers information about the deployment of blueprint through process workflow. This is one of the three methods of blueprint deployment.

To deploy the blueprints through process workflow, the user first needs to create a new blueprint through the Design Blueprint page. (Refer to the section [Create New Blueprint](#) to create a new blueprint).

In the example below, the workflow blueprints are created for all three platforms. As already discussed earlier, the listed blueprint can be filtered by typing the tag name in the Tags section.



Blueprint Id	Blueprint Name	Blueprint Description	Platform	Tags	Action
241	Blueprint_Deploy_Demo	Blueprint_Deploy_Demo	Amazon Web Services	Blueprint_Deplo... Show more	
240	testblueprint00912	desc	Amazon Web Services	mybp	
239	Blueprint_to_test_object_delete	Blueprint_to_test_object_delete	Amazon Web Services	Blueprint_to_te... Show more	
238	RG Deploytest		Microsoft Azure	19jul	
237	VPCendpointservice - Successcase		Amazon Web Services	VPCendpointserv... Show more	
236	VPC for EKS		Amazon Web Services	vpc,virtual pri... Show more	

Figure 339 – Blueprint Created for Process Workflow

For executing the created Blueprint from Process Workflow, the user needs to do the following:

1. Create the UI Template.
2. Create the Process template.
3. Create the Cloud template.
4. Create Catalog.
5. Publishing the Service Catalog.
6. Execution of Blueprint thorough Requester
7. Viewing the Request processing on the Request Task Management.

3.1.4.4.1 Creating UI Templates

For processing requests from the process template, the user needs to create a UI template where any blueprints can be deployed. The user provides input attributes and, after completing the deployment task, the output attributes are returned. These output attributes are passed to the process workflow to run the tasks. So, the UI templates are the medium to pass these output values from blueprint deployment output to process workflow execution.

1. Click on Manage UI Template under Workflow Management menu.

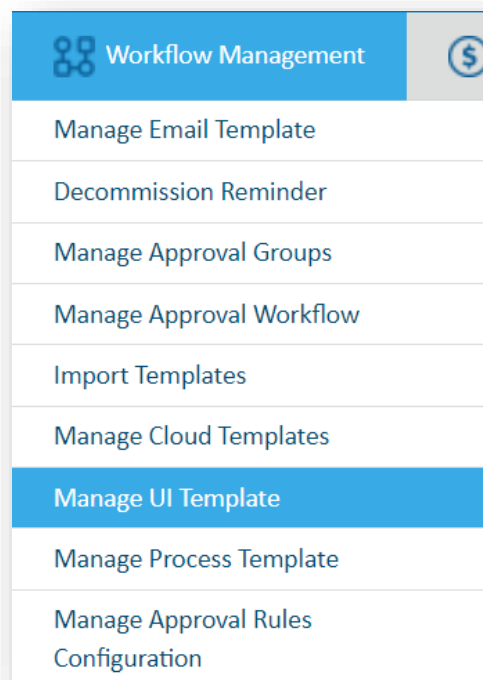


Figure 340 – Create UI Template Menu

2. Go to **Create UI Template** tab and create a UI template. For details on How to create a UI template, please refer to the section "**Manage UI Template→ Create UI Template**" in the *MyCloud Configuration Guide – Provider Module – Part 1*.

Manage UI Template

View UI Template | **Create UI Template** | Import UI Template

Organization *
HCLorg

Platform *
Amazon Web Services

Template Name *
AWS Workflow Blueprint

Template Description
Test Ansible Blueprint - AWS Workflow Blueprint

Number of Tabs *
1

Approval Type *
Static Approval

Approval Templates *
BA Approval (Version 1)

Request Item Mode
Multiple Item View

Controls

- Text Box
- Text Area
- Select
- Date
- Hidden Field
- Key Value Pair
- Addl. Storage

Tabs ⊕ Add Tab

General Information

- Key Value Pair
- Rbremarks1
- Rbremarks2
- Rbremarks3
- mabpout

Figure 341 – UI Template Creation for Blueprint Deployment

The following five inputs have been created for the UI template as the blueprint to be executed expects these values from the user input:

- Key Value Pair
- Rbremarks1
- Rbremarks2
- Rbremarks3
- mabpout

To pass the inputs to the process workflow through the UI template, the user needs to create all the input and output parameters in the UI template to map.

3.1.4.4.2 Create Process Template

After creating UI template, we need to create process template.

1. Click on Manage Process Template under Workflow Management menu.

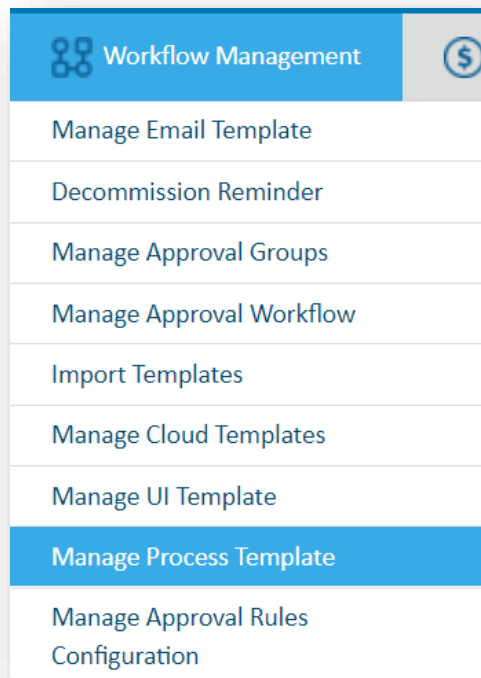


Figure 342 – Create Process Template Menu

2. Go to **Add Template** tab and create process template for the UI template. For details on How to create a Process template, please refer to the section “**Manage Process Template → Add Template**” in the *MyCloud Configuration Guide – Provider Module – Part 1*.

Figure 343 – Process Template Creation for Blueprint Deployment

3. Add the Task to Process template to be used to run the process workflow.

S.No.	Task Type	Task Code	Task Name	Notify Success	Notify Failure	Move Group	Group Sequence	Move Task	Action
1	Generic	DEPLOYBL	DPBL ?	<input type="checkbox"/>	<input type="checkbox"/>	↓	1		
2	Custom	POWERSHELL	clinsert ?	<input type="checkbox"/>	<input type="checkbox"/>	↑	2		

[Update](#)

Figure 344 – Add Task for Process Template

- Here the DEPLOYBL tasks have been created for the execution of the blueprint. It is a generic type of task. Different tasks are created for different platform workflows.
- Click on **Manage Task** action on the created task table list.

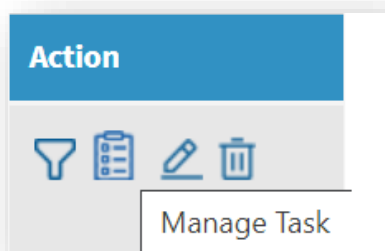


Figure 345 – Manage Task Action

- The **Manage Task** window appears.

MyCloud
×

Manage Generic Task [DPBL - DEPLOYBL]


Parameters mapping

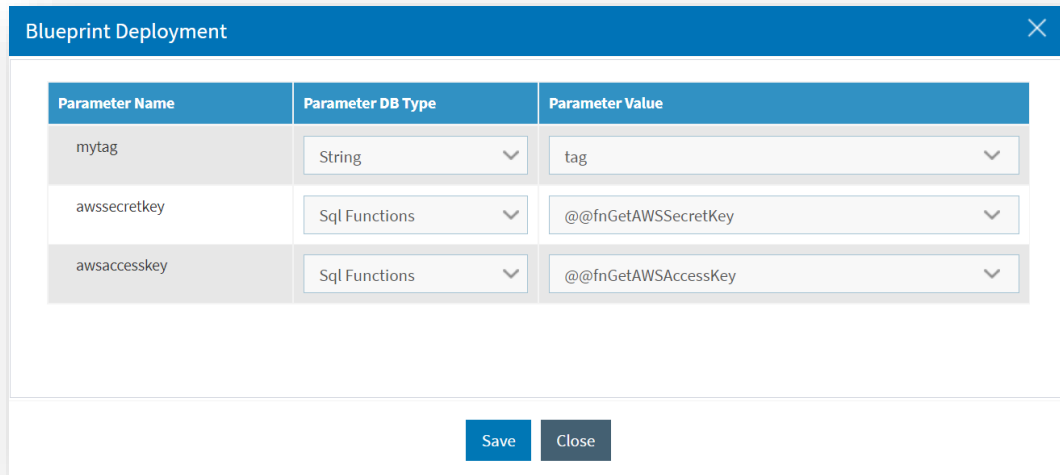
Parameter Name	Parameter Description	Data Type	Parameter Value
BlueprintId	Unique Id of blueprint created by Provider	Static	111
OutputBlueprint	Output Variable name, to capture blueprint execution result	Static	mabpout
TerraformVariable	Key Value Pair variables mapping required for terraform task exec... More	tfkeyvalue	Map Key Value
AnsibleVariable	variables mapping required for ansible task execution	ansibledeploy	Ansible Configuration

[Submit](#)
[Close](#)

Figure 346 – Manage Task Action Window


- Under the task, the user needs to map the input parameters to the process workflow. In the given example, there are four parameters mapped for the Deploy Blueprint task (DeployBL) as shown in the above screenshot.
- All the parameters can be managed by selecting an option from the dropdown menu.
- Blueprint Id:** This is the Blueprint ID created for deploying the blueprint from the process workflow. Refer to the [Table 58 – View Blueprint Table Columns](#).

10. **Output Blueprint:** Created to capture the output parameter value. There should be the same value of the output attribute created on the UI for the value provided here. And if there is no output attribute created in the UI, it creates a new key with the provided output value here.
11. **TerraformVariable:** It takes key value pair type variables. Click on the **Map Key Value** () button to map the key value for this parameter.



