



HCL DRYiCE

MyCloud

Configuration Guide – Provider Guide Part 1

Version 10.8.2



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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 Configuration Guide.

Version Date	Description
May, 2020	DRYiCE MyCloud v9.2 Configuration Guide – Provider Module (Part 1)
August, 2020	DRYiCE MyCloud v10.0 Configuration Guide – Provider Module (Part 1)
November, 2020	DRYiCE MyCloud v10.1 Configuration Guide – Provider Module (Part 1)
February, 2021	DRYiCE MyCloud v10.2 Configuration Guide – Provider Module (Part 1)
April, 2021	DRYiCE MyCloud v10.4 Configuration Guide – Provider Module (Part 1)
October, 2021	DRYiCE MyCloud v10.5 Configuration Guide – Provider Module (Part 1)
September, 2022	DRYiCE MyCloud v10.6 Configuration Guide – Provider Module (Part 1)
August, 2023	HCL_DRYiCE_MyCloud_10.7_Configuration_Provider_Guide_Part1
April, 2024	HCL_DRYiCE_MyCloud_10.8_Configuration_Provider_Guide_Part1
September, 2024	HCL_DRYiCE_MyCloud_10.8.1_Configuration_Provider_Guide_Part1
February, 2025	HCL_DRYiCE_MyCloud_10.8.2_Configuration_Provider_Guide_Part1

1 Preface

This section provides information about the MyCloud Configuration Guide and includes the following topics:

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

1.1 Intended Audience

This document is intended for IT administrators/ Business Administrators those are responsible for configuring MyCloud (Provider Module) and enabling end-users to consume MyCloud services.

1.2 About this Guide

This guide provides instructions to configure MyCloud. This includes the post-installation and configuration procedures for the product.:

- MyCloud Overview
- MyCloud Configuration and Management

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 User Guide
- MyCloud Troubleshooting Guide
- MyCloud API Guide
- MyCloud V3 API Guide
- MyCloud Developer Guide
- MyCloud Configuration Guide - Admin Module
- MyCloud Configuration Guide - Provider Module - Part 2

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 cross-reference and links
Italic	Indicates document titles, occasional emphasis, or glossary terms

Courier New (Font)	Indicates commands within a paragraph, URLs, code in examples, and paths including onscreen text and text input from users
Numbered lists	Indicates steps in a procedure to be followed in a sequence
Bulleled lists	Indicates a list of items that is not necessarily meant to be followed in a sequence

2 MyCloud Overview

MyCloud is a proactive multi-cloud lifecycle management product that empowers organizations to govern, provision, monitor, and manage cloud infrastructure. It combines data exploration and data visualization in an easy-to-use application to enable an effective analysis and actionable insights for IaaS and PaaS. The data-driven recommendations and advisories of MyCloud ensure continuous optimization of the cloud environment across areas that include cost, security, faults, and utilization.

2.1 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 & show back:**
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 mechanism.

2.2 MyCloud Component Overview

MyCloud has various service components to cater respective responsibilities. Each component has pre-requisites. Below table lists all the components, their roles and responsibilities and pre-requisites required for each component.

Table 2 – MyCloud Component with their roles and responsibilities and pre-requisites

Component Name	Description	Pre-requisites
MyCloud Portal	It comprises three sub-components: Web UI: MyCloud Web Portal MyCloud API: Rest API to Interact with MyCloud Key Rotation Service: To rotate the encryption key on a periodic basis. This component requires MyCloud database connectivity.	IIS, MyCloud Certificate, .Net Framework 4.8
Job Listener	It helps in the execution of MyCloud jobs and interacting with different components internally. This is a window service. This component requires the MyCloud database connectivity.	MyCloud Certificate, .Net Framework 4.8
Sync Service	It is responsible for synchronization of the underlying infrastructure cloud resources. It supports vCenter, AWS, AzureRM, SCVMM 2012 and GCP. This is a self-hosted WCF service.	MyCloud Certificate, .Net Framework 4.8
Ad Sync Service	It fetches AD group user data. This is a self-hosted WCF service.	MyCloud Certificate, .Net Framework 4.8
Workflow Service	It triggers MyCloud process workflow and notification service. This is a self-hosted WCF service. It requires MyCloud database connectivity.	MyCloud Certificate, .Net Framework 4.8, MSMQ/Rabbit MQ
Orchestrator	It helps in provisioning and automating other Tasks. This is a self-hosted WCF service.	MyCloud Certificate, .Net Framework 4.8, PowerShell, Python 3.6
ITSM executor	It helps in interacting with ITSM tools. Currently, it only supports ServiceNow and Remedy. It is a self-hosted WCF service and requires MyCloud database connectivity.	MyCloud Certificate, .Net Framework 4.8
Health Monitor Service	It helps in monitoring the health of MyCloud Components. It is a self-hosted WCF Service and requires MyCloud database connectivity.	MyCloud Certificate, .Net Framework 4.8

Component Name	Description	Pre-requisites
Generic Task Executor	It helps in Private Cloud Billing, Data Purging and Cost Models Activation. This is a self-hosted WCF service and requires MyCloud database connectivity.	MyCloud Certificate, .Net Framework 4.8
Billing Service	It enables Public Cloud Billing. This is a self-hosted WCF service and requires MyCloud database connectivity.	MyCloud Certificate, .Net Framework 4.8
Performance Service	It is responsible for metering and Public Cloud advisory data collection. This is a self-hosted WCF service.	MyCloud Certificate, .Net Framework 4.8
Database	MyCloud uses DB to store configuration and transactional data of request.	SQL Server 2016 Standard/Enterprise edition
Cisco Intersight Sync Service	It is responsible to sync cisco Intersight resources. This is a self-hosted WCF service.	MyCloud Certificate, .Net Framework 4.8

2.2.1.1 Component URL Configuration

To configure the below components of MyCloud, Provider needs to follow the steps as described in Component URL section under Admin module in the Admin Guide. Please refer to the document **MyCloud Configuration Guide - Admin Module** for the same.

- AD
- Performance
- Orchestrator
- Sync

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**
 - 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 MyCloud Configuration and Management

MyCloud environment is an extensive open distributed system that stores the data and protects the privacy of users. A user's role determines the tasks that the user will be able to perform. Each role is associated with permissions or rules that define the degree to access the features in MyCloud.

The following lists five fundamental built-in roles.

Table 3 – Built-in Roles

Section Name	Description
MyCloud Admin	MyCloud Admin has the rights to manage providers, admin level jobs and other component related configurations.
Provider Admin	Provider Admin is a business manager or an IT administrator, responsible for configuring MyCloud as per the organization requirements. The primary responsibilities are: • Manages and configures the Organization. • Manages the users and groups (within the Organization) • Manages UI Template • Manages services Catalog. • Creates approval groups and Workflows. • Manage Organization Resources • Manage Domains/AD Users in Organizations • Request status tracking
Organization Admin	Organization Admin has the rights to manage the users, roles, and groups assigned to them (organization-specific)
Requester	Requester has the rights to request for Infrastructure resources (IaaS & PaaS services) view or manage reports related to the resources.
Approver	Approver has the rights to approve the requests raised by the requesters

3.1 Logging into the System

To log into a system, follow the following steps -

1. Firstly, obtain the URL and admin credentials for DRYICE MyCloud. Reach out to the person who has installed MyCloud or drop an email to MyCloud-Product-Supp@hcl.com.
2. Launch the web browser (Chrome or Edge) and use the MyCloud URL and Admin credentials to login to the system.
3. Currently MyCloud is supporting 5 different languages such as English, Japanese, Portuguese, Deutsche, Francis.
4. Choose language from Language dropdown. The default language is English.

You are advised to change the password frequently and log out when not using the application.

5. Post entering the Email ID, system automatically detects the Authentication Type. For admin role Authentication type is Form Based.
6. The following authentication types are available to login:

Table 4 – Authentication Type

Authentication Type	Description
Form Based	It authenticates users through the credentials that are stored in the database
LDAP	It authenticates users to login through Active Directory (AD) credentials
SAML Based Authentication	It authenticates users through third party Identity Access Management (IAM) that supports SAML based authentication

MyCloud admin has the rights to change the default username and password.

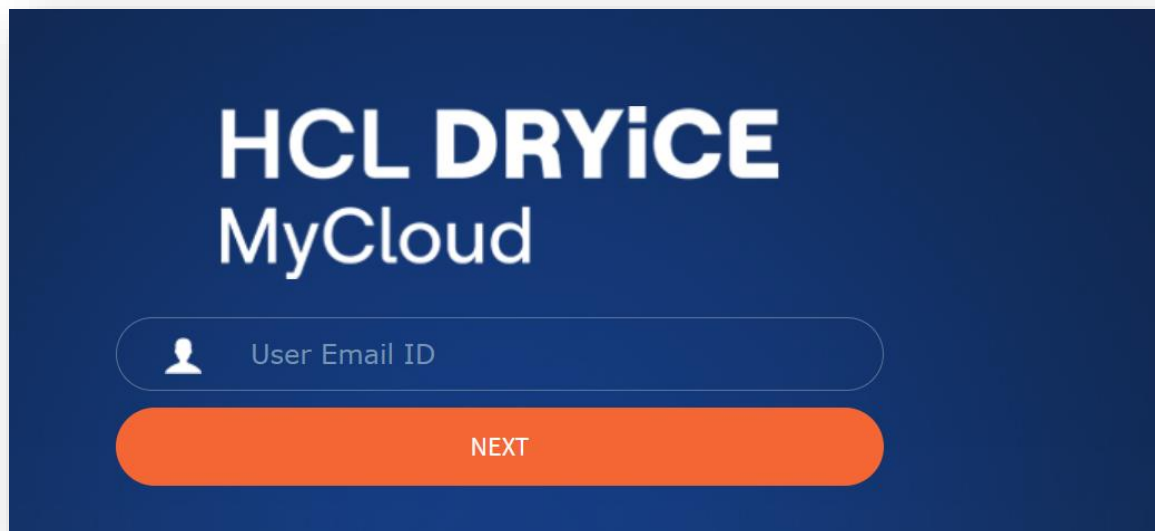


Figure 1 – MyCloud Login Page

- Click **Next** to proceed further.

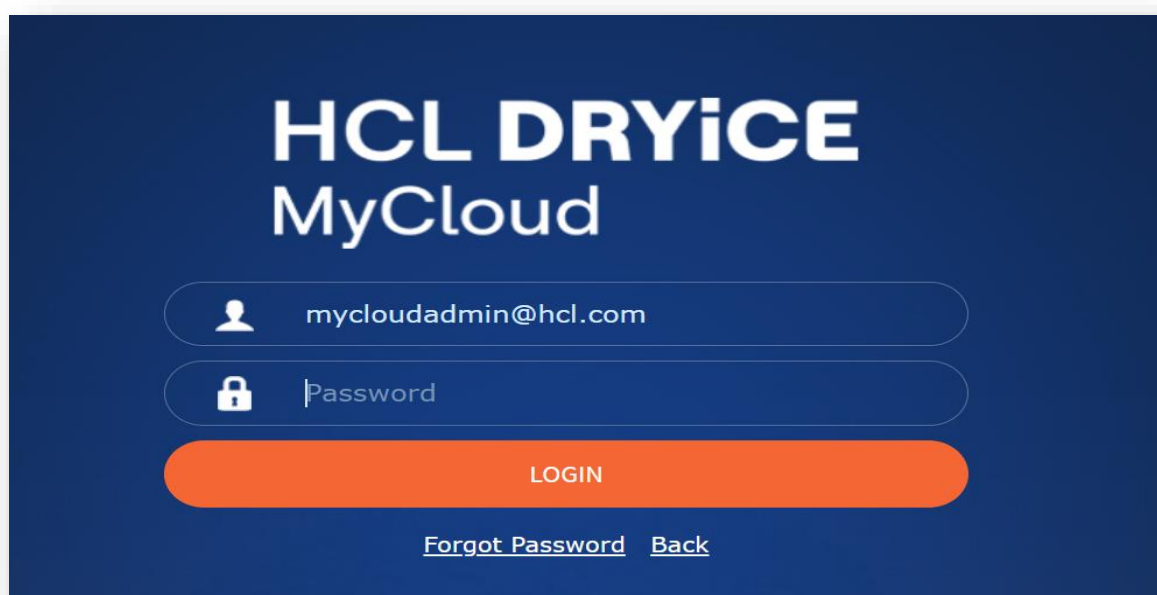


Figure 2 – MyCloud Login Page

8. Click **Login**. The MyCloud homepage appears as below.

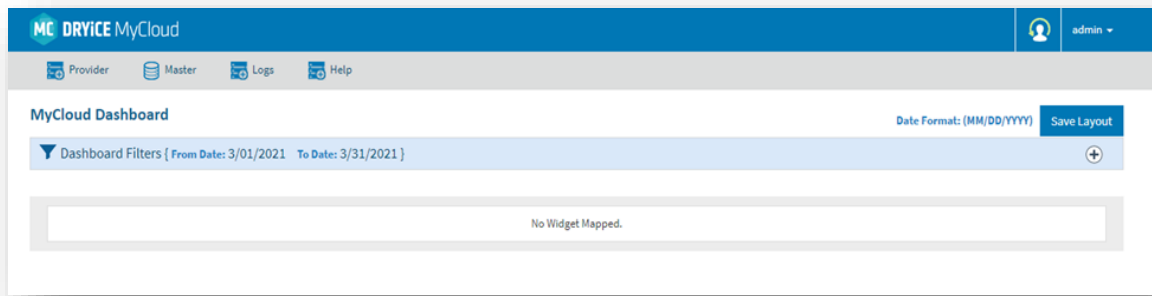


Figure 3 – MyCloud Home Page

3.2 Change Password

In this section, MyCloud Admin can change password from the Top of the MyCloud screen.

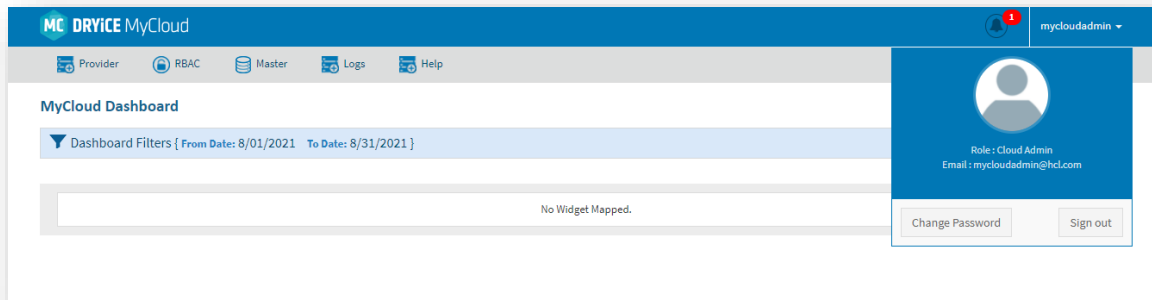


Figure 4 - Change Password

1. Click on Change Password.
2. User will be redirected to **Change password** screen.

The screenshot shows the 'Change Password' form. It has three input fields: 'Current Password *', 'New Password *', and 'Confirm Password *'. Each field has a corresponding label on the right. Below the input fields are two buttons: 'Update' and 'Cancel'. At the bottom, there is a 'Notes' section with two bullet points: 'Password must contain at least 1 capital letter, 1 small letter, 1 number and 1 special character.' and 'Only !, @, #, \$, % Special characters are allowed.'

Figure 5 - Change Password

3. Enter the Current Password and New Password.
4. Enter Confirm Password.
5. Click **Update**.

A Success Message appears.

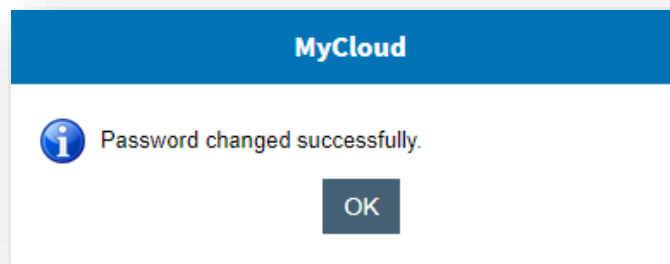


Figure 6 - Success Message

3.3 Forgot Password

Forgot password link is on the login page for form-based user. **Forgot password** link allows users to reset his/her password.

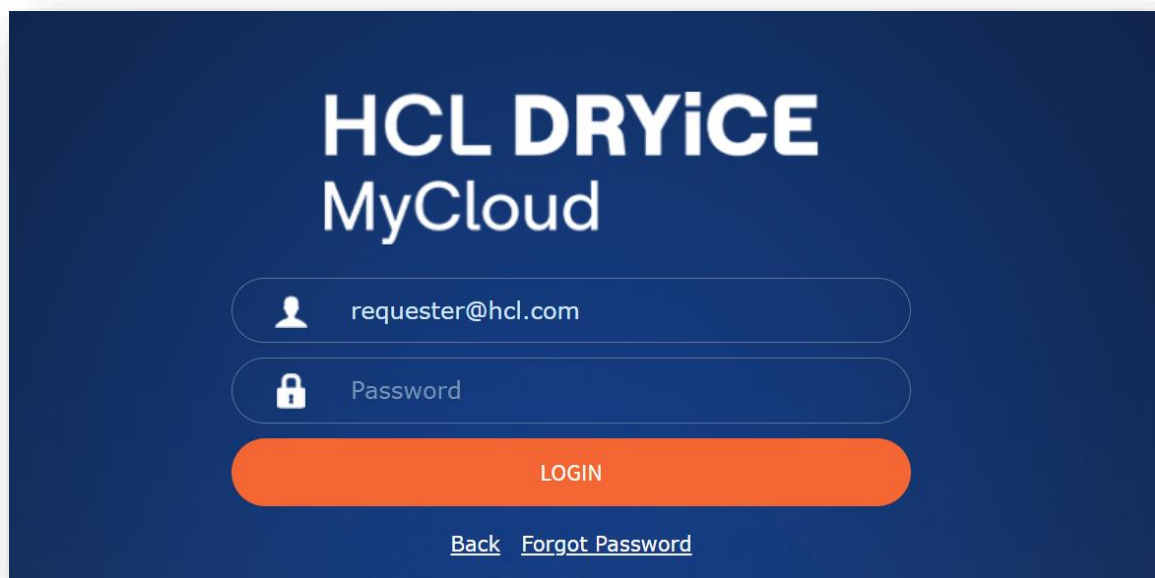


Figure 7 – MyCloud Login Page

1. Click on the link (Forgot Password) and below screen appears:

Figure 8 – Forgot Password Screen

2. Enter the valid email address.
3. Click on **Send Email**.
4. System will send password reset link to user email. Open link received in email to reset your password.

If user belongs to multiple organization/Provider, the password will be reset for all accounts with same email Id.

3.3.1 MyCloud Provider Module

Through this module, the Providers creates and manages organizations, on board tenant, catalogs, service plan, cost models that specify different types of cost of its components. Provider can also onboard new tenant if 'IsElevated' option is enabled by the Admin while creating a new Provider user.

At the time of login, Provider User needs to change the password by following the below steps:

1. Login into MyCloud portal using Provider email and password as created in Add Provider section, set the new password according to policy.
2. A password should be of 12 characters in length that contains alphabets, numbers & special characters.
3. Click on **Update**.

Figure 9 – Change Password

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

Table 5 – MyCloud Provider Module

Field	Description
Current Password	Provide the existing/MyCloud generated password for Provider
New Password	Provider User can enter a new password complied with MyCloud password policy
Confirm Password	Provider User needs to enter the new password once again
Update	This option helps the User to replace the current password with the new password
Cancel	This option resets all the action and discard the process to change the password

A success message box appears.

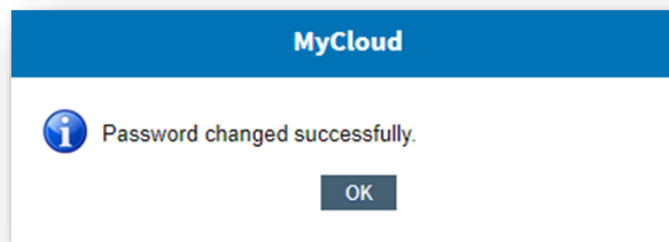


Figure 10 – Confirmation Message

Provider user gets redirected to the login page of MyCloud.

Use new credentials to login and proceed further.

Post login, MyCloud Provider user page appears with below options:

- My Reports
- Organization
- Service Catalog
- Workflow Management
- User Cost Model
- RBAC
- My Account
- Master
- Logs
- Help

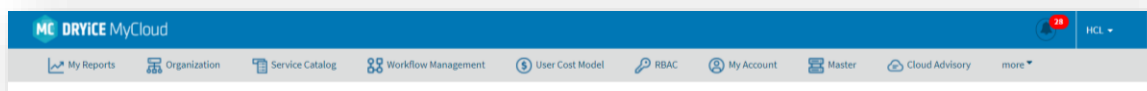


Figure 11 – Provider Module

3.3.2 Master

In this module, Provider configures Component URL, Region, Location, Provisioning platform and many more.

This section details out the steps that are required to create and configure the master data.

1. On the main menu bar, click **Master**.

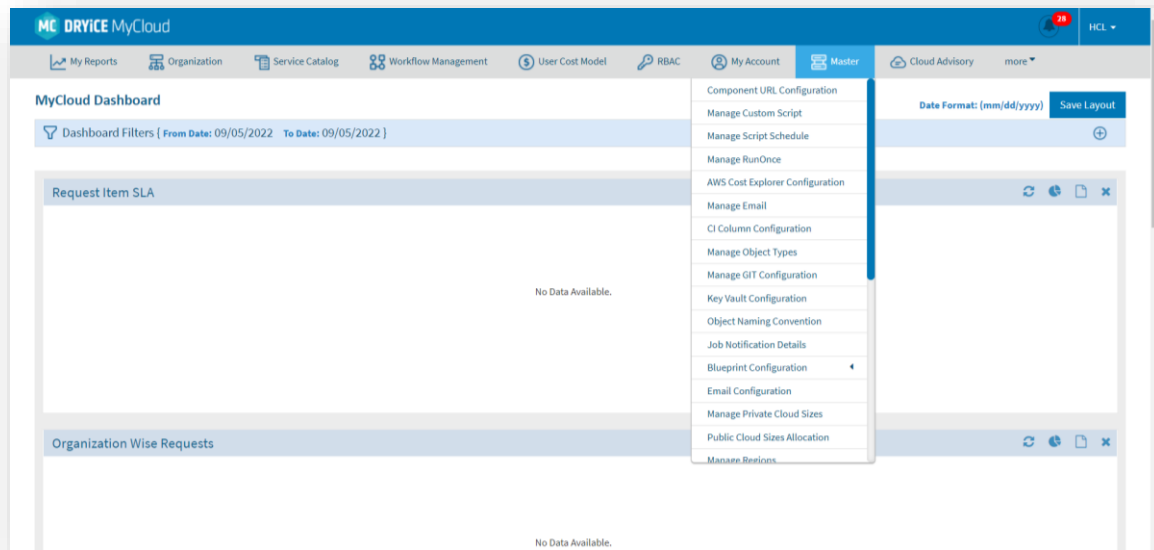


Figure 12 – Master Menu Option

As a Provider user, following options will be available to him (including the options under Master):

- AWS Cost Explorer Configuration
- Blueprint Configuration
- CI Column Configuration
- Component URL Configuration
- Email Configuration
- Import Objects
- Job Notification Details
- Key Vault Configuration
- Manage Billing Configuration
- Manage Custom Script
- Manage Custom Tables
- Manage Email
- Manage GIT Configuration
- Manage ITSM Configuration
- Manage Job
- Manage Locations
- Manage Object Types
- Manage Private Cloud Sizes
- Manage Provisioning Platform
- Manage Public Cloud Advisory
- Manage Quota

- Manage Region
- Manage RunOnce
- Manage Script Schedule
- Manage Service Types
- Manage Software Provisioning Platform
- Object Naming Convention
- Performance Configuration
- Provider Network Enablement
- Provider Wise Component Key
- Public Cloud Size Allocation
- Release IP
- Report Configuration

3.3.2.1 Manage Regions

On the main menu bar, click **Master** and then click **Manage Region**.

The module appears with the following tabs:

- Add Region
- View Region

3.3.2.1.1 Add Region

To add a region, provider user needs to follow the below steps:

1. On the **Manage Region** screen, click **Add Region**.

The screenshot shows a web interface titled "Manage Regions". It has two tabs: "View Region" and "Add Region", with "Add Region" being the active tab. The form contains the following fields:

- Region Name ***: A text input field.
- Display Name ***: A text input field.
- Platform ***: A dropdown menu with "--Select--" as the current selection.
- Longitude**: A text input field.
- Latitude**: A text input field.

 An "Add" button is located at the bottom right of the form.

Figure 13 – Add New Region

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

Table 6 – Add New Region

Field	Description
Region Name	The locations at which Private DCs are located/ Public Cloud services are getting consumed
Display Name	A reference name/original name of the Region
Longitude	The longitude of the location

Latitude	The latitude of the location
Platform	Name of the cloud service providers
Add	This option helps the Provider to initiate the process of adding all the above details in MyCloud

On clicking Add, a success message box appears.



Figure 14 – Add New Region(cont.)

All the fields marked with asterisk (*) mark are mandatory. Updating a region is not possible in Manage Region.

The region is created and appears in the list of regions.

3.3.2.1.2 View Region

This section lists out all the Regions that have been created by MyCloud Provider user.

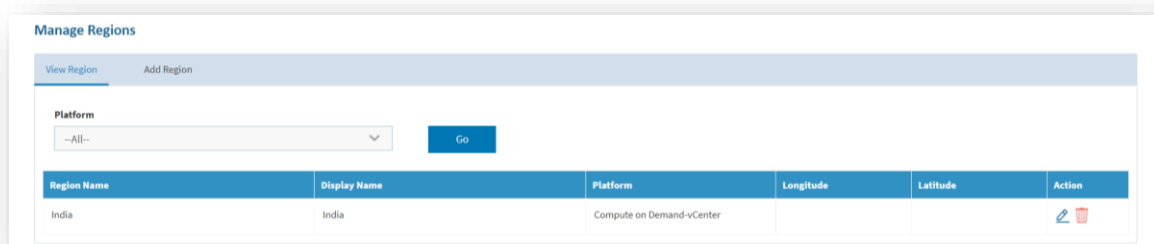


Figure 15 – View Region

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

Table 7 – Edit Region Fields

Field	Description
Region Name	The locations at which Private DCs are located/ Public Cloud services are getting consumed
Display Name	A reference name/ original name of the Region
Longitude	The longitude of the location
Latitude	The latitude of the location
Platform	Name of the cloud service providers
Active	Displays whether the region is active or inactive
Action	Provider user to take actions like Edit and Delete against the listed Regions

It also comprises of following actions:

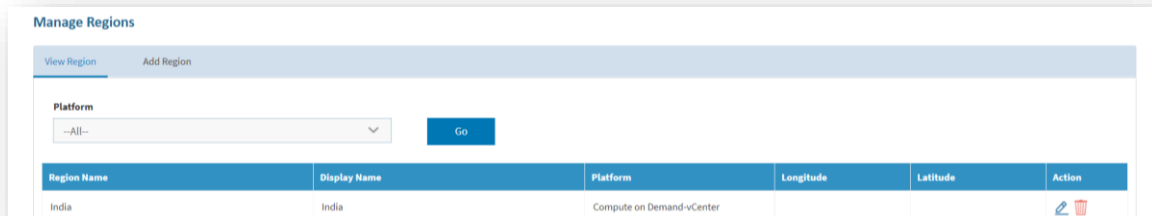
- **Edit** (✎): To modify the details of existing regions

- **Delete** (): To delete the existing regions

3.3.2.1.3 Edit Region

To edit/ modify the existing regions, Provider user needs to follow the below steps:

1. On **Manage Region** screen, select **View Region**, and then click Edit ().



Region Name	Display Name	Platform	Longitude	Latitude	Action
India	India	Compute on Demand-vCenter			 

Figure 16 – Edit Region

2. It shows the information about the selected region.
3. Modify the region details.
4. Click **Update** to save the settings.

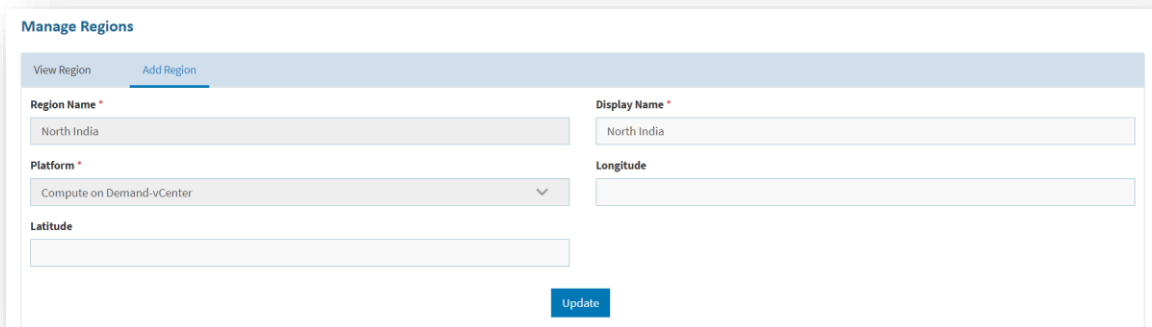


Figure 17 – Edit Region (Cont.)

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

A success message box appears.

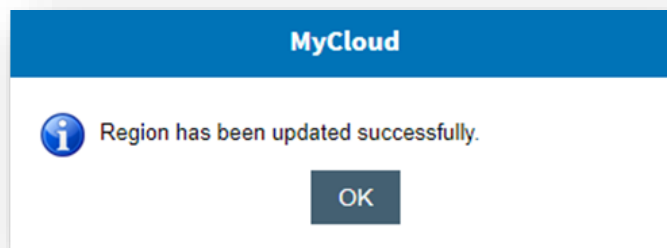


Figure 18 – Success Message

3.3.2.1.4 Delete Region

To delete a region, follow the steps below:

1. On **View Region** pane, select the region that needs to be deleted, and click Delete (🗑️).

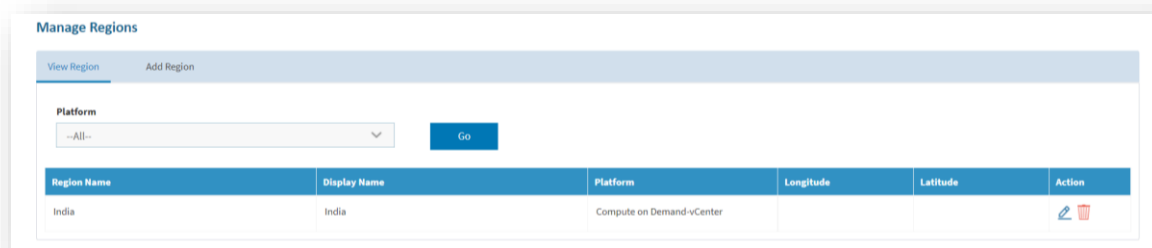


Figure 19 – Delete Region

2. When prompted to confirm, click **OK**.

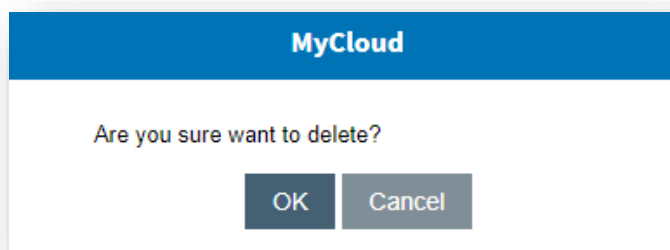


Figure 20 – Delete Region (Cont.)

A success message box appears.

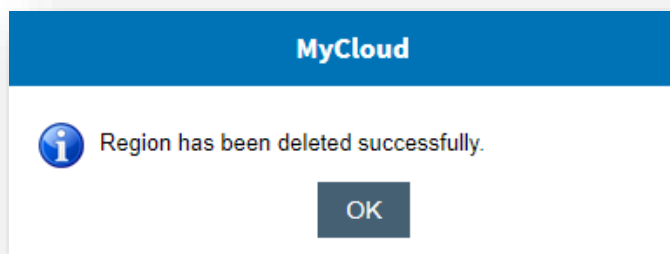


Figure 21 – Success Message

3.3.2.2 Manage Locations

This section details out the steps to create locations to deploy services and use their respective resources. It is only used for private cloud.

1. On the main menu bar, click **Master** and then click **Manage Locations**.
2. The module appears with the following tabs:
 - Add Location
 - View Location

3.3.2.2.1 Add Location

To add a location, Provider user needs to follow the steps below:

1. On the Manage Location tab, click Add Location.

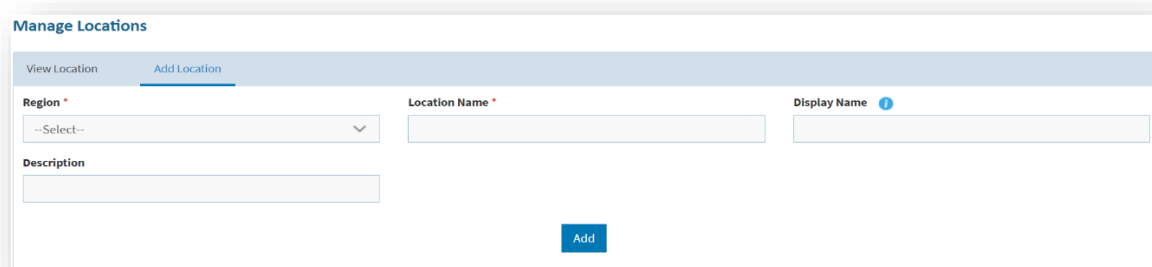


Figure 22 – Add Location

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

Table 8 – Add Location

Field	Description
Region	The locations at which Private DCs are located/ Public Cloud services are getting consumed
Location	Name the location
Display Name	Location display name
Description	Description about the location and region
Add	This option helps the Provider to initiate the process of adding all the above details in MyCloud

2. On clicking **Add**, a success message box appears.



Figure 23 – Add New Location Confirmation message

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

The location is created and appears in the list of locations.

3.3.2.2.2 View Location

This section lists out all the locations that have been created by Provider User.

Platform	Location Name	Display Name	Description	Region Name	Action
Compute on Demand vCenter	abcdTesting1		abcdTesting1234	Yes	
Hyper-V 12,16,19	Adddee		blue city	Yes	
Hyper-V 12,16,19	chambal	chambal	abc	Yes	

Figure 24 – View Location

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

Table 9 – View Location

Field	Description
Platform	Displays the list of cloud service providers
Location Name	Name the location
Display Name	Location display name
Description	Displays the description about the location
Region Name	The locations at which Private DCs are located/ Public Cloud services are getting consumed
Action	Provider user to take actions like Edit and Delete against the listed Locations

It also comprises of following actions:

- **Edit** (

3.3.2.2.3 Edit Location

To edit/ modify the assigned location, location description or region, follow the steps below:

1. On the **Manage Location** tab, select **View Location** and then click Edit (.
2. Modify the desired location's detail.
3. Click **Update** to save the settings.

Manage Locations

View Location **Add Location**

Region *
HyperV Region(Hyper-V 12,16,19)

Location Name *
chambal

Display Name ⓘ
chambal

Description
abc

Update

Figure 25 – Edit Location (Cont.)

A success message box appears as below:

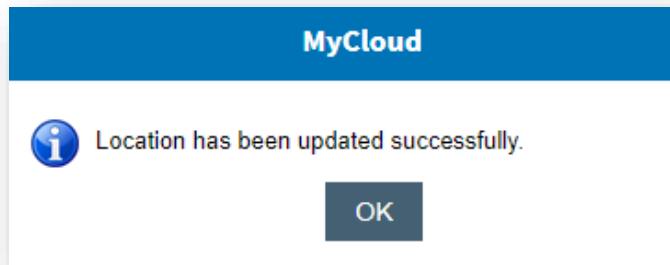


Figure 26 – Edit Location (Cont.)

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

3.3.2.2.4 Delete Location

To delete a location, follow the steps below:

1. On View Location pane, select the location that needs to be deleted and click Delete (🗑️).

Manage Locations

View Location Add Location					
Platform	Location Name	Display Name	Description	Region Name	Action
Hyper-V 12,16,19	Hyper V Location	Hyper V Location	Hyper V Location	Yes	✎ 🗑️
Compute on Demand-vCenter	JSFunctionLocation	JSFunctionLocation	JS FunctionLocation	Yes	✎ 🗑️
Compute on Demand-vCenter	IdapLocation	IdapLocation		Yes	✎ 🗑️
Compute on Demand-vCenter	Test	Test		Yes	✎ 🗑️

Figure 27 – Delete Location

2. When prompted to confirm, click **OK**.

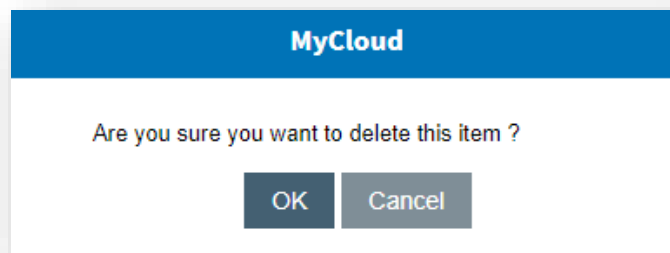


Figure 28 – Delete Location (Cont.)

A success message box appears.

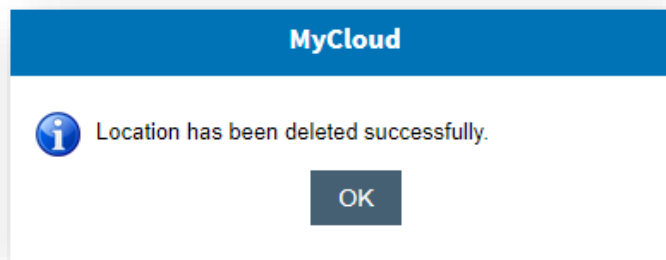


Figure 29 – Delete Location (Cont.)

3.3.2.3 Manage Provisioning Platform

An endpoint is an underlying infrastructure that MyCloud uses to complete provisioning. This can be a public cloud resource such as Amazon Web Services, Azure, Google Cloud Platform or a private cloud hosted by Hyper-V or vSphere or Cisco Intersight or Generic Endpoint or Multi-HyperVisor.

To define endpoints in MyCloud, follow the steps below:

1. On the main menu bar, click **Master**, and then click **Manage Provisioning Platform**.
2. Select **Platform**.
3. Click **Go**.

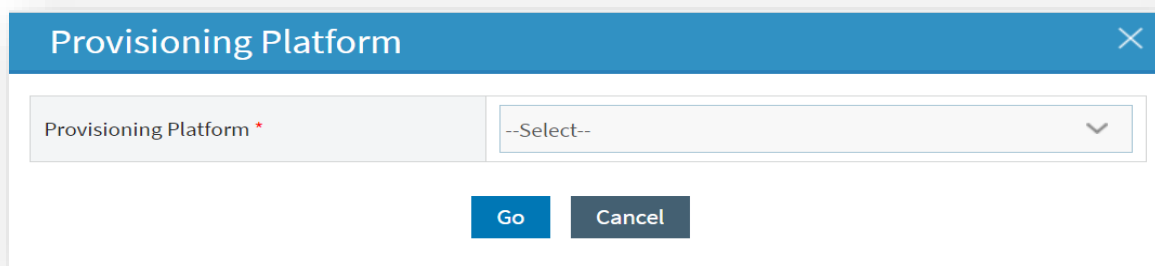


Figure 30 – Manage Provisioning Platform

Provisioning Platform: It lists all the cloud service providers like AWS, Azure, GCP, VMware, Cisco Intersight, SCVMM/ Hyper-V, Generic Endpoint and Multi-HyperVisor.

3.3.2.3.1 Add Configuration

To add endpoints, follow the steps below:

1. On the Manage Provisioning Platform tab, click Add Configuration.
2. The following screenshots appears with reference to Azure.

Manage Provisioning Platform - AzureRM

View Configuration Add Configuration

Provisioning Endpoint *

Subscription ID *

Tenant ID *

Native Client ID *

Client Secret Key *

Tags

Cloud Type *
 Generic

Optional Information-1

Optional Information-2

Optional Information-3

Optional Information-4

Optional Information-5

Max Parallel Task Count

Regions *

☐ Australia Central	☐ Australia Central 2	☐ Australia East	☐ Australia Southeast	☐ Brazil South	☐ Canada Central
☐ Canada East	☐ Central India	☐ Central US	☐ Central US EUAP	☐ East Asia	☐ East US
☐ East US 2	☐ East US 2 EUAP	☐ France Central	☐ France South	☐ Germany Central	☐ Germany North
☐ Germany Northeast	☐ Germany West Central	☐ Japan East	☐ Japan West	☐ Korea Central	☐ Korea South
☐ North Central US	☐ North Europe	☐ Norway East	☐ Norway West	☐ South Africa North	☐ South Africa West
☐ South Central US	☐ Southeast Asia	☐ South India	☐ Switzerland North	☐ Switzerland West	☐ UAE Central
☐ UAE North	☐ UK South	☐ UK West	☐ West Central US	☐ West Europe	☐ West India
☐ West US	☐ West US 2				

Figure 31 – Manage Provisioning Platform

Manage Provisioning Platform - AzureRM

View Configuration Add Configuration

Provisioning Endpoint *

Subscription ID *

Tenant ID *

Native Client ID *

Client Secret Key *

Tags

Cloud Type *
 Generic

Optional Information-1

Optional Information-2

Optional Information-3

Optional Information-4

Optional Information-5

Max Parallel Task Count

Regions *

☐ Australia Central	☐ Australia Central 2	☐ Australia East	☐ Australia Southeast	☐ Brazil South	☐ Canada Central
☐ Canada East	☐ Central India	☐ Central US	☒ Central US EUAP	☐ East Asia	☐ East US
☐ East US 2	☐ East US 2 EUAP	☐ France Central	☐ France South	☐ Germany Central	☐ Germany North
☐ Germany Northeast	☐ Germany West Central	☐ Japan East	☐ Japan West	☐ Korea Central	☐ Korea South
☐ North Central US	☐ North Europe	☐ Norway East	☐ Norway West	☐ South Africa North	☐ South Africa West
☐ South Central US	☐ Southeast Asia	☐ South India	☐ Switzerland North	☐ Switzerland West	☐ UAE Central
☐ UAE North	☐ UK South	☐ UK West	☐ West Central US	☐ West Europe	☐ West India
☐ West US	☐ West US 2				

Figure 32 – Manage Provisioning Platform (Cont.)

Figure 33 – Manage Provisioning Platform for Cisco Intersight

Refer to the below table to understand the fields on the Add Configuration tab for all the cloud service providers:

Table 10 – Provisioning Platform

Platform	Field	Description
VMWAR	Endpoint Name	Name of the endpoint (subscription of cloud service provider)
VMWAR	Region	The regions at which Private DCs are located/ Public Cloud services are getting consumed
VMWAR	Location	The locations at which Private DCs are located/ Public Cloud services are getting consumed
VMWAR	Sdk Url	It is the endpoint URL (only for vCenter)
VMWAR	vCenter UserName	MyCloud will use these credentials to interact with vCenter
VMWAR	vCenter Password	MyCloud will use these credentials to interact with vCenter
VMWAR	Template Path	It is the folder path where vCenter templates resides
VMWAR	Optional Information	Information apart from the above
AMAZN	Provisioning Account Name	Name of account which is meaningful
AMAZN	Access key	Access key are used to sign the request send to AMAZN s3 like Username and Password pair use to access AWS management console.
AMAZN	Secret Key	It is used for security purpose provided by AMAZN
AMAZN	Account ID	It is 12-digit number that uniquely identifies an AWS resources.
AMAZN	Assume Role ARN	An Amazon Assume Role ARN (Amazon Resource Name) is a unique identifier assigned to an AWS IAM (Identity and Access Management) role that allows another AWS account or an entity within the same account to assume the permissions of that role temporarily.
AMAZN	Optional Information	Information apart from the above

Platform	Field	Description
GCP	Provisioning Endpoint	Name of the endpoint (subscription of cloud service provider)
GCP	Input Mode	There will be 2 input Mode. A. Manual, B. JSON (In this, we need to upload JSON file).
GCP	Project Id	Project Id provided by GCP Console.
GCP	Private Key Id	This is service account private key id (Source: GCP Service Account Key Json File)
GCP	Client Email	GCP Service Accounts Client Email (Source: GCP Service Account Key Json File)
GCP	Private Key	GCP Service Accounts Private Key (Source: GCP Service Account Key Json File)
GCP	Regions	The locations at which Public Cloud services are getting consumed
ARM	Provisioning Account Name	Name of account which is meaningful
ARM	Subscription ID	It is a GUID that uniquely identifies your subscription to use Azure services.
ARM	Tenant ID	It is a globally unique identifier for Azure Active Directory instance.
ARM	Native Client ID	This identifier is assigned when going to set up as an application in the directory instance.
ARM	Client Secret Key	It is secret key only to application and the authorized server. It protects resources by granting tokens to authorizes requestors.
ARM	Cloud Type	Cloud type selected according to regions else generic.
ARM	Optional Information	Information apart from the above
ARM	Regions	The regions at which Public Cloud services are getting consumed
SCVMM	Provisioning Endpoint Name	Name of account which is meaningful.
SCVMM	Region	The regions at which Private DCs are located/ Public Cloud services are getting consumed.
SCVMM	Location	The location at which Private DCs are located/ Public Cloud services are getting consumed.
SCVMM	Version	Version of SCVMM.
SCVMM	Server IP	It is SCVMM DataCenter Server.
SCVMM	Port	To access SCVMM DataCenter.
SCVMM	UserName	Username which is used to consume services.
SCVMM	Password	Password which is used to consume services.
SCVMM	Domain Name	Domain where services will be consumed.

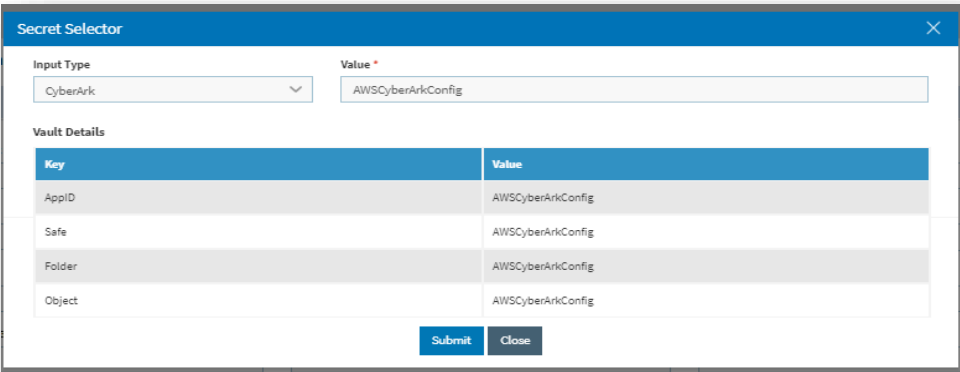
Platform	Field	Description
SCVMM	Optional Information	Information apart from the above.
Generic Endpoint	Endpoint Name	Name of account which is meaningful.
Generic Endpoint	Display Name	Name to be displayed to the end-user.
Generic Endpoint	Description	Description of Generic Configuration.
Generic Endpoint	Configuration Type	Type of configuration of Cloud Service Provider.
Cisco Intersight	Provisioning Endpoint	Name of the endpoint
Cisco Intersight	API Key	Key to access the Cisco Intersight
Cisco Intersight	Secret Key	It is used for security purpose provided by Cisco Intersight
Cisco Intersight	Base URL	Base URL for Cisco Intersight
Cisco Intersight	Is Master	Master account for Cisco Intersight
Red Hat OpenShift Virtualization	Provisioning Endpoint	Name of the endpoint which will we used later
Red Hat OpenShift Virtualization	Auth Url	URL used to generate a token for the provided credentials.
Red Hat OpenShift Virtualization	User Name	Username for Red Hat OpenShift Virtualization used to generate the token.
Red Hat OpenShift Virtualization	Password	Password for Red Hat OpenShift Virtualization used to generate the token.
Red Hat OpenShift Virtualization	API Url	An API URL used to validate API access using the generated token.
All Platform	Tags	A tag is simply a character string added to a tags field in a resource, such as RBAC subscription. Tags will be used to define scope of permission. Objects with same Tag will be able to access same Tagged resources.
MultiHyperVisor	Provisioning Endpoint	Name of the endpoint ()
MultiHyperVisor	Description	Description of the endpoint
MultiHyperVisor	Add Endpoints	Link existing endpoints
All Platform	Max Parallel Task Count	Maximum task count can be processed concurrently in queue

Multi Hypervisor Sync also caters the case of VM Migration from one data center location to another data center location.

3. Populate all the mandatory fields.

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

4. The search icon available on the **Add Configuration** screen for all platforms allows the Provider User to map the Key Vault configuration. On-clicking the search icon, the **Secret Selector** screen appears.



Key	Value
AppID	AWSCyberArkConfig
Safe	AWSCyberArkConfig
Folder	AWSCyberArkConfig
Object	AWSCyberArkConfig

Figure 34 – Secret Selector

5. The following fields need to be populated:
 - **Input Type:** Input type can be CyberArk, Secret Manager, Azure Key Vault and Input Text.
 - **Value:** In case of CyberArk, Secret Manager and Azure Key Vault it represents configuration name. User must select the value configured in Key Vault Configuration screen. In case of Input Text, it represents static value.

In the case of **Input Text**, MyCloud saves the value in encrypted form.

6. Click **Submit** to close the popup screen. On Closing the popup, the value reflects in the corresponding field.
7. In the **Optional Information** fields, provide any other information apart from the above fields.
8. After populating all the mandatory fields, click on **Check Endpoint Connectivity** to check the connectivity with infrastructure.
9. Click **Next** when the endpoint information is successfully uploaded.

Manage Provisioning Platform - AzureRM

View Configuration Add Configuration

Provisioning Endpoint * Azure

Subscription ID * AzureSubscription

Tenant ID * Tenant_ID

Native Client ID * ClientAzure

Client Secret Key * AWSCyberArkConfig(cyberark)

Tags

Cloud Type *

Optional Information-1

Optional Information-2

Optional Information-3

Optional Information-4

Optional Information-5

Max Parallel Task Count

Regions *

☐ Australia Central	☐ Australia Central 2	☐ Australia East	☐ Australia Southeast	☐ Brazil South	☐ Canada Central
☐ Canada East	☐ Central India	☐ Central US	☒ Central US EUAP	☐ East Asia	☐ East US
☐ East US 2	☐ East US 2 EUAP	☐ France Central	☐ France South	☐ Germany Central	☐ Germany North
☐ Germany Northeast	☐ Germany West Central	☐ Japan East	☐ Japan West	☐ Korea Central	☐ Korea South
☐ North Central US	☐ North Europe	☐ Norway East	☐ Norway West	☐ South Africa North	☐ South Africa West
☐ South Central US	☐ Southeast Asia	☐ South India	☐ Switzerland North	☐ Switzerland West	☐ UAE Central
☐ UAE North	☐ UK South	☐ UK West	☐ West Central US	☐ West Europe	☐ West India
☐ West US	☐ West US 2				

Figure 35 – Add endpoints to Platform

10. The following interface appears:

MC DRYICE MyCloud

My Reports Organization Service Catalog Workflow Management User Cost Model RBAC My Account Master Cloud Advisory Logs Help

Manage Provisioning Platform - AzureRM

View Configuration Add Configuration

Name	Description	Frequency(Min)
Azure load balancers	Job is used to sync Azure Load Balancers	1440
Azure NetworkSecurityGroups	Job is used to sync Azure Network Security Groups Details	1440
Azure Availability Set Sync	Job is used to sync Azure Availability Sets	1440
Azure RecoveryVault	Job is used to sync Azure Recovery Vault	1440
Azure Backup Policy	Job is used to sync Azure Backup Policy	1440
Azure Public IP Address	Job is used to sync Azure Public IP Address	1440
ARM Kubernetes Cluster Sync	Job is used to sync Azure Kubernetes Cluster and Node Pool details	1440
Azure Kubernetes virtual machine scale sets	Job is used to sync Azure Kubernetes virtual machine scale sets details	1440

Figure 36 – Add endpoints to Platform (Cont.)

- Enter Frequency.
- It is a default value to sync the endpoint data, but it varies based on the requirement.
- Click Next.
- Refer the below table to understand the fields mentioned in the above figure:

Table 11 – Add endpoints to Platform

Field	Description
Job Name	Displays the name of the job
Job Description	Displays the details about the job
Update Frequency (min)	The interval at which Jobs get run through MyCloud

15. The summarized data entered in the previous screen for configuration and job synchronization appears.

16. Click **Confirm** to submit all the details.

The screenshot shows the 'Manage Provisioning Platform - AzureRM' interface. It has two tabs: 'View Configuration' and 'Add Configuration'. The 'Add Configuration' tab is active, displaying a form with the following fields:

Provisioning Endpoint	Azure	Regions	Central US EUAP
Subscription ID	AzureSubscription	Tenant ID	Tenant_ID
Native Client ID	ClientAzure	Tags	
Optional Information-1		Optional Information-2	
Optional Information-3		Optional Information-4	
Optional Information-5		Max Parallel Task Count	10

Below the configuration form is a section titled 'Sync Jobs' containing a table of jobs:

Name	Description	Frequency(Min)
load balancers	Job is used to sync Azure Load Balancers	1440
NetworkSecurityGroups	Job is used to sync Azure Network Security Groups Details	1440
Availability Set Sync	Job is used to sync Azure Availability Sets	1440
ARM Kubernetes Cluster Sync	Job is used to sync Azure Kubernetes Cluster and Node Pool details	1440
Public IP Address	Job is used to sync Azure Public IP Address	1440
Backup Policy	Job is used to sync Azure Backup Policy	1440
RecoveryVault	Job is used to sync Azure Recovery Vault	1440
Kubernetes virtual machine scale sets	Job is used to sync Azure Kubernetes virtual machine scale sets details	1440
Proximity Placement Group Sync	Job is used to sync Azure Proximity Placement Group	1440
Network Interfaces Sync	Job is used to sync Azure Network Interfaces	1440

Figure 37 – Add endpoints to Platform (Cont.)

The new endpoint is created and appears in list of configured endpoints.

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

After creating an endpoint, user needs to enable jobs (see **Manage Job**) associated with newly created endpoint.

3.3.2.3.2 View Configuration

This section lists all the endpoints that have been created by Provider User.

View Configuration		Add Configuration						
Provisioning Endpoint	Object id	Region	Location	sdk Url	Template Path	Tags	Is Draft	Action
TestPiyushEndPoint		vcenterest1	Mumbai	http://XX.X.XXX.XXX/sdk	http://XX.X.XXX.XXX/		N	  
vCenterProvisioning		vCenterRegion	vCenter Location	https://indrmvca01.dryicelabs.com/sdk	mycloud-template		N	  
vCenterProvisioningCyberark		vCenterRegion	Location3	https://indrmvca01.dryicelabs.com/sdk	MyCloud/ContentLibraryTestingVM		N	  

Figure 38 – View Endpoints at Platform

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

Table 12 – Edit Endpoints at Platform

Field	Description
Endpoint Name	Name of the endpoint (subscription of cloud service provider)
Region	The regions at which Private DCs are located/ Public Cloud services are getting consumed
Location	The locations at which Private DCs are located/ Public Cloud services are getting consumed
Sdk URL	It is the endpoint URL (only for vCenter)
Template Path	It is the folder path where vCenter templates resides
Status	Displays whether the endpoint is active or inactive. Based on the status, its being understand whether services can be consumed through that endpoint via MyCloud
Action	It provides the Provider user to take actions like Edit and Delete against the listed Endpoints
Object ID	It is a unique identity code for an endpoint

It also comprises of following actions:

- **Edit** (

3.3.2.3.3 Edit Endpoint

To edit/modify an existing endpoint's information, follow the steps below:

1. On the View Configuration pane, click Edit (). It re-directs the user to the **Add Configuration** pane.
2. Fill in the following information:
 - Endpoint Name
 - Select **Region**.
 - Select **Location**.
 - Enter vCenter **sdk URL** and credentials.
 - Provide the vCenter **Template Path**.

Manage Provisioning Platform - vCenter

View Configuration | **Add Configuration**

Provisioning Endpoint *
DefaultJobEnableUT

Region *
TestRegion

Location *
ddd

sdk Uri *
http://x.x.x/sdk

vCenter User Name *
TestMapping

vCenter Password *
AzureSecret(azurekeyvault)

Template Path *
TestMapping

Tags
Job

Optional Information-1

Optional Information-2

Optional Information-3

Optional Information-4

Optional Information-5

Max Parallel Task Count *
10

Check Endpoint Connectivity **Next >>**

Figure 39 – Edit endpoints at Platform (Cont.)

- Click on **Check Endpoint Connectivity** to check the connectivity to provided endpoints.

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

- Click **Next**.

Jobs related to endpoint gets listed. Provider user edits the frequency of jobs.

Manage Provisioning Platform - vCenter

View Configuration | **Add Configuration**

Platform Code	Job Name	Description	Update Frequency(Min)
VMWAR	vCenterProvisioning vCenter Datacenter Sync	Job is used to sync vCenter Datacenters	1440
VMWAR	vCenterProvisioning vCenter Cluster Sync	Job is used to sync vCenter Clusters	1440
VMWAR	vCenterProvisioning vCenter HOST Sync	Job is used to sync vCenter Hosts	1440
VMWAR	vCenterProvisioning vCenter RES Sync	Job is used to sync vCenter Resources	1440
VMWAR	vCenterProvisioning vCenter NTW Sync	Job is used to sync vCenter Networks	1440
VMWAR	vCenterProvisioning vCenter Datacenter Cluster Storage Sync	Job is used to sync vCenter Datacenter Cluster Storages	1440
VMWAR	vCenterProvisioning vCenter STR Sync	Job is used to sync vCenter Storages	1440
VMWAR	vCenterProvisioning vCenter TEMP Sync	Job is used to sync vCenter Templates	1440
VMWAR	vCenterProvisioning vCenter VM Disks	Job is used to sync vCenter VM Disks	1440
VMWAR	vCenterProvisioning vCenter Capacity and Performance	Job is used to sync vCenter Capacity and Performance	1440
VMWAR	vCenterProvisioning vCenter VM Power Status	Job is used to sync vCenter VM Power Status	1440
VMWAR	vCenterProvisioning vCenter Instance SYNC	Job is used to sync vCenter Instance details	1440

<< Previous **Next >>**

Figure 40 – Edit endpoints at Platform (Cont.)

By default, all jobs are disabled. Provider user needs to enable Jobs by [Manage Jobs](#) screen.

- Click on **Next**. A confirmation screen pops up with all prepopulated information.
- Validate the information and click on **Confirm**.

Manage Provisioning Platform - vCenter

View Configuration Add Configuration

Endpoint

Provisioning Endpoint	DefaultJobEnableUT	Region	TestRegion
Location	ddd	sdk Url	http://x.x.x/sdk
vCenter User Name	TestMapping	Template Path	TestMapping
Tags	ass	Optional Information-1	
Optional Information-2		Optional Information-3	
Optional Information-4		Optional Information-5	
Max Parallel Task Count	10		

Platform Code	Job Name	Description	Update Frequency(Min)
VMWAR	vCenter Datacenter Sync	Job is used to sync vCenter DataCenters	1440
VMWAR	vCenter NTW Sync	Job is used to sync vCenter Networks	1440
VMWAR	vCenter Capacity and Performance	job is used to sync vCenter Capacity and Performance	1440

Figure 41 – Edit endpoints (Cont.)

7. A success message box appears.

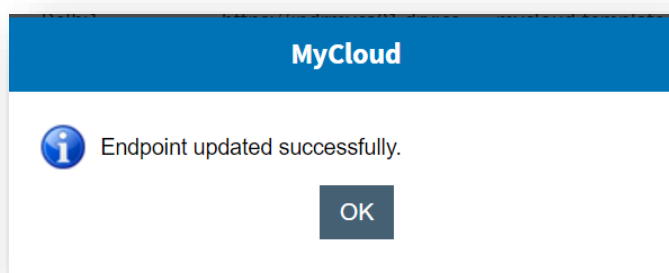


Figure 42 – Confirmation Message

3.3.2.3.4 Delete Endpoint

To delete the existing endpoints, Provider user needs to follow the below steps:

1. Click Delete against the endpoints that needs to be deleted.
2. Click OK.

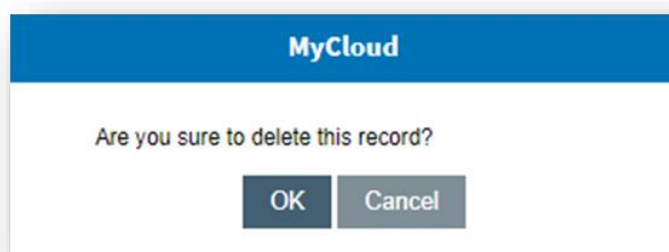


Figure 43 – Delete Endpoint

3. A success message box appears as below

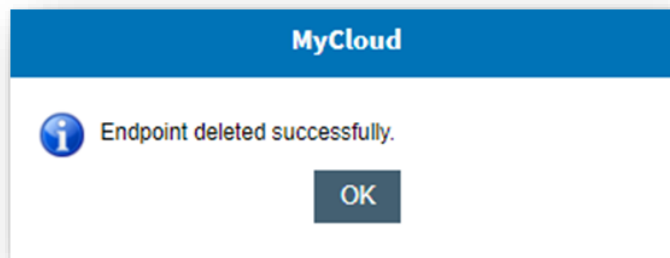


Figure 44 – Success Confirmation Message

3.3.2.3.5 Add Tags

To Add tags on the existing endpoints, Provider user needs to follow the below steps:

1. Click **Add Tags** against the endpoints that needs to be tagged.

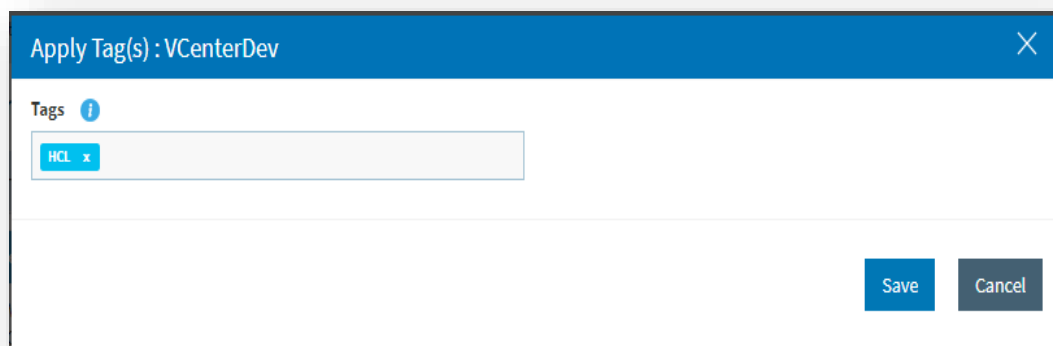


Figure 45 – Apply Tags

2. Enter **Tag(s)** to Endpoint.
3. To Add multiple tags, use enter or comma key.
4. Click **Save**.
5. A success message appears.

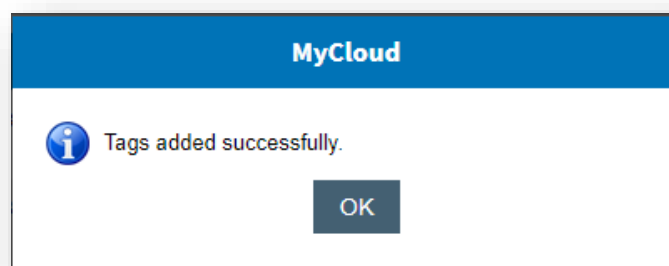


Figure 46 – Success Message

3.3.2.4 Software Provisioning Platform

Software Provisioning Platform/ tools automate software provisioning and support the entire fulfilment process. This section details out on how to manage the software provisioning endpoints in MyCloud.

3.3.2.4.1 Manage Software Provisioning Platform

Provider user creates endpoint for CHEF, PUPPET, UCSD, SCCM, BigFix, Ansible Tower, Cisco Intersight, Cisco UCS Director.

1. On the main menu bar, click **Master** and then click **Manage Software Provisioning Platform**. In this guide we are taking reference of **Puppet**.
2. The module appears with the following tabs:
 - Add Puppet
 - View Puppet

3.3.2.4.2 Add Software Provisioning Platform

To add software, Provider user needs to follow the steps below:

1. On the Manage Software Provisioning Platform tab, click Add Configuration.

The screenshot shows the 'PUPPET Master' interface with the 'Add PUPPET' tab selected. The form contains the following fields: 'Name' (text input), 'Location' (dropdown menu with '--Select--'), 'User Name' (text input), 'Password' (text input with a search icon), 'Server Address' (text input), and 'Provisioning Endpoint' (dropdown menu with '--Select--'). An 'Add' button is located at the bottom center of the form.

Figure 47 – Add Software Provisioning Platform

The screenshot shows the 'Cisco Intersight Configuration' interface with the 'Add Configuration' tab selected. The form contains the following fields: 'Configuration Name' (text input), 'Unit' (text input with an information icon), 'Organization Mold' (text input with an information icon), 'API Key' (text input with an information icon), and 'Secret Key' (text input with an information icon and a 'Choose a file' button). At the bottom, there are three buttons: 'Check Connectivity', 'Add', and 'Cancel'.

Figure 48 – Add Software Provisioning Platform for Cisco Intersight

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

Table 13 – Add Software Provisioning Platform

Field	Description
Name (Chef/puppet)	The provider user needs to provide the name of Software provisioning platform endpoint
Location (Chef/puppet)	It Lists all the locations applicable
User Name (Chef/puppet)	User credentials which have access to native cloud endpoints
Server Address (Chef/puppet)	IP address/ host name for the endpoint

Field	Description
Provisioning Endpoint (Chef/puppet)	Lists all cloud endpoints created by provider User to map with software provisioning platform endpoint
Endpoint Name (Terraform)	Terraform Endpoint Name
Workspace URL(Terraform)	Workspaces represent running infrastructure managed by Terraform. Provide URL of Workspaces
Authentication Type (Terraform)	LDAP, Access Token Basic
Provisioning Endpoint (Terraform)	Name of the Endpoint subscription based on Platform
Access Token (Terraform)	Token in case of Terraform – Access Token Authentication Type
Username /Password	Authentication details in case of Terraform – Basic Authentication Type
LDAP URL	URL of LDAP details in case of Terraform – LDAP Authentication Type
Configuration Name (Cisco Intersight,BigFix,Cisco UCS)	Name of software provisioning platform
Url (Cisco Intersight, Cisco UCS)	Cisco Intersight URL
Organization Moid (Cisco Intersight)	Cisco Intersight Organization Moid
API Key (Cisco Intersight)	Key to access the Cisco Intersight
Secret Key (Cisco Intersight)	It is used for security purpose provided by Cisco Intersight
UserName/Password (BigFix)	Credential of BigFix
BifFix URL	URL for BigFix server

2. Enter the **Name**.
3. Select **Location**.
4. Enter UserName and Password.
5. Enter Server Address.
6. Select Provisioning Endpoint.
7. Click **Add** to submit all the details.
8. A success message box appears.

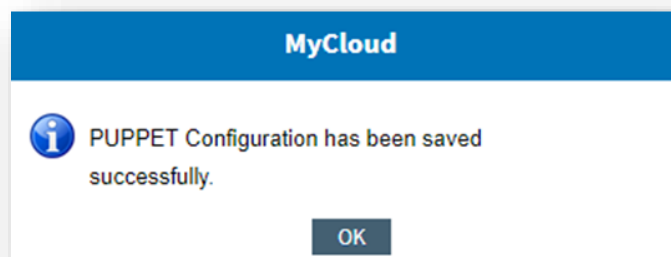


Figure 49 – Add Software Provisioning Platform (Cont.)

9. The new endpoint is created and appears in list of configured.

All the fields given with asterisk (*) mark are mandatory.

3.3.2.4.3 View Software Provisioning Platform

This section lists out all the provisioning software that have been created by Provider user.



View PUPPET		Add PUPPET		
PUPPET Name	User Name	Location	Server Address	Action
aa	aa	Location3	aa	  

Figure 50 – View Puppet

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

Table 14 – View Puppet

Field	Description
Puppet Name	Software's provisioning platform endpoint name
Location	Location of the endpoints
Server Address	IP address of the server
User Name	Displays the username
Action	Take actions like Edit, Delete and Addition of software

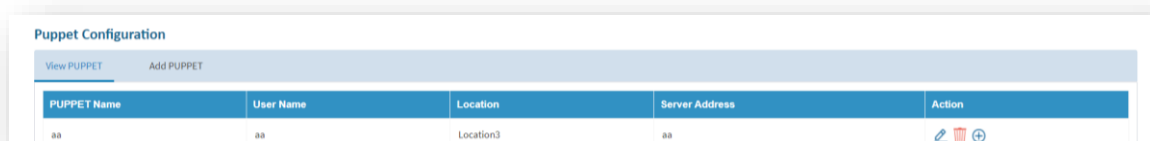
It also comprises of following actions:

- **Edit** (): To modify the details of existing software provisioning platforms.
- **Add** (): To add software.
- **Delete** (): To delete the existing software provisioning platforms.

3.3.2.4.4 Edit Software Provisioning Platforms

To edit/modify existing software provisioning platforms, Provider user needs to follow the below steps:

1. In the **View Configurations** pane, click Edit ().



View PUPPET		Add PUPPET		
PUPPET Name	User Name	Location	Server Address	Action
aa	aa	Location3	aa	  

Figure 51 – Manage Software Provisioning Platform

2. It re-directs the user to the **Add Configuration** pane.
3. Modify the details as desired and click **Update**.

Figure 52 – Edit Software Provisioning Platform

Table 15 – Edit Software Provisioning Platform

Field	Description
Name	Name the software provisioning platform endpoint
Location	Location of endpoint
Server Address	The IP address of the server
User Name	User credentials which have access to configuration management system
Provisioning Endpoint	Cloud endpoints that have been created in MyCloud

All the fields given with asterisk (*) mark are mandatory.

4. A success message box appears.

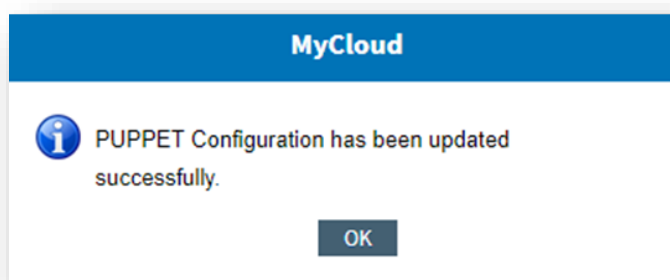


Figure 53 – Confirmation Message

3.3.2.4.5 Delete Software Provisioning Platform

To delete existing software provisioning platforms, Provider user needs to follow the below steps:

1. Click the Delete (🗑️) option against the endpoint that needs to get deleted.

PUPPET Name	User Name	Location	Server Address	Action
aa	aa	Location3	aa	🗑️ +

Figure 54 – Delete Software Provisioning Platform

2. Click **OK** to confirm.

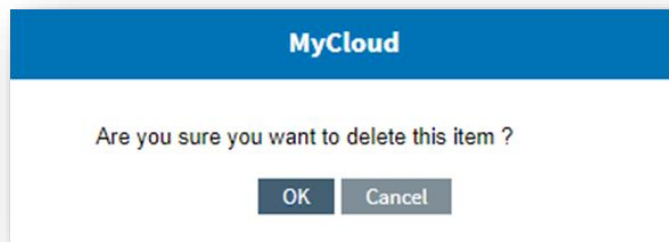


Figure 55 – Delete Software Provisioning Platform (cont.)

3. A success message box appears.
4. Click **OK**.

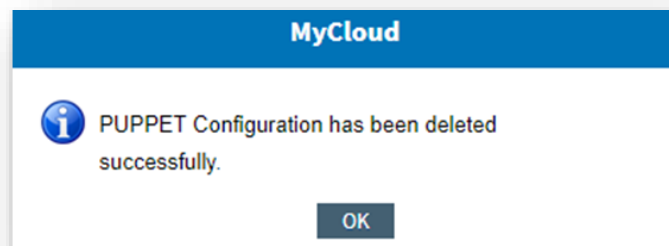


Figure 56 – Success Confirmation Message

3.3.2.5 Provider Network Enablement

To configure network or interface, follow the steps below:

1. On the main menu bar, click **Master** and then click **Provider Network Enablement**.
2. The Provider Network Enablement screen appears.

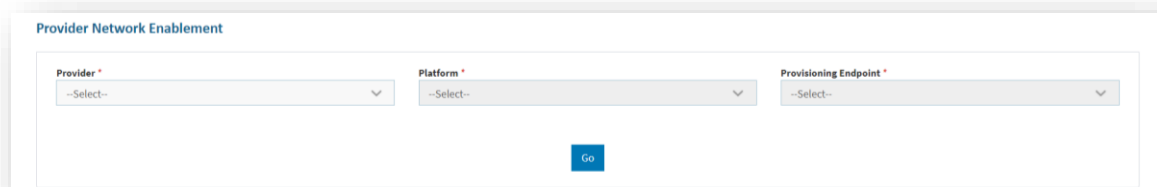


Figure 57 – Provider Network Enablement

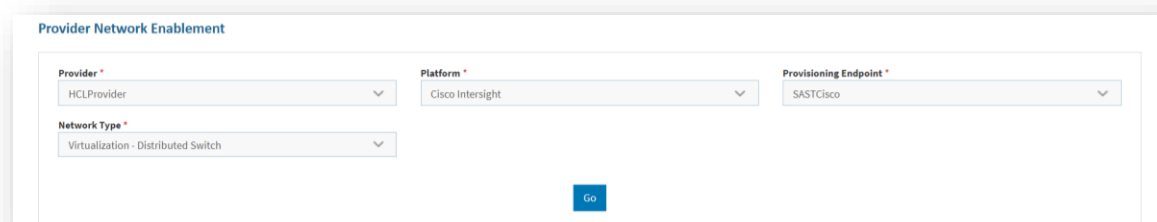


Figure 58 – Provider Network Enablement for Cisco Intersight

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

Table 16 – Network Assignment

Field	Description
Provider	Provider is an idea to dissociate among various organizations/ companies/ Business Units/ groups while using common infrastructure resources.
Platform	It is the cloud service provider
Provisioning Endpoint	The cloud endpoints that have been created in MyCloud
Cluster	It lists the cluster of vCenter and cloud of SCVMM
Network Type	It is the Network type applicable for Cisco Intersight, possible values could be Distributed Switch or Distributed Network

4. Select **Provider**.
5. Select **Platform**.
6. Select Provisioning Endpoint.
7. Select Cluster (in case of vCenter and Cloud in case of SCVMM) and select Network Type in case of Cisco Intersight.
8. Click **Go**.
9. All the available networks list down in tabular view as shown below:

Provider Network Enablement

Provider * pvddemo Platform * Cisco Intersight Provisioning Endpoint * TestSubhash

Network Type * Virtualization - Distributed Switch

Go

Network

Select	Switch Name	IP Assigned	Datacenter	Action
☐	VDS-PROD	Yes	VMWPOD-PROD	Select Network IP
☒	PROD-N-VDS	Yes	VMWPOD-PROD	Select Network IP

Assign Networks

Figure 59 – Network Assignment

To assign a network, select the checkbox against the network that needs to be assigned with the provider, and then click Select Network IP. It helps to specify the network in the following modes:

- Single IP
- IP Range

Figure 60 – Network Assignment (Cont.)

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

Table 17 – Network Assignment

Field	Description
Single IP	It is a single address of the device that communicates with other devices in a network
IP Range	It is the range of IP addresses
IP	This is assigned to a device connected to a computer network that uses the Internet Protocol for communication
Subnet Mask	IP address that is used in a network
Default Gateway	It is the network gateway address
Network Detail	Details regarding the network that includes network name, purpose of the network, exceptions and many more

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

To delete Unassigned IP in one shot, Provider user needs to follow steps below:

1. On the Network Details pane, click Delete Unassigned IP button.
2. When prompted to confirm then please click **OK**.

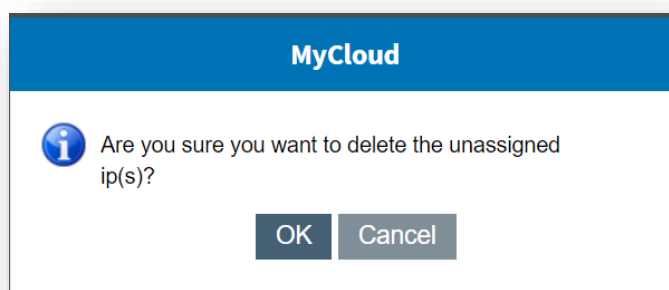


Figure 61 – Confirmation Message

3. A success message box appears.

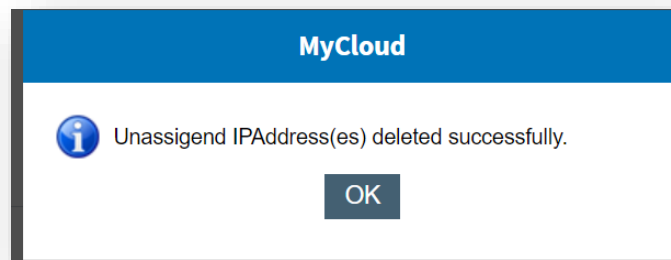


Figure 62 – Success Message

3.3.2.5.1 Single IP Network Assignment

To assign the IP address, follow the steps below:

1. On the **Assign Network IP** screen, select **Single IP** on the top.
2. It prompts Single IP pane that helps to add network using the **Add** button or delete existing networks.

 A screenshot of the "Single IP Network Assignment" form. It has a "Select IP Range" section with "Single IP" selected. There are three input fields: "IP *", "Default Gateway *", and "Subnet Mask *". At the bottom are "Add" and "Close" buttons.

Figure 63 – Single IP Network Assignment

3.3.2.5.1.1 Add Network

To add a network to a provider, follow the steps below:

1. Enter the IP address. It is a numerical label that is assigned to a device connected to a computer network for communication.
2. Enter the **Subnet Mask**.
3. Enter the Default Gateway.
4. Click **Add**.

 A screenshot of the "Add New Network" form, which is identical to the one in Figure 63. It has a "Select IP Range" section with "Single IP" selected. There are three input fields: "IP *", "Default Gateway *", and "Subnet Mask *". At the bottom are "Add" and "Close" buttons.

Figure 64 – Add New Network

5. The new network is added and appears in list of networks on Network Details.

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

6. A success message box appears.

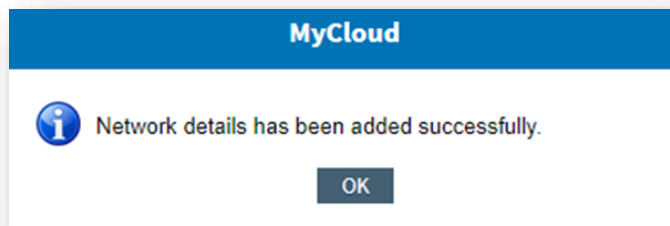


Figure 65 – Confirmation Message

3.3.2.5.1.2 Delete Network IP

To delete a network from provider environment, Provider user needs to follow steps below:

1. On the **Network Details** pane, select the IP address that needs to be deleted, and click Delete (🗑️).

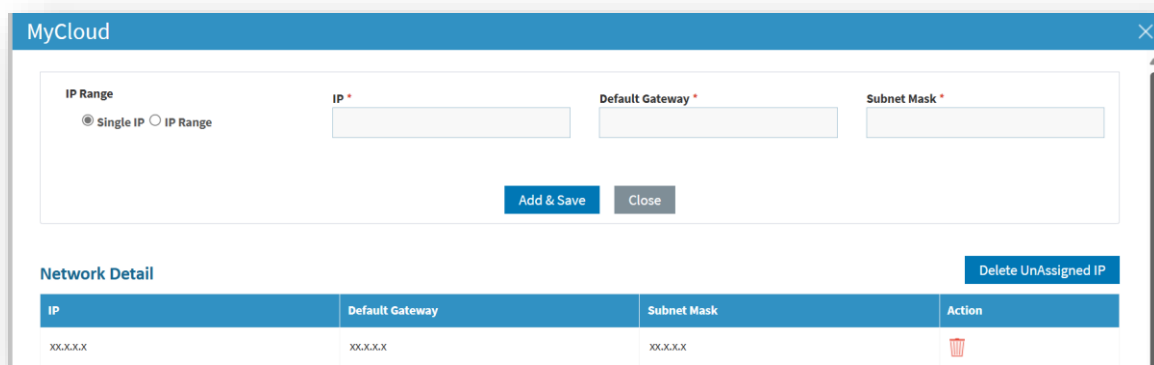


Figure 66 – Delete Network

2. When prompted to confirm, click **OK**.

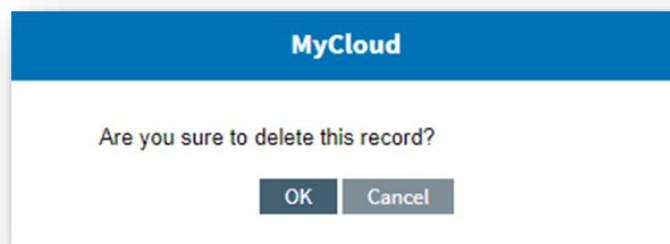


Figure 67 – Delete Network (Cont.)

3. A success message box appears.

Provider does not have the option to delete the selected IP address, if it is assigned to any organization.

4. Click Delete UnAssigned IP (Delete UnAssigned IP)

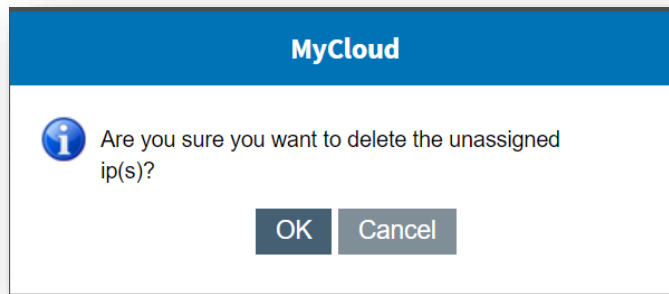


Figure 68 – Delete Network (Cont.)

5. Click **OK**. The following success message appears:

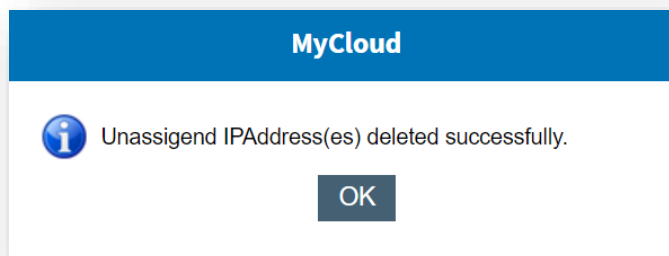


Figure 69 – Delete Network (Cont.)

3.3.2.5.2 IP Range Network Assignment

To assign an IP address range for a VM on selected platform while provisioning, follow the steps below:

1. On the **Assign Network IP** screen, select IP Range on the top.
2. It prompts the IP Range that helps to add network range using the **Add** button or delete existing networks.

 A form titled "Select IP Range". At the top, there are two radio buttons: "Single IP" and "IP Range", with "IP Range" selected. Below this, the section "IP Range" contains four input fields: "From IP", "To IP", "Subnet Mask", and "Default Gateway". Each field has a red asterisk indicating it is required. At the bottom of the form, there are two buttons: "Add" and "Close".

Figure 70 – IP Range Network Assignment

To assign a network range for a provider environment, follow the steps below:

- a. Enter the IP address range. This is assigned to a device connected to a computer network that uses the Internet Protocol for communication.
- b. Enter the **Subnet Mask**. IP address that is used in a network.
- c. Enter the Default Gateway.
- d. Click **Add** to add a network range.

Figure 71 – Add New Network

3. The new network range is added and appears in list of networks on Network Details pane as shown above.

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

4. A success message box appears.

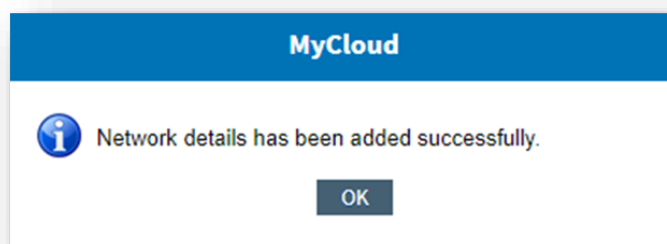


Figure 72 – Confirmation Message

3.3.2.6 Manage ITSM Configuration

This section describes how to manage the ITSM Configurations in MyCloud. Through this module, user manages configuration of ITSM tools along with parameters required for task creation/closure.

1. On the main menu bar, click **Master** and then click **Manage ITSM Configuration**.

Tool Type	Organization	Configuration Name	Authentication Type	User Name	OAuth URL	Action
SNOW	HCLorg	SNOW	BasicAuth	admin1		
SNOW	HCLorg	test1	OAuth2	123	123	
SNOW	HCLorg	SNOW_Test	OAuth2	adm121		
SNOW	HCLorg	Auth_Configuration	BasicAuth	iAutomateUser@hcl.com	N/A	
SNOW	HCLorg	ConfigTest_Piyush1	BasicAuth	testAPIuser	N/A	
SNOW	Abhishek_Org	Configuration_Abhishek	OAuth2	Test_Abhi		
SNOW	LDAP_org	Idap_itsmConfig	N/A	N/A	N/A	

Figure 73 – Add Configuration

2. Following are the options that are available:

- Add Configuration
- View Configuration
- Import Configuration

3.3.2.6.1 Add Configuration

To add ITSM configurations, Provider User needs to follow the below steps:

1. Select Tool Type.
2. Select Organization.
3. Enter Configuration Name.
4. Select Authentication Type.
5. Based on selection of **Authentication Type**, share the information.
6. Create step by populating the following fields:
 - Step Name,
 - Step URL,
 - Method Type
 - Content Type.
7. Add the **Header Tag** by adding the **Key** and **Value** pairs.
8. Click **Save**.

Figure 74 – Add Configuration

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

Table 18 – Add Configuration

Fields	Description
Tool Type	The name of ITSM tool

Organization	The organization that uses the ITSM tool
Configuration Name	Name the configuration
Authentication Type	The authentication types that are available in MyCloud
Username	User credentials which has access to ITSM endpoints
oAuth URL	Access token URL to authenticate the user
Header Tags	Header tags passed in header
Action	Provider user to take actions like Edit and Delete against the listed ITSM configurations

10. A success message box appears.

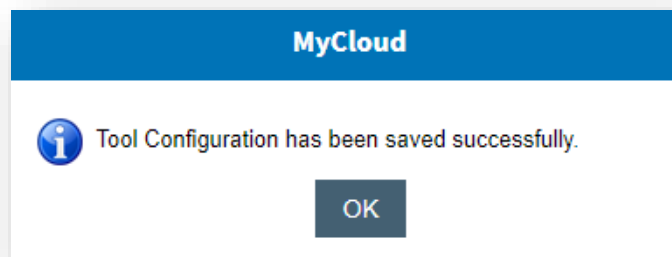


Figure 75 – Confirmation Message

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

11. The ITSM Configuration is added.

3.3.2.6.2 View Configuration

This section lists out all the ITSM configurations that have been created by Provider User.

Manage ITSM Configuration						
View Configuration Add Configuration Import Configuration						
Tool Type	Organization	Configuration Name	Authentication Type	User Name	OAuth URL	Action
SNOW	HCLorg	SNOW	BasicAuth	admin1		  
SNOW	HCLorg	test1	OAuth2	123	123	  
SNOW	HCLorg	SNOW_Test	OAuth2	admi21		  
SNOW	HCLorg	Auth_Configuration	BasicAuth	iAutomateUser@hcl.com	N/A	  
SNOW	HCLorg	ConfigTest_Piyush1	BasicAuth	testAPIuser	N/A	  
SNOW	Abhishek_Org	Configuration_Abhishek	OAuth2	Test_Abhi		  
SNOW	LDAP_org	Idap_ItsmConfig	N/A	N/A	N/A	  

Figure 76 – View Configuration

It also comprises of following actions:

- Edit (): To modify the details of existing ITSM configurations.
- View (): To view the details of ITSM configurations.

- Delete (🗑️): To delete the ITSM configurations.
- Export Json (📄): To export ITSM configuration in JSON.

3.3.2.6.3 Edit Configuration

To edit/ modify the existing ITSM configuration e.g. URL or User Credentials, Provider User needs to follow the below steps:

1. Click Edit (✎) against the ITSM configuration that requires to edit.
2. Modify the desired details.

Manage ITSM Configuration

View Configuration | **Add Configuration** | Import Configuration

Tool Type * SNOW Organization * HCLorg Configuration Name * test1

Authentication Detail

Authentication Type OAuth2 User Name 123 Change Password ☐

OAuth URL 123 Header Tags Key: Value: Content Type application/json

Steps Detail *

Step Name	Step URL	Method Type	Content Type	Action
Step Name	Step URL	--Select--	--Select--	+
123	123.com	POST	application/json	✎ 🗑️

Update

Figure 77 – Edit Configuration

3. Click **Update** to save the settings.
4. A success message box appears.

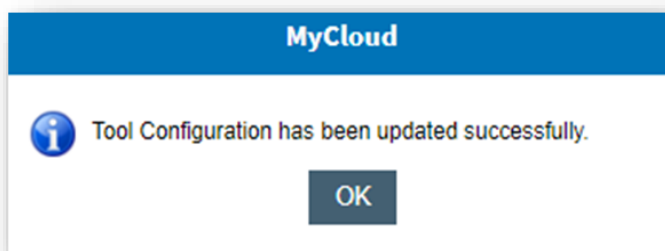


Figure 78 – Confirmation Message

3.3.2.6.4 Delete Configuration

To delete the existing ITSM configuration, Provider user needs to follow the below steps:

1. Click Delete (🗑️) against the configuration that user wants to delete.

Manage ITSM Configuration						
View Configuration Add Configuration Import Configuration						
Tool Type	Organization	Configuration Name	Authentication Type	User Name	OAuth URL	Action
SNOW	hclorg	aa	OAuth2	Mac	██████████	  
SNOW	hclorg	aa1	OAuth2	pvdemo@hcl.com	http://██████████/WebAPI/token	  
SNOW	hclorg	aa2	OAuth2	aa	██████████	  
SNOW	hclorg	config020522	OAuth2	N/A	N/A	  

Figure 79 – Delete Configuration

- Click **OK** to proceed or **Cancel** to discard the changes.