Parameter Name	Parameter DB Type	Parameter Value
mytag	String	tag
awssecretkey	Sql Functions	@@fnGetAWSecretKey
awsaccesskey	Sql Functions	@@fnGetAWSAccessKey

Figure 347 – Map Key Value of Manage Task Action

12. The above screen allows you to map the subscription details for which the blueprints are deployed by selecting the respective credential of that environment. This window displays the platform-wise parameters and subscription-wise parameters. For AWS, the access key and the security key are platform specific. The user needs to provide credentials to access the provisioning environment. For GCP, provide the project id and for ARM, provide four keys to access the environment.
13. The window also allows users to map the key-value pairs. The following pairs are available:
 - Parameter Name
 - Parameter DB Type
 - Parameter Value.
14. In the case of Blueprint Deployment, the user needs pass the Access Key and Security Key from the configured values during the execution but in case process workflow, he/she needs to pass it thorough predefined SQL functions. This value is used to decide on which subscription the user deploys the blueprint. This depends on the selected platform such as AWS, ARM and GCP.
15. For Ansible, there is an option to configure Ansible variables by clicking on **Ansible Configuration** button ()

Blueprint Deployment

Ansible End Point: MyCloud Ansible

Parameter Name	Parameter DB Type	Parameter Value
myextravar1.test	String	Rbremarks1
myextravar1.Hostname	Static	output_subnet_id1
myextravar2.test	String	Rbremarks2

Save Close

Figure 348 – Ansible Configuration of Manage Task Action

16. The user selects the Ansible endpoint, and all the key value mentioned in Ansible variables are listed here.

Blueprint Deployment

myextravar2.test	String	Rbremarks2
myextravar2.Hostname	Static	output_vpc_id1
myextravar3.Hostname	Static	output_subnet_id1
myextravar3.Hostname2	Static	output_vpc_id1
myextravar3.testing	String	Rbremarks3

Save Close

Figure 349 – Ansible Configuration of Manage Task Action (Cont.)

3.1.4.4.3 Create the Cloud Template

To process the requests from the process template, the user needs to create a cloud template.

1. Click on Manage Cloud Template in the Workflow Management menu.

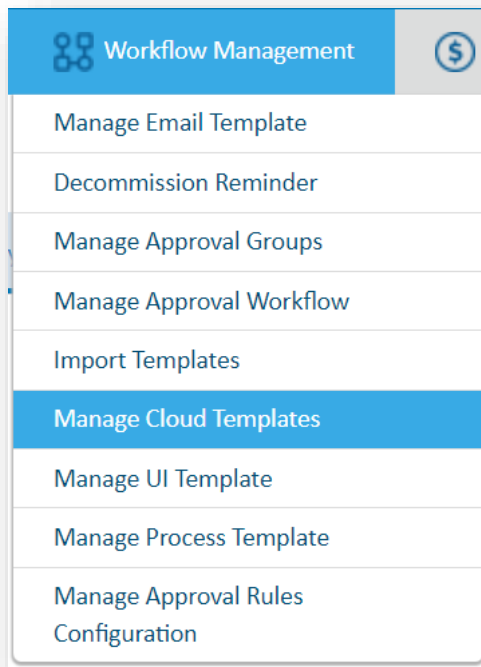


Figure 350 – Manage Cloud Template Menu

2. Select the Platform and the Provisioning Endpoint.

A screenshot of the 'Manage Cloud Templates' form. The form has two tabs: 'Manage Template' (active) and 'Create Template'. Below the tabs, there are two dropdown menus: 'Platform' and 'Provisioning Endpoint'. Both dropdowns show '--Select--' as the current selection. There is a blue 'Go' button at the bottom right of the form.

Figure 351 – Manage Cloud Templates

3. Select the **Create Template** tab and create a cloud template. For details on How to create a Cloud template, please refer to the section "**Manage Cloud Template → Create Template**" in the *MyCloud Configuration Guide – Provider Module – Part 1*.

Figure 352 – Create Cloud Template

3.1.4.4.4 Create Catalog

To process the request from the process template, the user needs to create a catalog.

1. Click on Manage Catalog in the Service Catalog menu.

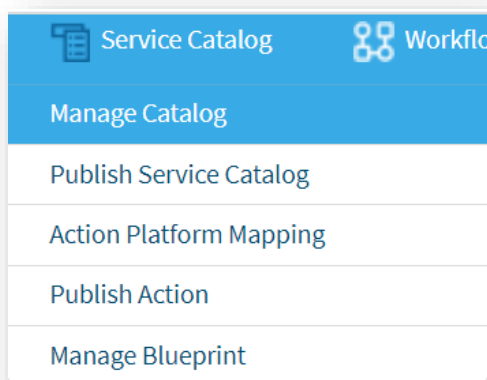


Figure 353 – Create Catalog Menu

2. Select the Platform and Provisioning Endpoint.

Figure 354 – Manage Catalog

3. Create a Catalog from the **Create Catalog** tab. For details on How to create a catalog, please refer to the section "**Manage Catalog → Create Catalog**" in the *MyCloud Configuration Guide – Provider Module – Part 1*.

Figure 355 – Manage Catalog (Cont.)

3.1.4.4.5 Publish Service Catalog

To process the request from the process template, the user needs to create a catalog.

1. Click on Publish Service Catalog in the Service Catalog menu.

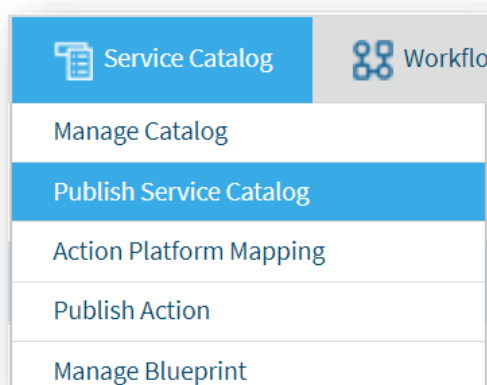


Figure 356 – Publish Service Catalog Menu

2. Select the Organization, Platform, and Provisioning Endpoint.

Figure 357 – Publish Service Catalog

3. Create a Service Catalog from the **Create Service Catalog** tab. For further steps to create a Service catalog, please refer to Section **Publish Service Catalog → Create Service Catalog** in the *MyCloud Configuration Guide – Provider Module – Part 1*.

Figure 358 – Publish Service Catalog (Cont.)

3.1.4.4.6 Execution of Blueprint thorough Requester

To create requests for the workflow execution, the user needs to create a service catalog. This is done similarly to the existing UI and process template creation process. The following are the steps to explain one of the cases of deploying the blueprint through process workflow.

1. Login to MyCloud as a Requester.
2. Click on Request Service Catalog under the Request Menu.

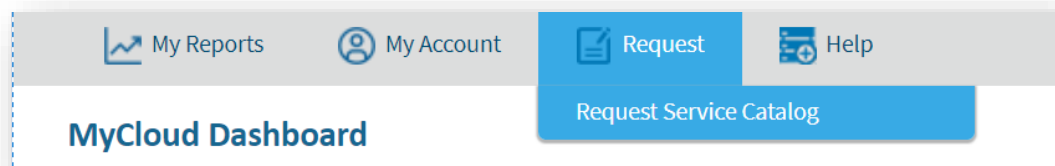


Figure 359 – Request Service Catalog Menu

3. Select the Environment Type, Purpose, and OS Type. Click on Proceed.

Figure 360 – Request Service Catalog

4. Select the **Platform** for which you want to create a request and click on **Proceed**.

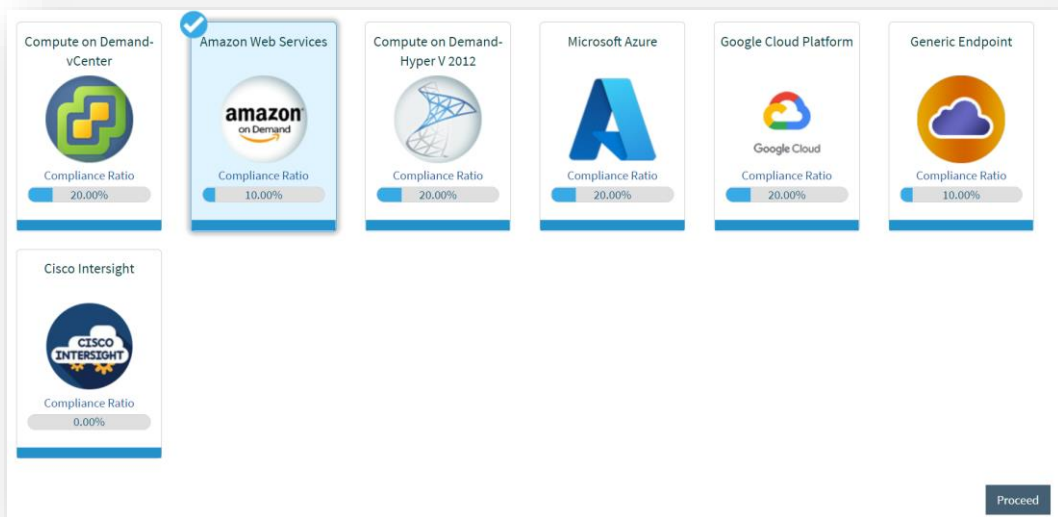


Figure 361 – Request Service Catalog (Cont.)

- Click on the created service request.