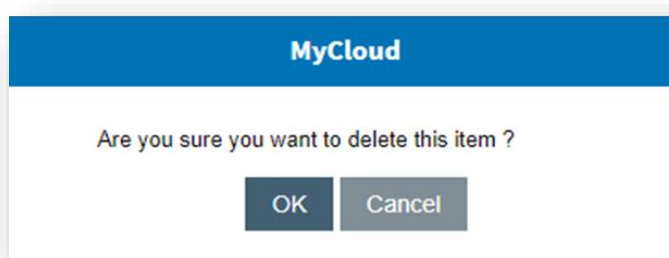


Figure 80 – Delete Configuration

- A confirmation message appears, Click OK.

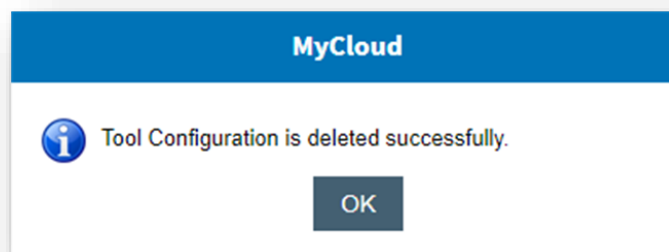


Figure 81 – Delete Configuration

To view the details of existing ITSM configuration, click View ().

3.3.2.6.5 Import Configuration

To import the existing ITSM configuration, Provider User needs to follow the below steps:

Manage ITSM Configuration

View Configuration Add Configuration **Import Configuration**

Organization * Process Template File *

--Select-- Choose a file Upload

Figure 82 – Import Configuration

1. Select Organization and Choose File.
2. Click **Upload**. **Add Configuration** screen appears.

Manage ITSM Configuration

View Configuration **Add Configuration** Import Configuration

Tool Type * Organization * Configuration Name *

SNOW HCLong TestITSM

Authentication Detail

Authentication Type User Name Password

BasicAuth sss

Header Tags

Key: Value:

Content Type

application/json

Steps Detail *

Step Name	Step URL	Method Type	Content Type	Action
Step Name	Step URL	--Select--	--Select--	Q
Step 1	http://test.com	POST	application/json	Q X

Save

Figure 83 – ITSM Configuration (Cont.)

3. Click **Save**.

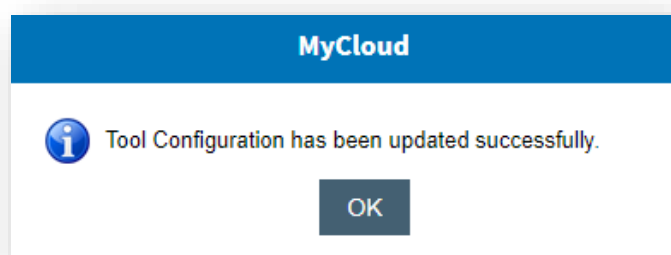


Figure 84 – Success Message

3.3.2.7 Manage Custom Tables

Through this module, Provider user can create its own custom tables and manages customer data in MyCloud. At the time of creation of Custom table, an API (by default) gets exposed to Fetch, Edit, Insert Data in it. The same is used at the time of creating UI template to populate request form fields.

1. On the main menu bar, click **Master** and then click **Manage Custom Table**.
2. It shows the following options:
 - Create Custom Table
 - View Custom Table
 - Import Custom Table

3.3.2.7.1 Create Custom Table

To create Custom Table, provider user needs to follow the below steps:

1. On the Manage Custom Table screen, click Create Custom Table.

Manage Custom Tables

View Custom Table | **Create Custom Table** | Import Custom Table

Organization* Table Name* Description*

* Note:- Autoid, CreatedBy, CreatedOn, ModifiedBy, ModifiedOn columns are system defined, can not be used by user.

Column Name	Data Type
	String

Save

Figure 85 – Create Custom Table

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

Table 19 – Create Custom Table

Field	Description
Table Name	Name the table
Description	Describe its usage and who can use it
Column Name	A unique label for the column
Organization	Name of the organization (Business units/ divisions in organizations)
Data Type	The field type for the column

3. Select Organization.
4. Enter Table Name and Description.
5. Enter Column Name and their Data Types.
6. Click **Save**.
7. A success message box appears.

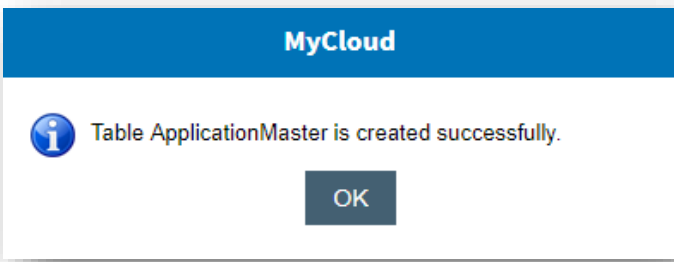


Figure 86 – Confirmation Message

8. A new Custom Table has been created, and it appears under View Custom Table screen.

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

3.3.2.7.2 View Custom Table

This section lists out all the custom tables that have been created by Provider user.

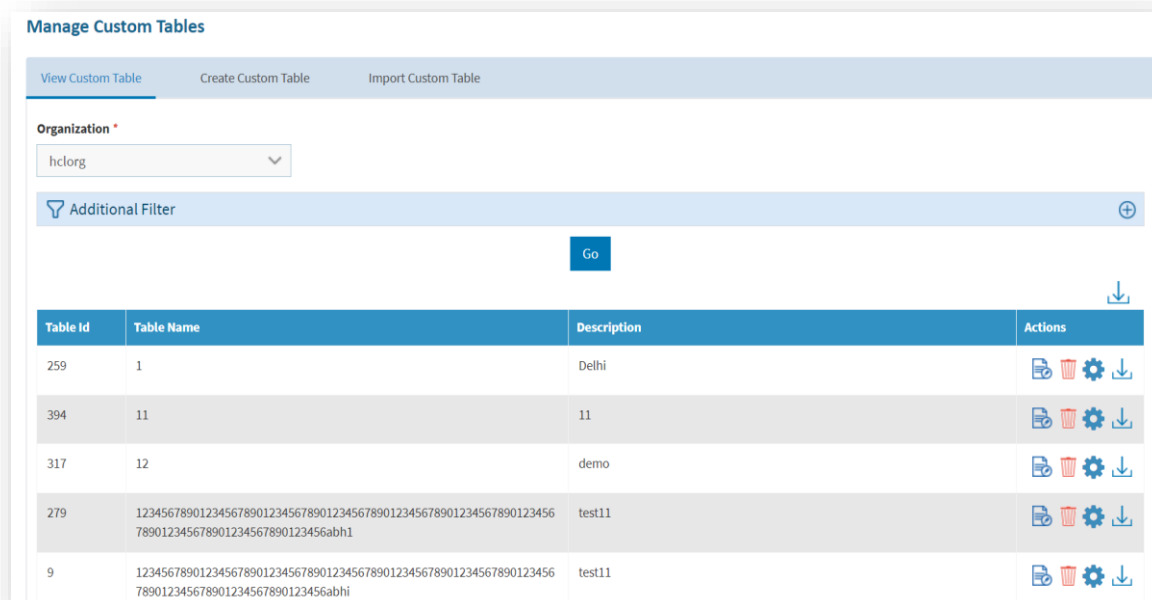


Figure 87 – View Custom Table

It also comprises of following actions:

- **Edit** (

3.3.2.7.3 Edit Custom Table

To edit/ modify existing Custom Table, the Provider user needs to follow the below steps:

1. Select **View Custom Table** and then click Edit (). It redirects it to **Create Custom Table**.
2. Modify the desired details.

Manage Custom Tables

View Custom Table **Create Custom Table** Import Custom Table

Organization * Table Name * Description *

HCLorg TableA Desc TableA

* Note: Autoid, CreatedBy, CreatedOn, ModifiedBy, ModifiedOn columns are system defined, can not be used by user.

Column Name	Data Type
Name	String
Dept	String

Update

Figure 88 – Edit Custom Table (Cont.)

- Then click Save.
- A success message box appears.

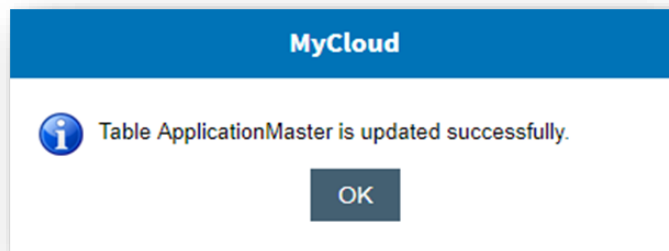


Figure 89 – Confirmation Message

3.3.2.7.4 Delete Custom Tables

To delete a custom table, Provider User needs to follow the below steps:

- Select **View Custom Table** and then click Delete (🗑️).

Manage Custom Tables

View Custom Table Create Custom Table Import Custom Table

Filters

Organization * AbhiTest

Additional Filter

Go

Table Id	Table Name	Description	Actions
30	TestDemo	Test	📄 🗑️ ⚙️

Figure 90 – Delete Custom Table (Cont.)

- When prompted to confirm, click **OK**.

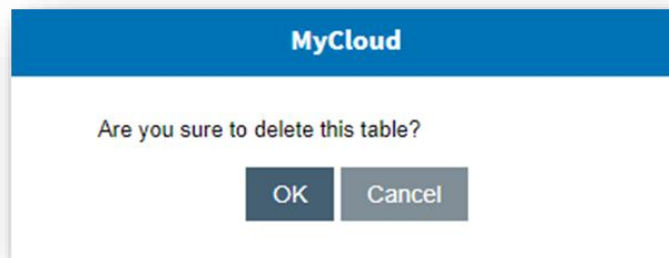


Figure 91 – Confirmation Message

3.3.2.7.5 Add Records

This section describes to Add records in existing custom table. To add records, Provider user needs to follow the below steps:

1. Select **Manage Custom Table**, and then click **Add Record** (⚙️).

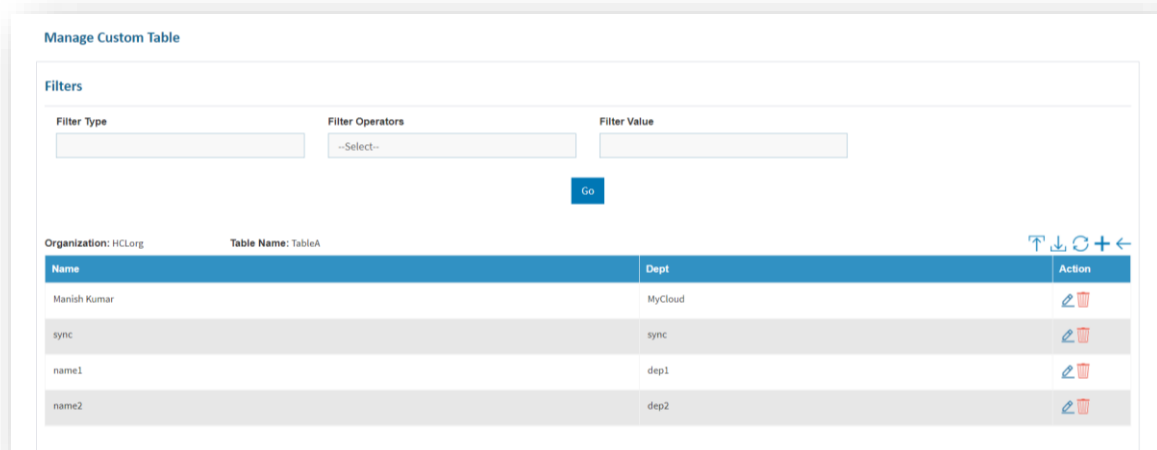


Figure 92 – Add Records

2. Click Add New Record.
3. A pop up appears with columns to enter values.
4. Enter the **Values** and click **Submit**.

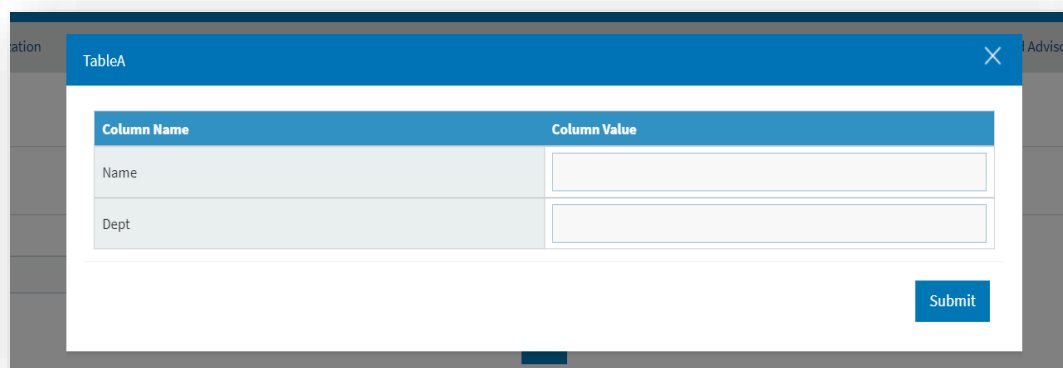


Figure 93 – AppMaster

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



Figure 94 – Confirmation Message

7. All records are displayed as below:

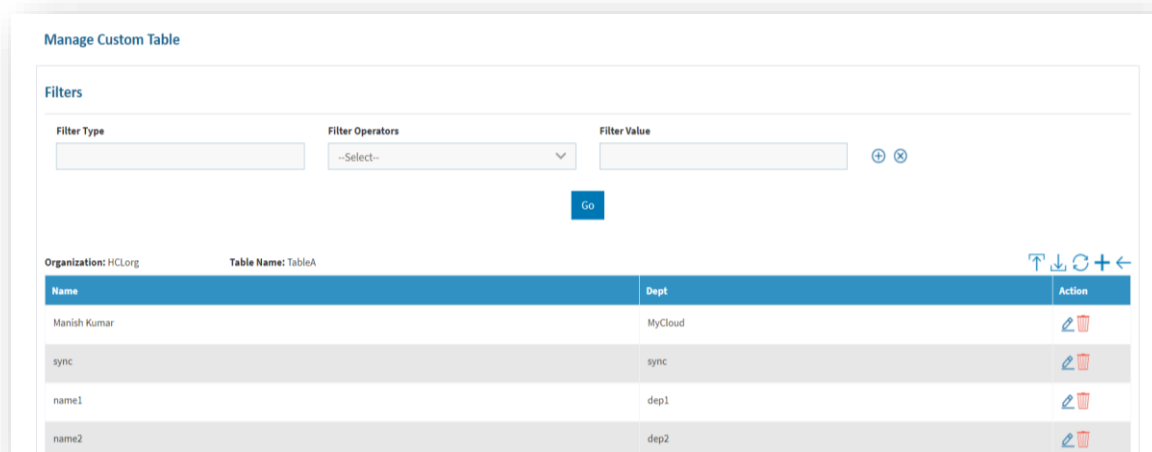


Figure 95 – Manage Custom Table

8. To Edit () and Delete () the information, please click the respective options to perform the activity.

3.3.2.7.6 Import Record

This section describes the processes to import records in custom table. To add records, Provider user needs to follow the below steps:

1. Select **Manage Custom Table**, and then click **Import** .

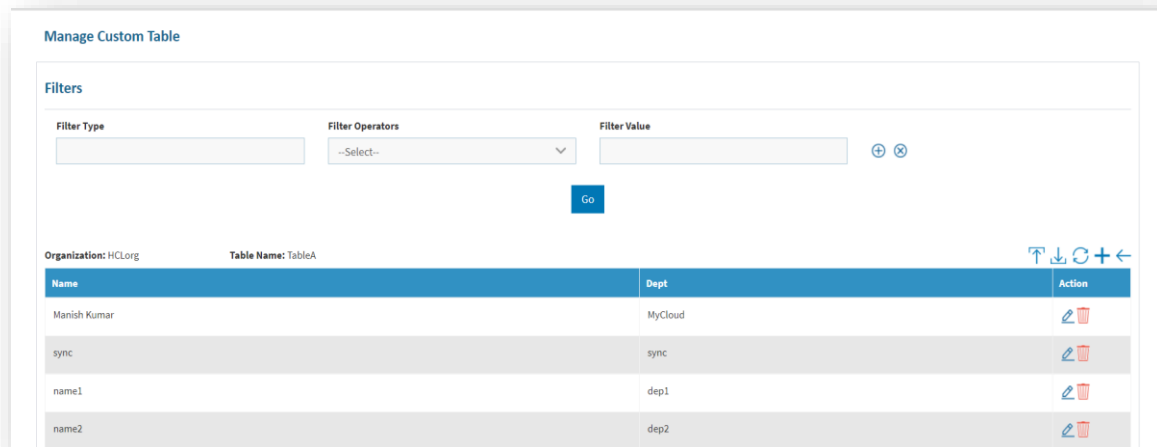


Figure 96 – Import Record

2. A pop up appears with upload file option.

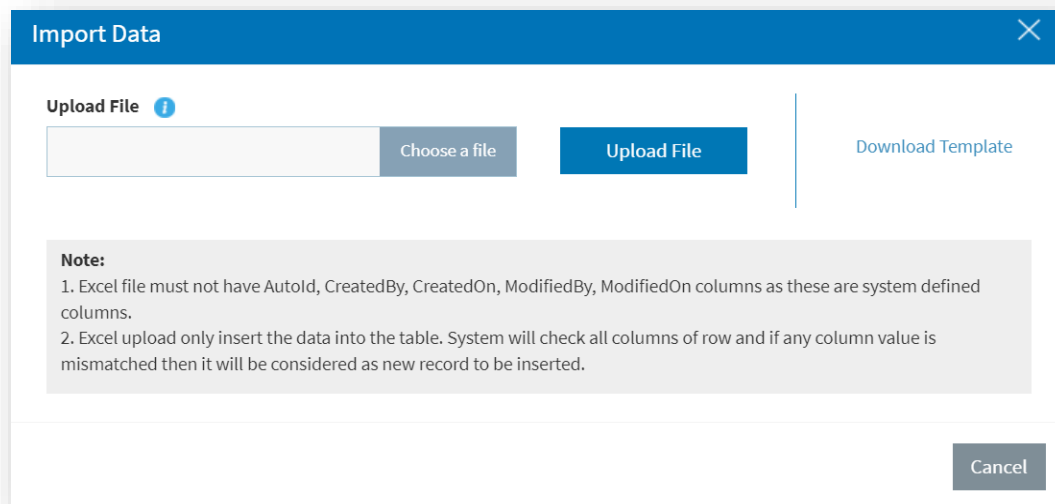


Figure 97 – Upload File

3. Click on **Download Template**. This template will guide the user to import data with prescribed format.
4. Click **Choose File** and **Upload File**. Or else, Click **Cancel** to discard the changes
5. A success message box appears.
6. Click **OK**.

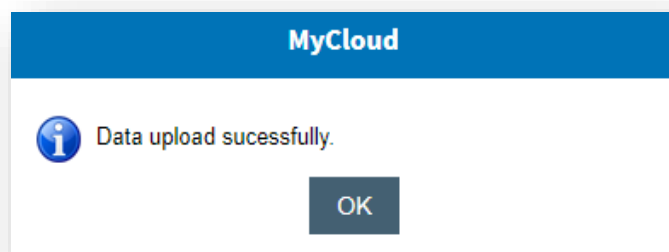


Figure 98 – Manage Custom Table

7. All records are displayed as below:

Figure 99 – Manage Custom Table

3.3.2.7.7 Refresh Custom Table

To refresh records, Provider user needs to click on the Refresh button .

3.3.2.7.8 Import Custom Table

To import Custom Table, provider user needs to follow the below steps:

Figure 100 – Import Custom Table

1. Select Organization.
2. Choose **Import Type**: Table Schema, Table Schema with Data, Table Data.
3. Click on **Choose a file** to upload a Json file.
4. Enter Table Name, Description.
5. Click **Import**.
6. User will get a success message.

3.3.2.8 Manage Quota

To manage quota through tagging of customer data, provider user creates custom tags for its customers.

1. On the main menu bar, click **Master**, and then click **Manage Quota**.
2. Following are the options that appear:
 - Add Tags
 - View Tags

3.3.2.8.1 Add Tags

To add custom tags for a customer, provider user needs to follow the below steps:

1. On the **Manage Quota** screen, click **Add Tags**.

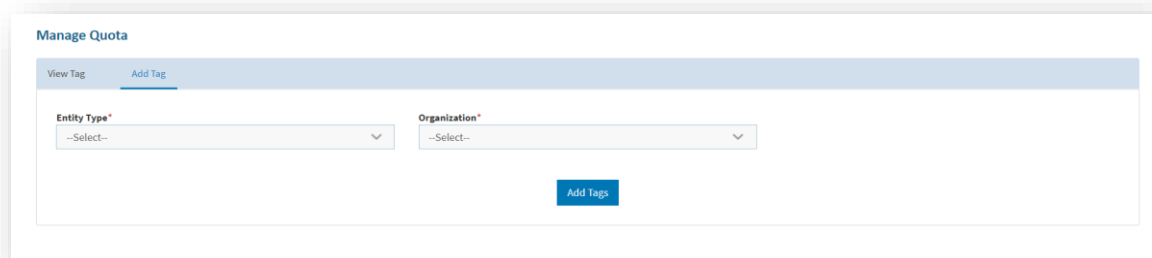


Figure 101 – Create Tags

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

Table 20 – Tags

Field	Description
Entity Type	The entity can be organization or RBAC
Organization	Name of the organization (Business units/ divisions in organizations)
RBAC	List of various groups that are available in MyCloud
Key	Tags are name-value combination and used to organize resources
Value	Value associated with the key

3. Select **Entity Type** (RBAC or Organization).
4. Select Organization.
5. Select **RBAC**, applicable for entity type “RBAC”.
6. Click Add Tags.
7. Provide **Key Name** and **Value**.
8. Click **Save**.
9. A success message box appears.



Figure 102 – Confirmation Message

All the fields given with asterisk (*) mark are mandatory.

3.3.2.8.2 View Tags

This section lists out all the tags that have been created by Provider user.

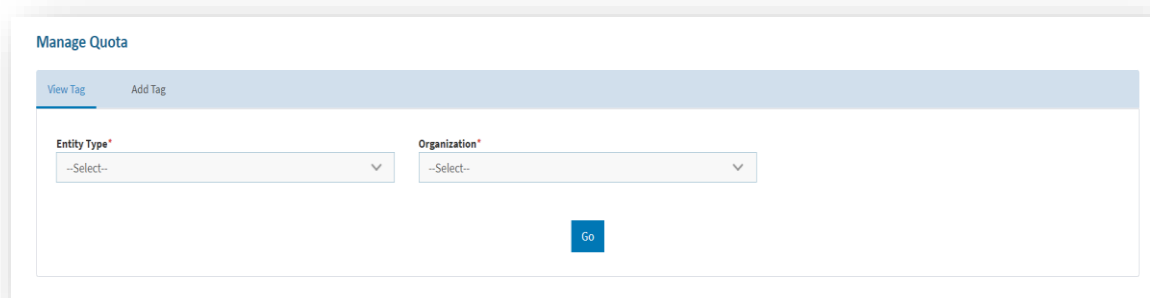


Figure 103 – View Tags

It comprises of following actions:

- **Add Tags** (): Add tags against the infra resources
- **Delete Tags** (): Delete tags against the infra resources

Provider user can edit the tags directly on the tags after selecting Entity Organization and RBAC.

3.3.2.8.3 Edit Tags

To edit/ modify the tags, provider user needs to follow the below steps:

1. On the **Manage Quota** screen, select **View Tags**.
2. Select **Entity**, **Organization** and **RBAC** (the option gets enabled only after entity has been populated with data in Entity Type).

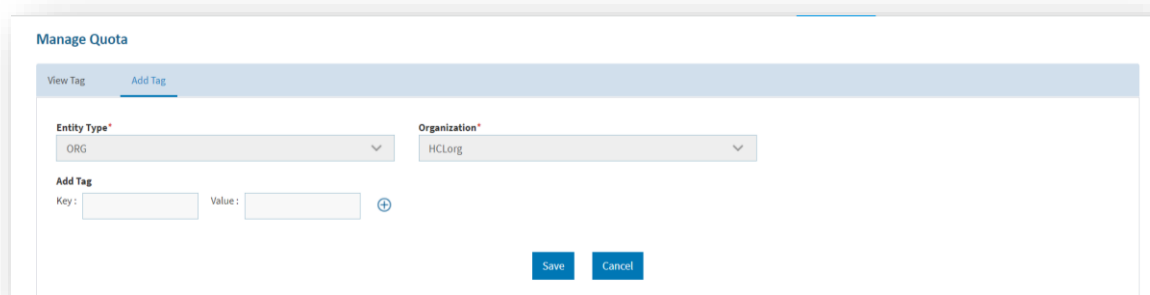


Figure 104 – View Tags

3. Modify the **Value**.
4. Click **Save**.
5. A success message box appears.

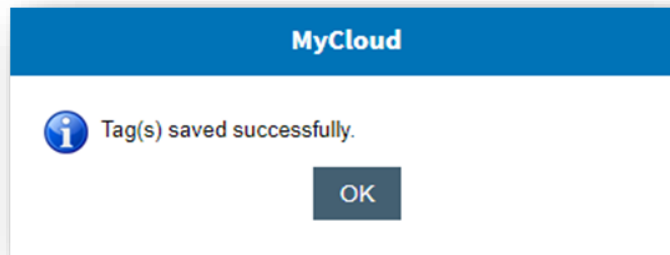


Figure 105 – Success Confirmation Message

6. By default, APIs are exposed to consume the same at the time of UI Creation.

3.3.2.8.4 Delete Tags

To delete tags, provider user needs to follow the below steps:

1. On the **Mange Quota** screen, select **View Tags**.
2. Select **Entity**, **Organization** and **RBAC** (the option gets enabled only after entity has been populated with data in Entity Type).

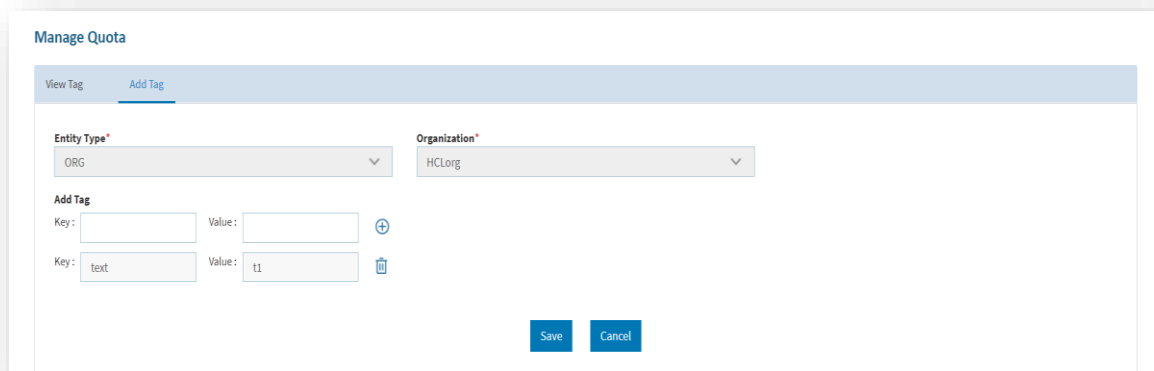


Figure 106 – Manage Quota

3. Click Delete (🗑️) to delete the required tags.
4. Click **Save**.
5. A success message box appears.

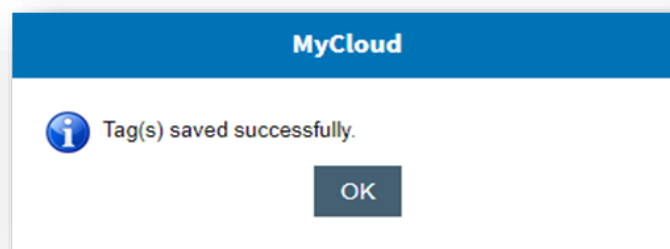


Figure 107 – Success Confirmation Message

3.3.2.9 Manage Service Types

Service Types are categorization of services that are provided by Cloud Providers. Provider User maps service catalogs with Service Types.

1. On the main menu bar, click **Master** and then click **Manage Service Types**.
2. It has following options:
 - Add Service Type
 - View Service Type

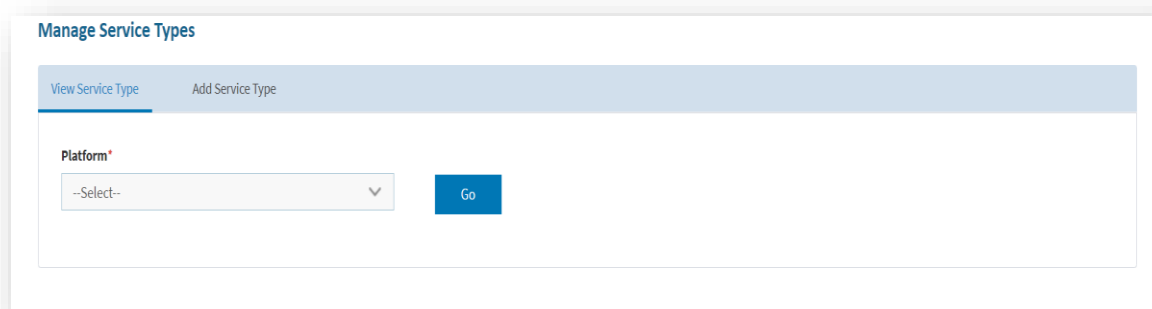


Figure 108 - Manage Service Types

3.3.2.9.1 Add Service Type

To add Service Type, Provider user needs to follow the below steps:

1. On the Manage Service Types screen, click Add Service Type.
2. Select **Platform**.
3. Enter Service Type and Display Name.

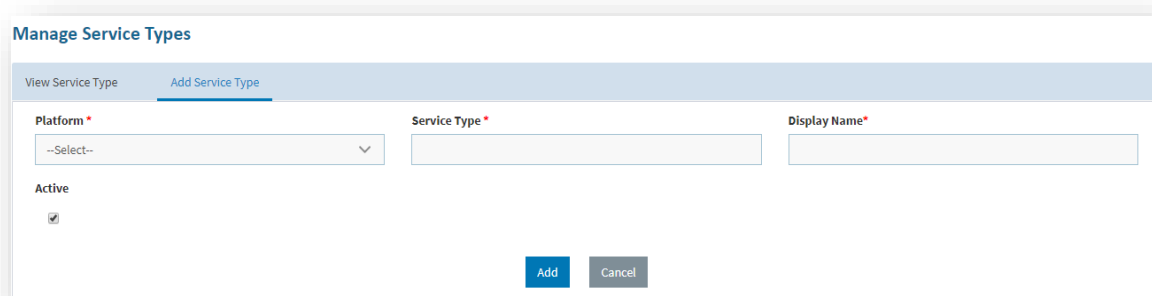


Figure 109 - Add Service Type

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

Table 21 – Service Types

Fields	Description
Platform	Name of the service providers
Service Type	Name the service that has been planned to get consumed via MyCloud
Display Name	A reference name/ original name of the service type
Active	Signifies whether service type is active or not

5. A success message box appears.



Figure 110 - Confirmation Message

6. The new Service type is created successfully.

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

3.3.2.9.2 View Service Type

This section lists out all the service types that have been created by Provider user.

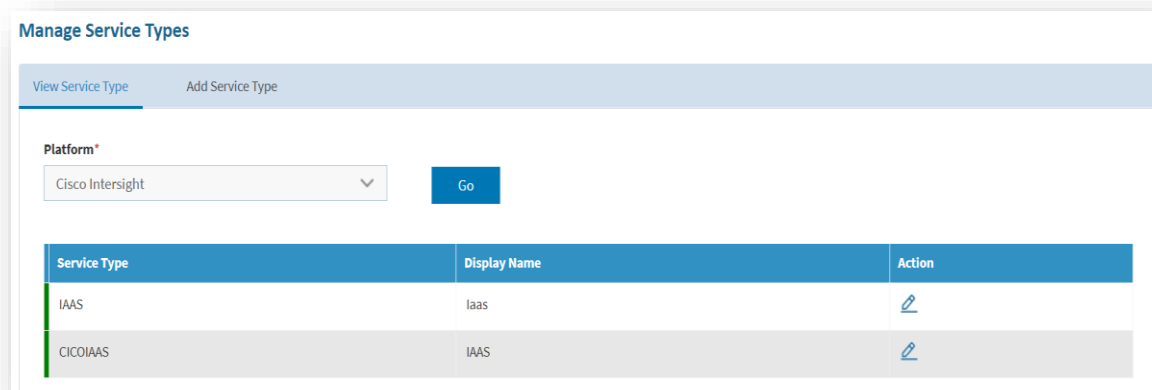


Figure 111 - View Service Type

It also comprises of following action:

- **Edit** (✎): To modify the details of existing providers

3.3.2.9.3 Edit Service Types

To edit/ modify the Service Types, provider user needs to follow the below steps:

1. On View Service Type tab, click Edit (✎).

Manage Service Types

View Service Type Add Service Type

Platform*

Cisco Intersight Go

Service Type	Display Name	Action
IAAS	laas	✎
CIC0IAAS	IAAS	✎

Figure 112 - Edit Service Type

2. Modify the desired details.

Manage Service Types

View Service Type Add Service Type

Platform* **Service Type*** **Display Name***

Microsoft Azure IaaS IaaS Service type

Active

☒

Update Cancel

Figure 113 - Edit Service Type (Cont.)

3. Click **Save**.
4. A success message box appears.

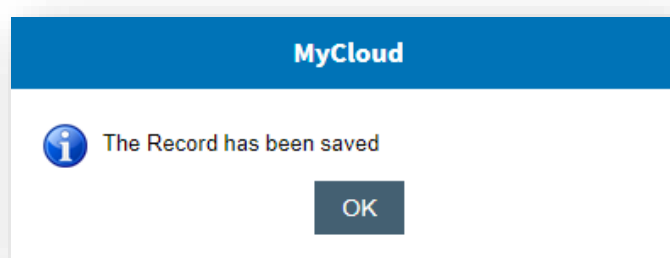


Figure 114 - Confirmation Message

3.3.3 Organization

An organization uses the service made available by MyCloud.

To manage an organization, provider user needs to follow below steps:

1. On the main menu bar, click Organization. The drop-down appears with the following options:
 - Manage Organization

- Manage Domain Organizational Unit (OU)
- Manage Questionnaire
- Allocate Resource to Organization
- Organization Network Assignment

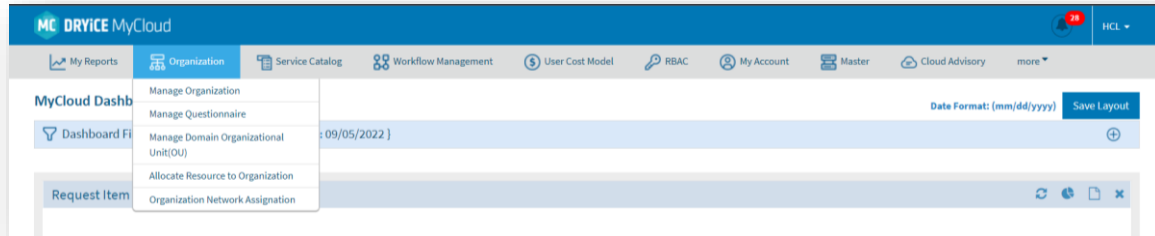


Figure 115 – Organization Drop down

3.3.3.1.1 Manage Organization

Through this module, Provider user manages an organization that includes activities like creation of the organization, adding & mapping of AD groups and modifying/ deleting an organization.

It has following options:

- Add Organization
- View Organization

3.3.3.1.2 Add Organization

To add an organization in MyCloud, a provider user needs to follow the below steps:

 The screenshot shows the 'Manage Organization' form with the 'Add Organization' tab selected. The form contains several fields and sections:

- Organization***: Text input field.
- Organization Code***: Text input field.
- Description***: Text input field.
- Currency***: Dropdown menu with '--Select--'.
- Preferred Language***: Dropdown menu with 'English (US)'.
- Authentication Type***: Dropdown menu with 'Form Based'.
- Optional Information-1**: Text input field.
- Optional Information-2**: Text input field.
- Request Prefix**: Text input field with 'SRREQ'.
- Reject Applicable For**: Dropdown menu with 'Portal Request'.
- Approval Applicable For**: Dropdown menu with 'Portal Request'.
- Referback Applicable For**: Dropdown menu with 'Portal Request'.
- User Cancelled Applicable For**: Dropdown menu with 'Portal Request'.
- Grace Period (In Days)**: Text input field with '0'.
- Delegation Enabled**: Dropdown menu with 'In Action Menu'.
- Draft Applicable**: Checkbox (unchecked).
- SSO Enable**: Checkbox (unchecked).
- Questionnaire Enabled**: Checkbox (unchecked).
- Action Scheduling Enabled**: Checkbox (unchecked).
- Copy Request Enabled**: Checkbox (unchecked).
- IT Verification Enabled**: Checkbox (unchecked).
- Multi-HyperVisor Enabled**: Checkbox (unchecked).

 At the bottom, there are 'Save' and 'Cancel' buttons.

Figure 116 – Add Organization

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

Table 22 – Add Organization

Field	Description
Organization	Name of the organization (Business units/ divisions in organizations)
Description	Details and the work of the organization, users associated with it and many more
Currency	In which currency, the bill gets generated
Optional Information	Provide any type of other information
Authentication Type	Select the authentication type (Form based, LDAP or SAML) In case of SAMLMyCloud support windows hello mechanism. Windows Hello is a more personal and secure way to sign in to your Windows device. Instead of using a password, with Windows Hello you can sign in using facial recognition, fingerprint, or a PIN. These options help make it easier and safer to sign into your account because your PIN is only associated with one device, and it's backed up for recovery with your Microsoft account.
SSO Enable	Whether to enable Single Sign On or not
Delegation Enabled	To enable send email to delegate user.
Questionnaire Enabled	To enable the questionnaire for the requester of the organization.
Action Scheduling Enabled	This option enables the Scheduling of an Action for this organization.
IT Verification Enabled	It enables IT verification stage for requests.
Copy Request Enable	It will enable the clone request option for requester in my request section.
Draft Applicable	To Enable Draft Functionality at Org Level. If checked then only Save Draft Can be enabled using Publish Service Catalog.

1. In the Add Organization tab, enter the Organization and Description.
2. The **Preferred Language** field gets auto filled with the default language which is English.
3. Select Currency & Authentication Type.
4. Enter **Optional information-1**, **Optional information-2**, and **Request Prefix**
5. Select **Approval Applicable For**, **Referback Applicable For**, and **User Cancelled Applicable For**
6. The supported Authentication Types are given below:
 - Form Based
 - LDAP
 - SAML
7. Enter additional information in the Optional Information text box, if required.
8. Click **Save**.
9. A success message box appears.

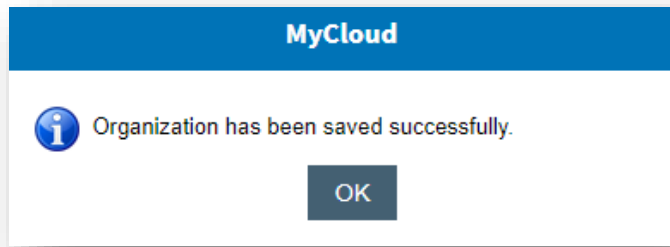


Figure 117 – Add Organization Confirmation Message

A new organization has been created and it appears in the tabular view.

With every new organization, A default service account is created. This account is utilized for workflow task execution.

3.3.3.1.2.1 Configure Domains

Configure domains for syncing and Ldap authentication.

The **Add Domain** button allows to map a domain to an organization.

Domains provide a way to organize the users of an organization and permitting access according to their roles.

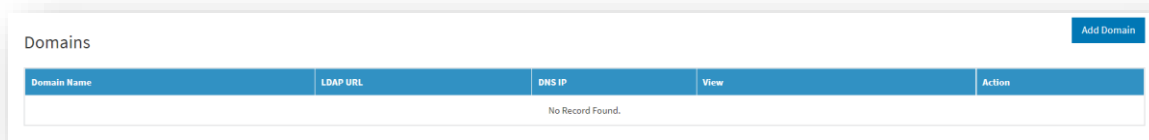


Figure 118 – Add Domain

1. To assign one or more domains to an organization, click Add Domain.
2. The Domain Details screen appears as below.

 A screenshot of the "Domain Details" form. The form is divided into several sections:

- Domain Platform ***: A dropdown menu with "Windows" selected.
- Applicable for Login**: A checkbox that is currently unchecked.
- LDAP URL**: A text input field with "LDAP://" entered.
- Net BIOS Name**: A text input field.
- Alternate DNS IP**: A text input field.
- Optional Information-1**: A text input field.
- Domain Name ***: A text input field.
- User Sync**: A checkbox that is currently unchecked.
- Domain User Name ***: A text input field.
- DNS IP**: A text input field.
- Primary WINS**: A text input field.
- Optional Information-2**: A text input field.
- Display Name ***: A text input field.
- Used for Domain Join**: A checkbox that is currently unchecked.
- Domain Password ***: A text input field with a search icon (magnifying glass) on the right.
- OUName**: A text input field.
- Secondary WINS**: A text input field.

 At the bottom of the form are two buttons: "Check Endpoint Connectivity" and "Save".

Figure 119 – Domain details

3. Define domain attributes as described in the below table:

Table 23 – Domain Attributes

Field	Description
-------	-------------

Domain Platform	OS Platform of domain server
Domain Name	Name of the domain
LDAP URL	It is a string that is used to encapsulate the address and port of a directory server.
Display Name	It is used to easily identify the domain in platform.
Domain Username	It is used to specify a user account in the selected domain.
Domain User Password	It is used to authenticate the username in the domain.
NET BIOS Name	It is the name of a program that allows applications on different computers to communicate within a local area network (LAN).
Alternate DNS IP	It is an alternate Internet service that translates domain names/hostnames to IP addresses (forward DNS) and IP addresses to their associated domain names/hostnames (Reverse DNS) with the help of a DNS server.
Primary and Secondary WINS	It dynamically updates name/address pairings as computers join and leave the network.
Optional information	Additional information about the domains, if required

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

4. To add domain, click Save.
5. A success message box appears.



Figure 120 – Add domain Successful Message

Provider user can add multiple domains by clicking Add Domains button.

6. After adding domains, provider needs to configure AD Groups into MyCloud against each domain.
7. To configure AD Group, provider needs to follow below steps.
 - a. Under the **View** tab, click on **AD Group Mapping**.

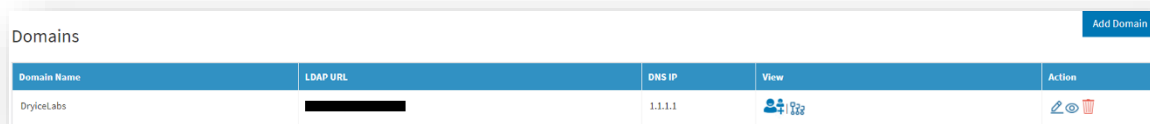


Figure 121 – Configure Groups

- b. Click on the Configure AD groups icon under the View Tab.

The below pane appears.:

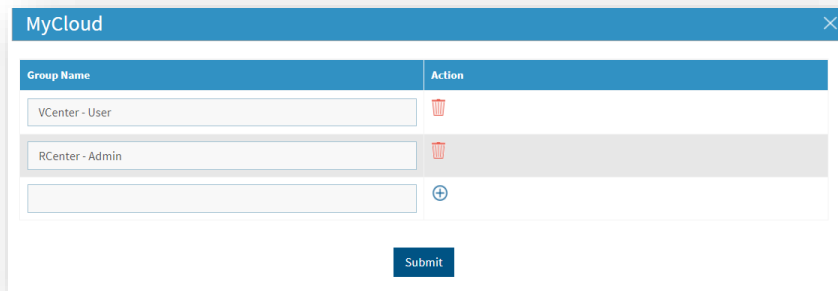


Figure 122 – Configure Groups

- c. To add a group, enter the group name under **Group Name**.
- d. Click on Add () to Add AD Group.
- e. Click on **Submit**.

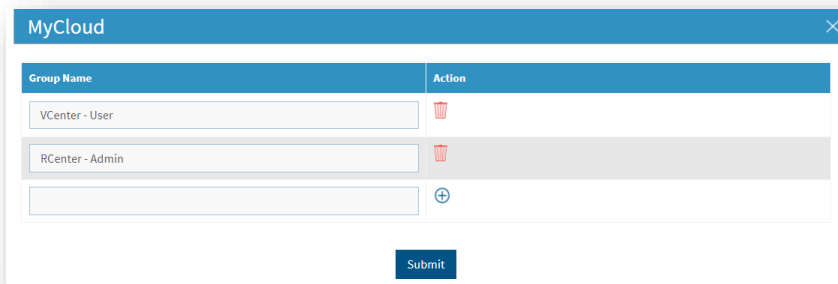


Figure 123 – Configure Groups

A success message box appears.



Figure 124 – Confirmation Message

8. To delete group, provider user needs to follow the below steps:
 - a. Click on Delete against a group user wishes to delete.

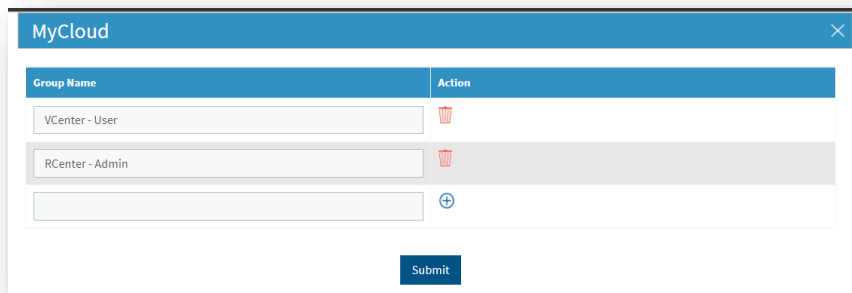


Figure 125 – Configure Groups

- b. Click **OK**.