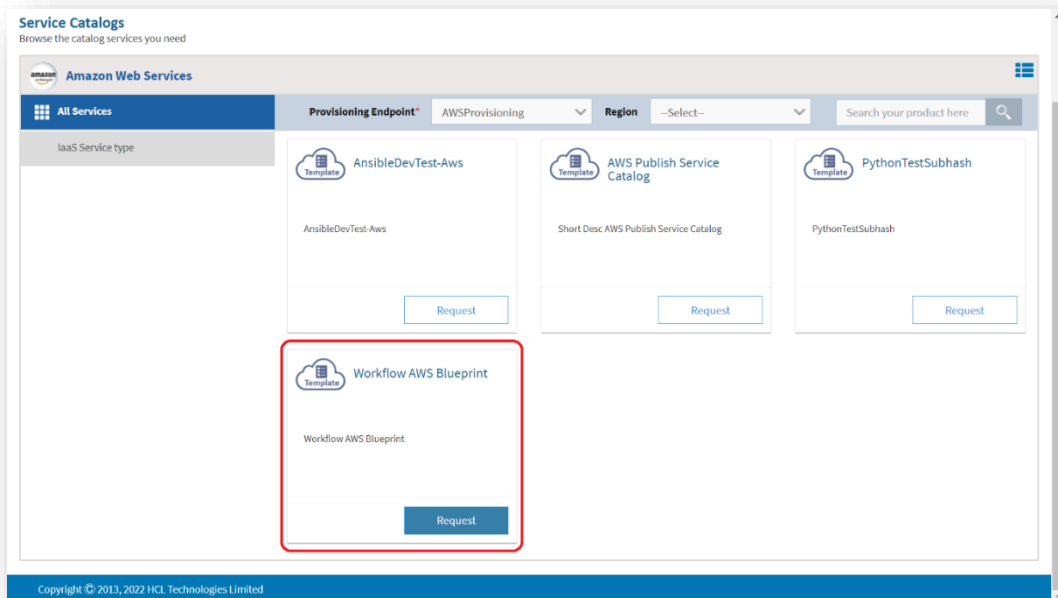
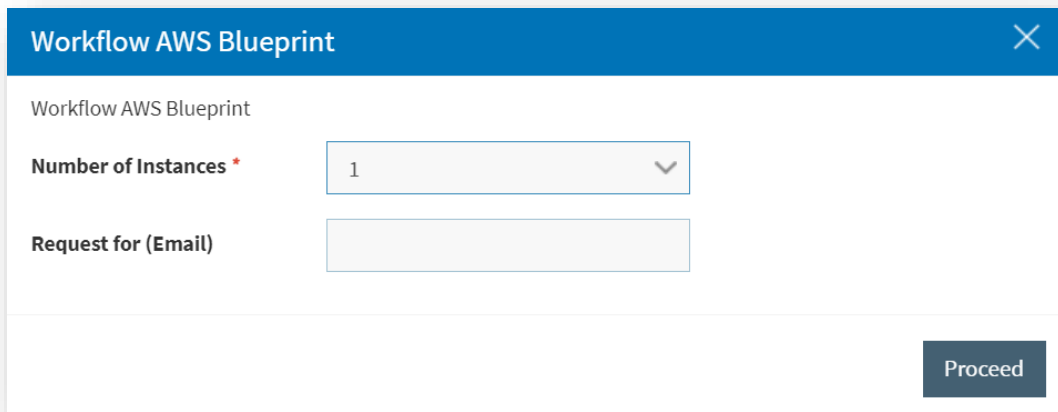


Figure 362 – Request Service Catalog (Cont.)

- Select the Number of Instances and click Proceed.



Workflow AWS Blueprint

Workflow AWS Blueprint

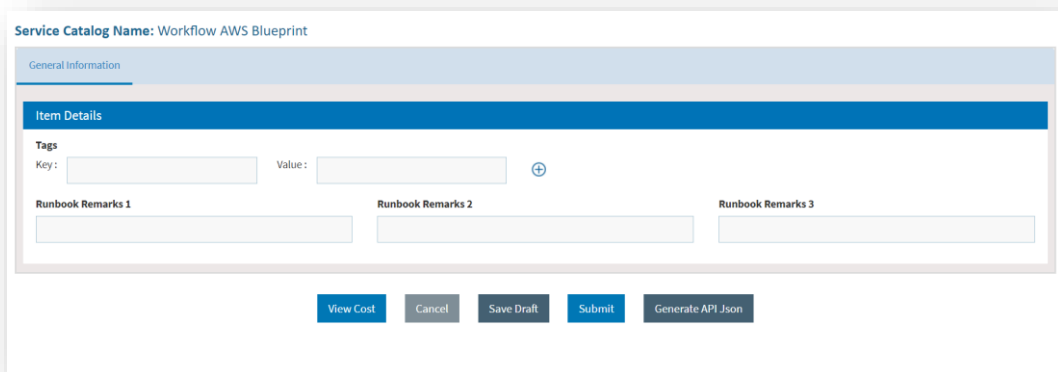
Number of Instances *

Request for (Email)

Proceed

Figure 363 – Request Service Catalog (Cont.)

7. The UI template for requesting appears.



Service Catalog Name: Workflow AWS Blueprint

General Information

Item Details

Tags

Key : Value : ⊕

Runbook Remarks 1 **Runbook Remarks 2** **Runbook Remarks 3**

View Cost **Cancel** **Save Draft** **Submit** **Generate API .json**

Figure 364 – Request Service Catalog (Cont.)

8. Input the values and click on **Submit** to raise a new request.
9. The request can be seen by clicking on **My Request** under **My Account** Menu.

Request ID	Platform	Provisioning Endpoint	Request Date (mm/dd/yyyy)	Service Catalog	Requested Action	Object Type	Status	Comments	Action
SRREQ000681	Generic Endpoint	LandingZoneTestARM	04/14/2022	ARM - Service Catalog-Cloud landing Zone-Terraform	Request Provisioning	Provisioning Endpoint	Fulfillment Completed		
SRREQ000680	Generic Endpoint	LandingZoneTestARM	04/14/2022	ARM - Service Catalog-Cloud landing Zone-Python	Request Provisioning	Provisioning Endpoint	Fulfillment Completed		
SRREQ000679	Generic Endpoint	LandingZoneTestARM	04/14/2022	ARM - Service Catalog-Cloud landing Zone-Python	Request Provisioning	Provisioning Endpoint	Fulfillment In-Progress		
SRREQ000677	Compute on Demand-vCenter	vCenterProvisioning	04/13/2022	Service Catalog - vCenter CPU - Tab Sequence 2	Request Provisioning	Virtual Machine	Fulfillment Completed		
SRREQ000676	Compute on Demand-vCenter	vCenterProvisioning	04/13/2022	Service Catalog - vCenter CPU - Tab Sequence 2	Request Provisioning	Virtual Machine	Rejected	Reject	
SRREQ000673	Compute on	vCenterProvisioning	04/13/2022	Service Catalog - CPU	Request	Virtual Machine	Fulfillment		

Figure 365 – Request under My Request

10. Clicking on the request displays the further details related to the task.

MyCloud			
Request No	SRREQ000691	Location Name	vCenter Location
Request Date (mm/dd/yyyy)	04/15/2022	Catalog Name	vCenter SCSI Publish Service Catalog
Region Name	vCenterRegion	Requester Name	HCL Requester
Platform	Compute on Demand-vCenter	Provisioning Endpoint	vCenterProvisioning
Request Type	Virtual Machine Provisioning	Request for (Email)	
Item : 1			
General Information			
Period	1	Cost Type	Allocation based model
Service Plan	Private Cloud master-data	Provision Date	04/15/2022
Period Value	Day(s)	Decommission Date	04/15/2022
Region	vCenterRegion	Location	vCenter Location
VM Display Name	Test-Vcenter-Tag	Remarks	
Size	Small (vCPU : 1, Memory : 2 GB)	Cluster	SB-Compute-Cluster
Os Disk Storage	SharedDatastore04	CLUSTERTEST	

Figure 366 – Request under My Request (Cont.)

3.1.4.4.7 Viewing the Request processing on the Request Task Management

To check the task execution status, the user needs to take the following steps:

1. Login to MyCloud as a Provider User.
2. Click on Request Task Management under the My Report menu.

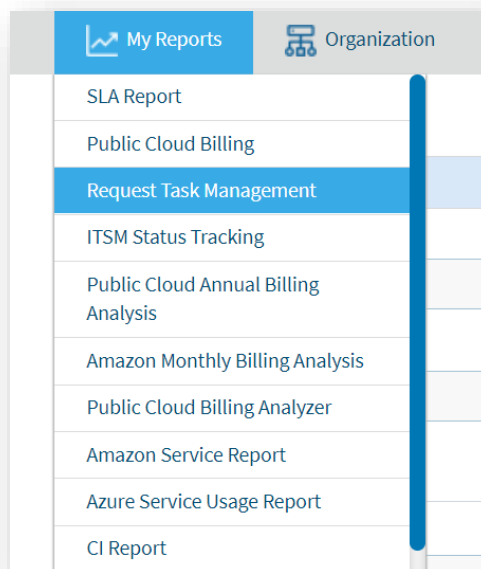


Figure 367 – Request Task Management Menu

3. The **Request Task Management** page appears, displaying the list of requests.

The screenshot shows the 'Request Task Management' page. It includes a 'Filters' section, an 'Additional Filter' section, and a 'Show Report' button. Below these is a table of requests. A note above the table states: 'All dates are in mm/dd/yyyy HH:mm:ss format'.

	Request No	Catalog Name	Platform	Provisioning Endpoint	Request Status	Request Date	Requester Name
+	SRREQ000535-1	AWS Publish Service Catalog	Amazon Web Services	AWSProvisioning	Fulfillment Completed	03/24/2022 15:59:26	HCL Requester
+	SRREQ000518-1	AWS Publish Service Catalog	Amazon Web Services	AWSProvisioning	Fulfillment Completed	03/22/2022 13:04:53	HCL Requester
+	SRREQ000514-1	AWS Publish Service Catalog	Amazon Web Services	AWSProvisioning	Fulfillment In-Progress	03/22/2022 12:38:57	HCL Requester
+	SRREQ000482-1	Workflow AWS Blueprint	Amazon Web Services	AWSProvisioning	Fulfillment Completed	03/14/2022 18:14:30	HCL Requester
+	SRREQ000469-1	Workflow AWS Blueprint	Amazon Web Services	AWSProvisioning	Fulfillment Completed	02/22/2022 18:11:15	HCL Requester
+	SRREQ000468-1	AWS Publish Service Catalog	Amazon Web Services	AWSProvisioning	Fulfillment In-Progress	02/20/2022 15:59:27	HCL Requester
+	SRREQ000461-1	Workflow AWS Blueprint	Amazon Web Services	AWSProvisioning	Fulfillment In-Progress	02/17/2022 18:28:36	HCL Requester
+	SRREQ000460-1	Workflow AWS Blueprint	Amazon Web Services	AWSProvisioning	Fulfillment In-Progress	02/17/2022 16:50:35	HCL Requester
+	SRREQ000443-1	Workflow AWS Blueprint	Amazon Web Services	AWSProvisioning	Fulfillment In-Progress	02/14/2022 16:53:08	HCL Requester

Figure 368 – Request Task Management

4. Expand your request by clicking on the plus icon .

The screenshot shows the expanded details for request SRREQ000482-1. It includes a breadcrumb trail: SRREQ000482-1 > Workflow AWS Blueprint > Amazon Web Services > AWSProvisioning. Below this is a table of task execution details.









Task Name	Task Status	Plan Execution Date	Task Start Date	Task End Date	Exec Plan Id	Execution Type	Sequence	Group Sequence	Retry Count	Action
DPBL	Task Success	03/14/2022 18:17:29	03/14/2022 18:17:29	03/14/2022 18:27:11	974	AUTO	1	1	0	   
clinsert	Task Success	03/14/2022 18:17:29	03/14/2022 18:27:37	03/14/2022 18:29:20	974	AUTO	2	2	0	   

Figure 369 – Request Task Management (Cont.)

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- 



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3.1.5 My Report

This section describes the features and functionality of various reports. Through this module, an overview of managing a full range of standard reports and custom reports is provided.

My Cloud reports are divided into following categories:

- Metering
- My Dashboard Requester
- Top Bottom Nodes
- My Bills
- Request Tracking
- Request Analytical Report
- Request Trend Compare
- SLA Report
- Finance Report
- Public Cloud Billing
- Public Cloud Annual Billing Analysis
- Amazon Monthly Billing Analysis
- Public Cloud Billing Analyser
- Amazon Service Report
- Azure Service Usage Report
- Request Task Management
- vCenter Performance Dashboard
- vCenter Performance Report
- Request Task Management (OT)

Reports are viewed based on the role of a person:

If the user is not able to see the report as per below reports grid, then kindly contact Provider Admin User to configure the reports.

Organization User and **Technical Approver** will be able to see the report data respective to the organization the user belongs to.

Requester User will be able to see the report data respective to the resource requested by the user, for the user and delegated resources.

Business Approver will be able to see the report data respective to the request where the user is an approver.

Table 61 – Reports and the Access to Them

Type of Report	Access to Reports				
	Org Admin	Requester	Technical Approver	Business Approver	Custom_Org_Role
My Dashboard- Requester	No	Yes	Yes	No	No
SLA Report	Yes	Yes	Yes	No	No
Metering	Yes	Yes	Yes	Yes	Yes
Request Analytical Report	Yes	Yes	Yes	Yes	Yes
Request Trend Compare	Yes	Yes	Yes	Yes	Yes
Top Bottom Nodes	Yes	Yes	Yes	Yes	Yes
My Bill	No	Yes	No	No	No
Request Tracking	Yes	Yes	Yes	Yes	Yes
Public Cloud Billing	Yes	No	Yes	No	No
Public Cloud Annual Billing Analysis	Yes	No	Yes	No	No
Amazon Monthly Billing Analysis	Yes	No	Yes	No	No
Public Cloud Billing Analyzer	Yes	No	Yes	No	No
Amazon Service Report	Yes	No	Yes	No	No
Azure Service Usage Report	Yes	No	Yes	No	No
Request Task Management	Yes	Yes	No	No	No
vCenter Performance Dashboard	Yes	No	Yes	No	No
vCenter Performance Report	Yes	No	Yes	No	No
Finance Report	Yes	No	Yes	No	No
Request Status Tracking (OT)	Yes	No	Yes	No	No

3.1.5.1 Metering

MyCloud offers advanced monitoring features to keep track of Cloud Account usage with the help of metering report. It creates daily data report at the machine level. This section explains how to manage the Metering report:

Report data is viewed based on the role of the logged in user.

- User views CPU usage, memory usage, disk usage and network I/O usage of virtual server based on filtered period.
- User views monthly/daily/hourly data for specific machines.

Metering report is a hierarchical report. Report hierarchy is shown below:

- Top Level: Quarterly record based on Machine/ instances
 - First level: Detail of Monthly reports
 - Second Level: Detail of daily reports
 - Third Level: Hourly report
 - 5 Minutes Data: Live data
1. On the main menu bar, click **My Reports**, and then click **Metering**.
 2. The **Metering Report** screen appears and allows the user to fill the details in the form to get a hierarchical level report:

Figure 373 - Metering Report

Refer the below table to understand the fields mentioned in the above figure.

Table 62 -Metering Report

Fields	Description
Period	The lease period for which a resource is required.
From Date	Starting dating of log.
To Date	Ending date of log.
Platform	Name of Cloud service providers.
Provisioning EndPoint	Name of environment (cloud endpoint). Only enabled Endpoints configured in Performance Configuration Screen at Provider Admin level, will be populated here.

3. To view the **Metering Reports**, user needs to follow the below steps:

- **Cloud Filter**– It allows the user to get the filtered result. Based on the requirement, User gets a report only from cloud environment.
 - a. Select **Period** for which a user requires a report.
 - b. Select From Date and To Date.
 - c. Select **Platform** and **Provisioning Endpoint**.
 - d. Click **Show Report** to get the results.

Figure 374 - Metering Report (Cont.)

Reports appear in a tabular form, as shown below:

Machine Name	CPU (MHz)	AVG Memory (MB)	AVG Disk Read (KBps)	AVG Disk Write (KBps)	AVG Network Received (KBps)	AVG Network Transmitted (KBps)
indrvdm08	291.64	27139.39	2.81	84.68	0.03	0.19

Figure 375 - Metering Report (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 63 - Metering Report (Cont.)

Fields	Description
Machine Name	Name of the machine
CPU (MHz)	CPU (MHz) utilization of the server
AVG Memory (MB)	Average Memory (MB) utilization of the server
AVG Disk Read (Kbps)	Average Disk read (KPBS) utilization of the server
AVG Disk Write (Kbps)	Average Disk write (KPBS) utilization of the server
AVG Network Transmitted (Kbps)	Average Network transmitted (Kbps) of the server
AVG Network Received (Kbps)	Average Network received (Kbps) by the server

4. To export the report user needs to follow the below steps:

- **Export and Segregation Filter:** This step enables the user to export a filtered report or complete MyCloud environment report based on the selection made in cloud filter.
 - a. Select **Aggregation** i.e., Average, to extract reports based on average usage, Max to get reports based on maximum Usage, or Min to get reports based on minimum usage.
 - b. Select **Export Period** and **Export Type** as PDF, Excel, or CSV.
 - c. Click **Export**.

Figure 376 - Metering Report (Cont.)

- d. The file gets downloaded.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.2 My Dashboard Requester

This step explains how to manage the requester dashboard. The report displayed under requester dashboard shows machine level graph of CPU (MHz), memory (MB), disk in-out (Kbps), network in-out (Kbps) along with the status and state of the machine.

The objective of requester dashboard is to view last 30- or 60-minutes statistics of VMs.

Report data is viewed based on the role of the logged in user.

- User views the drill down details for specific VM as status of CPU/memory /hard disk.
- User views CPU utilization, memory utilization, network utilization, disk I/O utilization for specific period (Date/Time) as data view or chart view.

To view the Requester Dashboard,

1. On the main menu bar, click **My Reports**, and then click **My Dashboard-Requester**.
2. The **Requester Dashboard** screen appears and allows the user to fill the details in the form to get the report:

Figure 377 - Requester Dashboard

Refer the below table to understand the fields mentioned in the above figure.

Table 64 - Requester Dashboard

Fields	Description
Platform	Provide the name of Cloud service providers
Provisioning Endpoint	Displays the name of environment (cloud endpoint). Only enabled Endpoints configured in Performance Configuration Screen at Provider Admin level, will be populated here.
Aggregation	Lists the type of data aggregation type

3. To view **Requester Dashboard** reports, user needs to follow the below steps:
 - [Cloud Filter](#)– It allows the user to filter the results. Based on the requirement, User gets a report only from cloud environment.
 - a. Select **Platform**.
 - b. Select Provisioning Endpoint.
 - c. Select **Aggregation** i.e., Average, to get reports based on average usage, Max to get reports based on maximum usage, or Min to get reports based on minimum usage.
 - d. Click Show Report.

Figure 378 - Requester Dashboard

Reports appear in a tabular form, as shown below:

- e. Click Server Name.

Server Name	Computer Name	Display Name	State	AVG CPU (MHz)	AVG Memory (MB)	AVG Disk (KBps)		AVG Network (KBps)					
						In	Out	In	Out				
COMP-104-1	COMP-104-1	Test											
COMP-106-1	COMP-106-1	TestVMDisplayNameBlueprint											
COMP-106-2	COMP-106-2	TestVMDisplayNameBlueprint					698044605		326726488		77936		139341

Figure 379 - Requester Dashboard (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 65 - Requester Dashboard Fields

Fields	Description
Server Name	Name of the server
Computer Name	Name of the computer
Display Name	Name assigned by a user
AVG CPU (MHz)	Average CPU (MHz) utilization of the server
AVG Memory (MB)	Average memory (MB) utilization of the server
AVG Disk (Kbps)	Average disk (Kbps) utilization of the server
AVG Network (Kbps)	Average network in-out (kbps) of the server

Green status signal shows trouble-free functioning of the machine.

- f. Clicking **Server Name** opens the following window where a user views the detailed report of selected server:

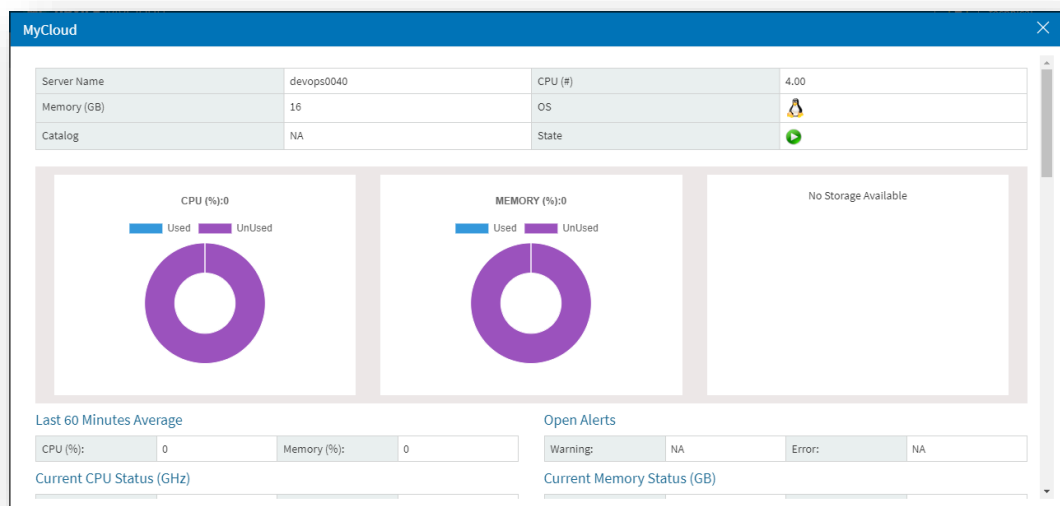


Figure 380 - Requester Dashboard (Cont.)