A Confirmation Message appears

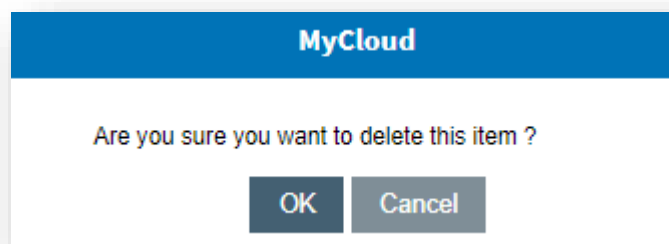


Figure 126 – Confirmation Message

- c. Click on **Submit**.

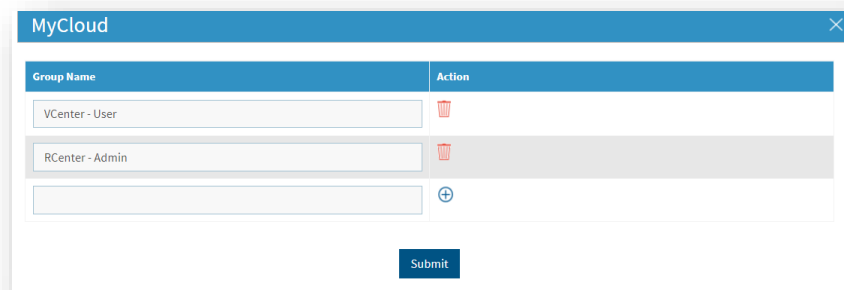


Figure 127 – Configure Groups

A success message box appears.



Figure 128 – Confirmation Message

9. Once the AD Group Configuration is completed, the provider needs to map AD Columns against each Domain.
10. To map AD columns in MyCloud, follow the below steps:

- a. Under View tab, click on AD Column Mapping.

Domains Add Domain				
Domain Name	LDAP URL	DNS IP	View	Action
DryiceLabs	http://dryicelabs.com	1.1.1.1	 	  

Figure 129 – AD Column Mapping

- b. Provide **AD Column Name** against each source.
- c. Click on **Submit**.

MyCloud

Source (User Table Columns)	AD Columns	Action
UserName		
Email		
Userid		
--Select--		

Submit

Figure 130 – AD User Column Mapping

A success message box appears.

MyCloud

 Data has been saved successfully.

OK

Figure 131 – Confirmation Message

After configuring LDAP, user needs to enable jobs (refer to **Manage Jobs**) associated with AD component.

3.3.3.1.2.2 Configure SAML2.0

To Configure SAML Authentication,

1. Select authentication type as “SAML2.0”. The following section will appear.

SAML

Id* 

idpSSO URL* 

Name ID* 

SSO Tool*

Logout URL*

--Select--

Figure 132 –SAML2.0 Details

2. Define SAML2.0 attributes as described in the below table:

Table 24 – SAML2.0 Attributes

Field	Description
Id	Identity Provider might need this to establish the identity of the service provider requesting the login. Basically, it is used for handshaking of the application. Example: MYCLOUDDEV.
idpSSO URL	Identity Provider Single Sign-on URL, where our website redirect for Authentication. Example :https://XXX.COM/SAAS/auth/federation/sso.
Name ID	NAMEID is the complete path of xmlnode where NameID value (USERNAME/EMAIL) exist. It based on identity provider. Example: VMWAR Identity Manager : /samlp:Response/saml:Assertion/saml:Subject/saml:NameID ADFS : saml2:NameID.
SSO Tool	Allowed values are ADFS, IDM, PINGFEDERATE, PINGIDENTITY
Logout URL	Logout URL where application will take user after logout the application.

3. Click **Save**.
4. A success message box appears.

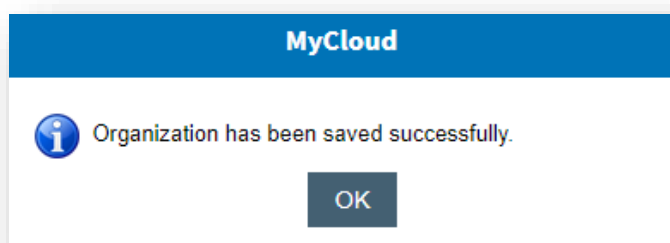


Figure 133 – Add Organization confirmation message

A new organization has been created and it appears in the tabular view.

3.3.3.1.2.3 Configure Widgets

To configure the widgets for an organization in MyCloud, provider needs to follow the below steps:

1. On the View Organization tab, click Configure Widgets icon (🔧).

Manage Organization							
View Organization		Add Organization					
Organization	Description	Organization Code	Object Id	Provider Object Id	Created By	Created On	Action
ArunOrg1	<alert("Hello")/>	ArunOrg1	ORG-C9E2B58F-2AC2-4467-A2BB-9986A5D48F90	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	19 Dec 2022	    
AshOrg	Test	AshORGashORGashORG AshORGashORGashORG AshORGashORGashORG	ORG-E34F9216-BD1C-4A73-A9BA-599E1DE05B95	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	15 Nov 2022	    

Figure 134 – Configure Widgets

- Following popup will open to Configure the widgets.

Widget Configuration For Organization(aa)

Role*

--Select--

NOTE: Only selected Widget(s) will be displayed on Dashboard Screen.

No Record Found.

Assign Widgets
Close

Figure 135 – Configure Widgets

- Select Role.

Widget Configuration For Organization(aa)

Role*

Organization Admin

NOTE: Only selected Widget(s) will be displayed on Dashboard Screen.

Configure Widgets

☒ Item Wise Request Status
☒ Azure Location Wise Billing

☒ Request Trend
☒ Amazon Account wise Billing

☒ Start vs Stop VM
☒ Amazon Product wise Billing

☒ OS Wise Provisioning Request
☒ Amazon Availability Zone wise Billing

☒ Category Wise VM
☒ Size Wise Billing

☒ Platform Wise Request
☒ Top 5 Utilization - CPU(AVG) %

☒ Request Item SLA
☒ Top 5 Utilization - Memory(AVG) MB

☒ Azure Resource Group Wise Billing
☒ Top 5 Utilization - Disk In(AVG) KBps

Assign Widgets
Close

Figure 136 – Configure Widgets Contd.

- Click Assign Widgets.

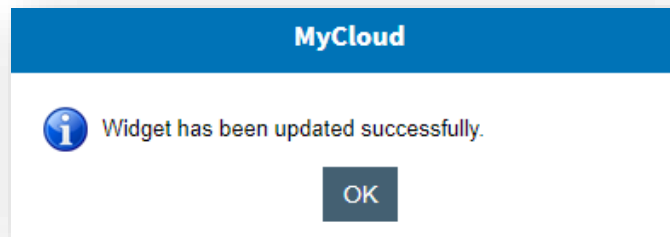


Figure 137 – Success Message

3.3.3.1.3 View Organization

This section lists out all the organizations that have been created by Provider user.

Manage Organization							
View Organization Add Organization							
Organization	Description	Organization Code	Object Id	Provider Object Id	Created By	Created On	Action
ArunOrg1	<alert("Hello")/>	ArunOrg1	ORG-C9E2B58F-2AC2-4467-A2BB-9986A5D48F90	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	19 Dec 2022	    
AshOrg	Test	AshORGashORGashORG AshORGashORGashORG AshORGashORGashORG	ORG-E34F9216-BD1C-4A73-A9BA-599E1DE05B95	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	15 Nov 2022	    

Figure 138 – View Organization

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

Table 25 – View Organization

Field	Description
Organization	Name of the organization (Business units/ divisions in organizations)
Description	Displays the details and the work of the organization
Object ID	It is a unique ID generated by MyCloud for the organization
Provider Object ID	It is a unique ID generated by MyCloud for the Provider
Created By	Name of the person who has created the organization
Created On	The date on which it has been created
Action	Provider user to take actions like Edit and View against the listed organizations

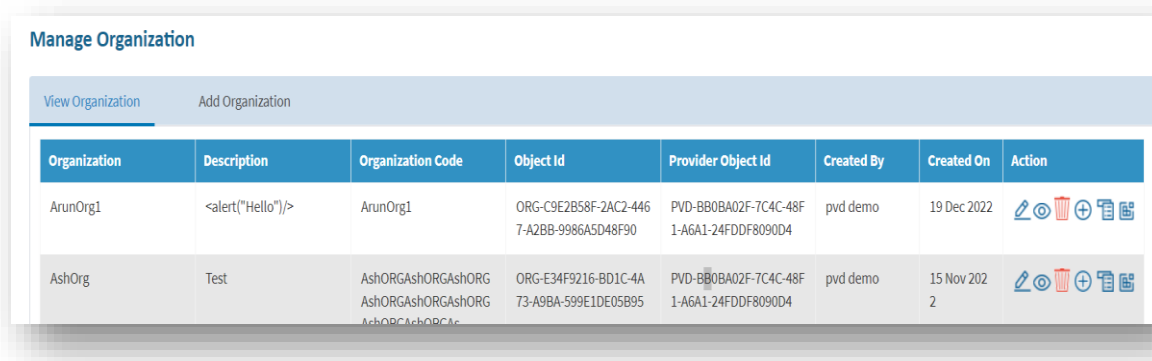
It also comprises of following actions:

- **Edit** (): To modify the details of an existing organization.
- **View** (): To View an organization.
- **Map Question** (): To map question to organization.
- **Configure Menus** (): To configure the menu for an organization.
- **Configure Widgets** (): To configure the widgets for an organization.

3.3.3.1.4 Edit Organization

To modify/ edit an organization's information. Provider needs to follow the below steps:

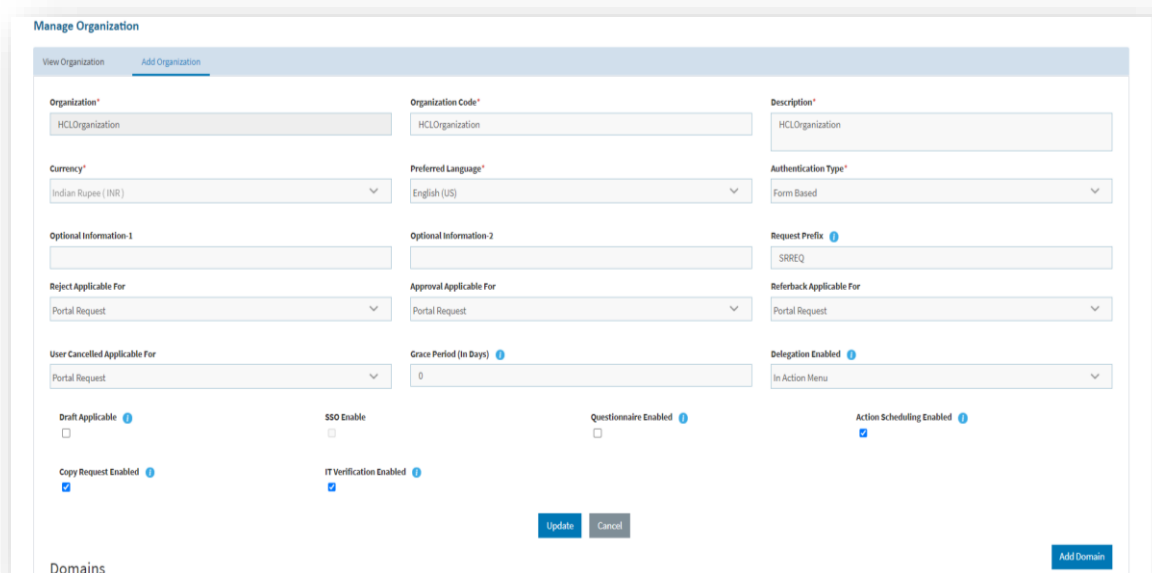
1. In the Manage Organization pane (below), click Edit ()



View Organization		Add Organization					
Organization	Description	Organization Code	Object Id	Provider Object Id	Created By	Created On	Action
ArunOrg1	<alert("Hello")/>	ArunOrg1	ORG-C9E2B58F-2AC2-4467-A2BB-9986A5D48F90	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	19 Dec 2022	    
AshOrg	Test	AshORGashORGashORG AshORGashORGashORG AchORCAchORCAc	ORG-E34F9216-BD1C-4A73-A9BA-599E1DE05B95	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	15 Nov 2022	    

Figure 139 – Edit organization Details

2. The following screen appears:



Manage Organization

View Organization | **Add Organization**

Organization* HCLOrganization	Organization Code* HCLOrganization	Description* HCLOrganization
Currency* Indian Rupee (INR)	Preferred Language* English (US)	Authentication Type* Form Based
Optional Information-1 	Optional Information-2 	Request Prefix ⓘ SRREQ
Reject Applicable For Portal Request	Approval Applicable For Portal Request	Referback Applicable For Portal Request
User Cancelled Applicable For Portal Request	Grace Period (In Days) ⓘ 0	Delegation Enabled ⓘ In Action Menu
Draft Applicable ⓘ ☐	SSO Enable ☐	Questionnaire Enabled ⓘ ☐
Copy Request Enabled ⓘ ☒	IT Verification Enabled ⓘ ☒	Action Scheduling Enabled ⓘ ☒

Update **Cancel**

Domains **Add Domain**

Figure 140 – Edit Organization Details

3. Modify the details as desired and click **Update**.
4. Click **Cancel** to discard all changes.
5. A success message box appears.

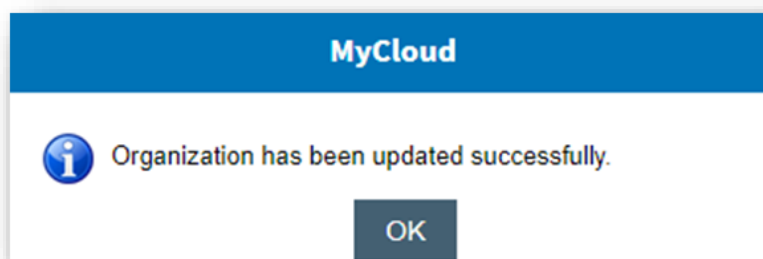


Figure 141 – Success Confirmation Message

3.3.3.1.5 View Organization

To view details of an existing organization in MyCloud, provider needs to follow the below steps:

1. On the **View Organization** tab, Click View ().

Manage Organization

View Organization Add Organization

Organization	Description	Organization Code	Object Id	Provider Object Id	Created By	Created On	Action
ArunOrg1	<alert("Hello")/>	ArunOrg1	ORG-C9E2B58F-2AC2-4467-A2BB-9986A5D48F90	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	19 Dec 2022	   
AshOrg	Test	AshORGashORGashORG AshORGashORGashORG AshORGashORGashORG	ORG-E34F9216-BD1C-4A73-A9BA-599E1DE05B95	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	15 Nov 2022	   

Figure 142 – View Organization

2. Click **Delete** to delete the organization.

Manage Organization

View Organization Add Organization

Organization * ArunOrg1 Organization Code * ArunOrg1 Description * <alert("Hello")/>

Currency * Indian Rupee (INR) Preferred Language * English (US) Authentication Type * Form Based

Optional Information-1 Optional Information-2 Request Prefix SRREQ

Reject Applicable For Portal Request Approval Applicable For Portal Request Referback Applicable For Portal Request

User Cancelled Applicable For Portal Request Grace Period (In Days) 0 Delegation Enabled In Action Menu

Draft Applicable SSO Enable Questionnaire Enabled Action Scheduling Enabled

Copy Request Enabled IT Verification Enabled Multi-HyperVisor Enabled

Cancel Add Domain

Domains

Domain Name	LDAP URL	DNS IP	View	Action
TEST	LDAP://TEST		 	 

Figure 143 – View Organization (Cont.)

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

3. When prompted to confirm, click **OK**.

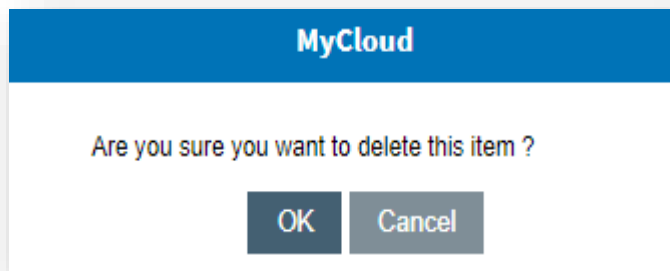


Figure 144 – View Organization (Cont.)

4. A success message box appears.

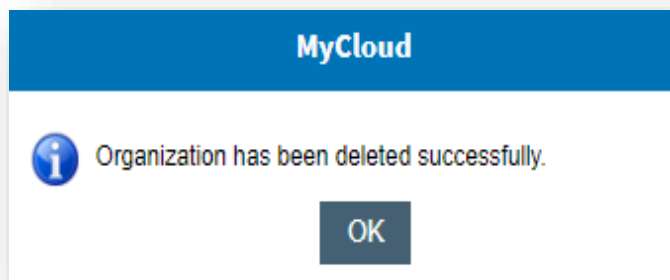


Figure 145 – View Confirmation Message

3.3.3.1.6 Map Questions

To map questions for an organization, Provider user needs to follow the below steps:

1. Click **Map Questions** (+). This section lists out all the questions that have been created by Provider user.
2. Select the question and click **Map Question**.

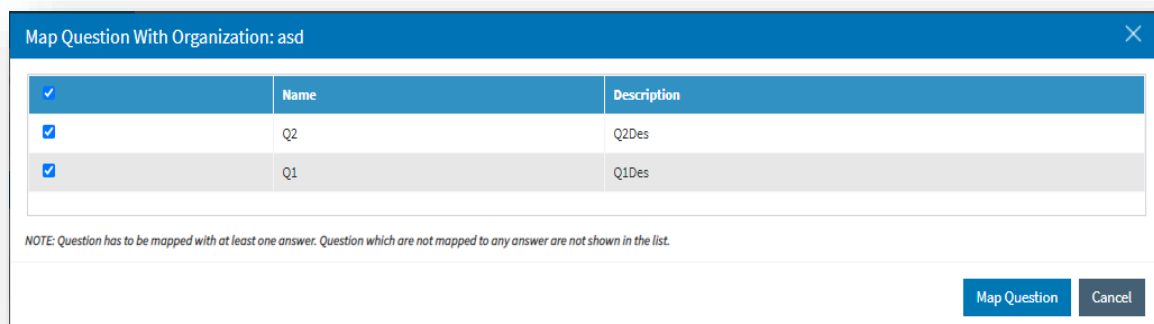


Figure 146 – Map Question

3. A success message box appears.

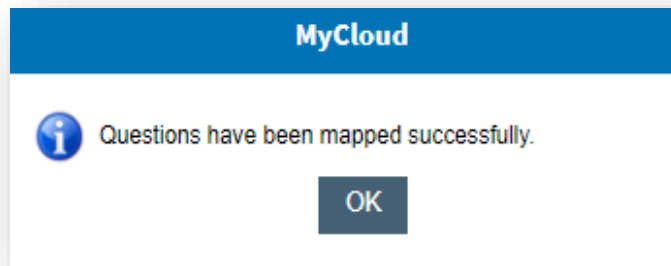


Figure 147 – Map Question Success Message

3.3.3.1.7 Configure Menu

To configure the menu for an organization in MyCloud, provider needs to follow the below steps:

1. On the View Organization tab, Click Configure Menu ().

Manage Organization							
View Organization		Add Organization					
Organization	Description	Organization Code	Object Id	Provider Object Id	Created By	Created On	Action
ArunOrg1	<alert("Hello")/>	ArunOrg1	ORG-C9E2B58F-2AC2-4467-A2BB-9986A5D48F90	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	19 Dec 2022	    
AshOrg	Test	AshORGashORGashORG AshORGashORGashORG AshORGashORGashORG	ORG-E34F9216-BD1C-4A73-A9BA-599E1DE05B95	PVD-BB0BA02F-7C4C-48F1-A6A1-24FDDF8090D4	pvd demo	15 Nov 2022	    

Figure 148 – Configure Menu for Organization

2. Following popup will open to Configure the menu.

Menu(s) Configuration For Organization(aa)

Group*

Requester

NOTE: Only the selected Menu(s)/Submenu(s) will be shown on the screen.

Select organization menu

+

My Reports (13/13)

+

Service Catalog (1/1)

+

My Account (3/3)

+

Request (1/1)

+

Help (1/1)

Assign Menus

Close

Figure 149 – Configure Menu for Organization (Cont.)

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

3. Select Menu options and click Assign Menu.
4. A success message box appears.



Figure 150 – Configure Menu Confirmation Message

3.3.3.2 Manage Domain Organizational Unit (OU)

This module empowers MyCloud Provider user with the capability to Manage Domain Organizational Unit. An organizational unit (OU) is like a container within a Microsoft [Active Directory](#) domain which can accommodate Users and Groups. It is the smallest unit to which an administrator can assign [Group Policy](#) settings or account permissions. An Organizational Unit can have multiple OUs within it, but all attributes within the containing OU must be unique. MyCloud provides users to Create and View Organizational Units associating with domain.

1. On the main menu bar, click Organization and then click Manage Domain Organizational Unit (OU).
2. The Manage Domain Organizational Unit(OU) screen appears as below.

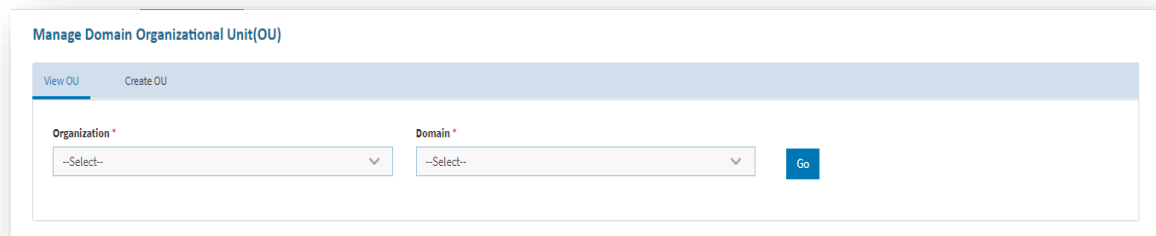


Figure 151 – Manage Domain Organizational Unit(OU)

3. It has following sections,
 - View OU
 - Create OU.

3.3.3.2.1 View OU

To View the existing Organizational Units (OU) created by Provider User.

1. Click **View OU** tab.

Manage Domain Organizational Unit(OU)

View OU Create OU

Organization * --Select--

Domain * --Select--

Go

Figure 152 – Manage Domain Organizational Unit (OU)

2. Select Organization and Domain.
3. Click **Go**. List of OUs appears as shown in below figure:

Manage Domain Organizational Unit(OU)

View OU Create OU

Organization * HCLorg

Domain * MyCloud LDAP

Go

OU Name	Description	OU Path	Action
Test1	Test1	Test1	
Test2	Test1	Test1	
Test5	test1	test1	

Figure 153 – Manage Domain Organizational Unit (OU)(Cont.)

4. It also comprises of following actions:
 - **Edit** (): To modify the details of existing OU.
 - **Delete** (): To delete existing OU.

3.3.3.2.2 Edit Organizational Unit (OU)

To modify/ edit an Existing OU, Provider needs to follow the below steps:

1. In the **View OU** pane, click Edit ().

Manage Domain Organizational Unit(OU)

View OU Create OU

Organization * HCLorg

Domain * MyCloud LDAP

OU Name * Test1

OU Path * Test1

Description Test1

Update Cancel

Figure 154 – Edit Domain Organizational Unit (OU)

2. Enter details like **OU Name**, **Description** and **OU Path** to update.
3. Click **Cancel** if no update is required.
4. Click **Update**.
5. A Success message appears.

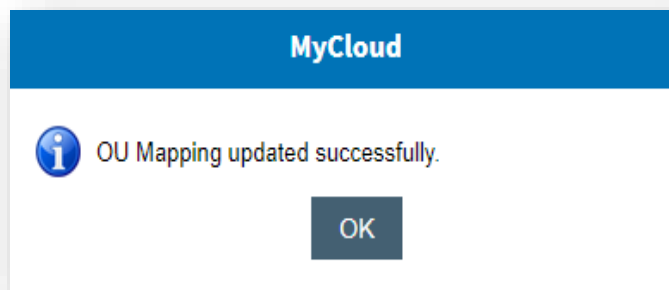


Figure 155 – Confirmation Message Organizational Unit (OU)

3.3.3.2.3 Delete Organizational Unit (OU)

To delete an existing OU, Provider needs to follow the below steps:

1. In the **View OU** pane, click Delete ().
2. A Confirmation Message appears.

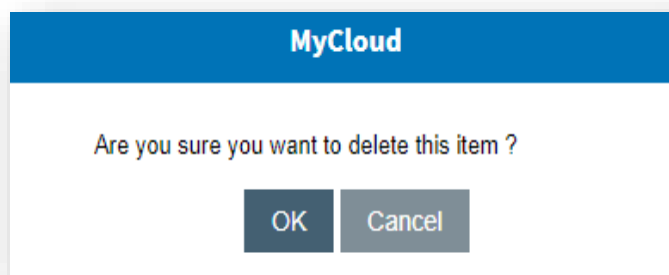


Figure 156 – Confirmation Message Organizational Unit (OU)

3. Click **Cancel** to discard the action.
4. Click **OK** delete.

3.3.3.2.4 Create OU

To Create New OU Mapping,

1. Click on **Create OU** Tab.

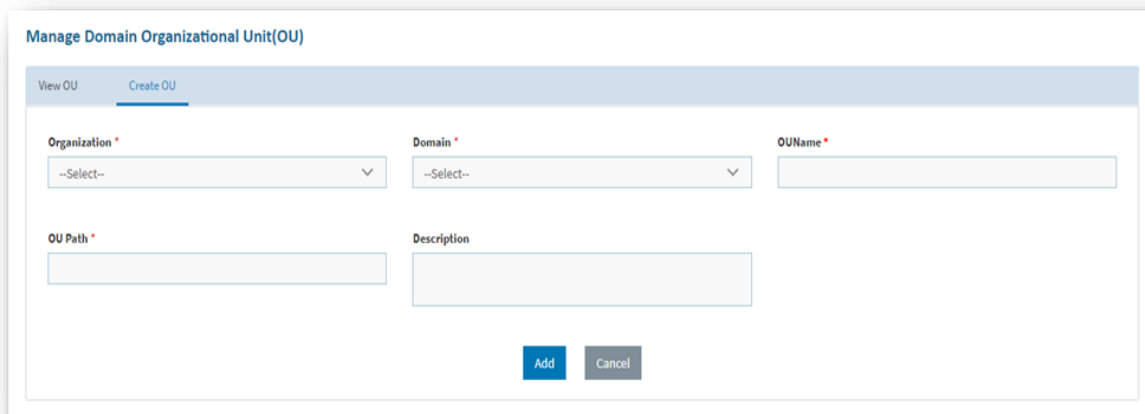


Figure 157 – Create Organizational Unit (OU)

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

Table 26 – Manage Domain OU

Field	Description
Organization	name of the organization (Business units/ divisions in organizations)
Domain	Domains provide a way to organize the users of an organization and permitting access according to their roles.
OU Name	Name of the Organizational Unit.
OU Path	Path of the Organizational Unit.
Description	Short description of OU.

2. Select Organization and Domain.
3. Enter OU Name, Description and OU Path.
4. Click **Add**.
5. A Success Message appears.

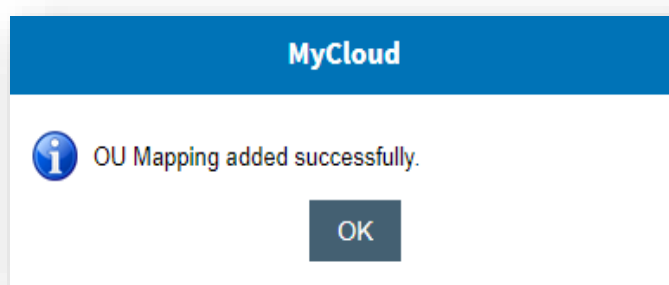


Figure 158 – Create Organizational Unit (OU)

3.3.3.3 Manage Questionnaire

This module empowers Provider user with the capability to configure custom questions and answers for an organization. The same presented as recommendation for end users, prior to provisioning of workloads on cloud platforms based on mapping of these questions and answers.

1. On the main menu bar, click **Organization** and then click **Manage Questionnaire**.

2. The **Manage Questionnaire** screen appears as below.
3. This section lists out all the Questions that have been created by Provider user.

Manage Questionnaire		
Questions Answers		
Add Question		
Question	Description	Action
OS Type	OS type	
Purpose	Purpose	
Environment Type	Environment	

Figure 159 – Manage Questionnaire

It also comprises of following actions:

- **Edit** (): To modify the details of existing questions
- **Delete** (): To delete existing list of questions
- **Configure Answer** (): To map an answer to a question

3.3.3.3.1 Add Question

To add new question, Provider user needs to follow the below steps:

1. Click Add Question.

Question Detail ×

Question*

Description*

Save Question

Figure 160 – Add Question

2. Enter the **Question** and its **Description**.
3. Click Save Question.
4. A success message box appears as below:



Figure 161 – Add Question Confirmation Message

3.3.3.3.2 Edit Question

To modify/ edit a Question information. Provider needs to follow the below steps:

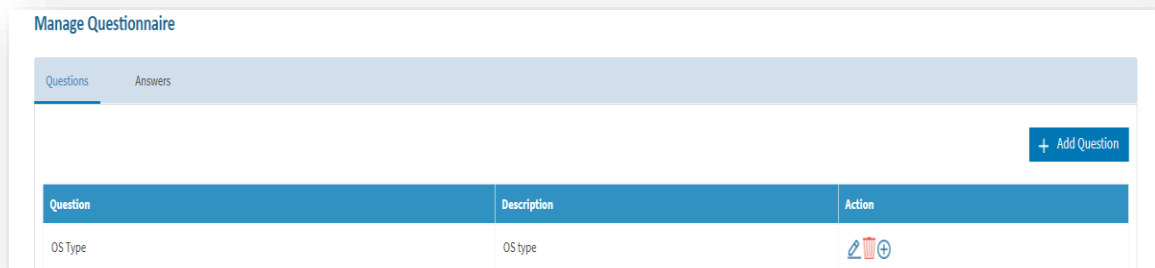


Figure 162 – Edit Question

1. In the **Manage Questionnaire** pane (below), click Edit () against a specific question.

 The "Question Detail" form has a blue header bar with a close button (X). It contains two input fields:

Question *	OS Type
Description *	OS type

 At the bottom right of the form is a blue button labeled "Save Question".

Figure 163 – Edit Question

2. Click **Save Question** to proceed further.
3. A success message box appears as below.



Figure 164 – Edit Question Confirmation Message

3.3.3.3.3 Delete Question

To delete an existing Question, Provider user needs to follow the below steps:

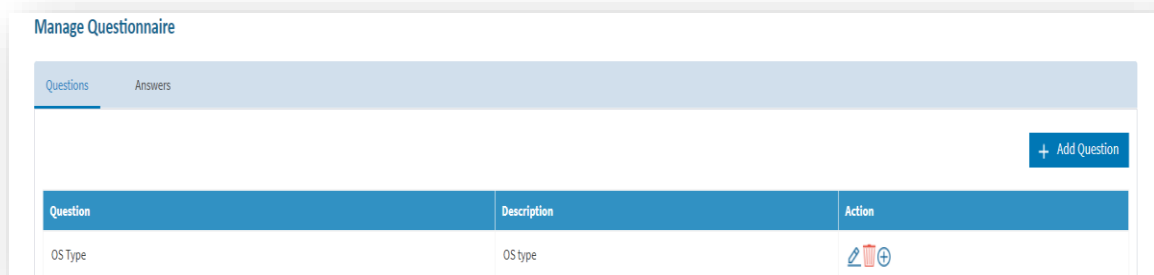


Figure 165 – Delete Question

1. Click Delete (🗑️) corresponding to the Question that is not required.
2. Click **OK** to confirm or **Cancel** to discard the change.

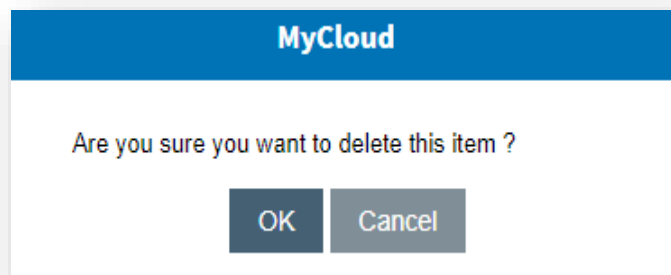


Figure 166 – Delete Question

3. A confirmation message pops up, Click **OK**.

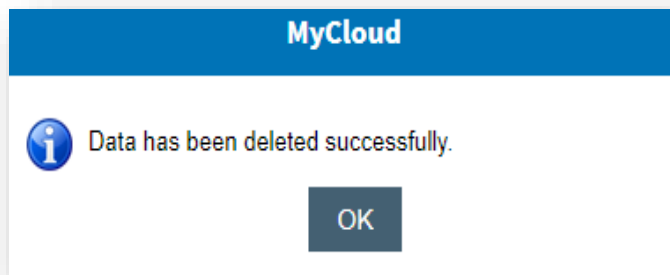


Figure 167 – Delete Question Confirmation Message

3.3.3.3.4 View Answer

This section lists out all the answers to a specific question that has been created by Provider user.

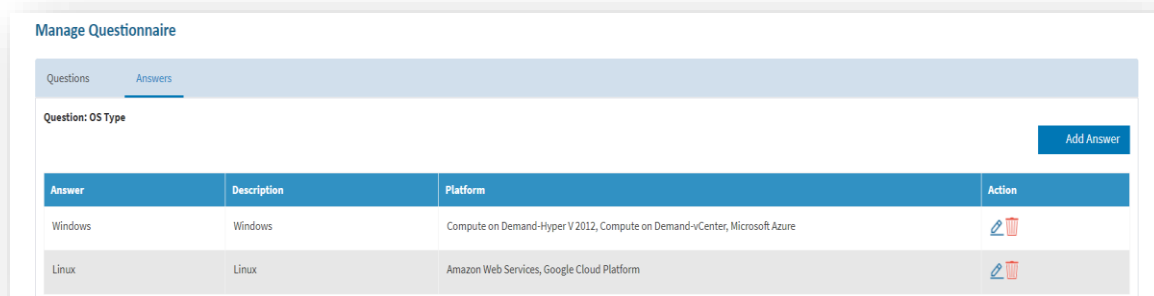


Figure 168 – View Answer

It also comprises of following actions:

- **Edit** (✎): modify the details of existing answers
- **Delete** (🗑): delete the existing answers

3.3.3.3.5 Edit Answer

To modify/ edit an answer, Provider needs to follow the below steps:

1. In the Answer pane, click Edit (✎).

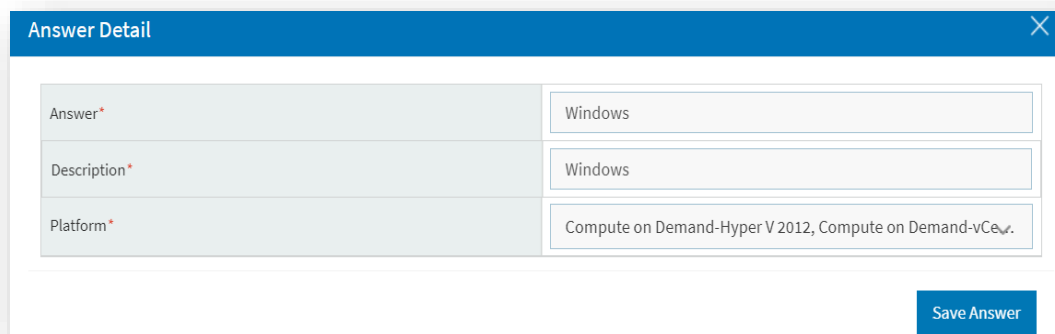


Figure 169 – Edit Answer

Figure 170 – Edit Answer (Cont.)

2. Modify/ Edit the answer and click **Save Answer**.
3. A success message box appears.

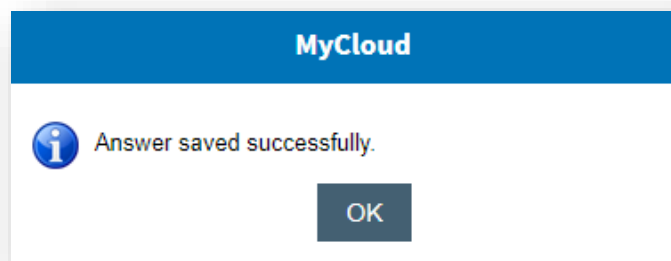


Figure 171 – Edit Answer Confirmation Message

3.3.3.3.6 Delete Answer

To delete an existing Answer, Provider user needs to follow the below steps:

1. Click Delete () against the Answer that are not required.
2. Click **OK** to confirm or **Cancel** to discard the change.

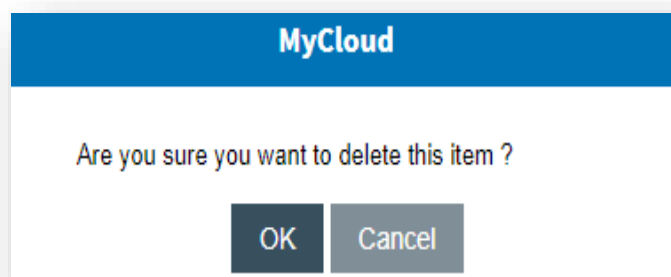


Figure 172 – Delete Answer Confirmation Message

3. A confirmation message pops up, Click OK.

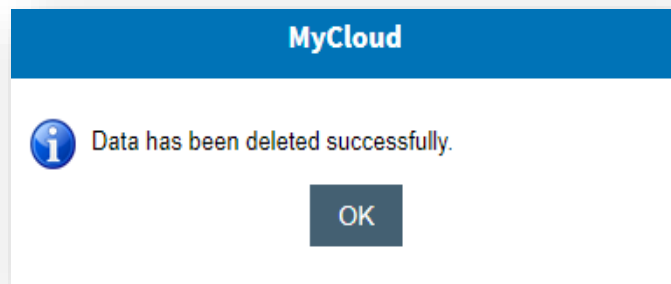


Figure 173 – Delete Answer Confirmation Message

3.3.3.3.7 Add Answer

Provider user needs to follow the below steps to add an answer to an existing Question:

1. Click Configure Answers (+) against the Question.

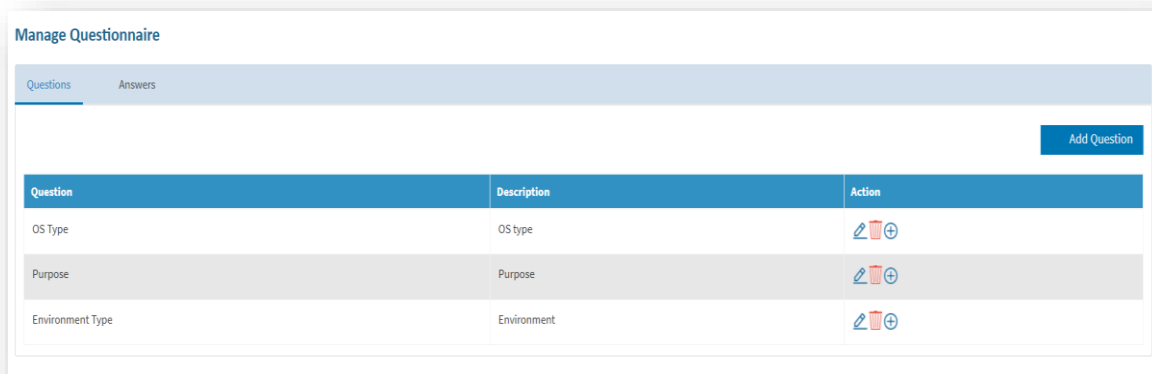


Figure 174 – Add Answer

2. Click Add Answer.
3. A pop up appears as shown below:

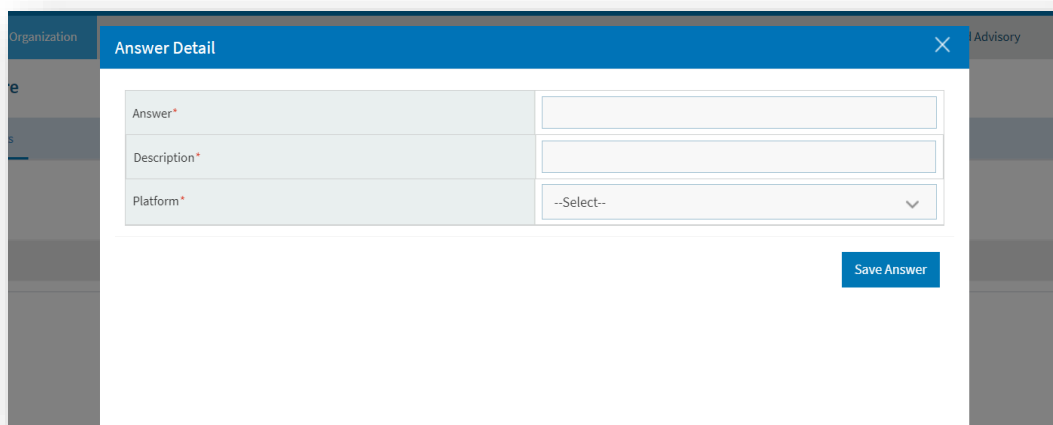


Figure 175 – Add Answer

4. Enter Answer and Description.
5. Select **Platform**.

6. Click Save Answer.
7. A success message box appears as below.

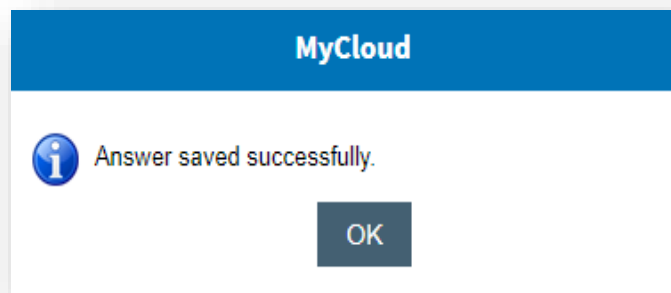


Figure 176 – Add Answer Confirmation Message

3.3.3.4 Allocate Resource to Organization

This section details out the specifics of allocating resources to an organization such as vCenter Cluster, Network, Public cloud subscription and Cisco Intersight.

1. On the main menu bar, click **Organization** and then click **Allocate Resource to Organization**.
2. The Allocate Resource to Organization screen appears as below:

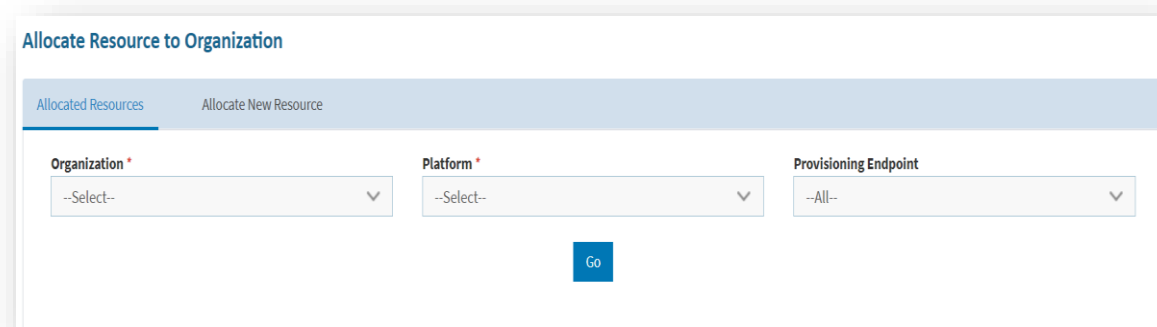


Figure 177 – Allocate Resource to Organization

Resource allocation to an organization is totally platform dependent.

3. Select Organization and Platform to allocate resources and then click Go.

Reset button is used to reset the selection made to allocate resources.

4. All the available Allocated Resources list down in the tabular view appears as below:

Allocate Resource to Organization

Allocated Resources Allocate New Resource

Organization *
 hclorg

Platform *
 Compute on Demand-vCenter

Provisioning Endpoint
 --All--

Go

Cluster Name	Resource Type	Platform	Provisioning Endpoint	Action
SA-Compute-Cluster	Cluster	Compute on Demand-vCenter	VcenterProd	

Figure 178 – Allocate Resource to Organization (Cont.)

3.3.3.4.1 Add Resource

To allocate new resource, Provider user needs to follow the below steps:

1. Click Allocate New Resource Tab.

Already allocated resources remain unavailable for re-allocation to another organization on the same platform.

2. An entity/Resources pane appears that allows provider to allocate resource to an organization.
3. Select **Organization**, **Platform** and *Provisioning Endpoint* to allocate resources and then click **Go**.

Allocate Resource to Organization

Allocated Resources Allocate New Resource

Organization *
 --Select--

Platform *
 --Select--

Provisioning Endpoint *
 --Select--

Go

Figure 179 – Allocate Resource to Organization (Cont.)

Allocate Resource to Organization

Allocated Resources Allocate New Resource

Organization*
Platform*
Provisioning Endpoint*

Cluster

☐	Cluster	Total CPU (GHz)	Total Memory (GB)
☐	SB-Compute-Cluster	331.20	2042.00
☐	SB-Management-Cluster	165.60	1021.99

Note: Allocated resources can not be modified.

Figure 180 – Allocate Resource to Organization (Cont.)

4. Select the **Cluster**

Cluster

☐	Cluster	Total CPU (GHz)	Total Memory (GB)
☒	SB-Compute-Cluster	331.20	2042.00
☐	SB-Management-Cluster	165.60	1021.99

Note: Allocated resources can not be modified.