Refer the below table to understand the fields mentioned in the above figure-

Table 66 - Cloud Control

Fields	Description
Server Name	Displays the name of server.
CPU	Displays the server compute
Memory (GB)	Displays the server memory
Catalog	Displays the catalog which is being used to deploy the server
State	Shows the current state of server whether active or not
OS	Displays operating system of the server

If a user want to export the file, follow the below steps:

- a. Select file output as PDF, Excel, or CSV.
- b. Click **Export**.

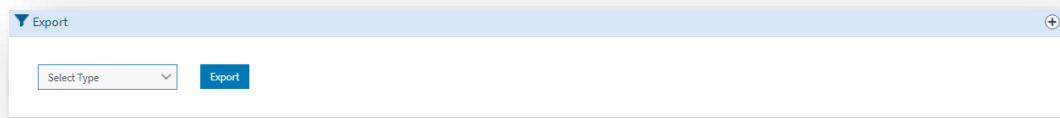


Figure 381 – Export Functionality

- c. File gets downloaded on the system.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.3 Top Bottom Nodes

Top Bottom Nodes allows a user to view the reports for utilization of all the Mibs, i.e. CPU, memory, disk in-out, network in-out in a graphical form.

The objective is to view data center information at different hierarchical levels.

Report data is viewed based on the role of a logged-in person.

User views VM information at different hierarchical levels.

To view the Top-Bottom Nodes, user needs to follow the below steps:

1. On the main menu bar, click **My Reports**, and then click **Top-Bottom Nodes**.
2. The **Top-Bottom Nodes Reports** screen appears and allows the user to fill the details in the form to get a desired report.

Top-Bottom Nodes

Note: Only vm's which has performance will be shown here

Cloud Filters

Platform*
--Select--

From Date*
05/21/2020

Device
VM

No. of records
5

Provisioning Endpoint*
--Select--

To Date*
05/21/2020

Mibs
☒ CPU
☒ Memory
☒ Disk In

☒ Disk Out
☒ Network In
☒ Network Out

Period
Specific Date

Chart Type
Bar

Order by
ASC

Export And Segregation Filters

Aggregation
AVG

Export Type
Select Type

Export

Show Report

Reset

Figure 382 - Top-Bottom Nodes

Refer the below table to understand the fields mentioned in the above figure.

Table 67 - Top Bottom Nodes

Fields	Description
Platform	Name of Cloud service providers
Provisioning Endpoint	Name of environment (cloud endpoint). Only enabled Endpoints configured in Performance Configuration Screen at Provider Admin level, will be populated here.
Period	The lease period for which a resource is required
From Date	Starting date of log
To Date	End date of log
Chart type	Types of charts used for data visualization
Device	List the type of resource that needs to be shown on the report
Order By	Order of data can be ascending or descending
Number of Record	Total no of records can be 5 or 10
HA Category	Displays whether high availability (HA) is enabled or not

To view the Top Bottom Nodes Report, user needs to follow the below steps:

- [Cloud Filter: It allows the user to filter the results. Based on the requirement, user gets a report only from cloud environment.](#)
 - a. Select Platform and Provisioning Endpoint.
 - b. Select **Period**, for which user requires a report.
 - c. Select **From** and **To Date**.

- d. Select a **Chart Type** i.e., Bar, Meter, or Line.
- e. Select a **Device** and then select **Mibs Parameters** from the available options.
- f. Select Order By and No. of Records.
- g. Enter No. of Records.
- h. Select HA Category.
- i. Click **Show Reports** to get the result.

Top-Bottom Nodes

Note: Only vm's which has performance will be shown here

Cloud Filters

Platform* --Select--

Provisioning Endpoint* --Select--

Period Specific Date

From Date* 05/21/2020

To Date* 05/21/2020

Device VM

Chart Type Bar

Order by ASC

Mibs

☒ CPU ☒ Disk Out

☒ Memory ☒ Network In

☒ Disk In ☒ Network Out

No. of records 5

Export And Segregation Filters

Aggregation AVG

Export Type Select Type

Export

Show Report Reset

Figure 383 - Top-Bottom Nodes (Cont.)

Reports appear in a graphical form, as shown below:



Figure 384 - Top-Bottom Nodes (Cont.)

If a user want to export the file, follow the below steps:

- a. Select Aggregation.
- b. Select File Output as PDF, Excel, or CSV.
- c. Click **Export**.

Figure 385 – Export Functionality

The file gets downloaded on the system.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.4 My Bills

This step explains how to view the billing related information for virtual servers used in an organization on regular basis.

Reports are viewed based on the role of a logged in user:

- User views the report for specific year/month.
- User views billing cost of virtual servers.

To view the Billing Reports, user needs to follow the below steps:

1. On the main menu bar, click **My Reports**, and then click **My Bill**.
2. The **Billing Report** screen appears and allows the user to fill the details in the form to get billing related reports.

Figure 386 – My Bills

Refer the below table to understand the fields mentioned in the above figure.

Table 68 – My Bills

Fields	Description
Provider	Lists the name of Cloud service providers
Organization	Lists the name of organization.
Platform	Provide the name of Cloud service providers
Provisioning Endpoint	Lists the name of environment (cloud endpoint). Only enabled Endpoints configured in billing Configuration Screen at Provider Admin level, will be populated here.
Month	Name of the Month for which the user wants to view report.
Year	Year for which the user wants to view report.

To view the Billing Report, user needs to follow the below steps:

- [Cloud Filter- It allows the user to filter the results. Based on the requirement, Only the cloud Provisioning Endpoint related reports are fetched.](#)
 - a. Select **Provider**.
 - b. Select Organization.
 - c. Select Platform and Provisioning Endpoint.
 - d. select duration in terms of **Months** and **Years**.
 - e. Click Show Report.

The screenshot shows the 'Billing Report' interface. It includes a 'Cloud Filters' section with dropdowns for Provider (hcl provider), Organization (HclOrg), Platform (Compute on Demand-vCenter), Provisioning Endpoint (All), Month (May), and Year (2020). Below this is an 'Export' section with an 'Export Type' dropdown and an 'Export' button. At the bottom, there are 'Show Report' and 'Reset' buttons. A summary table displays the following information:

Bill Number :	16052020	Bill Date :	21-May-2020
Bill Period :	May-2020	Bill Amount :	

Below the summary table, there is a 'VM Details' section which currently shows 'No Data Found'.

Figure 387 - My Bills (Cont.)

Report appears in the tabular form as shown below.

- f. Click **Expand (+)** to view more details.

- c. The file gets downloaded.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.5 My Bills New

This step explains how to view the billing related information for virtual servers used in an organization on regular basis.

Reports are viewed based on the role of a logged in user:

- User views the report for specific year/month.
- User views billing cost of virtual servers.

To view the Billing Reports, user needs to follow the below steps:

1. On the main menu bar, click **My Reports**, and then click **My Bill New**.
2. The **Billing Report** screen appears and allows the user to fill the details in the form to get billing related reports.

Figure 390 - My Bills New

Refer the below table to understand the fields mentioned in the above figure.

Table 70 – My Bills

Fields	Description
Provider	Lists the name of Cloud service providers
Organization	Lists the name of organization.
Platform	Provide the name of Cloud service providers
Provisioning Endpoint	Lists the name of environment (cloud endpoint). Only enabled Endpoints configured in billing Configuration Screen at Provider Admin level, will be populated here.
Month	Name of the Month for which the user wants to view report.
Year	Year for which the user wants to view report.

To view the Billing Report, user needs to follow the below steps:

- [Cloud Filter](#)- It allows the user to filter the results. Based on the requirement, Only the cloud Provisioning Endpoint related reports are fetched.

Display Name	Name to be displayed against the Resource being created
Total Cost	Total cost incurred against the resource
Duration	Lease period
Provision Date	Provisioning Date
Decommission Date	Decommissioning date
Service Plan	Resource category created by the provider i.e. platinum, gold or bronze
Resource Name	Name of object.

- Select **Provider**.
- Select Organization.
- Select Platform and Provisioning Endpoint.
- Select duration in terms of **Months** and **Years**.
- And if you want to apply any custom filter which is not present in Cloud Filter section, then use Additional Filters.
- Click Show Report.

Table 71 - My Bills Fields

Figure 391 - My Bills (Cont.)

- Report appears in the tabular form as shown below.

Service Catalog	Total Bill (INR)	Resource Count
⊕ Cisco Cluster Storage Test	67200.00	2
⊕ CiscoCostingTesting	11111.40	1
⊕ test Cost Calculate	36497.00	1
⊕ Workflow With Approval	949.25	1

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Figure 392 - My Bills (Cont.)

h. Click **Expand (+)** to view more details.

Service Catalog	Total Bill (INR)	Resource Count
⊖ Cisco Cluster Storage Test	67200.00	2

Cost Type	Amount (INR)
Per Day Cost ⓘ	31560.00
One Time Cost ⓘ	0.00
Recurring Cost ⓘ	35640.00

Resource Name	Total Cost	Request No	Lease Period	Provision Date	Service Plan	No of Days Billed
⊕ mycloud0227	33600.00	Imported	12 Month(s)	2023-01-11	platinum	20
⊕ mycloud0229	33600.00	Imported	20 Week(s)	2023-01-11	platinum	20

Figure 393 - My Bills (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 72 - My Bills Fields

Fields	Description
View	Allows the user to view detailed report
Service Catalog	Name of service catalog which is use for resource deployment
Total Bill	Total cost incurred against the Service Catalog
Resource Count	Total No. of source deploy using this publish service catalog
Per day cost	Per day charges
One day cost	One day charges

mycloud0227	52080.00	Imported	12 Month(s)	2023-01-11	platinum
Item Name	No. of Units	Unit Price (INR)	Billing Frequency	Cost (INR)	
Per Day Cost					
Cisco Cluster Storage Test (Catalog)	1	2.00	NA	62.00	
Catalog CPU	8	0.00	NA	1,240.00	
Catalog Memory (GB)	16	5.00	NA	2,480.00	
Tier-1 (GB)	220	3.00	NA	20,460.00	
AGService (Service)	1	0.00	NA	155.00	
backup (Service)	1	3.00	NA	62.00	
Total Bill (INR)				24459.00	
One Time Cost					
Cisco Cluster Storage Test (Catalog)	1	0.00	NA	0.00	
Catalog CPU	8	0.00	NA	0.00	
Catalog Memory (GB)	16	3.00	NA	0.00	
Tier-1 (GB)	220	0.00	NA	0.00	
AGService (Service)	1	0.00	NA	0.00	
backup (Service)	1	0.00	NA	0.00	
Total Bill (INR)				0.00	
Recurring Cost					
Cisco Cluster Storage Test (Catalog)	1	11.11	Per Week	0.00	
Catalog CPU	8	0.00	Per Week	106.33	
Catalog Memory (GB)	16	3.00	Per Week	212.66	

Figure 394 - My Bills (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 73 - My Bills Fields

Fields	Description
Item Name	Resource name
No. of unit	No of unit
Unit price	Per Unit price
Billing Frequency	Total No. of source deploy using this publish service catalog
Total Cost	Total cost incurred against the resource
Per day cost	Per day charges
One day cost	One day charges

If a user want to export the file, follow the below steps:

- a. Select **File Output** as PDF, or CSV.
- b. Click **Export**.

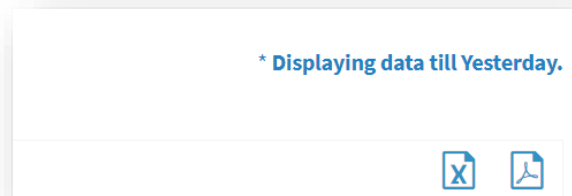


Figure 395 – Export Functionality

- c. The file gets downloaded.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.6 Request Tracking

This report helps in tracking the requests for specific cloud platforms.

Reports data are viewed based on the role of the logged in user.

- User views the detailed status of requests given by requester.
- User views the status of tasks corresponding to the requests.

To view the Request Tracking Reports, user needs to follow the below steps:

1. On the main menu bar, click **My Reports**, and then click **Request Tracking**.
2. The **Request Tracking Report** screen appears and allows the user to fill the details in the form to get reports related to Request Tracking:

Figure 396 – Request Tracking

Refer the below table to understand the fields mentioned in the above figure.

Table 74 – Request Tracking Filter Parameters

Fields	Description
Organization	Displays the name of organization
Platform	Provide the name of Cloud service providers
Provisioning Endpoint	Displays the name of environment (cloud endpoint).
Status	Displays all possible status of the requests
Search Key	Displays all UI keys for quick filtering
Request Number	Filter using Specific Request Number

To view the Request Tracking, user needs to follow the below steps:

- [Filter: It allows the user to filter the results. Only the cloud environment related reports are fetched.](#)
 - a. Select **Organization**.
 - b. Select **Platform**.
 - c. Select **Provisioning Endpoint**.
 - d. Select **Status**.
 - e. Select **Key** and **Type Value**.
- Or
- f. Provide Request Number
- g. Click Show Report.

Reports appear in a tabular form, as shown below:


	Request No	Service Catalog	Requested Action	Platform	Provisioning Endpoint	Request Status	Request Date	Requester Name
+	SRREQ001363	Service_Plyush_Final	Request Provisioning	Compute on Demand-vCenter	vCenterProvisioning	Fulfilment Completed	09/16/2022 14:23:54	HCL Requester
-	SRREQ001362	Service_Plyush_Final	Request Provisioning	Compute on Demand-vCenter	vCenterProvisioning	Pending By IT Approval	09/16/2022 14:19:36	HCL Requester
+	SRREQ001361	Service_Plyush_Final	Request Provisioning	Compute on Demand-vCenter	vCenterProvisioning	Fulfilment Completed	09/16/2022 13:42:54	HCL Requester

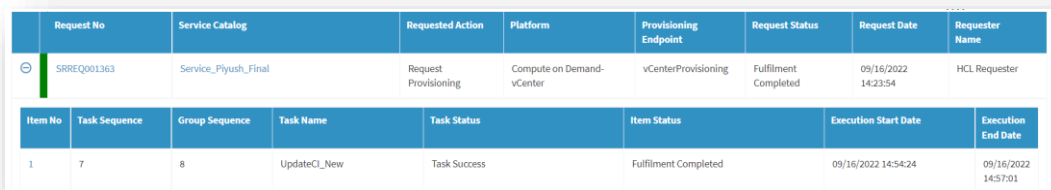
Figure 397 – Request Tracking (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 75 – Request Tracking Fields

Fields	Description
Request No	Request number of the request
Catalog Name	Name of catalog used to place the request
Platform	Name of the cloud platform
Provisioning Endpoint	Name of environment (cloud endpoint).
Request Status	Status of the request
Request Date	Date on which request was made
Requester Name	Name of the requester.

- h. Click **Expand** () on the left navigation bar of a Request as shown in expands the grid and display the Tasks details of the selected Request.



Request No	Service Catalog	Requested Action	Platform	Provisioning Endpoint	Request Status	Request Date	Requester Name
SRREQ001363	Service_Piyush_Final	Request Provisioning	Compute on Demand-vCenter	vCenterProvisioning	Fulfillment Completed	09/16/2022 14:23:54	HCL Requester

Item No	Task Sequence	Group Sequence	Task Name	Task Status	Item Status	Execution Start Date	Execution End Date
1	7	8	UpdateCI_New	Task Success	Fulfillment Completed	09/16/2022 14:54:24	09/16/2022 14:57:01

Figure 398 – Request Tracking (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 76 – Request Tracking Fields

Fields	Description
Item No	Item number of the request.
Task Sequence	Sequence of the Task.
Task Name	Name of the Task
Status	Status of the Task
Execution Start Date	Time at which execution is started.
Execution End Date	Displays the date with time at which the execution ended.

3.1.5.7 Request Analytical Report

This report helps to view reports related to SRs created by different requesters.

Report data is viewed based on the role of the logged in user.

- User views all the requested VM by requesters.
- User views all the requested data on click VM requested by requester.

- User views the status of VM.

To view Request Analytical Reports, user needs to follow the below steps:

1. On the main menu bar, click **My Reports**, and then click **Request Analytical Report**.
2. The **Request Analytical Report** screen appears and allows the user to fill the details in the form to get request analytical report.

Figure 399 – Request Analytical Report

Refer the below table to understand the fields mentioned in the above figure

Table 77 – Request Analytical Report

Fields	Description
Provider	Displays the name of Cloud service providers
Organization	Displays the name of organization
Platform	Displays the name of Cloud service providers
Provisioning Endpoint	Displays the name of environment (cloud endpoint).
User Mail	Mail address of requester
Select User	Requested user
From Date	Report starting date
To Date	Report ending date
Status	Current status of request
Export – Select Type	List of Export Types

To view the Request Analytical Report, user needs to follow the below steps:

- **Cloud Filter**- It allows the user to get the filtered result. Based on the requirement, Only the cloud environment related reports are fetched.
 - a. Select **Provider** and **Organization**.
 - b. Select Platform and Provisioning Endpoint.
 - c. Enter User Mail.
 - d. Select **User**.
 - e. Select From Date and To Date.

All the fields marked with an asterisk (*) are mandatory.

- f. Click **Show Report** to get the results.

If a user wants to draw next level report, then refer to organization filter.

Figure 400 - Request Analytical Report (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 78 - Request Analytical Report

Fields	Description
Request ID	MyCloud request unique identifier
Order Date	Date on which request is created
Name	Requester name
Organization Name	Name of organization of user
Status	Displays the status of the request

- g. Click **Expand** (+) under Request Id which expands the grid and display the details of selected VM.




Request ID	Request Date	Name	Organization Name	Status
 SRREQ000055	16 May 2020	requester(requester@hcl.com)	mycloudHCL_ORG	Auto Approved
 SRREQ000054	14 May 2020	requester(requester@hcl.com)	mycloudHCL_ORG	Fulfillment Completed
 SRREQ000053	14 May 2020	requester(requester@hcl.com)	mycloudHCL_ORG	Fulfillment Completed
Request ID	Catalog Name	Provision Date	Provisioning Endpoint	
SRREQ000053-1		14 May 2020	VcenterDev	

Figure 401 - Request Analytical Report (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 79 - Request Analytical Report Field

Fields	Description
Request ID	MyCloud request unique identifier
Catalog Name	Displays the name of the selected catalog
Provision Date	The date on which a resource is provisioned
Provisioning Endpoint	Displays the name of environment (cloud endpoint).

- h. Click on **Request ID** prompt the **Order Detail**.

Request Details

Request No	SR-REQ00000009	Location Name	NA
Request Date (mm/dd/yyyy)	08/01/2019	Catalog Name	Windows Server 2012 R2 Standard Edition
Region Name	eastus	Requester Name	Requester
Platform	Microsoft Azure (ARM)	Environment	ARMISM
RequestType	Vm Provisioning		

Item : 1

General Information	Instance Details	Tags
---------------------	------------------	------

Provision Date	08/02/2019	Period	3
Period Value	Day(s)	Location	eastus
Service Plan	Gold	Cost Type	Time Based model
VM Display Name	mycloudTestVM	Remarks	
IPAddress		ServerName	
ResourceType	MANAGEDVIRTUALMACHINES		

Approval History

No Record Found

Figure 402 - Request Analytical Report (Cont.)

If a user want to export the file, follow the below steps:

- Select file output as **PDF, Excel, or CSV**.
- Click **Export**.

Export

Select Type

Export

Figure 403 - Request Analytical Report (Cont.)

The file gets downloaded on the system.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.8 Request Trend Compare

This section explains how to view the request trend compare reports of selected date range which includes the status of VMs such as approved, pending, cancelled, and so on.