Figure 181 – Allocate Resource to Organization (Cont.)

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

- Click **Save**.
- A success message box appears as below.

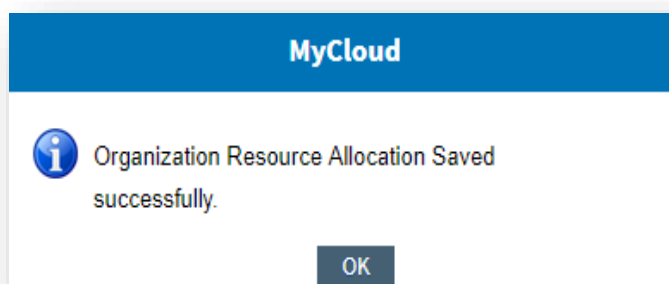


Figure 182 – Confirmation Message

A new resource is allocated to an organization, and it appears in the tabular view.

3.3.3.4.2 Delete Allocated Resource

To delete allocated resource, provider user needs to follow the below steps:

1. On the Allocated Resource pane, select the allocated resource that the provider wants to delete, and click Delete (🗑️).

Allocate Resource to Organization

Allocated Resources | Allocate New Resource

Organization *
hclorg

Platform *
Compute on Demand-vCenter

Provisioning Endpoint
--All--

Go

Cluster Name	Resource Type	Platform	Provisioning Endpoint	Action
SA-Compute-Cluster	Cluster	Compute on Demand-vCenter	VcenterProd	🗑️
SB-Compute-Cluster	Cluster	Compute on Demand-vCenter	vcenterDev	🗑️
SB-Compute-Cluster	Cluster	Compute on Demand-vCenter	TextCopuFuncanality	🗑️
SB-Compute-Cluster	Cluster	Compute on Demand-vCenter	testNavinVM	🗑️
SB-Management-Cluster	Cluster	Compute on Demand-vCenter	testNavinVM	🗑️
SB-Management-Cluster	Cluster	Compute on Demand-vCenter	TextCopuFuncanality	🗑️

Figure 183 – Delete Allocated Resource from Organization

If a resource is deleted from an organization, then it is available for allocation to another organization.

2. Click **OK**, in response to the confirmation message.

MyCloud

Are you sure to delete this record?

OK Cancel

Figure 184 – Delete Allocated Resource from Organization (Cont.)

3. A success message box appears.

MyCloud

 Organization Resource Deleted Successfully.

OK

Figure 185 – Delete Allocated Resource from Organization (Cont.)

3.3.3.5 Organization Network Assignment

This section details out how a Provider configures a network or interface for provisioning a VM on a respective platform, that is used for assign to VM while provisioning in an organization.

The following screenshots appear with reference to vCenter.

The IP range can be assigned to a provider for a specific network and the provider can allocate IPs to organizations.

1. On the main menu bar, click **Organization** and then click **Organization Network Assignment**.
2. The Organization Network Assignment pane appears as below:

The screenshot shows the 'Organization Network Assignment' pane. It contains four dropdown menus arranged horizontally: 'Organization' with the value 'HCLorg', 'Platform' with the value 'Cisco Intersight', 'Provisioning Endpoint' with the value 'cisco1', and 'Network Type' with the value 'Virtualization - Distributed Switch'. Below these dropdowns are two buttons: a blue 'Go' button and a grey 'Reset' button.

Figure 186 – Organization Network Assignment

This screenshot shows the 'Organization Network Assignment' pane with different selections. The 'Organization' dropdown is set to 'hclorg', 'Platform' is 'Cisco Intersight', 'Provisioning Endpoint' is 'TestSubhash', and 'Network Type' is 'VMware Distributed Switch'. The 'Go' and 'Reset' buttons are still present at the bottom.

Figure 187 – Organization Network Assignment (Cont.)

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

Table 27 – Organization Network Assignment

Field	Description
Organization	name of the organization (Business units/ divisions in organizations)
Platform	The name of the cloud service providers from the drop down
Provisioning Endpoint	The cloud endpoints that have been created in MyCloud
Cluster	Select the cluster accordingly
Network Type	It is the Network type applicable for Cisco Intersight, possible values could be Distributed Switch or Distributed Network

4. Select Organization and Platform.
5. Select Provisioning Endpoint.
6. Select **Cluster**.

7. Click **Go**.
8. All the available networks in a selected cluster get listed down in a tabular view. Provider allocates an IP from the available IP range to respective organization.

Organization Network Assignment

Organization* HCLorg Platform* Cisco Intersight Provisioning Endpoint* cisco1 Network Type* Virtualization - Distributed Network

Go **Reset**

Network

Network Name	Entity ID	MOID	Available IP	Assigned IP	Allocate IP	Action
DVP020-DR-NET	DNTW-9567AFA4-E8BB-49D9-BC17-16015DE736D7	62b02577736c5f2d357e09a6	0	1	0	

Save

Figure 188 – Organization Network Assignment (Cont.)

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

9. Click **Save**.

Organization Network Assignment

Organization* hclorg Platform* Compute on Demand-vCenter Provisioning Endpoint* vcenterDev Cluster* SB-Compute-Cluster

Go **Reset**

Network

Network Name	Entity ID	MOID	Available IP	Assigned IP	Allocate IP	Action
Dummy	NTW-17536FB1-8201-478C-92DA-882814EAD8D7		0	7	0	
SB-COMPUTE-VDS-Uplink	NTW-10A423DA-2F74-455E-9866-E3A6E4449BEA		0	1	0	
uvc-nsg140-myc-web-int	NTW-00E61BED-FA5F-4412-8D8F-45C58AA42C00		1	0	0	
uvc-nsg170-tfe-app-int	NTW-076012E6-D132-4B9D-BB27-568350A0690F		6	1	0	
uvc-nsg170-tfe-web-int	NTW-79235DBE-A4E3-45F7-9495-AB6F89DC4403		1	0	0	

Save

Figure 189 – Organization Network Assignment (Cont.)

10. Refer to the following table to understand the fields mentioned in the above screen:

Field	Description
Network name	Name of network
EntityId	EntityId of Network/Subnet
Available Ip	No of available Ips assigned to provider through provider network enablement
Assigned Ip	No of Ips assign to selected organization
Allocate Ip	Allocated Ips to selected organization

11. A success message box appears.

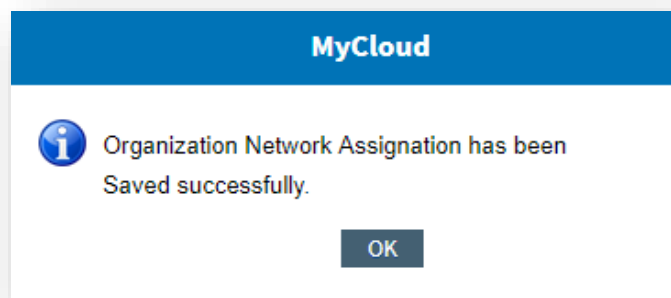


Figure 190 – Organization Network Assignment Confirmation (Cont.)

To delete the assigned IP(s), follow these steps:

1. Click on Delete Assigned IP icon (🗑️) under the Action column.
2. A confirmation message appears:

A screenshot of the 'Organization Network Assignment' form. At the top, there are four dropdown menus for 'Organization*' (HCLorg), 'Platform*' (Cisco Intersight), 'Provisioning Endpoint*' (cisco1), and 'Network Type*' (Virtualization - Distributed Network). Below these are 'Go' and 'Reset' buttons. The main section is titled 'Network' and contains a table with the following data:

Network Name	Entity ID	MOID	Available IP	Assigned IP	Allocate IP	Action
DVPG020-DR-NET	DNTW-9567AFA4-E8B8-49D9-BC17-16015DE736D7	62b02577736cf2d357e09a6	0	1	0	 

Below the table is a 'Save' button.

Figure 191 – Organization Network Assignment (Cont.)

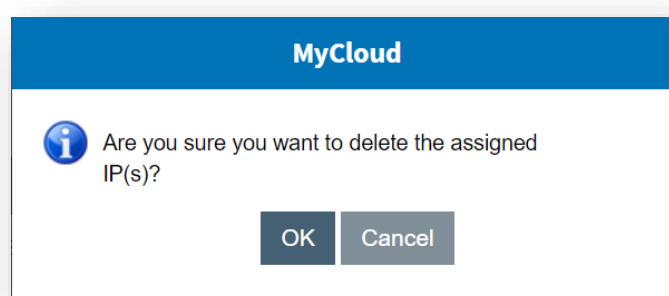


Figure 192 – Organization Network Assignment (Cont.)

3. Click **OK**. The following success message box appears:

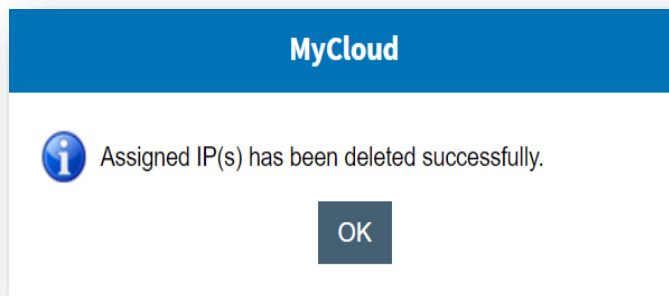


Figure 193 – Organization Network Assignment (Cont.)

4. To unassign the assigned IP(s), click on Unassigned IP icon () under the Action column.
5. The list of Assigned IPs is displayed as shown in the following image:

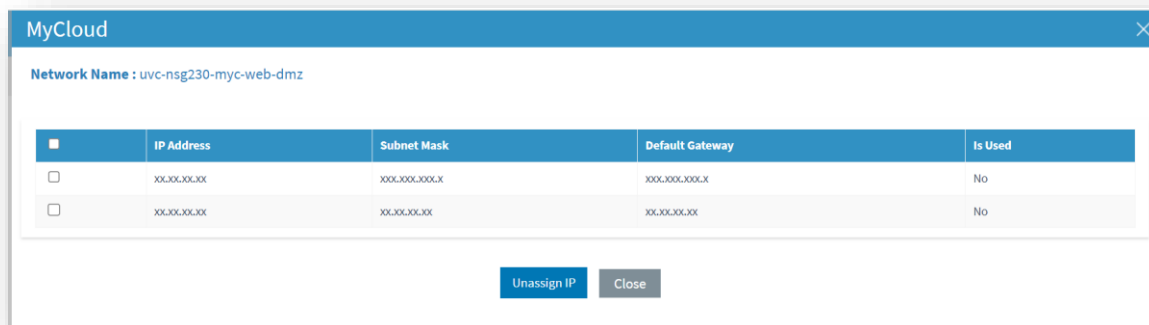


Figure 194 – Organization Network Assignment (Cont.)

6. Select the Ipaddress(es) to be unassigned.
7. Click on Unassign IP. The following confirmation message appears:

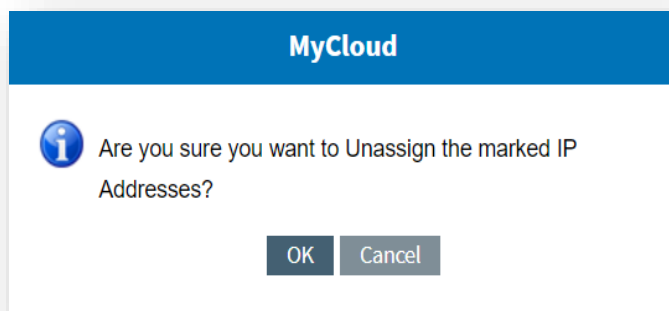


Figure 195 – Organization Network Assignment (Cont.)

8. Click **Ok**. A success message appears:

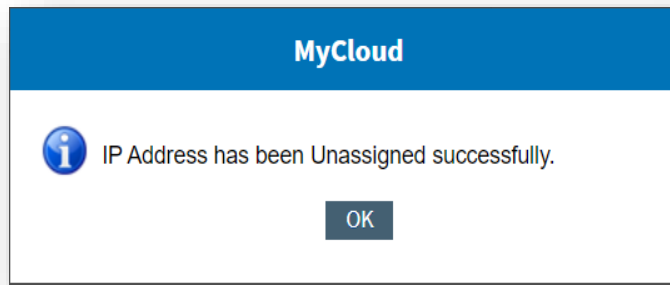


Figure 196 – Organization Network Assignment (Cont.)

3.3.3.5.1 Delete Assign Network

To un-assign IP addresses, provider user needs to follow the below steps:

1. On the Network pane, select IP addresses that provider wants to delete, and click Delete (🗑️).

Network Name	Entity ID	Available IP	Assigned IP	Allocate IP	Action
Dummy	NTW-17536FB1-8201-478C-92DA-882814EAD8D7	0	7	0	 
SB-COMPUTE-VDS-Uplink	NTW-10A423DA-2F74-455E-9866-E3A6E4449BEA	0	1	0	 

Figure 197 – Delete Assigned Network from Organization

2. The following success message appears:

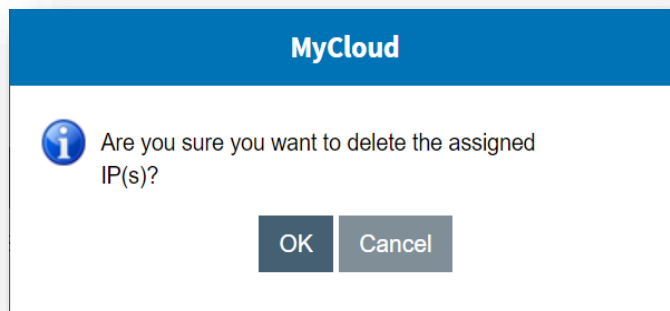


Figure 198 – Confirmation Message

3. Click **OK**. The following success message appears:

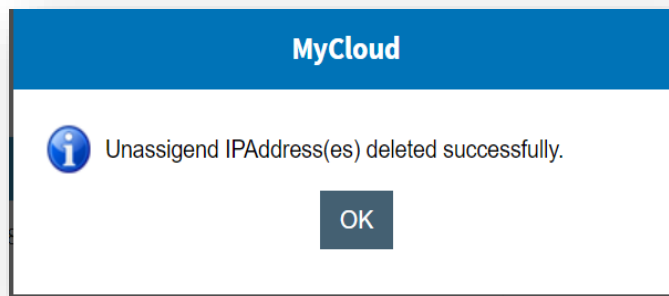


Figure 199 – Success Message

4. On the Network pane, select IP addresses that provider wants to delete, and click Unassigned IP (). All the available IPs get listed down in a tabular view.

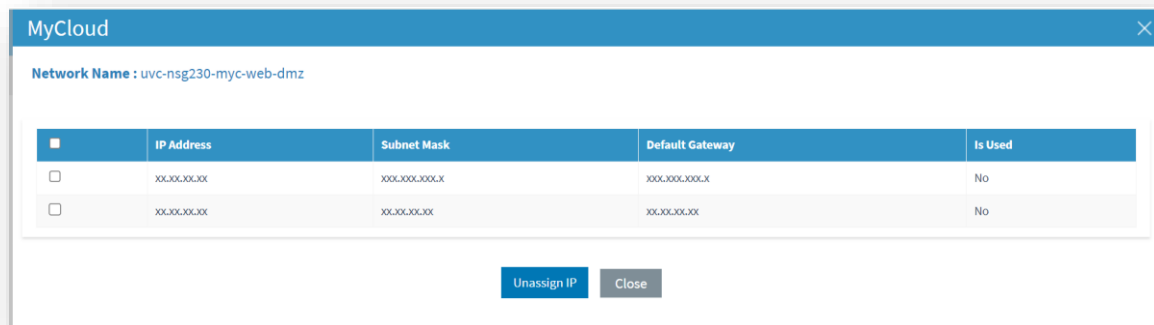


Figure 200 – Delete Assign Network from Organization

5. Select IP(s).
6. Click Unassigned IP.
7. A success message box appears.

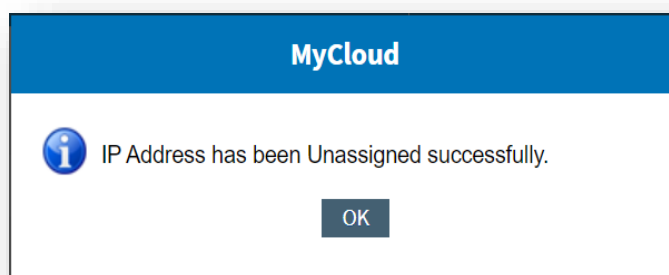


Figure 201 – Delete Network Confirmation Message

3.3.4 WorkFlow Management

This section explains the steps to create or manage custom images of public cloud (AWS and ARM) and Cisco Intersight to deploy IaaS and PaaS resources. Custom templates can be AWS CloudFormation Templates or ARM Templates or marketplace images that are created by technical leads/architects. For Private Cloud, provider can create custom Template to provision various objects.

3.3.4.1.1 Manage Cloud Template

1. On the main menu bar, click Workflow Management and then go to Manage Cloud Templates.
2. A screen appears where provider sees the following panes.
 - Manage Template
 - Create Template

3.3.4.1.2 Create Template

To create a custom image template, Provider needs ARM template or cloud formation template or AWS/Azure marketplace images.

1. On the Manage Cloud Template screen, click Create Template.
2. The **Create Template** pane appears as below.

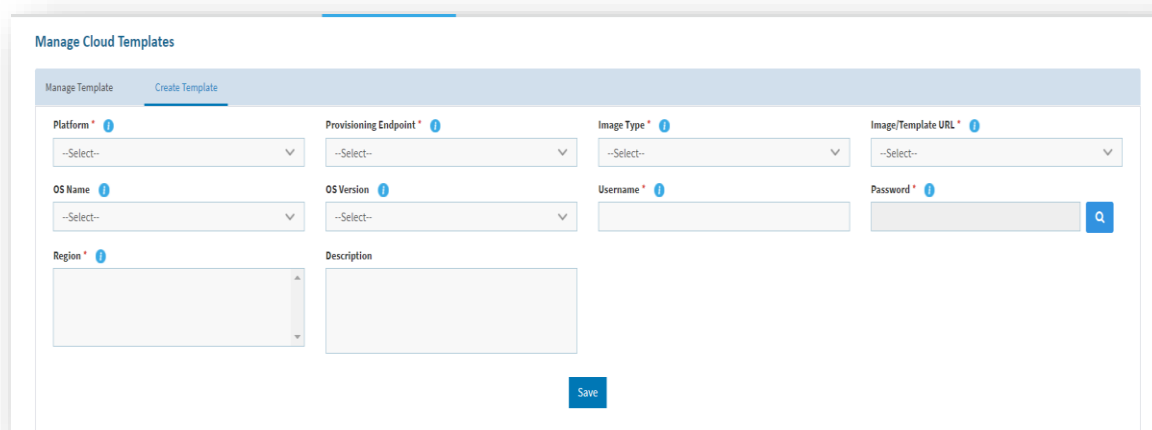


Figure 202 – Add Cloud Templates

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

Table 28 – Cloud Templates

Field	Description
Provisioning Endpoint	The Cloud endpoints that have been created in MyCloud
Platform	Name of the cloud service providers
OS Name	Name of OS (Operating system)
OS Version	Version of OS (Operating system)
Image Type	Select the image
Image/ Template URL	It is the folder path where templates reside
Region	The regions from where Public Cloud services are getting consumed
Description	Describe the templates or images
Machine Username	Local admin account/ machine username is required

4. Select the **Platform**.
5. Select the Provisioning Endpoint.

6. Select **OS name** and **OS Version**, if applicable.
7. Select the **Region**.
8. Enter Image/ Template **URL** and **Image**.
9. Enter Description.
10. Click **Save**.
11. When prompted to confirm, click **OK**.
12. A Success Message appears.



Figure 203 – Add Cloud Templates Confirmation Message

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

3.3.4.1.3 Edit Image Template

To edit a Public Cloud Template, Provider should follow the below steps:

The following screenshots appear for Azure:

1. On the Manage Cloud Templates pane, click Manage Template.
2. Select Platform and Provisioning Endpoint.
3. Click **Go**.

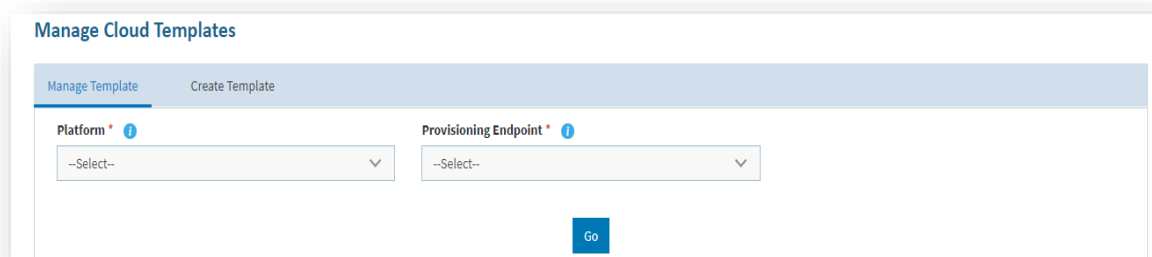


Figure 204 – Manage Cloud Template

4. Available custom images appear in a tabular view.
5. Click Edit (✎) against the template that needs to be edited.

The screenshot shows the 'Manage Template' interface. At the top, there are two tabs: 'Manage Template' (selected) and 'Create Template'. Below the tabs, there are two dropdown menus: 'Platform' (set to 'Compute on Demand-vCenter') and 'Provisioning Endpoint' (set to 'vCenterProvisioningProvider'). A 'Go' button is located below these dropdowns. Below the 'Go' button is a table with the following columns: 'Region', 'OS Version', 'Image/Template Name', and 'Action'.

Region	OS Version	Image/Template Name	Action
RegionProvider	Windows Server 2019 Datacenter Standard	lengthcheck1	[Edit] [Share] [Delete]
RegionProvider		RetestImportExportPublishAction	[Edit] [Share] [Delete]
RegionProvider		Sample	[Edit] [Share] [Delete]

At the bottom left, there is a legend: a green square for 'Active' and a red square for 'Inactive'.

Figure 205 – Manage Cloud Templates

- Modify the details as desired and click **Update**.

The screenshot shows the 'Manage Cloud Templates' form. At the top, there are two tabs: 'Manage Template' (selected) and 'Create Template'. Below the tabs, there are several fields and dropdown menus arranged in a grid:

- Platform**: Microsoft Azure
- Provisioning Endpoint**: AzureProvisioning
- Image Type**: Market Place
- Image/Template URL**: Image
- Image Name**: 2016-Datacenter
- Publisher**: MicrosoftWindowsServer
- Offer**: WindowsServer
- SKU**: 2016-Datacenter
- Price Category**: Windows Virtual Machines
- Edition**: Standard Edition
- OS Name**: Windows
- OS Version**: Windows Server 2016 Datacenter Edition
- Username**: mycloud
- Password**: [Empty field with a search icon]
- Region**: East US
- Description**: [Empty text area]

At the bottom right, there are two buttons: 'Update' (highlighted in blue) and 'Cancel'.

Figure 206 – Edit Cloud Template

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

Table 29 – Edit Cloud Template

Field	Description
Provisioning Endpoint	The cloud endpoints that have been created in MyCloud
Platform	Name of the cloud service providers
OS Name	Name of the OS (Operating system)
OS Version	Version of the OS (Operating system)
Image Type	Select the image
Image Name	Provide the image name
Storage Path	It is a path that contains the images
Storage Key	To access storage account, Azure provides access key
Image Resource Group	Resource Group where image is stored
Image/ Template URL	It is the folder path where templates reside
Region	The regions from where Public Cloud services are getting consumed
Machine Username	Local admin account/ machine username is required that have these templates

Field	Description
Machine Password	Local admin account/ machine password is required that have these templates

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

8. When prompted to confirm, click OK.
9. A success message appears.

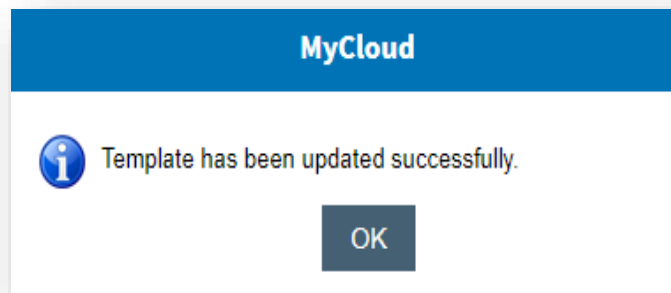


Figure 207 – Edit Cloud Template (Cont.)

3.3.4.1.4 Delete Cloud Templates

To delete cloud templates, Provider needs to follow the below steps:

1. On the Existing template pane, click Delete (🗑️).

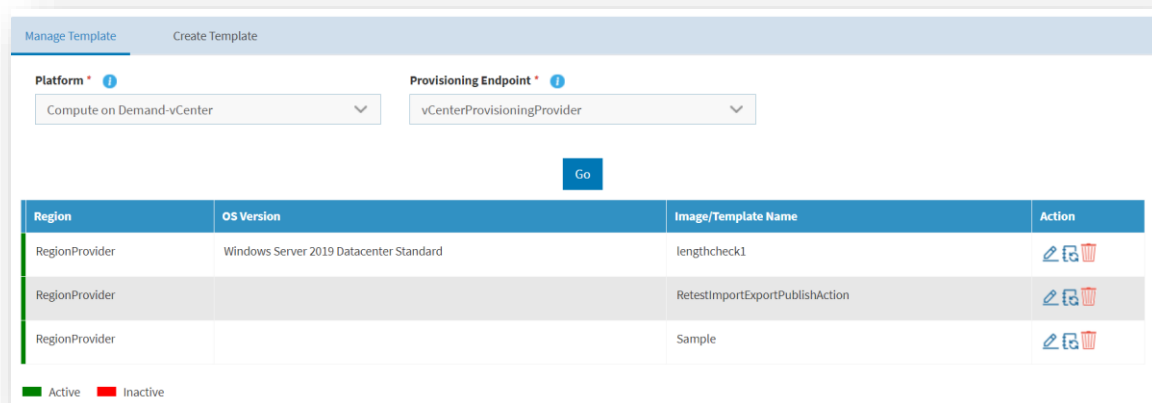


Figure 208 – Delete Cloud Template

Deletion of cloud template that is mapped to a catalog, is not possible at Provider's level.

2. When prompted to confirm, click **OK**.

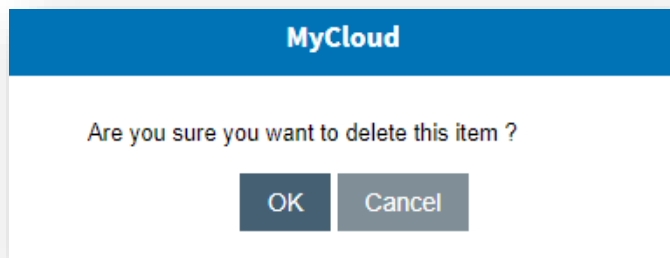


Figure 209 – Delete Cloud Template (Cont.)

3. A success message box appears.

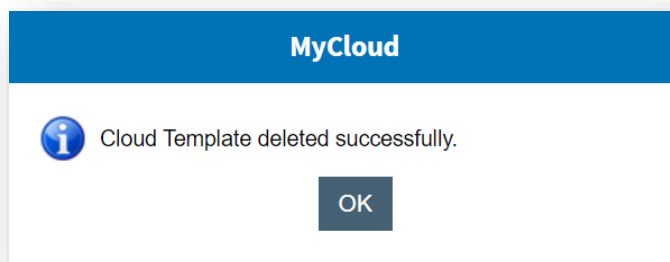


Figure 210 – Delete Cloud Template (Cont.)

3.3.4.1.5 Change Status of Template

1. Click Change Status () against the template to change its status.
2. A popup appears for confirmation as shown below:

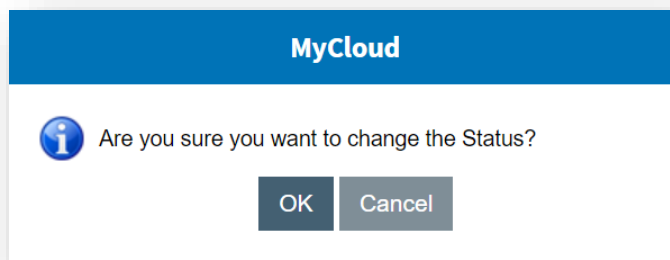


Figure 211 – Change Status of Template (Cont.)

3. Click **OK** to save the changes.
4. Click **Cancel** to discard the changes.
5. A success message box appears if the user selects OK.

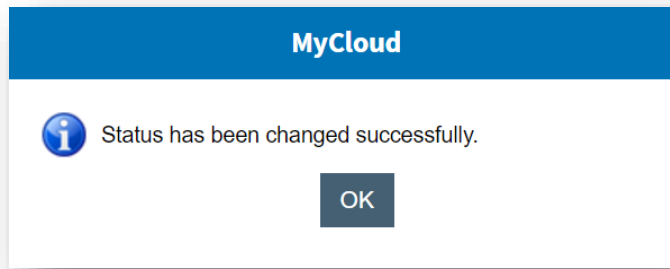


Figure 212 – Confirmation Message

3.3.4.2 Import Templates

This section explains the steps to manage templates of private cloud (VMware and SCVMM) by following the below steps:

1. On the main menu bar, click **Workflow Management** and then click **Manage Template**.
2. The following options will appear:
 - Import Templates
 - Edit Templates

3.3.4.2.1 Import Templates

To fetch templates from the Data Centre to MyCloud, provider needs to follow below steps:

1. On the Manage Template screen, click Import Templates.
2. The **Import Templates** pane appears as below.

 A screenshot of the "Import Templates" pane in the MyCloud interface. The pane has a title bar "Import Templates" and two tabs: "Import Templates" (active) and "Edit Templates". Below the tabs, there are three input fields: "Platform*" with a dropdown menu showing "--Select--", "Provisioning Endpoint*" with a dropdown menu showing "--Select--", and "Template Name" with an information icon. Below these fields is a blue "Go" button.

Figure 213 – Import Templates

3. Select Platform and Provisioning Endpoint.
4. Click **Go**.
5. The available templates list down in a tabular view. Select the Template and enter the **User Description** and Admin credentials i.e., the **Username** and **Password**.

Import Templates

Import Templates Edit Templates

Platform* Compute on Demand-vCenter Provisioning Endpoint* vCenterProvisioning Template Name ⓘ

Go

General Information					Admin Credentials		
Select	Template Name	OS Profile	Deployment Path	OS Name	User Description	User Name	Password
☐	packer-base-ubuntu-1804_v3			--Select--			
☐	s_hcl_mycloud_rh83_v1			--Select--			

Figure 214 – Import Template (Cont.)

Single Template or multiple Templates are fetched, which is based on Provider's discretion.

- Click **Import** on manage template screen.
- When prompted to confirm, click **OK**.

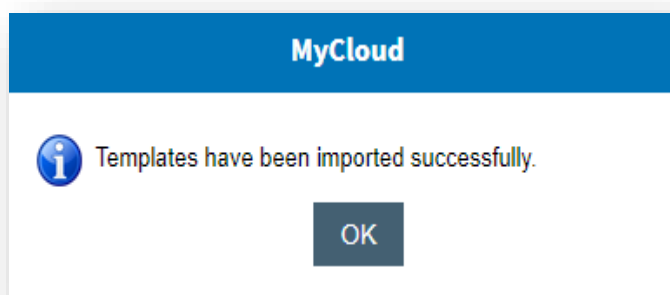


Figure 215 – Import Template (Cont.)

3.3.4.2.2 Edit Templates

To edit private cloud templates, provider needs to follow the below steps:

- On the Manage Template screen, click Edit Template.

Import Templates

Import Templates Edit Templates

Platform* --Select-- Provisioning Endpoint* --Select--

Go

Figure 216 – Edit Manage Template

- Select Platform and Provisioning Endpoint.
- Click **Go**.

- The Available templates appear in a tabular view that includes the general information and admin credentials to access them.
- Select the check box against the template to be edited.
- Modify the details as desired and click **Update**.

Import Templates

Platform * Compute on Demand-vCenter Provisioning Endpoint * vCenterProvisioningCyberark Go

General Information						Admin Credentials		
Select	Template Name	OS Profile	OS Name	Deployment Path	User Description	User Name	Password	Action
☐	mcl02k16CL	mycloud-win	Windows Serve	MyCloud/ContentLibrary/Test	admin	admin		☒
☐	Sample1	Test	Windows Serve			Sample		☒
☐	Test2	Test2	Windows Serve			Test2		☒
☐	Testing	Testing	Windows Serve			Testing		☒

Update

Figure 217 – Edit Template (Cont.)

- A success message box appears.

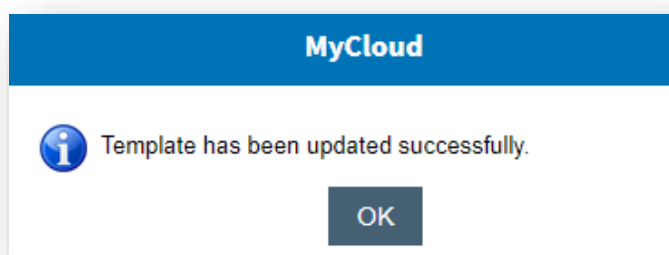


Figure 218 – Edit template (Cont.)

3.3.4.2.3 Delete Templates

To delete a template, Provider needs to follow the below steps:

- On the **Edit Template** pane, select the **Template Name** and click **Delete** ().

Import Templates

Platform * Provisioning Endpoint *

General Information						Admin Credentials		
Select	Template Name	OS Profile	OS Name	Deployment Path	User Description	User Name	Password	Action
☐	mcl2k19CL	mycloud-win	Windows Serve	MyCloud/ContentLibraryTest	admin	admin		Q Delete
☐	Sample1	Test	Windows Serve		Sample	Sample		Q Delete
☐	Test2	Test2	Windows Serve		Test2	Test2		Q Delete
☐	Testing	Testing	Windows Serve		Testing	Testing		Q Delete

Figure 219 – Delete template

- When prompted to confirm, click **OK**.

MyCloud

Are you sure to delete this record?

Figure 220 – Delete Template

3.3.4.3 Manage Approval Groups

Approval group is a set of users that a Provider configures to act on tasks related to workflow approval at the approval level.

On the main menu bar, click **Workflow Management** and then click **Manage Approval Group**.

Following options are available:

- Create Group
- Group Details

3.3.4.3.1 Create Group

To add approval groups in an organization, Provider needs to follow the below steps:

- Select Organization.
- Enter the Group Name and Group Description.
- The associated static groups appear in the Static Groups form.

Figure 221 – Add Approval Group

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

Table 30 – Approval Group

Field	Description
Organization	Name of the organization (Business units/ divisions in organizations)
Group Name	Name the group
Group Description	Details regarding the group (audience type, usage, exceptions and many more)
Static Groups	MyCloud has default System RBAC groups. user mapped with RBAC group gets automatically mapped with Approval group
Users	AD users are mapped with Approval group
Dynamic Groups	In case of dynamic decision (based on request), this type of group gets mapped with approval group

5. Select a **Static Group** from where provider should be able to add the approver.
6. Enter **User** and click **Search** to scale down the search for a particular user.
7. Enter the **Dynamic Group** that allows Provider to search the users based on predefined DB script.
8. Click **Add**.

Manage Approval Groups

Group Details **Create Group**

Organization * HCLorg **Group Name *** BA **Group Description**

Note: Approval group can be created from any of the following options.

Static Groups

- ☒ Business
- ☐ Delegate-RBACgroup
- ☐ IT Admin
- ☐ Kislay
- ☐ Organization Admin
- ☐ Requester
- ☐ SupersetMenuGroup
- ☐ Test

OR

Users

Search: re **Search**

- ☐ Abhishek Gaur (abhrequester@hcl.com)
- ☐ API_Requester1 (API_Requester1@hcl.com)
- ☐ HCL_Requester (hclrequester@hcl.com)
- ☐ kislay.requester@hcl.com (kislay.requester@hcl.com)
- ☐ kislayrequester@hcl.com (kislayrequester@hcl.com)
- ☐ Manish I Inwati (manishunrati@hcl.com)

OR

Dynamic Groups

- ☐ Dynamic Group Email
- ☐ Dynamic Group RBAC

Add **Cancel**

Figure 222 – Add Approval Group (Cont.)

It is necessary to add at least a static group or User to the approval Group. All the fields mark with asterisk (*) are mandatory.

9. A success message box appears.

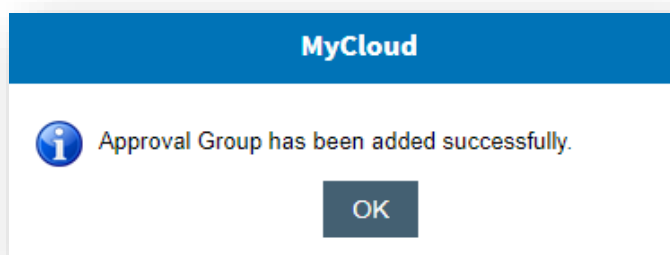


Figure 223 – Add Approval Group (Cont.)

10. The approval group is created and appears in the list of approval groups.

3.3.4.3.2 Group Details

This section lists out all the Approval groups that have been created by Provider User.

Manage Approval Groups

Group Details **Create Group**

Group Name	Group Description	Organization	Action
BA	BA Approval Group	HCLorg	
IT	IT Approval Group	HCLorg	
test	fafa	HCLorg	

Figure 224 – View Approval Group

It also comprises of following actions:

- **Edit** (✎): To modify the details of existing groups.
- **Delete** (🗑): To delete the groups.

3.3.4.3.3 Edit Approval Group

To Edit/ Modify the approval group of an organization, Provider user needs to follow the below steps:

1. On the Approval Group Management screen, click Edit (✎).
2. Modify the details as desired and click **Update**.

Figure 225 – Edit Approval Group (Cont.)

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

3. A success message box appears.

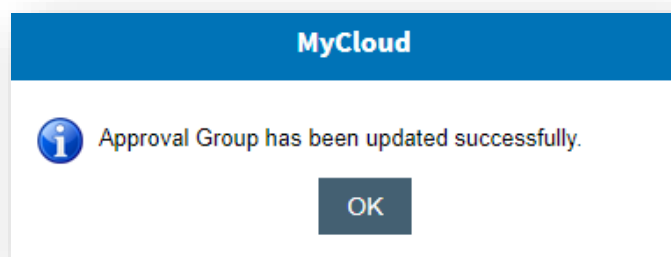


Figure 226 – Edit Approval Group (Cont.)

3.3.4.3.4 Delete Approval Group

To delete an approval group, Provider needs to follow the below steps:

1. On the Existing Group pane, click Delete (🗑).

Manage Approval Groups			
Group Details		Create Group	
Group Name	Group Description	Organization	Action
BA	BA Approval Group	HCLorg	 
IT	IT Approval Group	HCLorg	 
test	fafa	HCLorg	 

Figure 227 – Delete Approval Group

Deletion of an Approval Group that is mapped to a template, is not possible at Provider's level.

- When prompted to confirm, click **OK**.

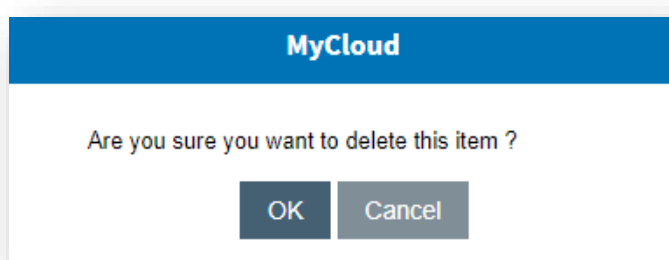
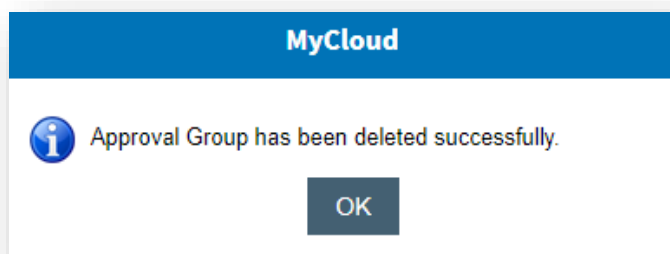


Figure 228 – Delete Approval Group (Cont.)

- A success message box appears.



O

Figure 229 – Delete Approval Group (Cont.)

3.3.4.4 Manage Approval Workflow

This module of MyCloud defines the policies that are applied on approval workflows, stages of each workflow, approver of each stage like Business, Finance, IT, and mail template.

Provider user creates an approval workflow template for each activity like placing a request for IaaS/PaaS services, decommissioning, lease extension, customization of resources and others, those are further used in process workflow section.

- On the main menu bar, click Workflow Management and then click Approval Workflow Management.
- This section has following options:
 - Add Template
 - View Template

3.3.4.4.1 Add Template

To create workflow template for an organization, Provider user needs to follow the below steps:

1. On the Manage Approval Workflow screen, click Add Template.

Event	Mail Template	View	CC to Responder	CC Group
Submit	--Select--	View Email Template...	☐	--Select--
Pending Approval	--Select--	View Email Template...	☐	--Select--
Approved	--Select--	View Email Template...	☐	--Select--
ReferBack	--Select--	View Email Template...	☐	--Select--
Rejected	--Select--	View Email Template...	☐	--Select--
User Cancelled	--Select--	View Email Template...	☐	--Select--

Figure 230 – Manage Template

2. The **Manage Approval Template** pane is further divided into following sub-sections:
3. **Manage Approval Workflow Template**: It is used to create the template.
 - Select Organization.
 - Enter Template Name.

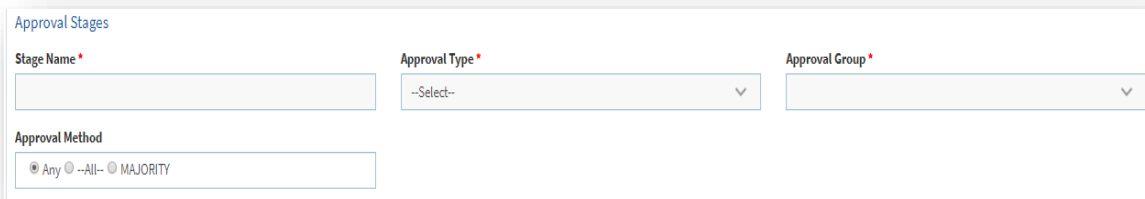
Organization *	Template Name *
--Select--	

Figure 231 – Manage Approval Workflow Template

4. **Approval Stage**: It defines the approval stage for created template.
 - Enter Stage Name.
 - Select Approval Type and Approval Group.
 - Select Approval method.

Approval, again is categorized into three categories:

 - **ANY**, where any member of an approval group approves the selected stage.
 - **ALL**, where all members of an approval group need to approve the selected stage.
 - **MAJORITY**, where more than 50% of members of approval group need to approve the selected stage.



Approval Stages

Stage Name *

Approval Type *

Approval Group *

Approval Method

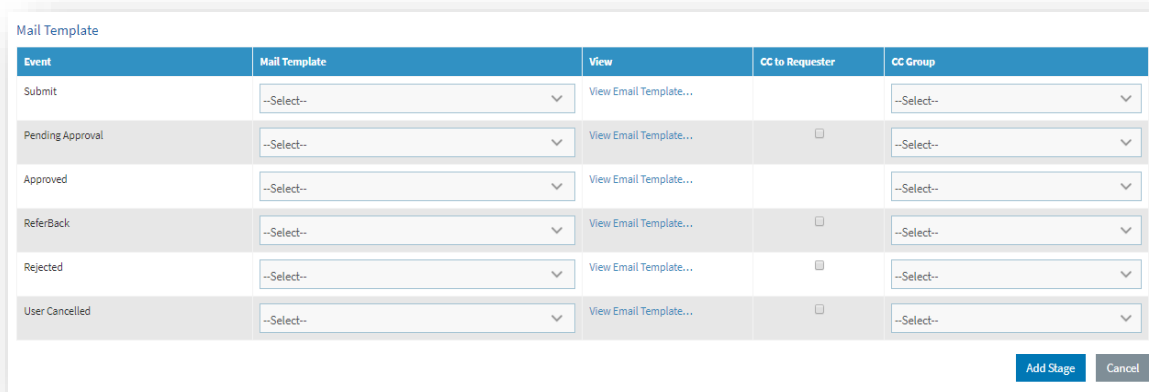
☒ Any ☐ All ☐ MAJORITY

Figure 232 – Approval Stages

5. **Mail Template:** It specifies the details for sending mails related to created template.

- Select **Mail Template** for each event.
- Click View Email Template... link to view the Mail Template.
- Select the users from the dropdown (**CC to requester**) to add in CC.
- Select to whom a user wants to send a mail (**CC group**) whenever a particular event occurs.
- To add stage to a template, click **Add Stage** button.

Provider adds multiple stages to a template by using Add Stage button. All the fields marked with asterisk (*) are mandatory.



Event	Mail Template	View	CC to Requester	CC Group
Submit	--Select--	View Email Template...		--Select--
Pending Approval	--Select--	View Email Template...	☐	--Select--
Approved	--Select--	View Email Template...		--Select--
ReferBack	--Select--	View Email Template...	☐	--Select--
Rejected	--Select--	View Email Template...	☐	--Select--
User Cancelled	--Select--	View Email Template...	☐	--Select--

Add Stage Cancel

Figure 233 – Mail Template

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



Figure 234 – Confirmation Message

8. The new template is created and appears under View Templates screen.

3.3.4.4.2 View Template

This section lists out all the workflow templates that have been created by Provider user.