To view the Request Trend Compare Reports,

1. On the main menu bar, click **My Reports**, and then click **Request Trend Compare**.
2. The **Request Trend Compare** screen appears and allows the user to fill the details in the form to get a request trend report:

The screenshot shows the 'Request Trend Compare' interface. It features a 'Cloud Filters' section at the top with dropdowns for Provider (PVDemo), Organization (JSHCL), Platform (Compute on Demand-vCenter, Amazon Web Services (AWS), Microsoft Azure (ARM)), Provisioning Endpoint, User Mail (requester@hcl.com), and Select User (requester@hcl.com/requester@hcl.com). Below this is a section for 'Aggregation' with 'Date-Range', 'Graph Type' (Daily), and 'Period' (Today). The 'Chart Type' is set to 'Line'. The 'From Date' is 02/15/2021 and the 'To Date' is 02/15/2021. The 'Status' section includes a list of statuses: 1. Approved, 2. Auto Approved, 3. Fulfillment Completed, 4. Fulfillment In-Progress, 5. Pending Approval, 6. ReferBack, 7. Rejected. The 'Activity Type' is 'Do Work'. The 'Report Type' is 'Comparison Report'. The 'Export' section has an 'Export Type' dropdown and an 'Export' button.

Figure 404 - Request Trend Compare

Refer the below table to understand the fields mentioned in the above figure.

Table 80 - Request Trend Compare Fields

Fields	Description
Provider	Name of Cloud service providers
Organization	Displays the name of the organization
Platform	Displays the name of cloud service providers
Provisioning Endpoint	Displays the name of environment (cloud endpoint)
User Mail	Mail address of requester
Select User	Requested user
Aggregation	Range or type of aggregation
Graph Type	Lists various time periods, based on which data visualization takes place at the chart level
Period	Period is the time frame for which user wants data to populate
Chart Type	Defines the type of chart
From Date	Start date of period
HH:MM	Start time of period
To Date	End date of period
HH:MM	End time of period
Status	Filters the status options
Activity	List all type of request
Filters	List all available filter like status, platform, organization
Export – Select Type	List of Export Types

To view the request trend, compare report, user needs to follow the below steps:

- [Cloud Filter- It allows the user to get the filtered result. Based on the requirement user gets the result only from cloud environment.](#)
 - a. Select **Provider** and select **Organization**.
 - b. Select Platform and select Provisioning Endpoint.
 - c. Enter the **User Mail** and select **User**.
 - d. Select Aggregation and Graph Type.
 - e. Select **Period** and select **Chart Type**.
 - f. Select From Date and To Date.
 - g. Click **Show Report** to get the results.

Figure 405 - Request Trend Compare (Cont.)

To view the Status, user needs to follow the below steps,

- Select the Report Status.
- Select Activity Type.
- Select Report Type.
- Select **Filters**.

Figure 406 - Request Trend Compare (Cont.)

- Click **Show Report** to get the report based on the status selected.

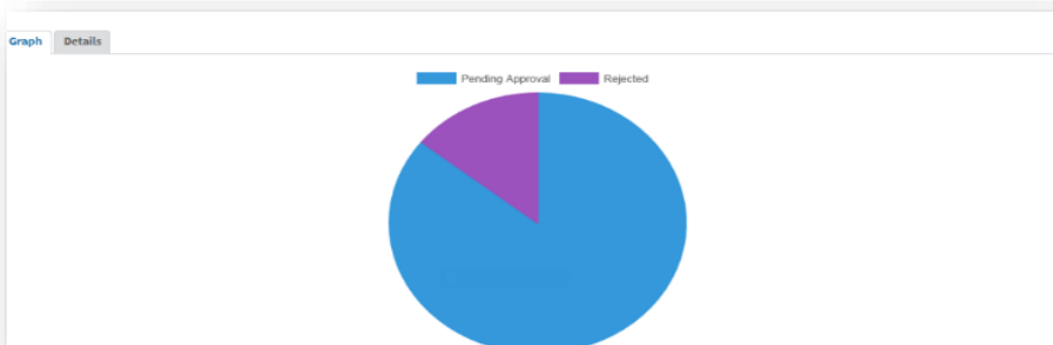


Figure 407 - Request Trend Compare (Cont.)

- Rollover, on the pie chart, to get additional information.

My Cloud					
	Request ID	Order Date	Name	Organization Name	Status
	SR-OR00000325	05 Jul 2018	Requester(demouser)	HCL	Pending Approval
	SR-OR00000326	05 Jul 2018	Requester(demouser)	HCL	Pending Approval
	SR-OR00000392	18 Jul 2018	Requester(demouser)	HCL	Pending Approval
	SR-OR00000398	20 Jul 2018	Requester(demouser)	HCL	Pending Approval
	SR-OR00000422	31 Jul 2018	Requester(demouser)	HCL	Pending Approval
	SR-OR00000423	31 Jul 2018	Requester(demouser)	HCL	Pending Approval

Figure 408 - Request Trend Compare (Cont.)

Refer the below table to understand the fields mentioned in the above figure.

Table 81 - Request Trend Compare Fields

Fields	Description
Request ID	MyCloud request unique identifier
Order Date	Date on which request is created
Name	Requester name
Organization Name	Name of organization of user
Status	Displays the current status of the request

- g. Clicking **Expand** (+) under Request Id expands the grid and display the details of selected VM.

Request ID	Order Date	Name	Organization Name	Status
<div><div></div><div>SR-REQ000000013</div></div>	02 Aug 2019	Requester(requester@hcl.com)	DemoTestOrg	Approved
<div><div></div><div>SR-REQ000000009</div></div>	01 Aug 2019	Requester(requester@hcl.com)	DemoTestOrg	Approved
Request ID	Catalog Name	Provision Date	Environment	
SR-REQ000000009-1	Windows Server 2012 R2 Standard Edition	01 Aug 2019	ARM5M	

Figure 409 - Request Trend Compare (Cont.)

- h. Click **Request ID** to get the **Order Detail**.

Request Details			
Request No	SR-REQ00000095	Location Name	NA
Request Date (mm/dd/yyyy)	08/21/2019	Catalog Name	
Region Name		Requester Name	Requester
Platform	Amazon Web Services (AWS)	Environment	
RequestType	Add Disk		
Item : 1			
Disk			
Instance Id	i-07276bdad74a94ea3	Availability Zone Name	us-east-1a
Volume Size	4	EBS Type	io1
IOPS	100	Device Name	/dev/sde
Approval History			
No Record Found			

Figure 410 - Request Trend Compare (Cont.)

If a user wants to export the file, follow the below steps:

- a. Select file output as **PDF or CSV**.
- b. Click **Export**.

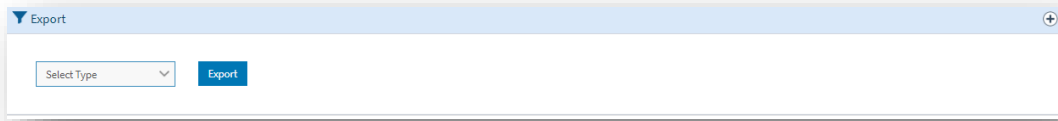


Figure 411 - Request Trend Compare (Cont.)

- c. The file gets downloaded on the system.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.9 SLA Report

The SLA report is an on-demand report where a user reviews the SLA status of an object (VM) over a period that the user specifies. This step details how to manage the SLA reports that relate to the running tasks and the status of the task process.

To view the SLA Reports,

1. On the main menu bar, click **My Reports**, and then click **SLA Report**.
2. The **SLA Report** screen appears and allows the user to fill the details in the form to get the desired SLA report.

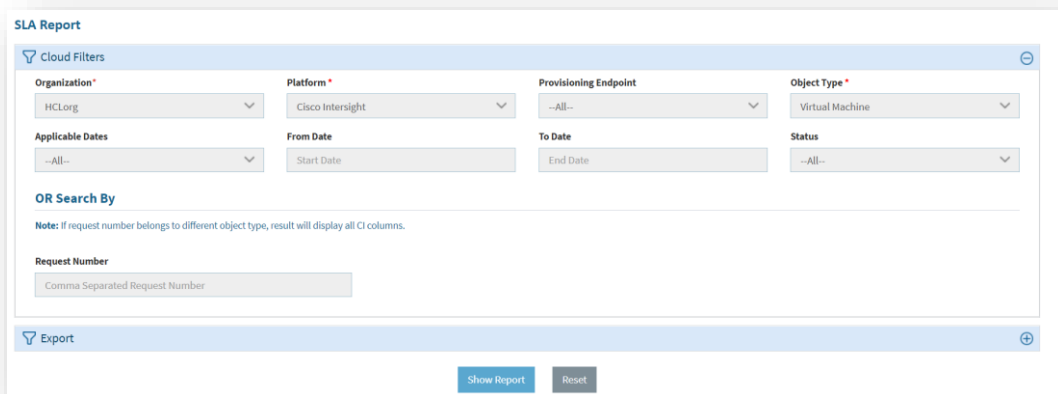


Figure 412 - SLA Report

Refer the below table to understand the fields mentioned in the above figure.

Table 82 - SLA Report Fields

Fields	Description
Organization	Displays the name of organization
Platform	Name of Cloud service providers
Provisioning Endpoint	Name of environment (cloud endpoint)
Status	Segregate reports status wise
CI Type	Display the Request Type
Request Number	Request Number
Export – Select type	List of Export Types

To view the SLA Report, user needs to Follow the below steps:

- [Cloud Filter- It allows the user to filter the results. Based on the requirement user gets the result only from cloud environment.](#)
 - a. Select Organization, Platform and Provisioning Endpoint.
 - b. Select **Status**.
 - Or
 - c. Only enter **Request No.** for which the user requires a report.

All the fields marked with an asterisk (*) are mandatory.

- d. Click **Show Report** and the report appears in a tabular view.

All dates are in MM/dd/yyyy HH:mm:ss format											
Request No	CI Type	Request Type	CI Name	Request Date	Approval Date	Completion Date	Configured SLA(In Minutes)	Total Time(In Minutes)	Platform	Provisioning Endpoint	Requester Name
SRREQ000006-1	Virtual Machine	VM Customization	6319415243861367066	02/12/2021	NA		0	4289	Google Cloud (GCP)	GcpDev	requester@hcl.com

Figure 413 – SLA Report

Refer the below table to understand the fields mentioned in the above figure.

Table 83 – SLA Report Tabular View Fields

Fields	Description
Request No	Unique request number
CI Type	Object type for the request
CI Name	Name provided by requester
Request Date	Date on which request is placed
Approval Date	Date on which request is approved
Completion Date	Date on which request is completed
Configured SLA	Standard SLA period for the request
Total Time	Time taken in request completion after approval
Platform	Name of cloud service providers
Provisioning Endpoint	Name of environment (cloud endpoint)
Requester Name	Name of the user placed the request.