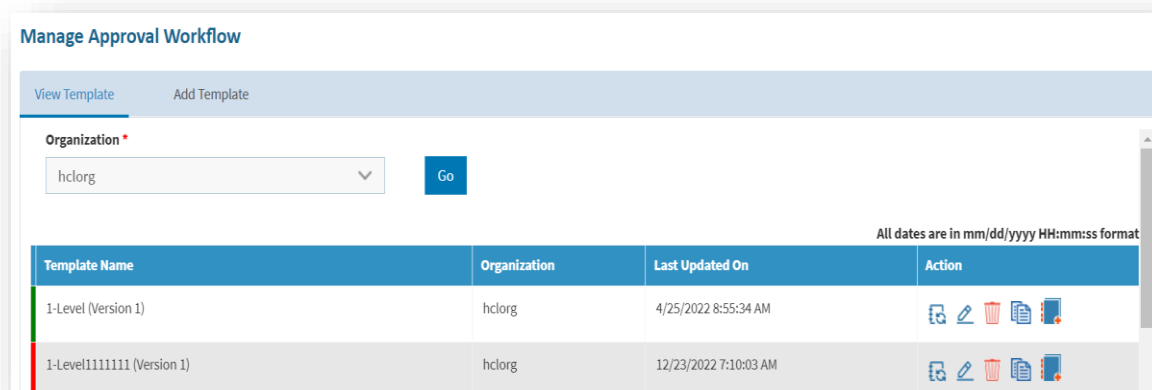


Figure 235 – View Template

It also comprises of following actions:

- **Change Status** (): Change the status of existing template
- **Edit** (): Modify the details of existing template
- **Delete** (): Delete the template
- **Copy Template** (): Copy the template
- **New Version** (): New Version of existing template

3.3.4.4.3 Edit Template

To edit/ modify workflow template, Provider user needs to follow the below steps:

1. On the Manage Approval Workflow screen, click View Template.
2. Click Edit () against the template to be edited. The pre-populated details are displayed in **Add Template** tab.
3. Modify the details as desired and click **Update**. Click **Cancel** to discard all changes.

Manage Approval Workflow

View Template | Add Template

Organization * | Template Name *

Manage Stages

Stage Name	Approval Type	Approval Group	Approval Method	Sequence	Move Stage	Action
BA	Business	BA	Any	1	↑↓	✎

Approval Stages

Stage Name * | Approval Type * | Approval Group *

Approval Method

Any | Job | MAJORITY

Mail Template

Email	Mail Template	View	CC to Requester	CC Group
Submit	--Select--	View Email Template...	☐	--Select--
Pending Approval	--Select--	View Email Template...	☐	--Select--
Approved	--Select--	View Email Template...	☐	--Select--
Refer Back	--Select--	View Email Template...	☐	--Select--
Rejected	--Select--	View Email Template...	☐	--Select--
User Cancelled	--Select--	View Email Template...	☐	--Select--

Update | Cancel | Add Stage | Cancel

Figure 236 – Edit Manage Template (Cont.)

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

4. A success message box appears.

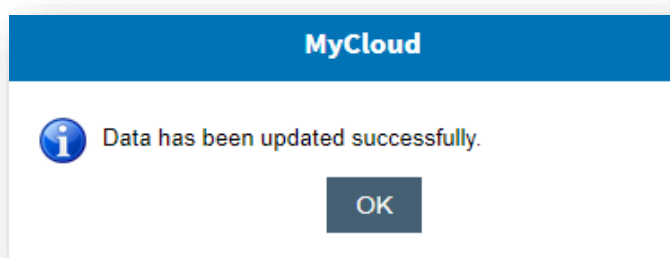


Figure 237 – Confirmation Message

3.3.4.4.4 Delete Template

To delete a template, Provider user needs to follow the below steps:

1. On the **View Template** pane, click **Delete** (🗑).

Manage Approval Workflow

View Template | Add Template

Template Name	Organization	Last Updated On	Action
1-Level (Version 1)	hclorg	4/25/2022 8:55:34 AM	✎ 🗑 📄

Figure 238 – Approval Workflow Delete Template

2. When prompted to confirm, click **OK**.

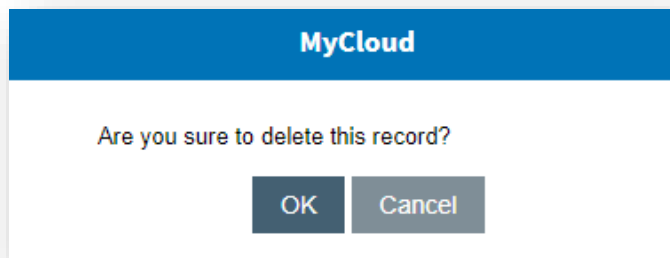


Figure 239 – Delete Template (Cont.)

3. A success message box appears.

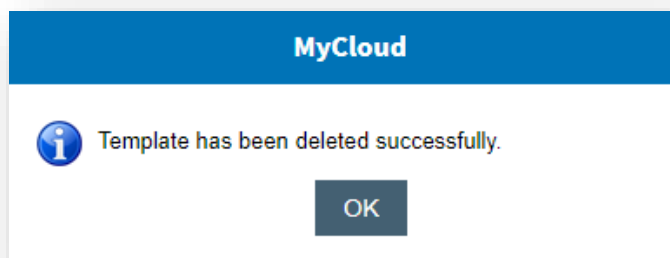


Figure 240 – Delete Template (Cont.)

3.3.4.5 Manage Approval Rules Configuration

Provider user can configure rules for Dynamic and Workflow approvals. In case we have multiple approvals in place and based on certain scenarios, Provider user can create rules and apply them using this template.

1. On the main menu bar, click Workflow Management and then click Manage Approval Rules Configuration.
2. This section has following options:
 - View Rule
 - Add Rule

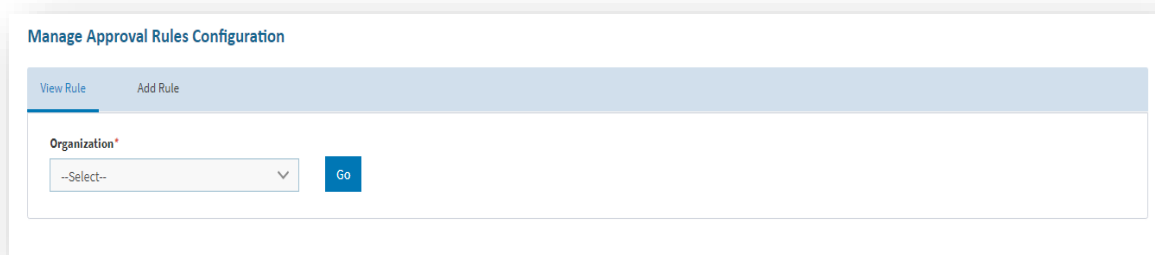


Figure 241 – Manage Approval Rules Configuration

In MyCloud, Provider User can create Dynamic as well as Static Approval through Approval Workflow screens.

3.3.4.5.1 Add Rule

Provider User can create Rules to manage the Approval Workflow cycle in MyCloud.

Manage Approval Rules Configuration

View Rule **Add Rule**

Organization* Rule Name* Rule Description* **Add**

Figure 242 – Add Rule

1. Select Organization.
2. Enter Rule Name, Rule Description.
3. Click **Add**.



Figure 243 – Add Rule (Cont.)

3.3.4.5.2 View Rule

Provider User can View the Rule details in this screen.

Manage Approval Rules Configuration

View Rule **Add Rule**

Organization* **Go**

Figure 244 – View Rule

Manage Approval Rules Configuration

View Rule **Add Rule**

Organization* **Go**

Rule Name	Rule Description	Action
a	a	
Aa	aa	

Figure 245 – Rule Detail

Provider User can Manage the configured Rules through following actions.

- **Edit** (✎): Edit/ modify existing rule details in an organization.
- **Delete** (🗑): Delete existing rule details in an organization.
- **Filter Rule** (🔍): Configure existing rule details in an organization.

3.3.4.5.3 Edit Rule:

Through Edit Action (✎), Provider User can edit/ modify the existing rules.

1. Click Edit Action (✎).
2. The provider user will be redirected to **Add Rule** screen as shown in below figure.

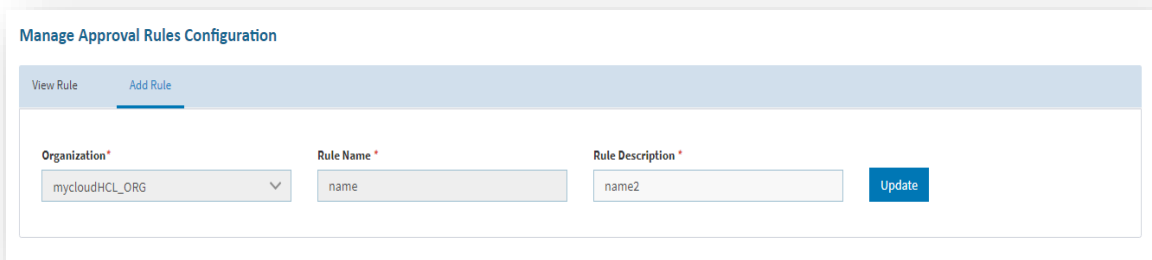


Figure 246 – Edit Rule Detail

3. Make changes in the **Rule Description**.
4. Click **Update**.
5. A Success Message box appears as below:



Figure 247 – Edit Rule Detail (Cont.)

3.3.4.5.4 Delete Rule

1. To delete rules, Provider user needs to click Delete Action (🗑) against a specific rule that are being listed.
2. A Confirmation Message appears.

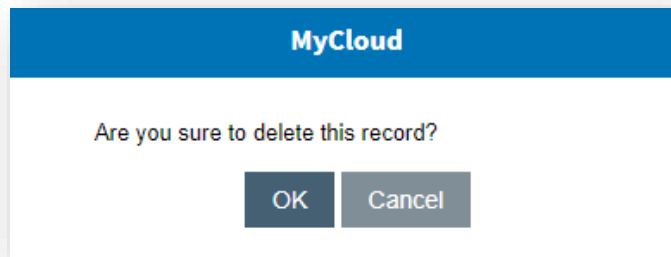


Figure 248 – Delete Rule Detail (Cont.)

3. Click **OK**.

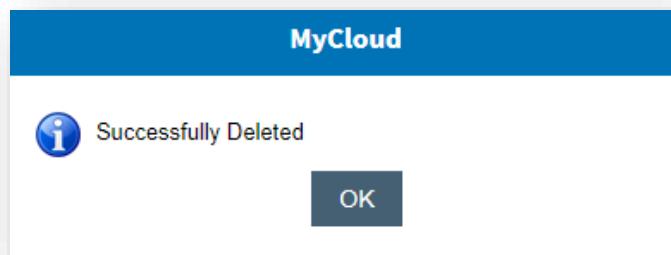


Figure 249 – Delete Rule Detail (Cont.)

3.3.4.5.5 Filter Rule

1. To add any rule condition within a rule, Provider user needs to click Filter Action () against a specific rule that are being listed.

 A screenshot of a 'Rule Configuration' dialog box. The title bar is blue with the text 'Rule Configuration' and a close button (X). The main content area is white. At the top, it says 'Rule Name : Dummy Rule'. Below this is a table with five columns: 'Key Name', 'Operator', 'Value', 'Template', and 'Clause'. Each column has a corresponding input field or dropdown menu. The 'Operator' dropdown is set to 'EQUAL'. Below the table, there is a note: 'NOTE: Key must be present in UI'. At the bottom right, there is a 'Proceed' button.

Key Name *	Operator *	Value *	Template *	Clause *
	EQUAL ▼		--Select-- ▼	--Select-- ▼

NOTE: Key must be present in UI

Proceed

Figure 250 – Filter Rule Configuration

2. Enter **Key Name**, **Value**. (Key must be present in Dynamic UI)
3. Select Operator, Template and Clause.
4. Click **Proceed**.
5. A Success Message box appears as below.



Figure 251 – Filter Rule Configuration

3.3.4.6 Manage Email Template

This section explains how provider user adds Email Template for sending notifications on different events triggered at the time of the request. By default, when a new organization is created, default Email Templates are created that gets modified by a user at any point of time.

1. Select **Manage Email Template** under **Workflow Management**. It shows the following options:
 - Create Email Template
 - Manage Email Template

3.3.4.6.1 Create Email Template

To add email template, Provider user needs to follow the below steps:

 A screenshot of the 'Manage Email Template' form. The form has a blue header with the text 'Manage Email Template' and a sub-header 'Create Email Template'. Below the header, there are five input fields: 'Template Name *', 'Description *', 'Sender Email ID *', 'Organization *' (a dropdown menu), and 'Event Type *' (a dropdown menu). Below these fields, there is a text prompt: 'Use below keywords in your email template using drag & drop.' followed by a table of keywords. The table has two columns: 'Name' and 'Description'. The keywords are: #APPDD (Approval History Details), #FGEN (Failed Request Error Details), #FIMD (Final Intimation Details), #ODET1 (Request Order Details), and #OGEN1 (Request General Details). To the right of the table, there are two text areas: 'Subject *' and 'Body *'. The 'Body *' text area has a rich text editor toolbar with options for Font, Formatting, Font size, Bold, Italic, Underline, Text color, Background color, Bulleted list, Numbered list, Indent, Outdent, Undo, Redo, Link, Unlink, Image, and Code.

Figure 252 – Add Template

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

Table 31 – Add Template

Field	Description
Template Name	Name the email template

Description	Describe the email template and its usage
Sender Email ID	Mail id that triggers the email template
Organization	Name of the organization (Business units/ divisions in organizations)
Event Type	Type of event that will trigger the mail

1. Enter Template Name & Description.
2. Enter Sender Email ID.
3. Select Organization.
4. Select **Event**. Event is Pending Approval, Submit, Rejected etc.
5. All the keywords that are used in the body are listed on the left side. User selects the Subject and add **Additional Text** in body. Text Body gets formatted.
6. User needs to add **Signature**.
7. Click **Save**.

The screenshot shows a form with a 'Signature' field, which is currently empty. Below the field are two buttons: 'Save' and 'Cancel'.

Figure 253 – Add Template (Cont.)

8. Below screen appears, click **Save**.

The screenshot shows the 'Add Template' form with the following details:

- Left Panel (Keywords):** A table with two columns: 'Name' and 'Description'.

Name	Description
#APFOD	Approval History Details
#FGEN	Failed Request Error Details
#FIMD	Final Intimation Details.
#ODET1	Request Order Details
#OGEN1	Request General Details
#WEBURL	Website URL
- Subject Field:** Contains the text 'Request ID: #Request ID - VM Provision Successfully'.
- Body Field:** Contains the text 'Hi, Your Request has been provisioned Successfully. Please find the configuration details below: #OGEN1 #ODET1'. It includes a rich text editor toolbar with options for font, formatting, font size, bold, italic, underline, text color, background color, bulleted list, numbered list, link, unlink, and code.
- Signature Field:** Contains the text 'MyCloud Portal Admin
#WEBURL'.
- Buttons:** 'Save' and 'Cancel' buttons are at the bottom.

Figure 254 – Add Template (Cont.)

9. A success message box appears.



Figure 255 – Confirmation Message

10. Click **OK**.

11. User gets redirected to the Manage Email Template screen after creation of email template.

3.3.4.6.2 Manage Email Template

This section lists out all the email templates that have been created by Provider User.

It also comprises of following action:

- **Edit** (✎): To modify the details of existing email templates

3.3.4.6.3 Edit Email Template

To edit/ modify the existing Email Template, Provider User needs to follow the below steps:

1. Click on Edit (✎) under Action.

Manage Email Template

Manage Email Template

Create Email Template

Organization

--All--

Go

Organization	Template Name	Description	Subject	Body	Action
SonalNewOrg	MyCloudPasswordChangedNotification	MyCloudPasswordChangedNotification	Password Changed Notification	Dear User, Your Password for login into MyCloud has been changed by MyCloud admin. Please use below new credentials to login: #USRLOGIN Please reset your password on first login.	✎ 🗑
SonalNewOrg	MyCloud User Registration	MyCloud User Registration Email	User Registration Notification	Dear User, You are getting this mail because you have been onboarded to MyCloud portal as a user. #USRLOGIN Please reset your password on first login.	✎ 🗑
SonalNewOrg	Request_HCL Tech - Task/Operation Review	Task/Operation Review	Request ID:#Request ID - New Task Created	Hi, New Task has been created with the following configuration. #OGEN1 #RTAS	✎ 🗑
SonalNewOrg	Request_HCL Tech - New Request	New Request	Request ID:#Request ID - Request Created	Hi, New request has been created with the following configuration. #OGEN1 #ODET1 #APDD	✎ 🗑
SonalNewOrg	Decommission Reminder	Decommission Reminder	Decommission Reminder	Hi, This is to inform you, your machine is going to decommission soon. To extend the schedule decommission date please raise a request for decommission date extension using MyCloud portal. #NTYDCOM	✎ 🗑
SonalNewOrg	Approval_HCL Tech - Request Successful	Request Successful	Request ID:#Request ID - Request Successful	Hi, Your Request has been successfully provisioned. Please find the configuration details below: #OGEN1 #ODET1	✎ 🗑
SonalNewOrg	Approval_HCL Tech - Failed Request	Failed Request	Request ID:#Request ID - Failed Request	Hi, Your request with the following configuration. #FIMD Machine provisioning failed because of the following reason. #FGEN	✎ 🗑
SonalNewOrg	Approval_HCL Tech - Pending IT	Pending for IT Verification	Request ID:#Request ID -	Hi, Your request has been created with following configuration and is awaiting for your	✎ 🗑

Figure 256 – Edit Email Template

2. User modifies the details as required.

Manage Email Template

Manage Email Template

Add/Edit Template

Template Name *

Test_Email

Description *

Test_Email

Sender Email ID *

test@test.com

Organization *

Test Organization

Event Type *

Pending Approval

Use below keywords in your email template using drag & drop.

Name	Description
#APPD	Request Approval Details
#SEN	Provision VM Details
#FIND	Provision VM Details
#ODET1	Request Order Details
#ODEN1	Request General Details

Subject *

Pending Approval - New VM[[a](#)] - Request ID#Request ID

Body *

Font Formatting Font size B I U A                             

Figure 257 – Edit Template (cont.)

3. Click **Save**.
4. A success message box appears.



Figure 258 – Confirmation Message

3.3.4.7 Manage UI Template

This section explains the steps to create and configure the UI template to capture information and execute the published service catalog through MyCloud.

1. On the main menu bar, click **Workflow Management** and then click **Manage UI Template**.
2. The section has following options:
 - Create UI Template
 - View UI Template
 - Import UI Template

3.3.4.7.1 Create UI Template

To create an UI template in a platform, Provider needs to follow the below steps:

1. On the Manage UI Template screen, click Create UI Template.

The screenshot shows the 'Manage UI Template' interface with the 'Create UI Template' tab selected. The form contains the following fields:

- Organization ***: A dropdown menu with '--Select--' as the current selection.
- Platform ***: A dropdown menu with '--Select--' as the current selection.
- Template Name ***: A text input field.
- Template Description**: A text input field.
- Number of Tabs ***: A dropdown menu with '--Select--' as the current selection.
- Approval Type ***: A dropdown menu with '--Select--' as the current selection.
- Request Item Mode**: A dropdown menu with 'Multiple Item View' as the current selection and an information icon.
- Go**: A blue button to submit the form.

Figure 259 – Create UI Template

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

Table 32 – UI Template Fields

Fields	Description
Organization	Name of the organization (Business units/ divisions in organizations)
Platform	Name of the cloud service providers
Template Name	Name the template
Template Description	Provide the description of the template and its usage
Number of Tabs	Number of tabs that needs to be visible in the UI
Approval Types	Approval Types needs to be aligned
Request Item Mode	Displays the list which contains; Single Item Mode and Multiple Item Mode

3. Select Platform and then enter the Template Name and Description.
4. Select the required **No. of Tabs**.
5. Select Organization and Approval Types.
6. Select Request Item Mode.
7. Click **Go**.

Post the above steps, a sub-pane gets populated which includes Controls on left navigation column and Tabs on the right navigation column.

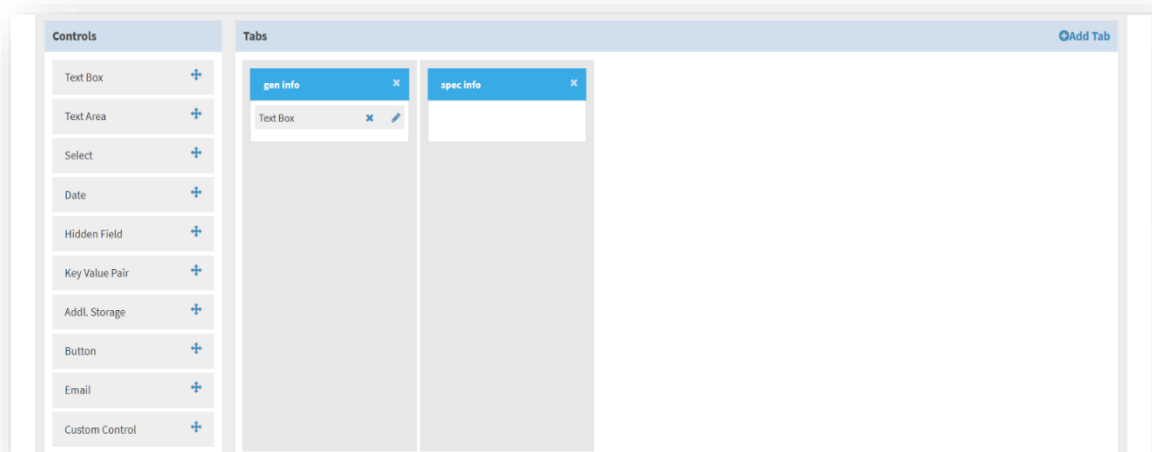


Figure 260 – Controls Left & Right Navigation Options

8. Fill the property in individual controls by clicking Edit (✎).
9. Provider defines the properties for the selected controls.

Figure 261 – Fill the Property

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

Table 33 – UI Template Property

Fields	Description
Unique ID	This is a unique identifier for each control. The existing id is not possible to get assigned to any other control on a form. Some of the system specific id (i.e. tags, additional storage, subnet) can't be chosen as an id of a control.
Display Name	Name of the control on screen

Fields	Description
Visibility	Show/hide control on the screen. By default, it is set to true
Events	Define the event for a control. Multiple events can be separated by comma (,)
Tooltip	Display the note as tooltip when hover on the control
Description	Provide the details about the control
Default Value	Pre-filled default text/selected value of the control
Placeholder Text	An information as watermark within the control
Control Value can be override by Technical	This contains two values, true and false. By Default, it is false, and it means that the technical user cannot override. When it is mark as true, then technical role user can change the value of the control
Validation	To enable/disable validation for a control. By default, it is false. It means no validation on control.
Validators	This contains available validators list. This is multi selection list and can be selected multiple validators for a control
Validation Message	To show the validation message for a control. In case of multiple validators, multiple validation messages can be separated by double pipe ()
Read only	Make control as read-only
Text mode	Define the control length so that the user cannot type more than defined length words inside the control
Maximum Length	Define the control mode like textbox/password
CSS Class	Define the prebuild CSS classes on the control for designing purpose
Help Text	Help text for a control, once there is value in this property, a control will appear on screen with information icon and the help text will be visible on hover on the information icon
Required in Email	Enable/disable control availability for email.
Email Order	Define the sequence number on email
Cost Applicable	Define the cost as control

11. Click **Submit** to add the property.

Added text boxes get deleted by clicking  on individual tabs and all the fields marked with asterisk (*) are mandatory.

12. The new UI Template is created.

3.3.4.7.2 View UI Template

Through this section, provider user edits the templates.

1. Click View UI Template.
2. Select **Platform**, and then click **Go**.

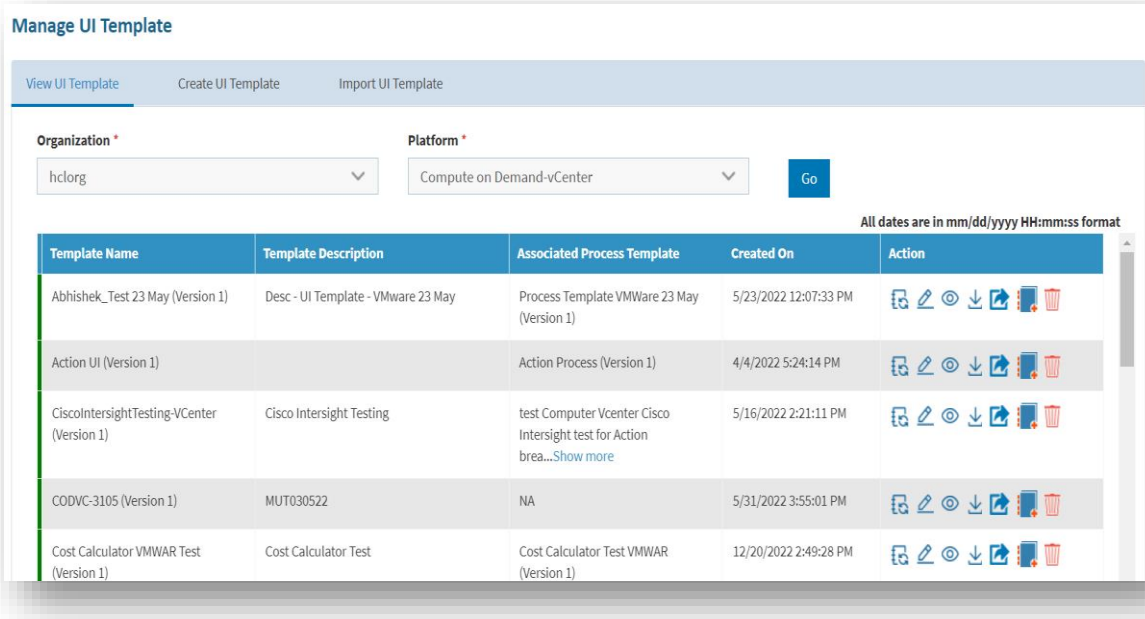


Figure 262 – View Template (Cont.)

- Available templates list down in tabular view.
- Following are the actions that are available:
 - Change Status** (🔍): To change the status of existing UI Templates
 - Edit** (✎): To modify the details of existing UI Templates
 - View** (👁): To view the details of existing UI Templates
 - Download JSON** (⬇️): This option helps the provider user to download Request JSON for MyCloud Request API consumption.
 - Export JSON** (📤): This option is used to download JSON of UI Template. The same is used to import while migrating from QA to Production environment.
 - New Version** (📄+): To create a new Version of existing UI Templates

3.3.4.7.3 Change Status of Template

- Click Change Status (🔍) against the template to change its status.
- A popup appears for confirmation as shown below:

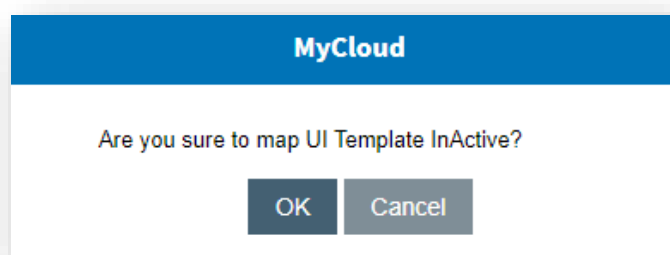


Figure 263 – View Template (Cont.)

3. Click **OK** to save the changes. Click **Cancel** to discard the changes.
4. A success message box appears if the user selects OK.

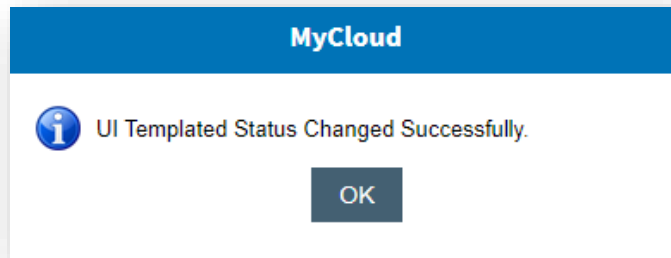


Figure 264 – Confirmation Message

3.3.4.7.4 Edit Template

1. Click Edit (✎) against the template to edit.

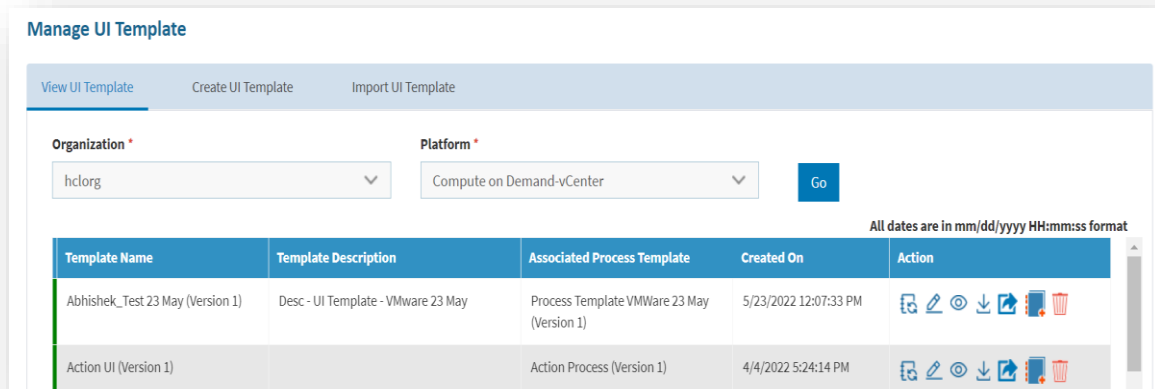


Figure 265 – Edit Template (Cont.)

2. This re-directs the provider to **Create UI Template** screen as shown in Figure 259 – Create UI Template.
3. Modify the details as desired and click **Update**.

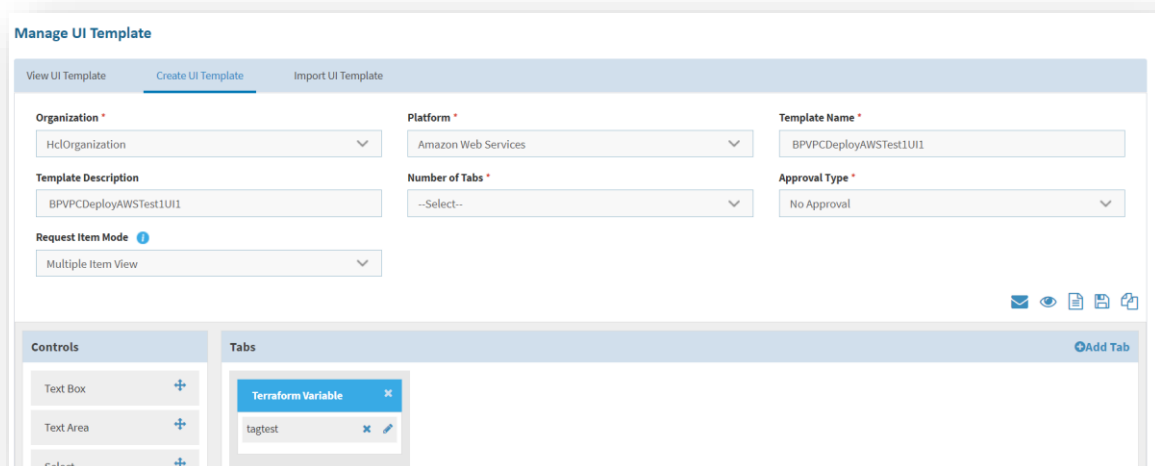


Figure 266 – Edit Template (Cont.)

4. Change or Add the Page level Script or Control level script as desired.

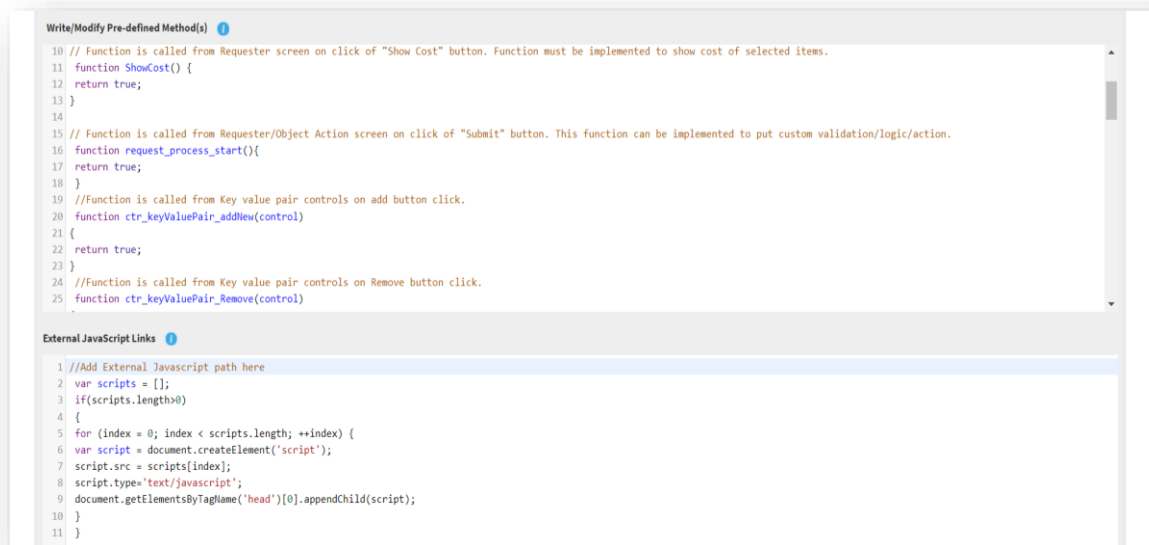


Figure 267 – Edit Template (Cont.)

5. Click **Cancel** to discard the changes.
6. A success message box appears.

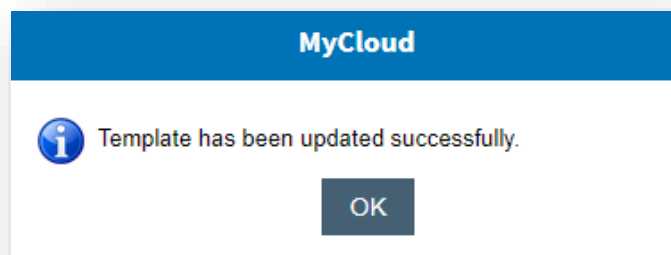


Figure 268 – Confirmation Message

To view the details of existing UI templates, click View (.

3.3.4.7.5 Download JSON

To download JSON, provider user needs to follow the below steps:

1. Select Organization and Platform.
2. Click Download JSON (.

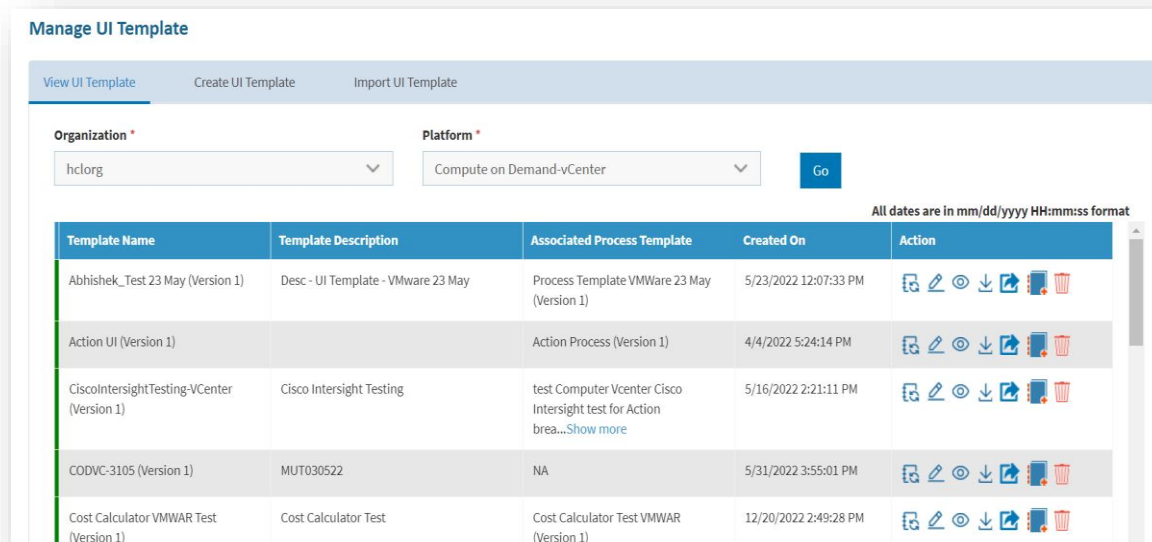


Figure 269 – Manage UI Template

3. The file gets downloaded. Please save the file.

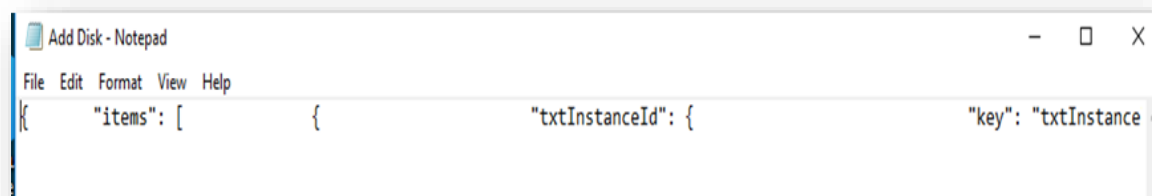


Figure 270 – Add Disk Coding

3.3.4.7.6 Export JSON

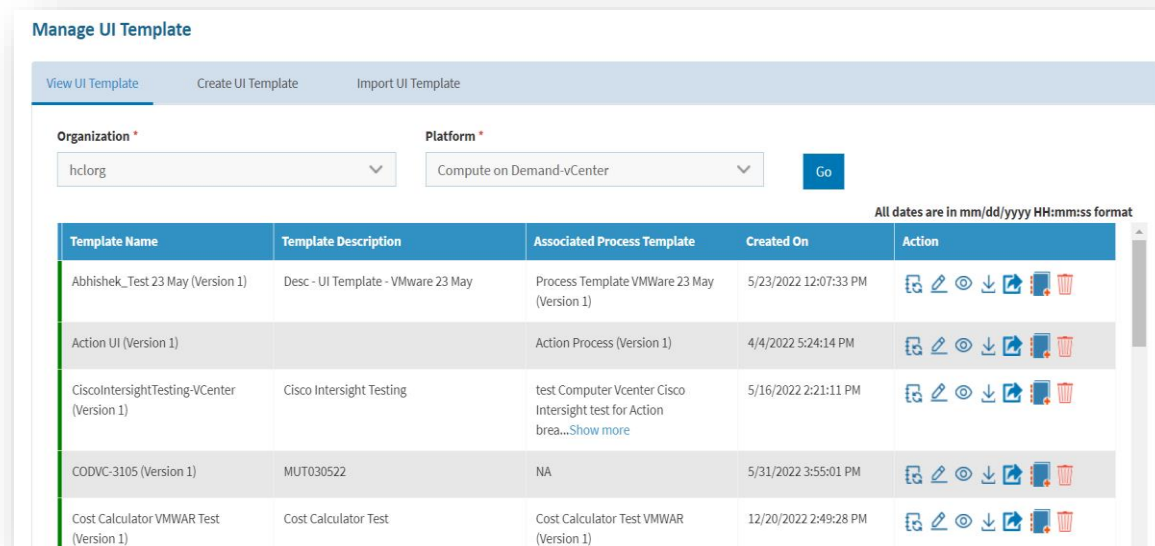
To export JSON, provider user needs to follow the below steps:

1. Select **Organization** and **Platform**.
2. Click **Export JSON** ()

To view the UI Templates, click View ()

3.3.4.7.7 Create New Version of Existing Template

1. Click New Version () against the template to create a new version of the existing template.
2. A popup appears for confirmation as shown below.



Manage UI Template

View UI Template | Create UI Template | Import UI Template

Organization * hclorg Platform * Compute on Demand-vCenter Go

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

Template Name	Template Description	Associated Process Template	Created On	Action
Abhishek_Test 23 May (Version 1)	Desc - UI Template - VMware 23 May	Process Template VMWare 23 May (Version 1)	5/23/2022 12:07:33 PM	    
Action UI (Version 1)		Action Process (Version 1)	4/4/2022 5:24:14 PM	    
CiscoIntersightTesting-VCenter (Version 1)	Cisco Intersight Testing	test Computer Vcenter Cisco Intersight test for Action bre... Show more	5/16/2022 2:21:11 PM	    
CODVC-3105 (Version 1)	MUT030522	NA	5/31/2022 3:55:01 PM	    
Cost Calculator VMWAR Test (Version 1)	Cost Calculator Test	Cost Calculator Test VMWAR (Version 1)	12/20/2022 2:49:28 PM	    

Figure 274 - Create New Version of Existing Template

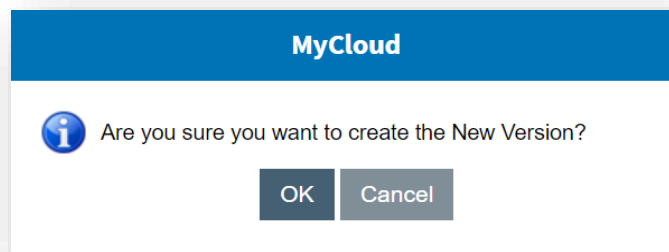


Figure 275 – View Template (Cont.)

3. Click **OK** to save the changes. Click **Cancel** to discard the changes.
4. A success message box appears if the User selects OK.

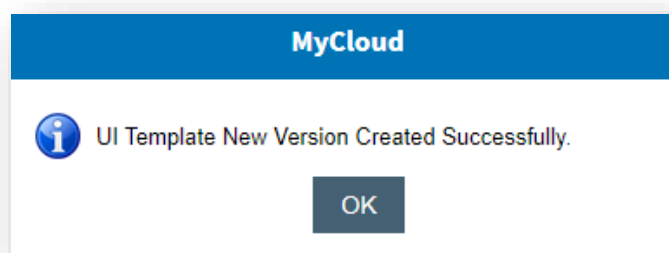


Figure 276 - Confirmation Message

3.3.4.7.8 Import UI Template

To import templates available in other platforms, Provider User needs to follow the below steps:

1. On the Manage UI Template screen, click Import UI Template.
2. The **Import UI Template** pane appears as below. By default, the **Import Type** is selected as 'New'.

Manage UI Template

View UI Template Create UI Template **Import UI Template**

Import Type *
☒ New ☐ Overwrite

Template Json File *
 [Choose a file](#)

*Note - Only control details will be imported.

Figure 277 – Import UI Template

3. Select **Template JSON File**, and then click **Import**.

Manage UI Template

View UI Template Create UI Template **Import UI Template**

Import Type *
☒ New ☐ Overwrite

Template Json File *
 [Choose a file](#)

[Import](#)

*Note - Only control details will be imported.

Figure 278 – Import UI Template (Cont.)

4. Available template gets displayed with all controls and scripts pre-populated. Change the name and other details and click Save.

Manage UI Template

View UI Template

Create UI Template

Import UI Template

Organization *

HCL Organization

Platform *

Google Cloud Platform

Template Name *

GCP Clone - 130922

Template Description

GCP Clone - 17 June

Number of Tabs *

3

Approval Type *

--Select--

Request Item Mode

Multiple Item View

Controls

Text Box

Text Area

Select

Date

Hidden Field

Key Value Pair

Addl. Storage

Button

Email

Custom Control

General

Additional Storage

Tags

btName

ddlZone

bdDescription..

ddlSize

hdnrdImage

hdnTemplatePa..

hdnTemplateNa..

hdnBootDisk

hdnOSCode

Gcp_MachineNa..

Gcp_ObjectID..

Gcp_IpAddress..

Gcp_Tags

Gcp_ActualDis..

Gcp_NetworkDe..

Gcp_PublicIp..

hdnRegion

hdnPublicIp..

Metadata01

RemoveMetadat..

hdnPrivateIp..

IpForward

HostName

DeletionProte..

ServiceAccoun..

RemoveService..

Network

Disk

hdnDiskcount..

Key Value Pair

Write Control Level Script Here

```

1 $(document).ready(function(){
2   debugger;
3   regionName = getParameterByName('RegionName');
4   region =DecryptString(regionName);
5   $('[name="hdnRegion"]').val(region);
6
7   BindTemplateDetails();
8   BindSize();
9   BindZone(region);
10  BindDiskType_CustomControl();
11
12  BindVPC();
13
14 });
15
16 function BindTemplateDetails()

```

Write/Modify Pre-defined Method(s)

```

1 // Function will be called from IT Approval screen from Validate and Submit action buttons.Method can be overridden to put custome logic for Validation/perform
  actions.
2 // Action contains two values as "V" and "S"
3 // V: Validate button is clicked.
4 // S: Submit button is clicked
5 function ValidateConfiguration(action){
6   return true;
7 }
8
9 // Function is called from Requester screen on click of "Show Cost" button. Method must be implemented to show cost of selected items.
10 function ShowCost() {
11   return true;
12 }
13
14 // Function is called from Requester/Object Action screen on click of "Submit" button. This method can be implemented to put custom validation/logic/action.
15 function request_process_start(){

```

External JavaScript Links

```

1 //Add External Javascript path here
2 var scripts = [];
3 if(scripts.length>0)
4 {
5   for (index = 0; index < scripts.length; ++index) {
6     var script = document.createElement('script');
7     script.src = scripts[index];
8     script.type="text/javascript";
9     document.getElementsByTagName('head')[0].appendChild(script);
10   }
11 }

```

Save

Figure 279 – Import UI Template (Cont.)

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```

5 Function ValidateConfiguration(action){
6 return true;
7 }
8
9 // Function is called from Requester screen on click of "Show Cost" button. Function must be implemented to show cost of selected items.
10 function ShowCost() {
11 return true;
12 }
13
14 // Function is called from Requester/Object Action screen on click of "Submit" button. This Function can be implemented to put custom
  validation/logic/action.
15 function request_process_start(){

```

External JavaScript Links ⓘ

```

1 //Add External Javascript path here
2 var scripts = [];
3 if(scripts.length>0)
4 {
5 for (index = 0; index < scripts.length; ++index) {
6 var script = document.createElement('script');
7 script.src = scripts[index];
8 script.type='text/javascript';
9 document.getElementsByTagName("head")[0].appendChild(script);
10 }
11 }
12

```

Save

Figure 280 – Import UI Template (Cont.)

5. A success message box appears as below.
6. Click OK.

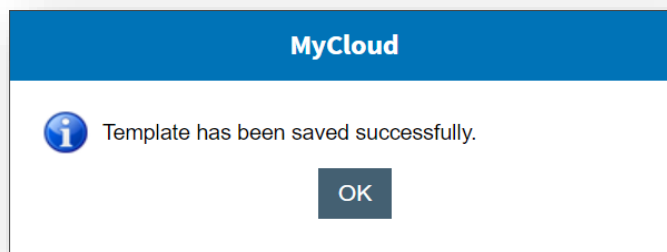


Figure 281 – Confirmation Message

7. On the Manage UI Template screen, select Import Type as 'Overwrite', the screen appears as follows:

Manage UI Template

View UI Template Create UI Template Import UI Template

Import Type *
☐ New ☒ Overwrite

Select Template Json File *

Organization *

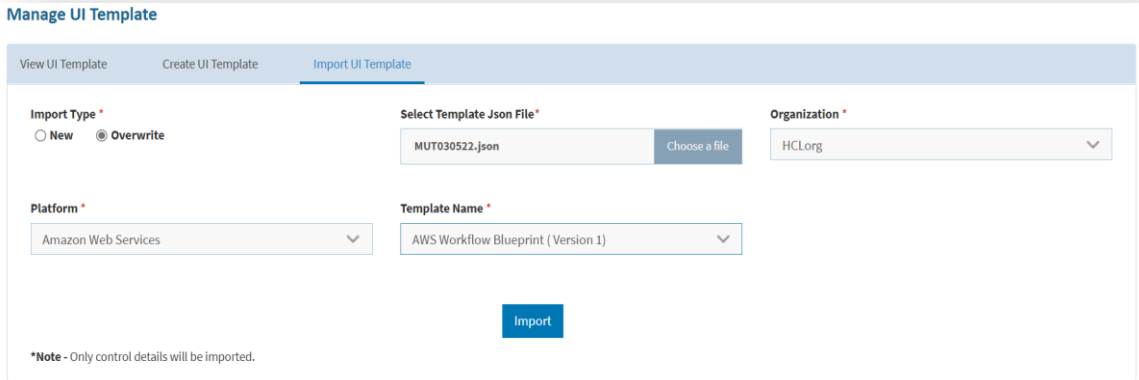
Platform *

Template Name *

*Note - Only control details will be imported.

Figure 282 – Import UI Template (Cont.)

8. By filling all the required fields and selecting valid template json, the **Import** button starts appearing. Here by selecting **Template Name** with related **Organization** and **Platform**, the user can override the existing template. Click on **Import** button.



Manage UI Template

View UI Template Create UI Template **Import UI Template**

Import Type *
☐ New ☒ Overwrite

Select Template Json File *
MUT030522.json Choose a file

Organization *
HCLorg

Platform *
Amazon Web Services

Template Name *
AWS Workflow Blueprint (Version 1)

Import

*Note - Only control details will be imported.

Figure 283 – Import UI Template (Cont.)

9. This activates the **Create UI Template** tab.

Manage UI Template

View UI Template

Create UI Template

Import UI Template

Organization *

HCL Organization

Platform *

Google Cloud Platform

Template Name *

GCP Clone - 150922 - test

Template Description

GCP Clone - 17 June - test

Number of Tabs *

3

Approval Type *

No Approval

Request Item Mode

Multiple Item View

Controls

Text Box

Text Area

Select

Date

Hidden Field

Key Value Pair

Addl. Storage

Button

Email

Custom Control

Tabs

General

Additional Storage

Tags

Write Control Level Script Here

```

1 $(document).ready(function(){
2   debugger;
3   regionName = getParameterByName('RegionName');
4   region = decryptString(regionName);
5   $('#name="hubregion"').val(region);
6
7   BindTemplateDetails();
8   BindSize();
9   BindZone(region);
10  BindDiskType_CustomControl();
11
12  BindVPC();
13
14 });
15
16 function BindTemplateDetails()

```

Write/Modify Pre-defined Method(s)

```

1 // Function will be called from IT Approval screen from Validate and Submit action buttons.Method can be overridden to put custom logic for Validation/perform
  actions.
2 // Action contains two values as "V" and "S"
3 // V: Validate button is clicked.
4 // S: Submit button is clicked
5 function ValidateConfiguration(action){
6   return true;
7 }
8
9 // Function is called from Requester screen on click of "Show Cost" button. Method must be implemented to show cost of selected items.
10 function ShowCost() {
11   return true;
12 }
13
14 // Function is called from Requester/Object Action screen on click of "Submit" button. This method can be implemented to put custom validation/logic/action.
15 function request_process_start(){

```

External Javascript Links

```

1 //Add External Javascript path here
2 var scripts = [];
3 if(scripts.length>0)
4 {
5   for (index = 0; index < scripts.length; ++index) {
6     var script = document.createElement('script');
7     script.src = scripts[index];
8     script.type='text/javascript';
9     document.getElementsByTagName('head')[0].appendChild(script);
10   }
11 }

```

Update

Figure 284 – Import UI Template (Cont.)

Write Control Level Script Here ⓘ

```

1 //console.log(MCLD.Functions.DecryptString("9LvMx5Y3Ef+NA+WL+i4IJDBs4817iI+ZprNs0XVe0M+108hEg7et4Szjggp0Ee8"));
2 //console.log(MCLD.Functions.GetCustomTableRecords("1",false));
3 $(document).ready(function () {
4 //console.log(MCLD.Functions.GetCustomTableRecords("1",false));
5 console.log(MCLD.Functions.GetUsersByOrganization());
6 });

```

Write/Modify Pre-defined Method(s) ⓘ

```

1
2 // Action contains two values as "V" and "S"
3 // V: Validate button is clicked.
4 // S: Submit button is clicked
5 function ValidateConfiguration(action){
6 return true;
7 }
8
9 // Function is called from Requester screen on click of "Show Cost" button. Function must be implemented to show cost of selected items.
10 function ShowCost() {
11 return true;
12 }
13
14 // Function is called from Requester/Object Action screen on click of "Submit" button. This Function can be implemented to put custom validation/logic/action.

```

Figure 285 – Import UI Template (Cont.)

```

21 {
22 return true;
23 }
24
25 //Function is called from Key value pair controls on Remove button click.
26 function ctr_keyValuePair_Remove(control)
27 {
28 return true;
29 }
30

```

External JavaScript Links ⓘ

```

1 //Add External Javascript path here
2 var scripts = [];
3 if(scripts.length>0)
4 {
5 for (index = 0; index < scripts.length; ++index) {
6 var script = document.createElement('script');
7 script.src = scripts[index];
8 script.type='text/javascript';
9 document.getElementsByTagName("head")[0].appendChild(script);
10 }
11 }
12

```

Update

Figure 286 – Import UI Template (Cont.)

10. Click on **Update** button. A confirmation message appears.

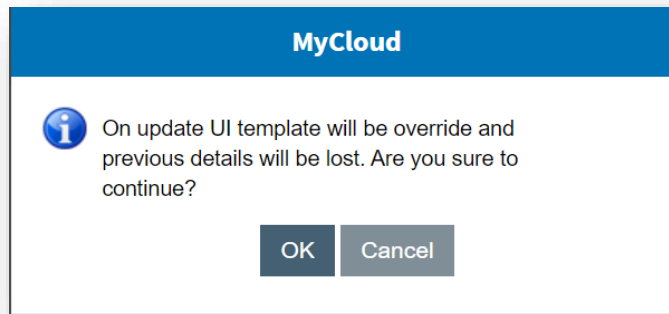


Figure 287 – Confirmation Message

11. Click **Cancel** to cancel the action. Click **Ok** to overwrite the template. A Success message appears.

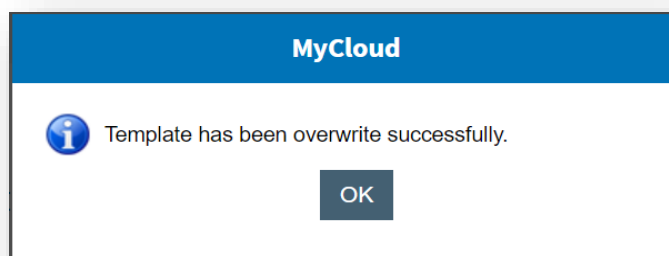


Figure 288 – Success Message

12. Clicking on **OK** displays the Preview, Create New, Cancel, Update, and Copy to New UI buttons.

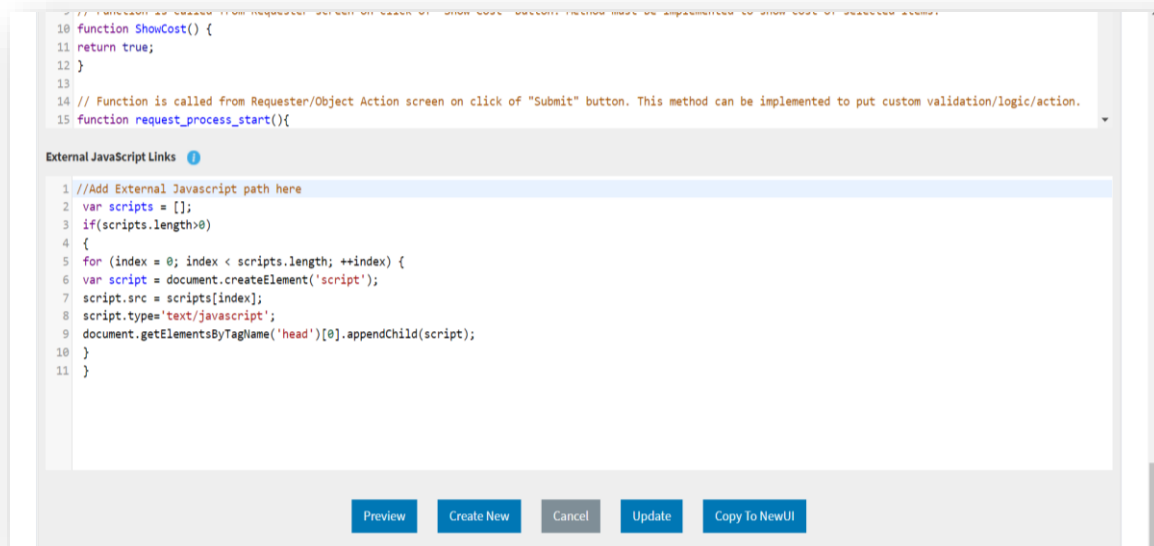


Figure 289 – Import UI Template (Cont.)

3.3.4.7.9 Delete UI Templates

To delete UI templates, Provider needs to follow the below steps:

1. On the Existing template pane, click Delete (🗑️).

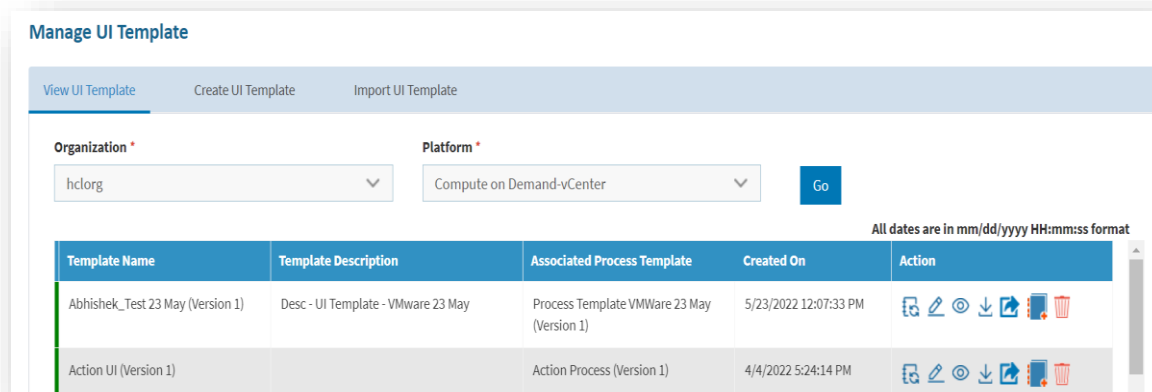


Figure 290 – Delete UI Template

Deletion of UI template that is mapped to a process template, is not possible at Provider's level.

- When prompted to confirm, click **OK**.

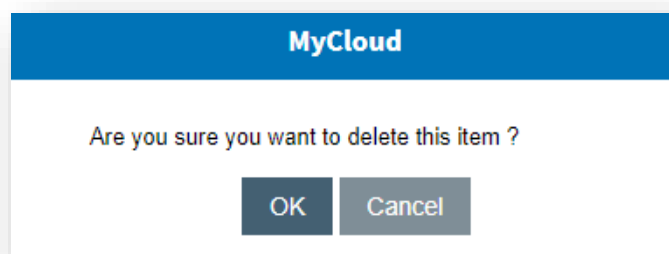


Figure 291 – Delete UI Template (Cont.)

- A success message box appears.

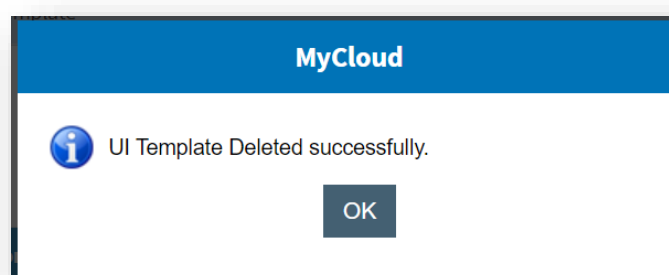


Figure 292 – Delete UI Template (Cont.)

3.3.4.8 Manage Process Template

This section details out the steps to manage Process template, a part of MyCloud orchestrator and works in the backend to execute a service. Templates do use scripting tools to create individual server build that becomes the standard for MyCloud application. These templates exist in the layer between Infrastructure as a Service (IaaS) and Platform as a Service (PaaS).

To initiate **Workflow Management**, Process template becomes the starting point for a Provider User and this section details out the steps to manage template & customize the tasks for an organization.

1. On the main menu bar, click **Workflow Management** and then go to **Manage Process Template**.
2. It has the following options:
 - Add Template
 - Manage Template
 - Import Process Template

3.3.4.8.1 Add Template

To create a process template, provider user needs to follow the below steps:

1. On the Manage Process Template screen, click Add Template.

Figure 293 – Add Manage Process Template

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

Table 34 – Manage Process Template Fields

Fields	Description
Organization	Name of the organization (Business units/ divisions in organizations)
Platform	Name of the cloud service providers
UI Template	A template that is used to design the UI screen of MyCloud. Select the UI template from the drop down
Template Name	This is the name of the template as per the user
Template Description	Describe the template and its purpose
Add Template	This is an option to add all the above information

3. Select **Organization** and respective **Platform**.
4. Select UI Template.
5. Enter **Template Name** and Template Description.
6. Click Add Template.
7. A confirmation message box appears as below:

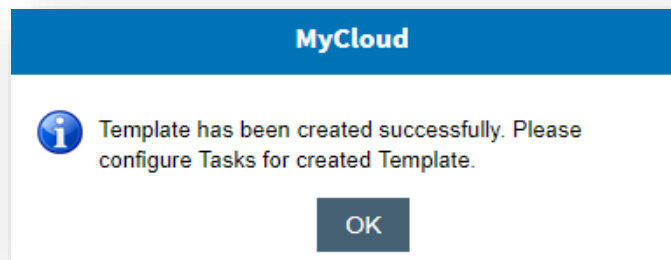


Figure 294 – Add Template Confirmation Message

8. Click **OK** and it populates a **Task View Form** to create tasks that gets executed at the Orchestrator level.

Manage Process Template

Manage Template Add Template Import Process Template

Organization * Platform * UI Template *

Template Name * Template Description

Task View

Task Type * Task * Task Name * Short Name *

Task Execution Type * Retry Count * Timeout(In Mins.) * Review Task

Review Columns Async Task Failure Email To Failure Email CC

Failure Email BCC Fail task on Timeout

S.No.	Task Type	Task Code	Task Name	Notify Success	Notify Failure	Move Group	Group Sequence	Move Task	Action
1	Custom	POWERSHELL	methods	☐	☐	↓	1	☐	☐ ☐ ☐ ☐ ☐ ☐

Figure 295 – Add Manage Process Template (Cont.)

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

Table 35 – Add Manage Process Template

Fields	Description
Task Type	This field defines type of tasks and is generic or manual
Task	The field highlights the task that needs to be added in the process template
Task Name	It highlights the name of the task
Short Name	Provide a short name for the ease of usage
Task execution Type	Defines type of tasks. this can be generic or manual
Retry Count	No. of counts a task will be retried
Timeout (In Mins)	Time limit before the task becomes inactive
Review Task	In Process Workflow if user wants UI Templates columns to be reviewed before task completion, user can opt for Review Task option and Mark the columns to be reviewed. In

Fields	Description
	Request Task Tracking Report user can validate the Pending Review task for the Request and perform appropriate action. Review Task -Yes (signifies user opts in for Review) Review Task -No (signifies user opts out for Review)
Review Columns	Define the list of columns from UI Template chosen to create Process Workflow. (Enable only when Review Task marked as Yes otherwise disable.)
Task Code	It is a code in MyCloud that has been assigned to each of the task
Notify success	Whether to notify ITSM when the task has been executed successfully
Notify Failure	Whether to notify ITSM when the task has failed to get executed
Move Group	Helps to move up and move down the task within the group.
Group sequence	Helps to set the sequence of a group.
MoveTask	Under MoveTask there are below options: MergeTask up into group above. MergeTask Down into the group below
Ungroup Task	Under MoveTask there are below options: Ungroup and move task Up. Ungroup and move task below
Action	Empowers the Provider user to take actions like Edit, Filter, manage tasks, Copy Task, if task is custom then there is option to add script from library and Delete against the listed Process templates

10. Select Task Type.

11. Task type is categorized into following types:

- **Generic Task:** These are out of box tasks in MyCloud which have predefined processes to execute in orchestrator engine of MyCloud.
- **Custom Task:** These are the tasks where user can add power shell scripts to execute tasks in orchestrator engine of MyCloud. For customized tasks, PowerShell scripts are used to execute it.
- **Script Library:** These are pre-defined library of reusable custom scripts. When user is defining process workflow using Script Library option user can add existing custom scripts from repository in workflow and in case if user wants to modify selected custom script from library ,can do so by using Manage Task () action.

12. **Process Templates:** If a provider user selects the task type as Process templates, User can create/copy task from existing selected process and task.

•

13. In case of Generic task type or Custom task type, select Task and then click Add Task.

Task View

Task Type *
--Select--

Task *
--Select--

Task Name *

Short Name * ⓘ

Task Execution Type *
Auto

Retry Count*
3

Timeout(In Mins.)*
30

Review Task
No

Review Columns
--Select--

Async Task
No

Failure Email To ⓘ

Failure Email CC ⓘ

Failure Email BCC ⓘ

Fail task on Timeout
No

Add Task

S.No.	Task Type	Task Code	Task Name	Notify Success	Notify Failure	Move Group	Group Sequence	Move Task	Action
1	Custom	POWERSHELL	methods ⓘ	☐ ⓘ	☐ ⓘ	↓	1	↕	🔍 📄 🗑️ 🔄

Update

Figure 296 – Add Task

Task View

Task Type *
--Select--

Task *
--Select--

Task Name *

Short Name * ⓘ

Task Execution Type *
--Select--

Retry Count*
3

Timeout(In Mins.)*
30

Review Task
No

Review Columns
None selected

Add Task

Figure 297 – Add Task (cont.)

Provider has the right to select the check box against Notify Success or Notify Failure column to know the status of selected task.

14. Click Filter (▼) to scale down the search for a task.
15. Click Mange Task (📄) to customize the task type parameters of a task.
16. A pop-up allows the Provider to configure a task:

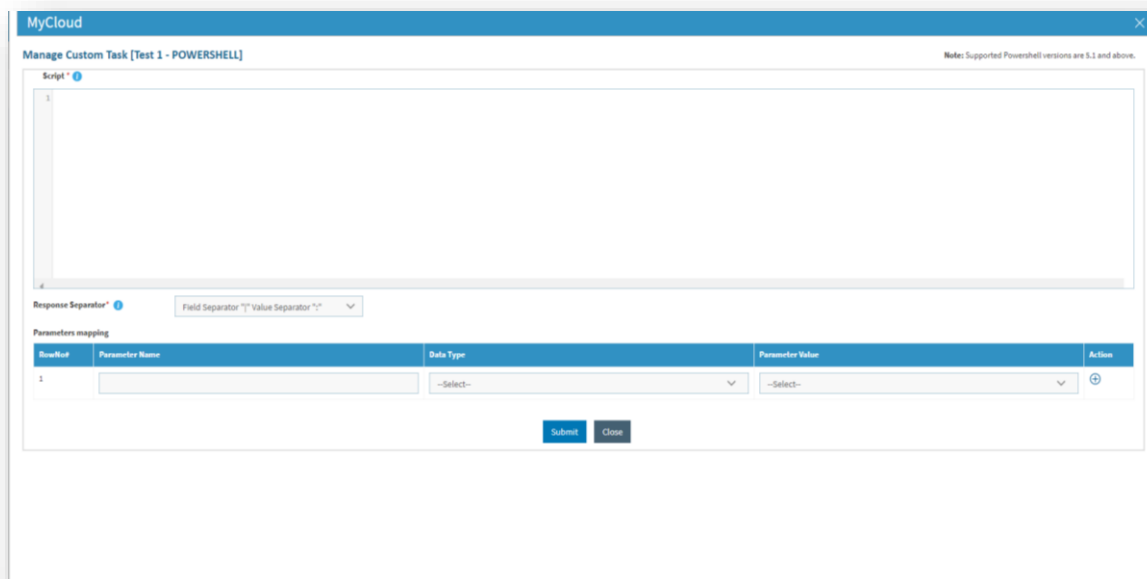


Figure 298 – Manage Custom Task

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

Table 36 – Manage Custom Task

Fields	Description
Parameter name	Name the parameter
Data type	This can be string, SQL function and many more
Parameter value	This is the value of parameter
Action	Provider acts on templates based on the above information

18. Enter the **Script**.

19. Enter the data in **Parameter Mapping** subtab.

Parameters mapping

RowNo#	Parameter Name	Data Type	Parameter Value	Action
1		--Select--	--Select--	

Figure 299 – Parameter Mapping

20. Enter the Parameter Name, and then select Data Type and Parameter Value.

21. Click Add () to add multiple parameters to a task.

22. Click **Submit** to save details.

Script * i

1

Parameters mapping

RowNo#	Parameter Name	DataType	Parameter Value	Action
1		--Select--	--Select--	+

Submit Close

Figure 300 – Response Parameters mapping

23. Click Close to discard changes.
24. A success message box appears.



Figure 301 – Confirmation Message

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

25. Click to re-align the tasks.
26. Select the task that provider wants to delete and click Delete ().
27. Click **Save**.

Task View

Task Type *

Task *

Task Name *

Short Name *

Task Execution Type *

Retry Count *

Timeout(In Mins.) *

Review Task

Review Columns

Async Task

Failure Email To

Failure Email CC

Failure Email BCC

Fail task on Timeout

Add Task

S.No.	Task Type	Task Code	Task Name	Notify Success	Notify Failure	Move Group	Group Sequence	Move Task	Action
1	Custom	PYTHON	hcll	☐	☐	↓	1	↕	🔍 📄 🗑️ 🔄

Save

Figure 302 – Task View

28. A confirmation message appears as below.

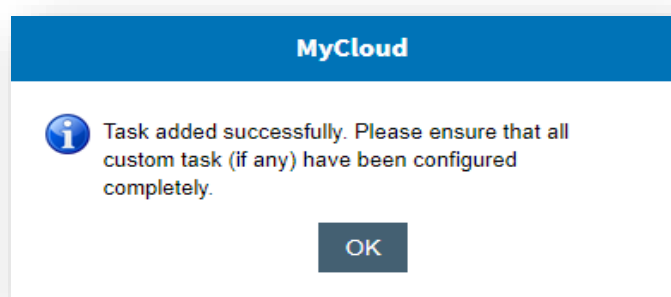


Figure 303 – Confirmation message

29. The template is created successfully.

3.3.4.8.2 Manage Template

This section lists out all process templates that have been created by Provider User.

It also comprises of following actions:

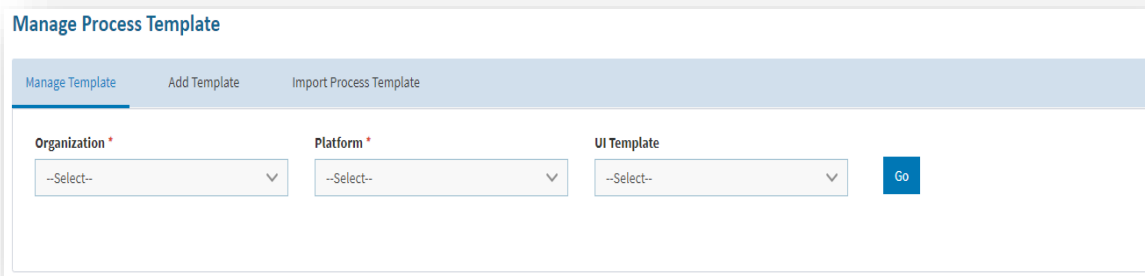
- Edit** (✎): Modify the details of existing templates.
- Export** (📄): Export the details of existing templates.
- Change Status** (🔄): Toggle the status of the template from Active to inactive or vice a versa.
- Copy Template** (📋): Create a Copy of the selected template.
- New Version** (📁): Create a new version of the selected template.

3.3.4.8.3 Edit Template

To modify/ edit a process template, follow the below steps:

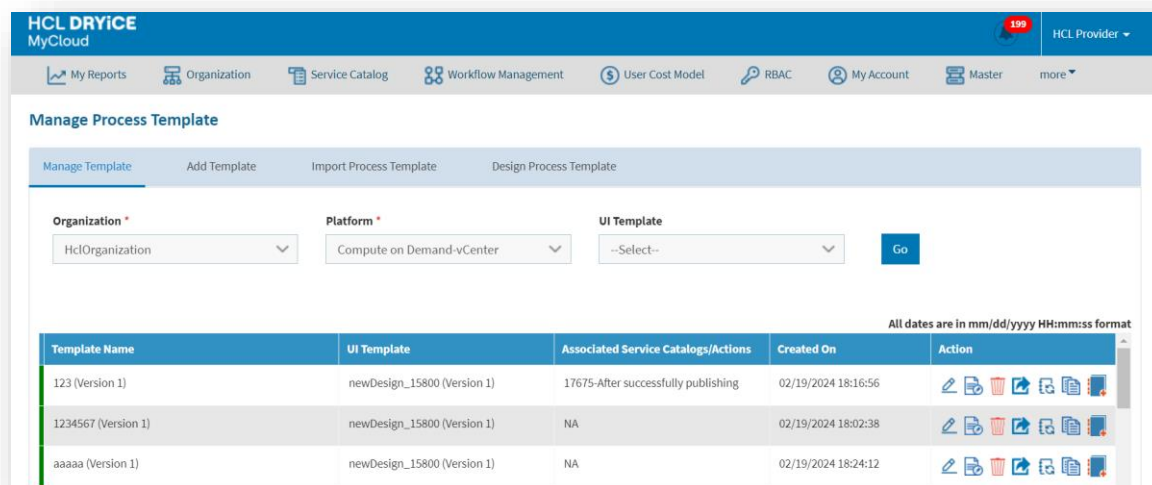
1. On the Manage Process Template screen, click Manage Template.
2. Select Organization and Platform.
3. Select UI Template.

4. Click **Go**.



The screenshot shows the 'Manage Process Template' form. It has three tabs: 'Manage Template' (selected), 'Add Template', and 'Import Process Template'. Below the tabs are three dropdown menus: 'Organization *' with '--Select--', 'Platform *' with '--Select--', and 'UI Template' with '--Select--'. A blue 'Go' button is to the right of the dropdowns.

Figure 304 – Manage Process Template



The screenshot shows the HCL DRYICE MyCloud interface. The top navigation bar includes 'My Reports', 'Organization', 'Service Catalog', 'Workflow Management', 'User Cost Model', 'RBAC', 'My Account', 'Master', and 'more'. The 'Manage Process Template' section is active, showing the same form as Figure 304 but with 'HclOrganization' selected for Organization and 'Compute on Demand-vCenter' for Platform. Below the form is a table of process templates.

Template Name	UI Template	Associated Service Catalogs/Actions	Created On	Action
123 (Version 1)	newDesign_15800 (Version 1)	17675-After successfully publishing	02/19/2024 18:16:56	    
1234567 (Version 1)	newDesign_15800 (Version 1)	NA	02/19/2024 18:02:38	    
aaaaa (Version 1)	newDesign_15800 (Version 1)	NA	02/19/2024 18:24:12	    

Figure 305 – List of Process Template

5. Click Edit () against the template to edit.
6. Modify the details as desired and click **Update**.

Figure 306 – Manage Process Edit Template

7. Click **Cancel** to discard any changes.
8. A confirmation message appears as below.

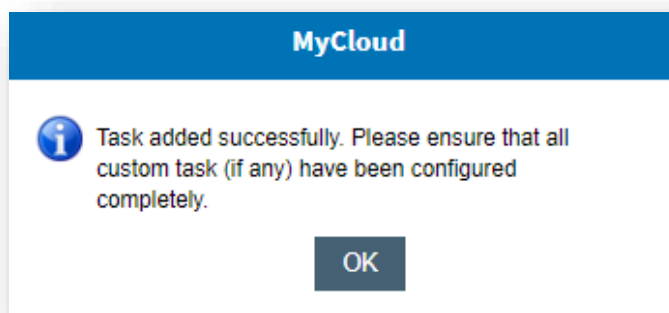


Figure 307 – Confirmation Message

3.3.4.8.4 Export Template

To export a process template, Provider User needs to follow the below steps:

1. On the Manage Process Template screen, click Manage Template.
2. Select Organization and Platform.
3. Select UI Template.
4. Click **Go**.

Manage Process Template

Manage Template Add Template Import Process Template

Organization * Platform * UI Template

HCLorg Compute on Demand-vCenter --Select-- Go

Figure 308 – Export Manage Process Template

- The configured process templates list down in a tabular view.

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

Template Name	UI Template	Associated Service Catalogs/Actions	Created On	Action
Action Process (Version 1)	Action UI (Version 1)	test	04/04/2022 17:25:32	
BY_VMClone (Version 1)	VM Clone (Version 1)	Custom Service VM Ware	08/25/2022 17:23:59	
CiscoIntersight Process Template (Version 1)	CiscoIntersightTesting-VCenter (Version 1)	Cisco IntersightTest Case	05/16/2022 14:21:44	
ConfigurationTesting (Version 1)	CiscoIntersightTesting-VCenter (Version 1)	ConfigurationTesting	06/08/2022 10:20:14	
Cost Calculator Test VMWAR (Version 1)	Cost Calculator VMWAR Test (Version 1)	Cost Calculator	12/20/2022 14:59:37	
DummyPT (Version 1)	VMWARUITemplate_Sonal (Version 1)	NA	02/25/2022 15:56:50	

Figure 309 – Export Manage Process Template

- Click Export ().
- A JSON file gets downloaded.

3.3.4.8.5 Change Status of a Template

To toggle the execution of a process template, follow the below steps:

- On the Manage Process Template screen, click Manage Template.
- Select Organization and Platform.
- Select UI Template.
- Click **Go**.

Manage Process Template

Manage Template Add Template Import Process Template

Organization * Platform * UI Template

HCLorg Compute on Demand-vCenter --Select-- Go

Figure 310 – Manage Process Template

- To change the status of the Process Template click Change Status ()

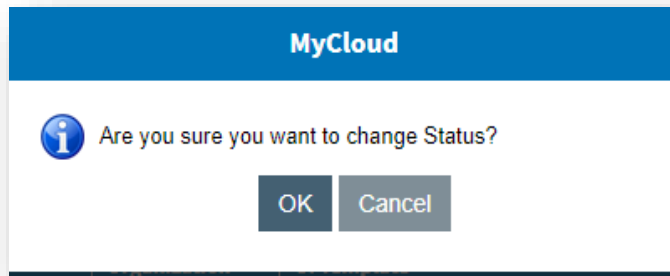


Figure 311 – Confirm Message.

6. Click **Ok**.
7. A success message appears.

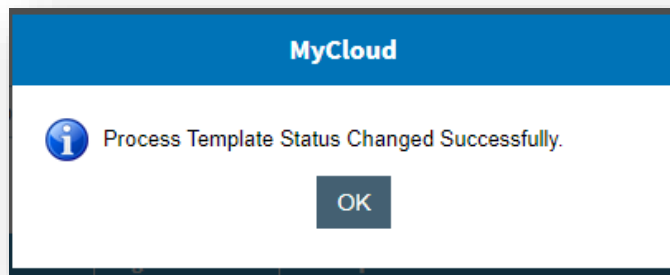


Figure 312 – Success Message.

3.3.4.8.6 Copy Process Template

To Copy the process template, follow the below steps:

1. On the Manage Process Template screen, click Manage Template.
2. Select Organization and Platform.
3. Select UI Template.
4. Click **Go**.

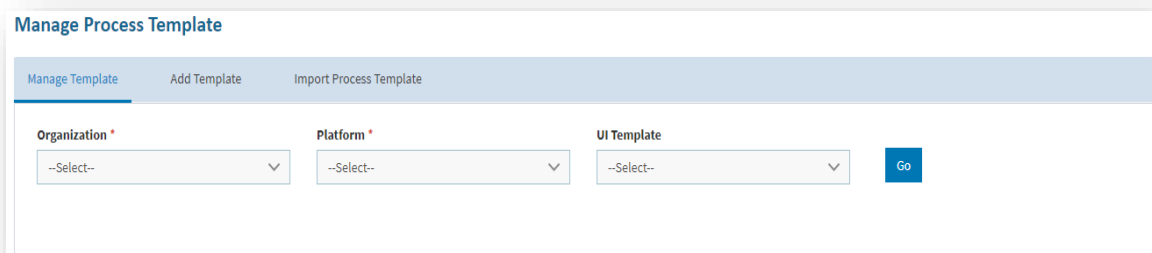
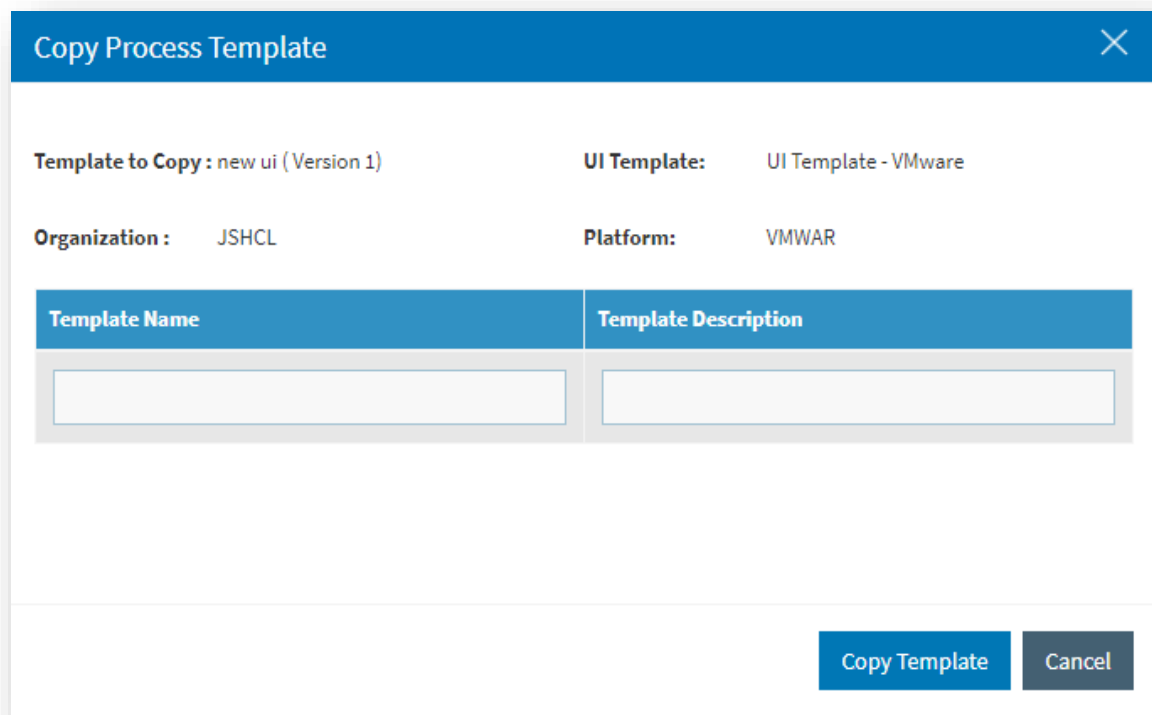


Figure 313 – Manage Process Template

5. To Copy the Process Template, click Copy Template ().



Copy Process Template [X]

Template to Copy : new ui (Version 1) **UI Template:** UI Template - VMware

Organization : JSHCL **Platform:** VMWAR

Template Name	Template Description

Copy Template **Cancel**

Figure 314 – Copy Template

6. Enter Template Name and Template Description.
7. Click **Copy Template** to copy or Click **Cancel** to cancel the **Action**.
8. A success message appears.

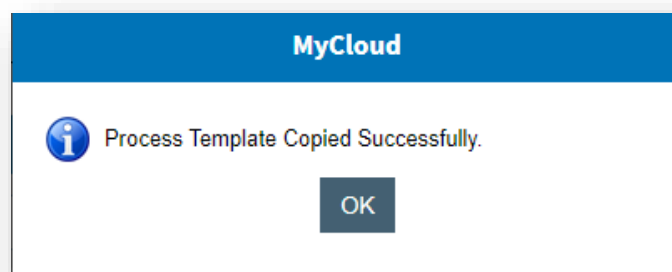


Figure 315 – Success Message

3.3.4.8.7 Create New Version of an Existing Template

To create a new version of selected process template, follow the below steps:

1. On the Manage Process Template screen, click Manage Template.
2. Select Organization and Platform.
3. Select UI Template.
4. Click **Go**.

Figure 316 – Manage Process Template

5. To create a new version, click New Template.
6. Below confirmation message appears.

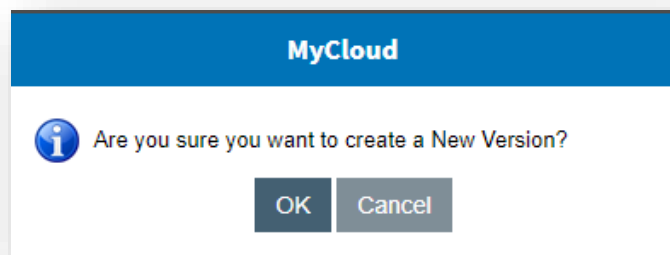


Figure 317 – Confirmation Message

7. Click **OK**.

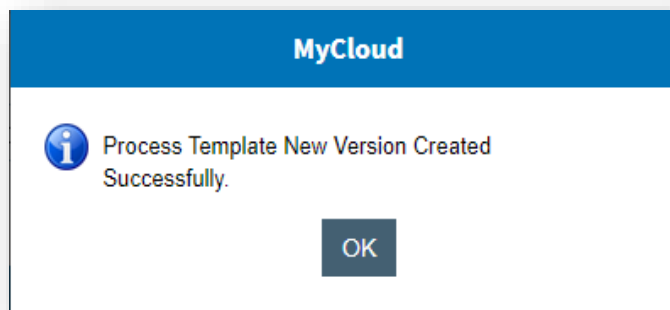


Figure 318 – Success Message

3.3.4.8.8 Delete Process Template

To delete the existing Process Template, Provider user needs to follow the below steps:

1. Click Delete (🗑️) against the configuration that user wants to delete.

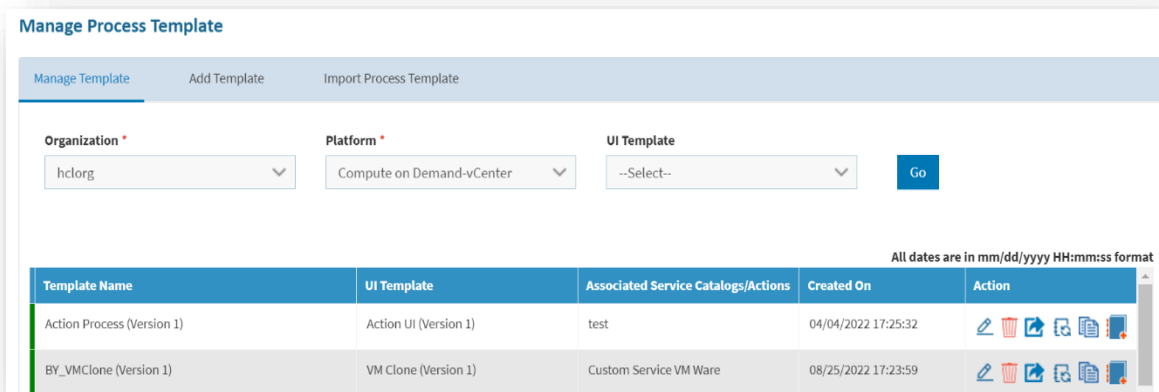


Figure 319 – Manage Process Templated (Contd.)

- Click **OK** to proceed or **Cancel** to discard the changes.

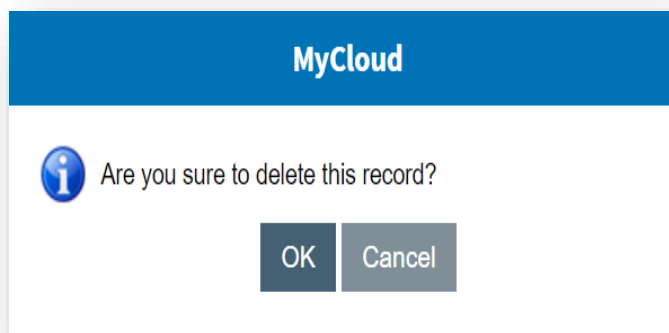


Figure 320 – Confirmation Message

- Click **OK**

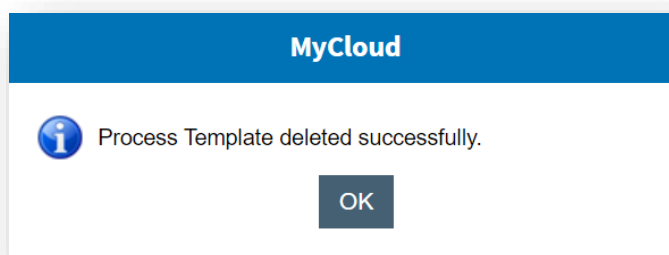


Figure 321 – Success Message

3.3.4.8.9 Import Process Template

To Import existing process templates of an organization, Provider user needs to follow the below steps:

- In the **Manage Process Template** screen, select Import Process Template tab. By default, the **Import Type** is selected as 'New'.

Manage Process Template

Manage Template Add Template Import Process Template

Import Type *
☒ New ☐ Overwrite

Platform *
 --Select--

Process Template File *
 Choose a file

UI Template *
 --Select--

Organization *
 --Select--

Figure 322 – Import Process Template

2. Select Organization, Platform & UI Template.
3. Select existing available **Process Template JSON** file to **Import**.
4. Click on **Upload** Button.

Manage Process Template

Manage Template Add Template Import Process Template

Import Type *
☒ New ☐ Overwrite

Platform *
 Compute on Demand-vCenter

Process Template File *
 Lates_WithFilter.json Choose a file

UI Template *
 testui (Version 1)

Organization *
 hclorg

Upload

Figure 323 - Import Process Template (Contd.)

All the Tasks in Process template gets imported and listed with all configurations.

If a user wishes to change the configuration (e.g., Success Service Name, Task Name etc.), it is done through manage process template.

5. Click **Save**.

Manage Process Template

Manage Template Add Template Import Process Template

Import Type *
☒ New ☐ Overwrite

Platform *
 Compute on Demand-vCenter

Process Template File *
 Lates_WithFilter.json Choose a file

UI Template *
 testui (Version 1)

Organization *
 hclorg

Template Name *
 ProcessTempDemo

Template Description *
 test demo

Save Reset

Figure 324 - Import Process Template (Cont.)

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



Figure 325 - Confirmation Message

8. On Selecting **Import Type** as 'Overwrite', the **Import Process Template** screen displays the options as below:

The screenshot shows the "Manage Process Template" interface with the "Import Process Template" tab selected. Under "Import Type", the "Overwrite" radio button is selected. The "Process Template File" field is empty with a "Choose a file" button. The "Organization" dropdown is set to "--Select--". The "Platform" dropdown is also set to "--Select--". The "UI Template" dropdown is set to "--Select--". The "Process Template Name" dropdown is set to "--Select--".

Figure 326 - Imported Process Template Overwrite

9. After filling all the required fields and selecting valid process template json, the **Import** button starts appearing. Here, by selecting **Process Template Name** with related **Organization** and **Platform**, the user can override the existing process template. Click on **Upload**.

The screenshot shows the same "Import Process Template" screen, but now the fields are populated. "Process Template File" contains "Lates_WithFilter.json" and has a "Choose a file" button. "Organization" is set to "hclorg". "Platform" is set to "Compute on Demand-vCenter". "UI Template" is set to "testui (Version 1)". "Process Template Name" is set to "test (Version 1)". A blue "Upload" button has appeared at the bottom center of the form area.

Figure 327 - Imported Process Template Overwrite

10. On successful validation, the **Save** button appears, Click **Save** to overwrite the **Process template**.

Manage Process Template

Manage Template Add Template Import Process Template

Import Type *
☐ New ☒ Overwrite

Process Template File *
 Lates_WithFilter.json Choose a file

Organization *
 hclorg

Platform *
 Compute on Demand-vCenter

UI Template *
 testui (Version 1)

Process Template Name *
 test (Version 1)

Save Reset

Figure 328 - Imported Template Overwrite

11. A Success Message appears:



Figure 329 - Success Message

12. Clicking **OK** takes the user to the **Add template** screen.

Manage Process Template

Manage Template Add Template Import Process Template

Organization *
 hclorg

Platform *
 Compute on Demand-vCenter

UI Template *
 testui (Version 1)

Template Name *
 test

Template Description

Update Template

Task View

Task Type *
 --Select--

Task *
 --Select--

Task Name *

Short Name *

Task Execution Type *
 Auto

Retry Count *
 3

Timeout(In Mins.)*
 30

Review Task
 No

Review Columns
 --Select--

Async Task
 No

Failure Email To

Failure Email CC

Failure Email BCC

Fail task on Timeout
 No

Add Task

Figure 330 - Import Template override cont.

3.3.4.8.10 Process Template Designer

The section explains the detailed steps to create Process Templates using the graphical method within MyCloud. It uses drag and drop method to create a process templates.

To create a process template, the provider user needs to follow these steps:

1. On the Manage Process Template screen, select Design Process Template tab.

Figure 331 – Manage Process Template Screen

- The Process Template Details form appears.

Figure 332 – Process Template Details

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

Table 37 – Process Template Details Fields

Fields	Description
Organization	Name of the Organization (Business Units/ Divisions in Organizations). The Provider User needs to choose the Organization for which they want to create the Process Template. This ensures that the Template is associated with the correct Organization and can be accessed by the appropriate users within that Organization.
Platform	Name of the Cloud Service Provider. The provider User selects a Platform. This could refer to a pre-designed layout or structure that serves as the basis for the Process Template.
UI Template	A Template that is used to design the service Request Form in MyCloud. Select the UI Template from the drop down. The UI Template provides a framework for organizing and presenting the Task, Inputs, Outputs, and other relevant information.
Template Name	This is the name of the Template as per the Provider User. The Provider User assigns Template Name to the Process Template. The name should be descriptive and easily identifiable.
Template Description	Describe the Template and its purpose. The Provider User assigns Template Description to the Process Template. The Description provides additional context or details about the Template's purpose, usage etc.
Add Template	This is an option to add all the above information

4. By populating the above-mentioned fields, the Provider User can create a Process Template that is tailored to the specific Organization, utilizes a predefined UI Template for consistency, and is appropriately named and described. This Template can then be used as a Blueprint for creating and managing processes Task within the Organization.
5. After successfully saving the Process Template, a confirmation message should be displayed to indicate that the operation was successful.

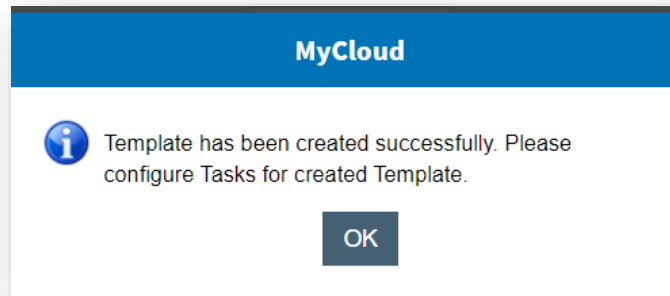


Figure 333 – Confirmation Message

6. The next action in the workflow is to populate a Task View form. This form is used to create Tasks/Groups that will be executed at the Orchestrator level.
7. **Task View:** After the Designer Process Template is saved, the user is presented with a screen displaying a Canvas. Here's how the layout and default setup could be organized:
 - **Canvas Displayed on Left Side:** The Canvas, where users can design and visualize the process flow, occupies the left side of the screen. This canvas provides a graphical representation of the process flow, allowing users to drag and drop elements to create and connect/link the Tasks.
 - **Task Palette Displayed on Right Side:** On the right side of the screen, the Task Palette is displayed. This Palette contains a collection of Task elements or Components that users can use to build their process flow. It typically includes various types of Tasks.
 - **Start Task Visible on Canvas by Default:** Upon opening the Canvas, the "Start Task" element is already visible and positioned as the starting point of the process flow. This allows users to immediately start designing their process from the beginning, connecting subsequent tasks and elements as needed.

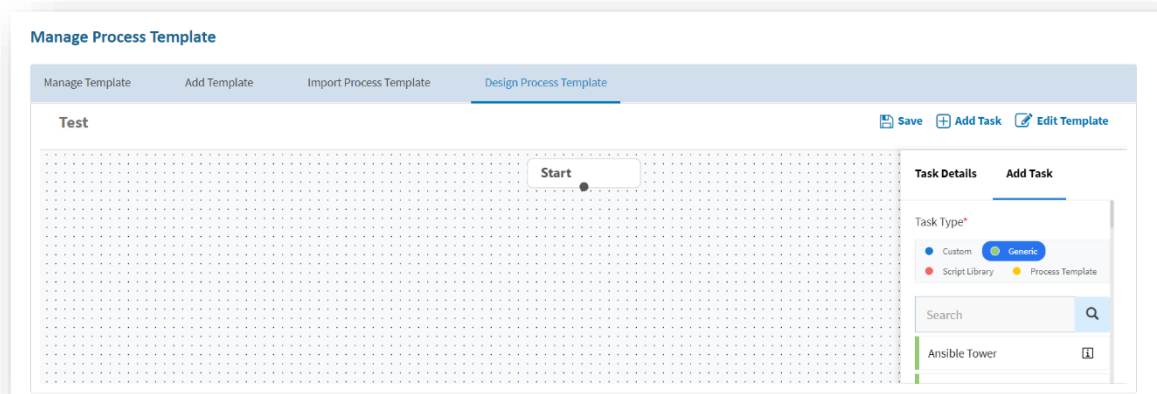


Figure 334 – Manage Process Template

8. Add Task:

- **Task Palette (Right Side):** The following task types are available on the task palette.
 - **Generic Task:** Represents Out-of-the-Box Tasks provided by MyCloud with predefined processes to execute in the Orchestrator Engine. These Tasks typically encapsulate common functionalities or integrations available within the MyCloud Platform.
 - **Custom Task:** Allows users to add PowerShell and Python Scripts to execute Tasks in the Orchestrator Engine of MyCloud. Users can define custom logic and operations tailored to their specific requirements using Scripting Languages.
 - **Script Library Task:** Consists of a pre-defined library of reusable Custom Scripts. When users define a Process Workflow using the Script Library option, they can add existing Custom Scripts from the repository.

Users can modify selected Custom Scripts using the "Manage Task" action, allowing for customization, and fine-tuning as needed.
 - **Process Template Task:** This section to allow users to choose existing tasks from a process template, including both generic and custom tasks,

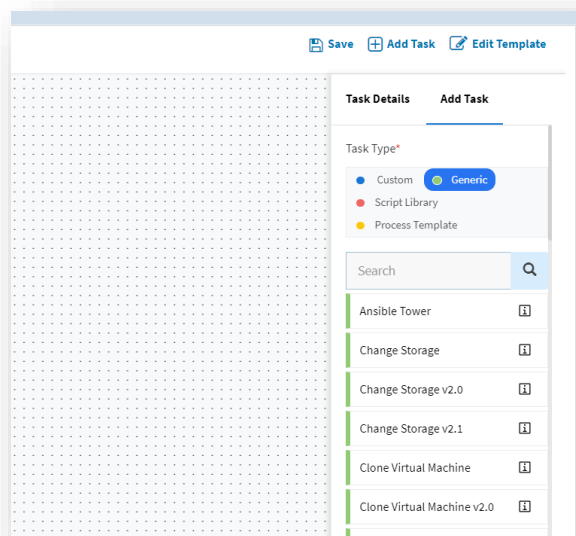


Figure 335 – Task Palette

9. To add a new task to the Canvas, users need to follow these steps:

- Locate the Add Task Panel:** On the left side of the screen, users can find the Task Palette, which contains different types of Tasks such as Generic Task, Custom Task, Script Library Task and Process Template Tasks.
- Select the Desired Task Type:** Depending on the requirements of the process being designed, users can choose the appropriate Task Type from the Task palette. This could be a Generic Task, Custom Task, or a task from the Script Library and Process Template Tasks.
- Drag the Task onto the Canvas:** Once the desired Task Type is selected, users can simply click and drag the Task from the Task palette onto the Canvas.

- d. **Position the Task on the Canvas:** After dragging the Task onto the Canvas, users can position it at the desired location within the Process flow. They can place it before or after existing tasks, as well as connect it with other tasks using connectors or flow arrows.
- e. **Configure the Task:** Once the Task is placed on the Canvas, users can configure its settings, such as Task Name, Short Name, and other mandatory details. This ensures that the Task is properly defined and aligned with the overall process flow.

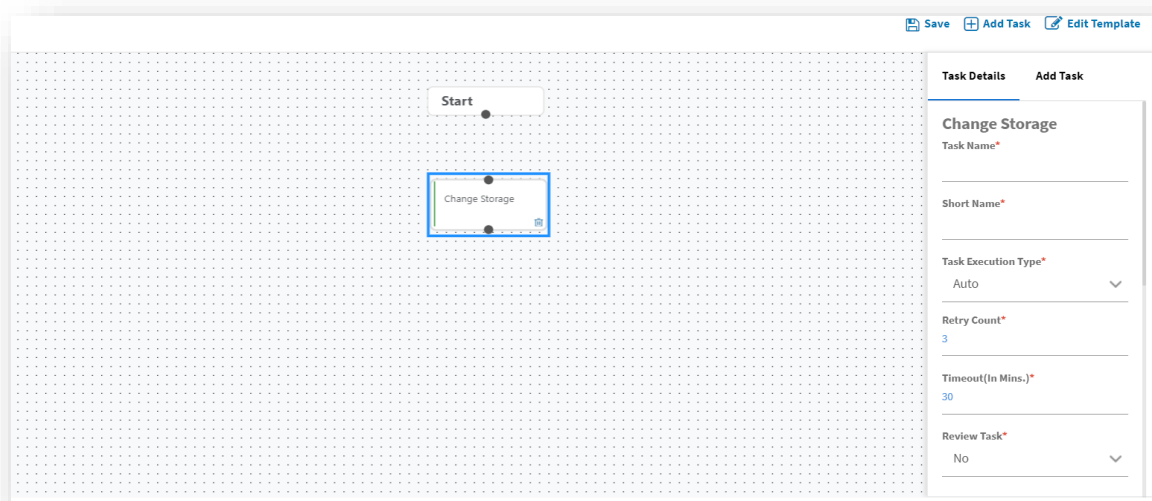


Figure 336 – Add Task to Canvas

10. By following these steps, users can seamlessly add new Tasks to the Canvas and incorporate them into the process flow, enabling them to design and visualize complex workflows efficiently.

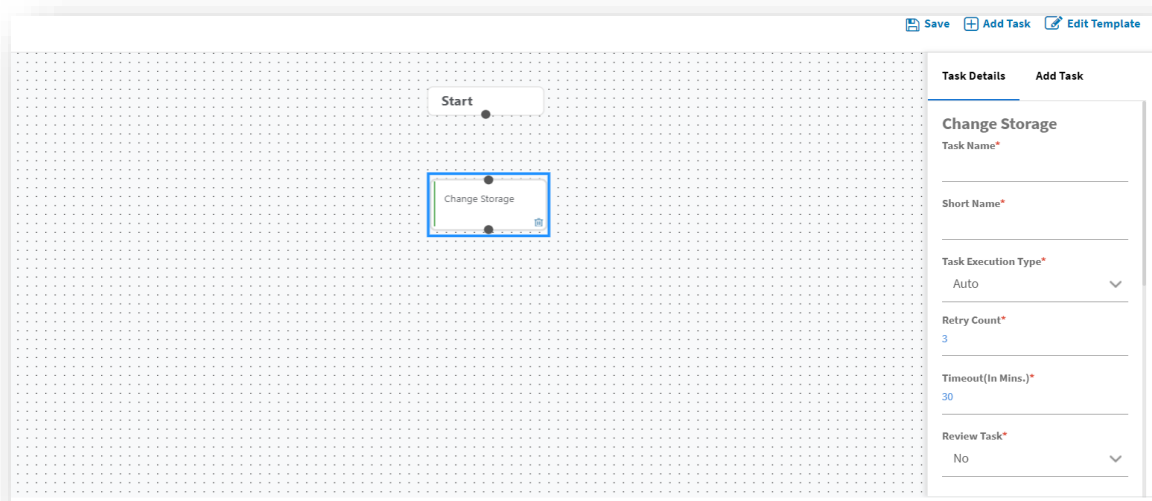


Figure 337 – Add Task to Canvas (Cont.)

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

Table 38 – Task Details Fields

Fields	Description
Task Type	Provide the Task Type

Fields	Description
Task	The field highlights the tasks that need to be added in the process template. If provider user selects generic task under task type, then MyCloud out of box tasks (like Clone, add disk etc.) are populated and if user selects Custom task in task type, then following tasks are populated: • Call PowerShell script: Provider can write PowerShell scripts to execute task and map PowerShell variables from the Dynamic UI form values and can also use MyCloud predefined functions to execute the script. • Call Python script: Provider can write Python scripts to execute task and map Python variables from the Dynamic UI form values and can also use MyCloud predefined functions to execute the script.
Script	This option is enabled when task type is Script library. The user can add existing Custom Script (PowerShell and Python) from repository in workflow.
Task Name	It highlights the name of the task and is used with ITSM tool for integration purpose.
Short Name	Provide a Short Name for the ease of usage
Task execution Type	Defines execution type of Tasks. This can be auto or manual, • Auto: Orchestrator Engine executes the task in MyCloud for submitted Service Requests. • Manual: The respective support team manually executes and updates the status in ITSM tool. Simultaneously, ITSM Tool will notify MyCloud and update the status of task.
Retry Count	Number of times a Task will be retried for execution upon getting failed.
Timeout (In Mins)	Time limit before the task becomes inactive.
Review Task	In Process Workflow, if the user wants UI Templates columns to be reviewed before marking that task as completed, user can opt for Review Task option and Mark the columns to be reviewed. In Request Task Tracking Report, the user can validate the Pending Review task for the Request and perform appropriate action. Review Task -Yes (signifies user opts in for Review) Review Task -No (signifies user opts out for Review)
Review Columns	Define the list of columns from UI Template chosen to create Process Workflow. (Enable only when Review Task marked as Yes otherwise disable.
Async Task	Using this Task type the user can configure task that need to be executed asynchronously. At the time of execution, MyCloud triggers the task and save the acknowledgement number. Once task is completed third party tool will invoke MyCloud API to close the task Success/Failure.
Failure Email To	This field will be used to send "To" Email notification, in case of Task Failure. Please use comma (,) to add multiple emails in this fields.
Failure Email CC	This field will be used to send "CC" Email notification, in case of Task Failure. Please use comma (,) to add multiple emails in this fields.

Fields	Description
Failure Email BCC	This field will be used to send "BCC" Email notification, in case of Task Failure. Please use comma (,) to add multiple emails in this fields.
Fail task on Timeout	This is to be used in case of timeout whether task needs to be marked as failed or not.
Task Code	It's a code in MyCloud that has been assigned to each of the task.
Notify success	Notify to ITSM tool when the task has been executed successfully.
Notify Failure	Notify to ITSM tool when the task has failed to execute.

12. **Link the Task on Canvas:** Drag first Task onto Canvas and link with Start Task, this is to signify that it's the initial step in the process.

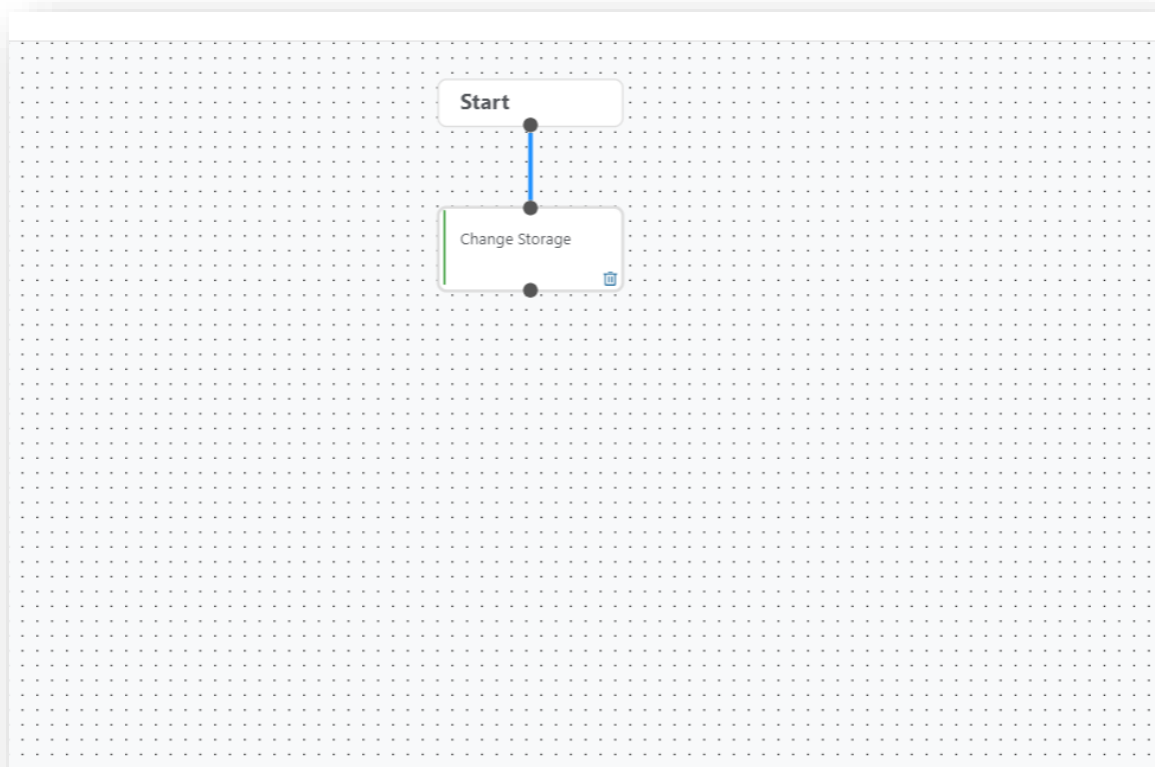


Figure 338 – Link Task on Canvas

13. **Click on Task Node to Access Details:** After connecting the task click directly on the task node to access its properties.
14. **Fill Task Details:** Within the Task properties panel or Dialog box, fill in following details:
- **Task Name:** A descriptive name for the task.
 - **Short Name:** Optionally, a shorter identifier for the task.
 - **Task Count:** Specifies the number of times this task should be executed.
 - **Retry Count:** Indicates how many times the task should be retried if it fails.
 - **Other Parameters:** Additional parameters specific to the task, such as timeout duration, priority level, etc.
15. **Save Task Details:** Once all the necessary details are entered, save the task properties by using the Save button to apply the changes. By following these steps, you can seamlessly add tasks to the process flow.

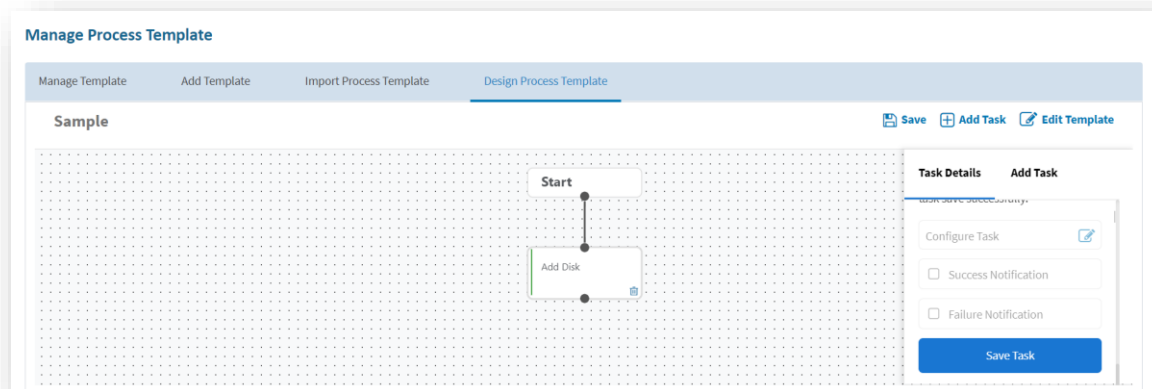


Figure 339 – Save Task Details

16. **Subsequent Task Sequencing:** Each subsequent task added to the Canvas should be assigned a sequence number that reflects its intended execution order in the process flow. For example, if a task is added after the "Start Task" and is the first task to be executed after the start, it should be assigned a sequence number of 1. Subsequent tasks would then be assigned sequential numbers accordingly.
- **Handling Single Child Tasks:** If a task has only one child task, the system should automatically link the child task to its parent task and assign it the next sequential number.
 - **Recognition of Shared Parent:** When multiple tasks share the same parent task and are intended to execute in parallel, the system should recognize this shared parent-child relationship. All tasks that are intended to execute in parallel under the same parent should be assigned the same sequence number.
- This ensures that these tasks are part of the same "group" of parallel-executing tasks within the process flow. We can also drag task in existing group also we can drag task group to canvas.

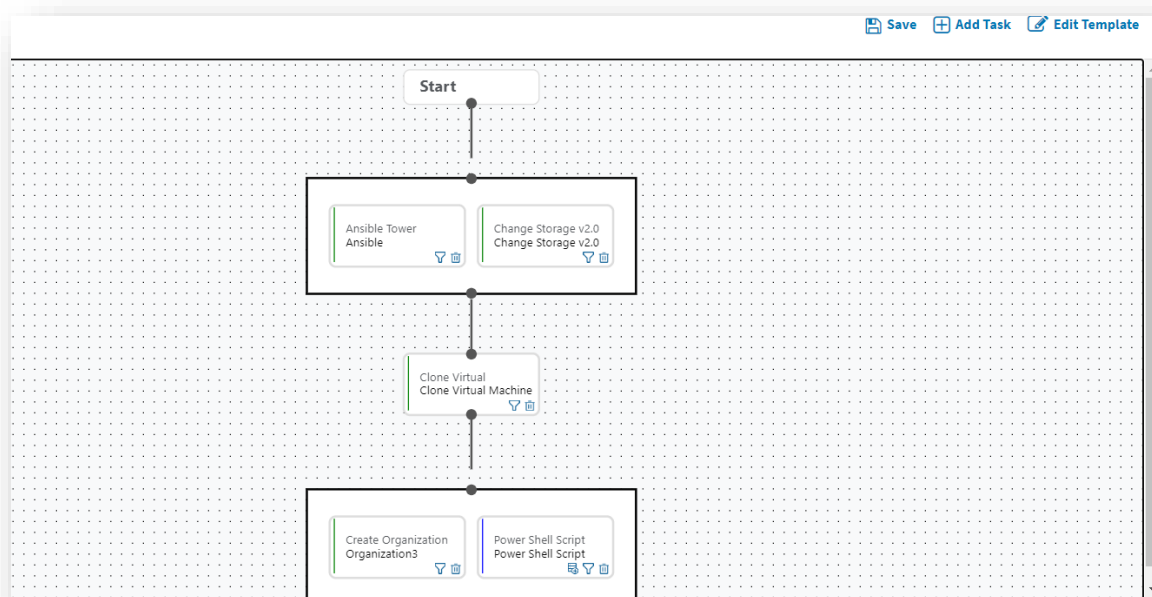


Figure 340 – Tasks with Shared Parent

The following actions can be performed on a task:

– **Delete:**

The Delete icon  allows users to delete a Task from the Canvas. When users drag any Task on Canvas, the delete icon appears.

Users can click on the Delete icon to remove the Task from the Canvas. If the Task is saved, a confirmation prompt is displayed to ensure that the deletion is intentional.

– **Filter:**

- a. Once a Generic Task is saved, then along with Delete icon the Filter  icon is displayed to scale down the search for a Task.

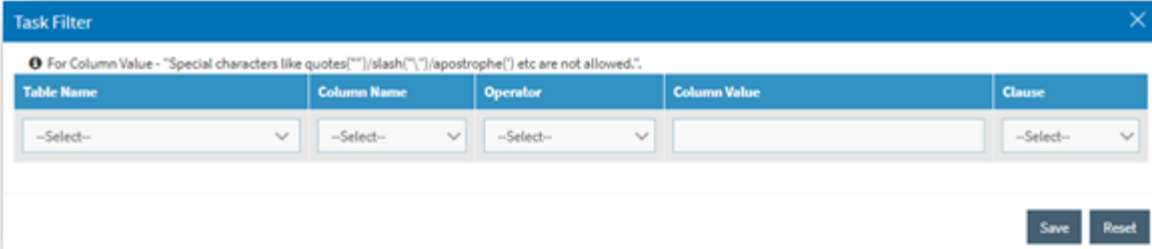


Figure 341 – Task Filter

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

Table 39 – Task filter Fields

Fields	Description
Table Name	This task filter will work on table where Dynamic data are saved (RequestDetailExtended) in the form of keyName and key value
Column Name	User can apply filter on KeyName or KeyValue of selected table if we consider domain join example; like the KeyName will be “IsDomain Join” and KeyValue should be “yes” or “no” selected by the requester
Operator	Apply operator on task filter like “Not In”, “In”, “CONTAINS”, “EQUALS” etc.
Column Value	Provides the value of column name based on task filter. If we consider domain join example, then Column value will be “yes” or “no”
Clause	Helps to apply more than one condition “OR” and “AND” operators.

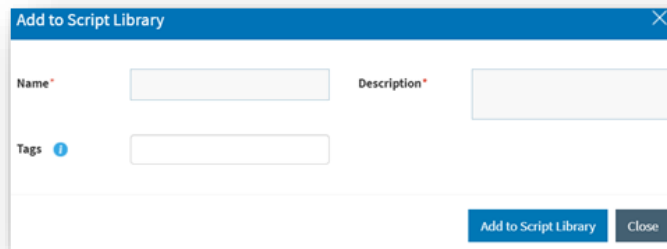
- b. Configure the Filter as per the Task.

- c. If filter is applied on any Task, then filter icon gets changed as  to notify filter applied.

– **Add to Script Library:**

To add Script Library, perform the following steps:

- a. Once Custom Task is getting saved, along with Delete icon, Filter, and Add to Script Library icons are getting displayed.
- b. Click Add to Script Library () , a window pops up to add custom script to script library for reuse in another task/process workflow.



A dialog box titled "Add to Script Library" with a close button (X) in the top right corner. It contains three input fields: "Name*" (required), "Description*" (required), and "Tags" (with an information icon). At the bottom right, there are two buttons: "Add to Script Library" and "Close".

Figure 342 – Add to Script Library

- c. Enter Name, Description and Tags.
- d. Click Add to Script Library. A success message box appears.

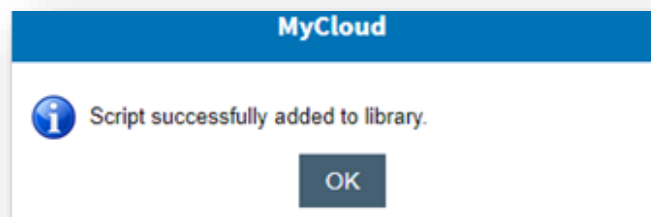
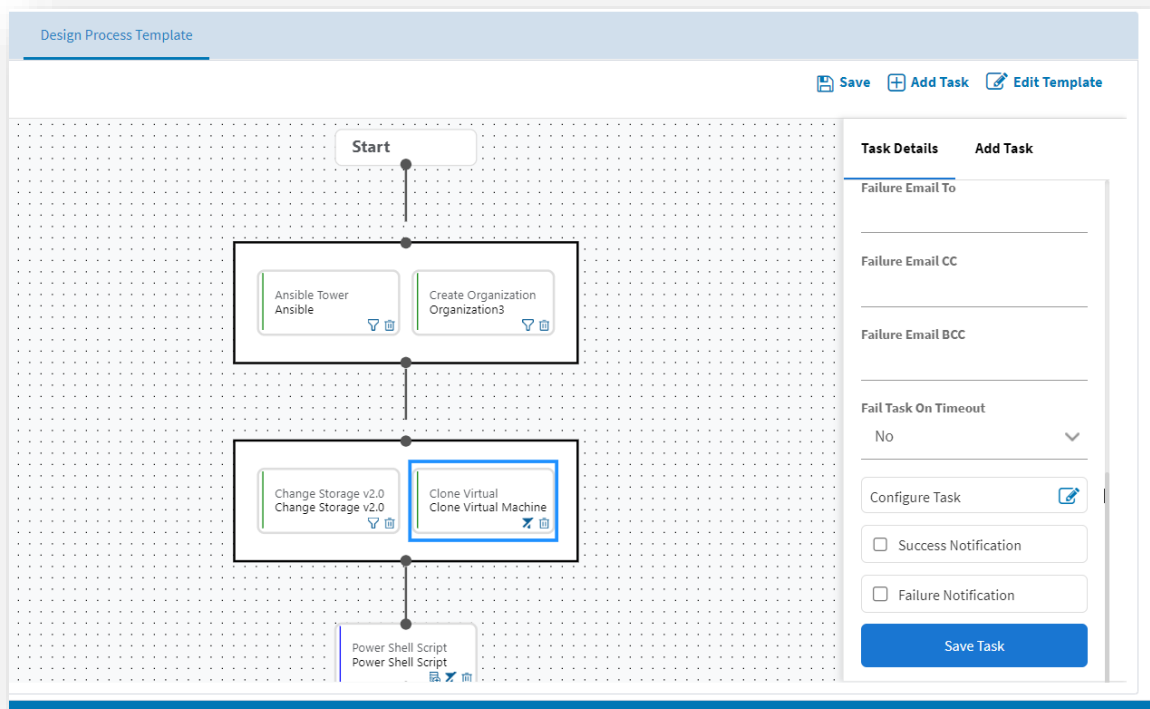


Figure 343 – Success Message

- e. Click OK.
- **Configure Task:**
This section explains the process to customize the Task type parameters of a selected Task. Once a task is saved, the Configure Task icon is enabled.



The "Design Process Template" interface shows a workflow diagram on a grid. The workflow starts with a "Start" node, followed by a box containing "Ansible Tower Ansible" and "Create Organization Organization3". This is followed by another box containing "Change Storage v2.0 Change Storage v2.0" and "Clone Virtual Machine Clone Virtual Machine". The final node is "Power Shell Script Power Shell Script". On the right, the "Task Details" panel is open, showing fields for "Failure Email To", "Failure Email CC", and "Failure Email BCC". It also has a "Fail Task On Timeout" dropdown set to "No". Below these are checkboxes for "Success Notification" and "Failure Notification", and a "Save Task" button. A "Configure Task" icon (pencil) is visible next to the "Clone Virtual Machine" task in the workflow.

Figure 344 – Configure Task

- **Generic Task:** When the task type is selected as Generic.
 - a. On clicking the Configure Task icon, a window pops up where Provider maps MyCloud's out of the box Tasks.

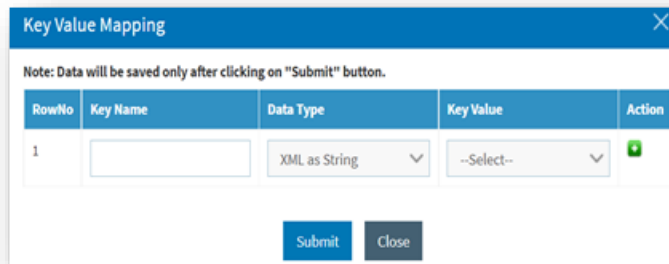
Parameter Name	Parameter Description	Data Type	Parameter Value
AWSSecretKey	AWSSecretKey	Sql Functions	@@fnGetAWSSecretKey
AWSAccessKey	AWSAccessKey	Sql Functions	@@fnGetAWSAccessKey
ClusterName	ClusterName	String	btclusterName
NodePools	NodePools	String	hdnNodePool

Figure 345 – Configure Task (Generic)

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

Table 40 – Configure Task Fields

Fields	Description
Parameter mapping	This icon highlights the output parameters of current generic tasks.
Parameter Name	These are predefined parameters to execute generic task within MyCloud
Parameter Description	Parameter description contains all the information about the parameter.
Datatype	Type of data to map parameter Name except for e.g., string, xml SQL function etc.  icon shows the type of data that is required for corresponding parameters. MyCloud Predefined SQL Function List is a list of MyCloud predefined functions that are used for mapping sensitive data to parameter name that are not present in dynamic UI. e.g., Azure subscription details etc. Below are the datatypes which provides parameters values which are not present in dynamic UI. For example: Static: To specify the fix hard coded parameter value to workflow task. Secret Key: It populates all the keys which is defined in secret manager screen and takes the value of key on workflow task execution. Secret key value displayed format is \$ConfigurationName.KeyName Key value: it shows Map key value button () option to add parameter values. On click of Map Key value below popup opens.



Key Value Mapping

Note: Data will be saved only after clicking on "Submit" button.

RowNo	Key Name	Data Type	Key Value	Action
1		XML as String	--Select--	

Submit Close

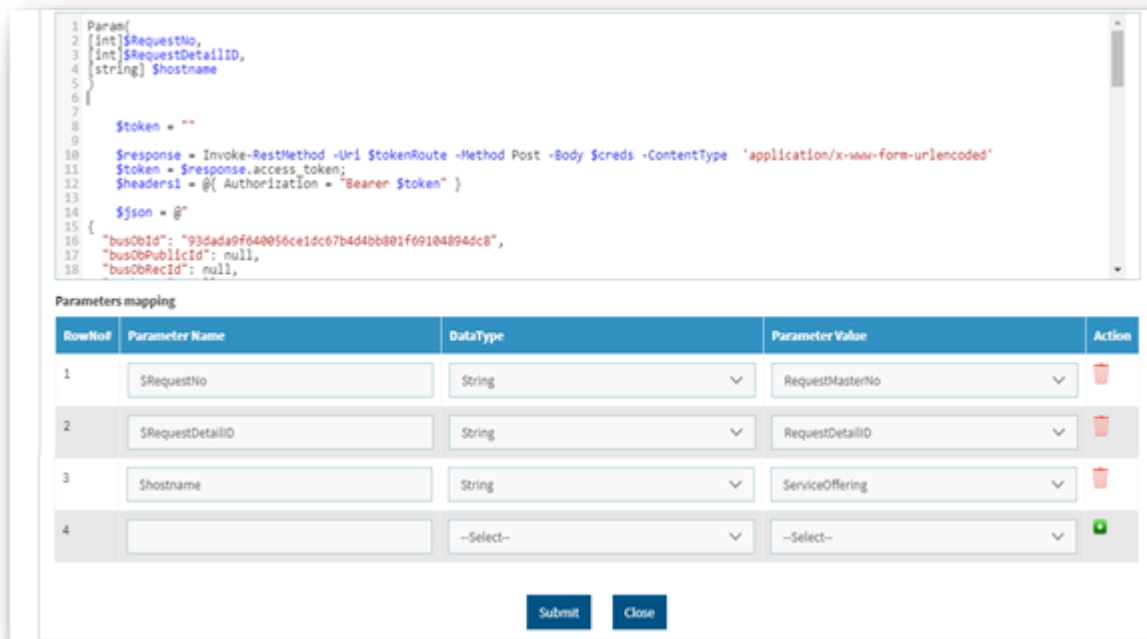
1. Enter **Key Name**.
2. Select **Data Type**.
3. Select/Enter key value based on the Data Type.
4. Invoke the Action button ().
5. Click **Submit**.

Parameter value

Parameter Value contains all control fields of dynamic UI associated with a process template. Mainly, it contains 2 unique fields of MyCloud which are RequestDetailID and RequestmasterNo.

It is used in various APIs which MyCloud supports for e.g., GetVMname, Update CI etc. For SQL function datatype all MyCloud predefined SQL functions will populate to map parameter names.

- c. Populate the fields and click Submit.
- **Custom Task:** When the task type is selected as Custom.
 - a. On clicking the Configure Task icon, a window pops up where provider user writes the PowerShell or Python Script to execute a task.