If a user want to export the file, follow the below steps:

- a. Select file output as **CSV**.
- b. Click **Export**.

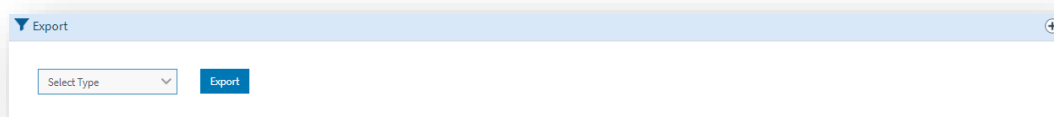


Figure 414 – SLA Reports (Cont.)

- c. The file gets downloaded on the system.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.10 Finance Report

The Finance report is an on-demand report where a user reviews the bills of private cloud over a period that the user specifies. This step details how to manage the Finance reports.

To view the Finance Reports,

1. On the main menu bar, click **My Reports**, and then click **Finance Report**.
2. The **Finance Report** screen appears and allows the user to fill the details in the form to get the desired Finance report.

The screenshot shows the 'Finance Report' interface. It features a 'Cloud Filters' section with three dropdown menus: 'Provider' (set to 'hclprovider'), 'Organization' (set to '--Select--'), and 'Platform' (set to '--Select--'). Below these are 'Provisioning Endpoint' (set to 'All'), 'Start Date' (set to 'Start Date'), and 'End Date' (set to 'End Date'). There are 'Export' and 'Additional Filter' sections, each with a plus icon. At the bottom, there are 'Show Report' and 'Reset' buttons.

Figure 415 – Finance Report

Refer the below table to understand the fields mentioned in the above figure.

Table 84 – Finance Report Fields

Fields	Description
Provider	Displays the name of Provider of the logged in user
Organization	Displays the name of organization
Platform	Name of Cloud service providers
Provisioning Endpoint	Name of environment (cloud endpoint)
Start Date	Starting Date of the Report
End Date	Ending Date of the Report
Additional Filters	If any extra filter is provided on any Custom Fields

To view the Finance Report, user needs to Follow the below steps:

- [Cloud Filter- It allows the user to filter the results. Based on the requirement user gets the result only from cloud environment.](#)
 - a. Select Organization, Platform and Provisioning Endpoint.
 - b. Select **Start Date** and **End Date**.
 - c. And if you want to apply any custom filter which is not present in Cloud Filter section, then use Additional Filters.

The screenshot shows the 'Additional Filter' section. It includes a note: 'NOTE: Enter comma(,) separated Filter Values in case of 'IN' Filter Operator.' Below the note are three dropdown menus: 'Filter Type' (set to '--Select--'), 'Filter operators' (set to '--Select--'), and 'Filter Text' (empty). There is a green plus icon to the right of the 'Filter Text' dropdown.

Figure 416 – Finance Report Additional Filter

- d. Click **Show Report** and the report appears in a tabular view.

All the **Fields** marked with an asterisk (*) are mandatory.

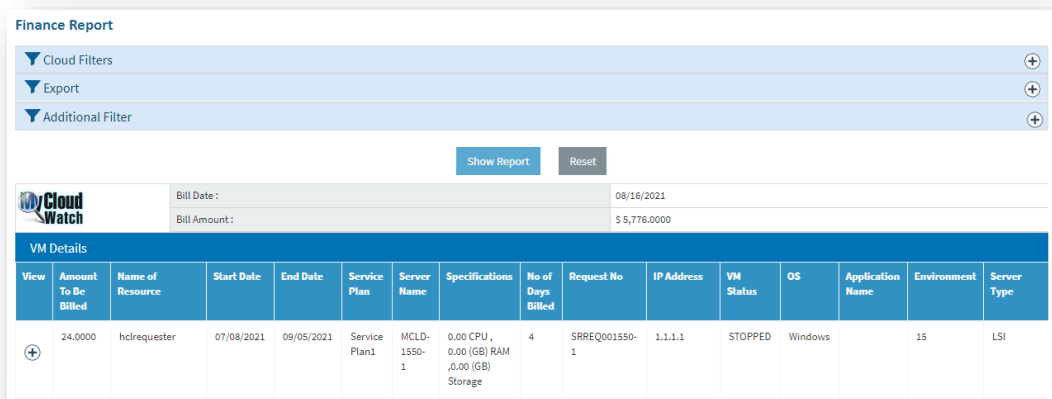


Figure 417 - Finance Report

Refer the below table to understand the **Fields** mentioned in the above figure.

Table 85 – Finance Report Tabular View Fields

Fields	Description
Bill Date	Date on which Report is generated
Bill Amount	Total Amount Billed
View	To View the Details of the selected row.
Sap Code	Configurable column and can be used to store unique identifier
Project Code	Configurable column and can be used to store unique identifier
Amount to be Billed	Total billing amount
Currency	Currency Code in which Billing amount has been generated
Billing Frequency	The Periodic interval at which billing is generated
Name of Resource	Name of the Requester
Start Date	Provision Date of VM
End Date	Decommission Date of VM
Service Plan	Service Plan Name associated to Service Catalog
Server Name	Name of the VM
Specification	VM details
No of Days Billed	No days at which billing is generated
Request No	Resource Request Number
Project Name	Configurable column and can be used to store unique identifier
IP Address	IP of VM
VM Status	Status of VM
OS	OS Type of VM
Current RM	Configurable column and can be used to store unique identifier

If a user want to view the details of VM, follow the below steps:

- a. Click on (). Hardware and Items wise Bill details will show up.

MyCloud

Watch

Bill Date :

08/16/2021

Bill Amount:

\$ 5,776.0000

VM Details

View	Amount To Be Billed	Name of Resource	Start Date	End Date	Service Plan	Server Name	Specifications	No of Days Billed	Request No	IP Address	VM Status	OS	Application Name	Environment	Server Type
<div>⊖</div>	24.0000	hclrequester	07/08/2021	09/05/2021	Service Plan1	MCLD-1550-1	0.00 CPU , 0.00 (GB) RAM ,0.00 (GB) Storage	4	SRREQ001550-1	1.1.1.1	STOPPED	Windows		15	LSI

Hardware Details

Source	CPU (#)	Memory (GB)	DISK (GB)
Catalog	1.00	2.00	0.00

Your Item wise Bill

Resource Name	Total Cost (\$)
Catalog - catalog test venter support SCSI	0.0000
Component - Catalog CPU	8.0000
Component - Catalog Memory	16.0000

Figure 418 – Finance Report

Refer the below table to understand the **Fields** mentioned in the above figure.

Table 86 – SLA Report Tabular View Fields

Fields	Description
Hardware Details	Hardware information for which bill has been generated
Source	What is the source of getting the CPU, Memory, Disk Information
CPU (#)	No. CPU associated to the VM
Memory (GB)	Memory associated to the VM
Disk (GB)	Size of Disk associated to the VM
Item wise Bill	Item wise billing information
Catalog – {Catalog Name}	Charges for Catalog
Component - Catalog CPU	Charges for CPU utilization
Component - Catalog Memory	Charges for Memory consumption
Storage - Catalog Storage	Charges for Storage usage

If a user want to export the file, follow the below steps:

- Select file output as **PDF, Excel, or CSV**.
- Click **Export**.

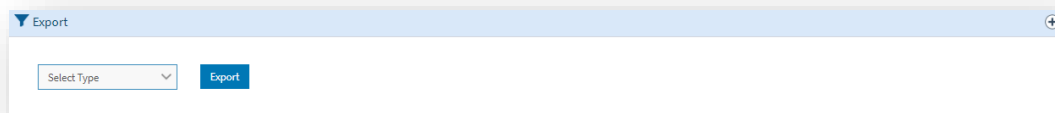


Figure 419 - Finance Reports (Cont.)

- d. The file gets downloaded on the system.

All the fields marked with an asterisk (*) are mandatory.

3.1.5.11 Public Cloud Billing

This report gives the list of Billed usage details. User can drill down the data up to Resource level.

To get in-depth details of Public Cloud Billing. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.12 Public Cloud Annual Billing Analysis

This Report provides the comparison of expenses of Cloud Subscription of Last 12 Months.

To get in depth details of Public Cloud Annual Billing Analysis. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.13 Amazon Monthly Billing Analysis

This Report provides the details of Monthly Bill for Amazon. Data is the Line item of Amazon Usage Bill.

To get in depth details of Amazon Monthly Billing Analysis. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.14 Public Cloud Billing Analyser

This Report provides the Dashboard view to analyze the Billing. Its Show's Multiple widgets to give glimpse from different aspects.

To get in depth details of Public Cloud Billing Analyzer. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.15 Amazon Service Report

This Report provides Service Wise Billing for All Amazon Accounts or specific Amazon account.

To get in depth details of Amazon Service Report. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.16 Azure Service Usage Report

This Report provides the Service-wise Billing for All Azure Accounts or specific Azure Account for Specific Months Range.

To get in depth details of Azure Service Usage Report. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.17 Request Task Management

This Report provides the list of Task Level details against the Request Item. User can also take Actions (Restart, Complete) on Task. Different color codes are used to determine the Task Status.

To get in depth details of Request Task Management. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.18 vCenter Performance Dashboard

This Report provides the complete health of vCenter. This report has multiple widgets for different vCenter Resources for their respective performances. All resources can be drilled down with lowest level of performance information.

To get in depth details of vCenter Performance Dashboard. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.19 vCenter Performance Report

This Report provides the nested Visualization of vCenter. Starting from Topmost Datacenter Level, User can view the data to Lower-level resources Like Datastore

To get in depth details of vCenter Performance Report. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

3.1.5.20 Request Task Management (OT)

This report is same as [Request Task Management](#). But the difference is that it does not allow user to perform Action(s) like: Restart a Task, Complete the Task.

To get in depth details of Request Task Management. Kindly refer to the ***DRYiCE MyCloud Configuration Guide - Provider Module***.

4 Support

To get support for this product, please drop an email to MyCloud-ProdSupport-Team@hcl-software.com.

HCLSoftware

hcltechsw.com