```

1 Param(
2 {int} $RequestNo,
3 {int} $RequestDetailID,
4 {string} $hostname
5 )
6
7
8 $Token = ""
9
10 $response = Invoke-RestMethod -Uri $TokenRoute -Method Post -Body $creds -ContentType 'application/x-www-form-urlencoded'
11 $Token = $response.access_token;
12 $headers1 = @{ Authorization = "Bearer $Token" }
13
14 $json = @"
15 {
16   "busObId": "93dada9f640056ce1dc67b4d4bb001f69104094dc8",
17   "busObPublicId": null,
18   "busObRecId": null,
19 }
20 "@
  
```

Parameters mapping

RowNo	Parameter Name	Data Type	Parameter Value	Action
1	\$RequestNo	String	RequestMasterNo	
2	\$RequestDetailID	String	RequestDetailID	
3	\$hostname	String	ServiceOffering	
4		--Select--	--Select--	

Submit Close

Figure 346 Configure Task (Custom)

- b. With the help of  icon, the Provider user adds all the dynamic variables of PowerShell with dynamic UI control values and [MyCloud Predefined SQL Function List](#).
- c. Click Submit to save the details. Click Close to discard the changes.
- d. A success message box appears if you choose to discard the changes. Click Ok



Figure 347 – Success Message

- e. On clicking Submit, the following screen appears.

Task View

Task Type *	Task *	Task Name *	Short Name *
--Select--	--Select--		
Task Execution Type *	Retry Count *	Timeout(In Mins.)*	Review Task
Auto	3	30	No
Review Columns	Async Task	Failure Email To	Failure Email CC
--Select--	No		
Failure Email BCC	Fail task on Timeout	Add Task	
	No		

S.No.	Task Type	Task Code	Task Name	Notify Success	Notify Failure	Move Group	Group Sequence	Move Task	Action
1	Custom	POWERSHELL	Clone				1		

Save

Figure 348 – Task View

- f. Click Save. A confirmation message appears as below:

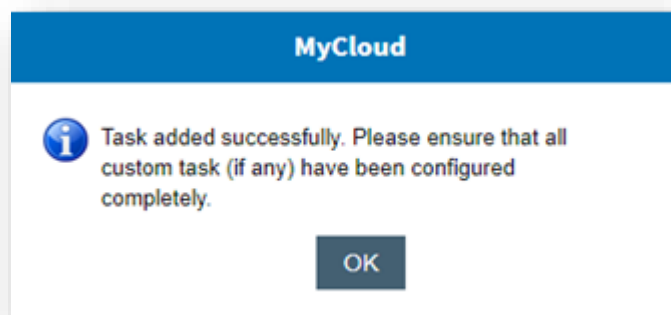


Figure 349 – Success Message

- g. Click Ok.

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

– **Success notification:**

In case of integration with the third party ITSM tools, you can configure success of each selected task to make it ITIL compliant integration process.

Notify Success function will help to notify the enterprise tool (e.g., itsm tool) about the success of the task. Notify success will notify ITSM tool that the task is successfully executed by MyCloud and can be closed by ITSM.

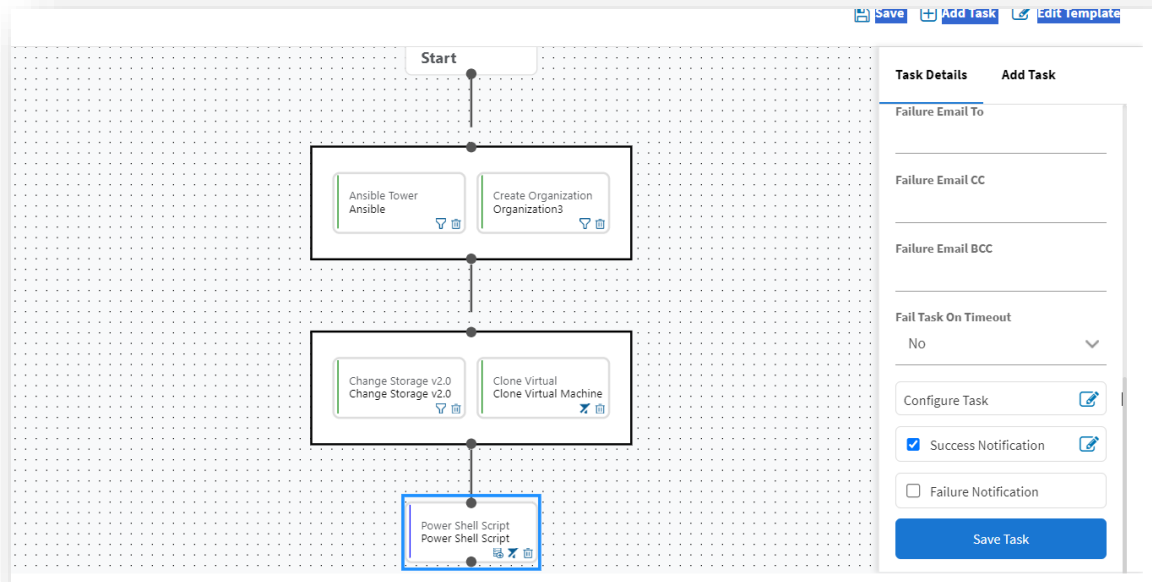


Figure 350 – Success Notification

- a. Click on the Success Notification icon () to execute it on the successful completion of the task in orchestrator engine of MyCloud.

The following window pops up where a user can configure the request and response in JSON through which MyCloud notifies the ITSM tool regarding the completion of a specific task.

Figure 351 – Notify Success

- b. Enter the **Name** of the configuration.
- c. Select the **Service Name** from the drop-down.
The drop-down lists all the ITSM configuration end points.
- d. **Request JSON**: Populate the field with a valid Request JSON.
It is a mandatory field and accepted by ITSM tool to close the task at its end. If it is a dynamic value (dynamic UI and captured by requester) then it needs to get communicated between MyCloud and ITSM tool. In such a case, request JSON values need to be mentioned with prefix “@”.

Request JSON format example:

```
{
  "Key1": "@Value1",
  "Key2": [{"k1": "@v1"}],
  "Key3": {"k2": "@v2"},
  "Key4": "@OperationRequestDetailId"
}
```

- e. After adding Valid Request JSON, click on Configure Request Parameter.
All dynamic parameters will get displayed under Request Parameter Mapping.

Configure Request Parameter

Request Parameters mapping

Parameter Name	Data Type	Parameter Value
@VALUE1	--Select--	--Select--
@V1	--Select--	--Select--
@V2	--Select--	--Select--
@OPERATIONREQUESTDETAILID	--Select--	--Select--

Figure 352 – Request Parameter Mapping

- f. Configure the Parameter Values.
- g. **Response JSON:** Populate the field with a valid Response JSON.

It is an optional parameter and provided by ITSM tool (JSON) to MyCloud. Through this, MyCloud understands whether a task has been completed or not.

Example of Response JSON:

```
{
  "Key1": "@Value1",
  "Key2": [{"k1": "@v1"}],
  "Key3": {"k2": "@v2"}
}
```

- h. Click on Configure Response Parameter.

Parameter Name	Data Type	Parameter Value
@Value1	--Select--	--Select--
@v1	--Select--	--Select--
@v2	--Select--	--Select--
@OperationRequestDetailId	--Select--	--Select--

Response JSON ⓘ

```
{
  "Key1": "@Value1",
  "Key2": [{"k1": "@v1"}],
  "Key3": {"k2": "@v2"},
  "Key4": "@OperationRequestDetailId"
}
```

Configure Response Parameter

Success Criteria

Parameters	Response Type	Value
@Value1	Static	

Submit

Figure 353 – Configure Response Parameter

- i. Clicking on Configure Response Parameter button displays the Success Criteria section and all the dynamic parameters prefixed with “@” in response JSON are displayed under Parameter Mapping.
 - j. **Success Criteria:** In this section, user defines, which parameter and corresponding value of MyCloud can mark task as completed from ITSM engine response.
 - k. **Response Type:** There are two types of response:
 - o **Static:** In case of Static response, predefined key, and its value for e.g., “Status” =” OK” of ITSM engine response will communicate to MyCloud to mark ITSM task (success/Failure) in MyCloud to close the task.
 - o **Dynamic:** In case of Dynamic response, ITSM tool will use the incident number to communicate with MyCloud for marking the ITSM task as closed.
 - l. **Value:** Enter the Parameter Value.
 - m. Click **Submit**.
- **Failure Notification:**
- In case of integration with third party ITSM Tools, configuring notification around “Failure of Tasks” will make the integration process an ITIL compliant.
- This option is being used for notifying the ITSM Tools to act when a task fails in MyCloud.
- a. Clicking the checkbox ensures that it will get executed on the failure of added tasks.
 - b. Clicking on icon () results in a window that pops up where a user can Add/Configure the process which will get executed in ITSM tool.
 - c. Please follow the similar steps as explained for Success Notification to configure Notify Failure.

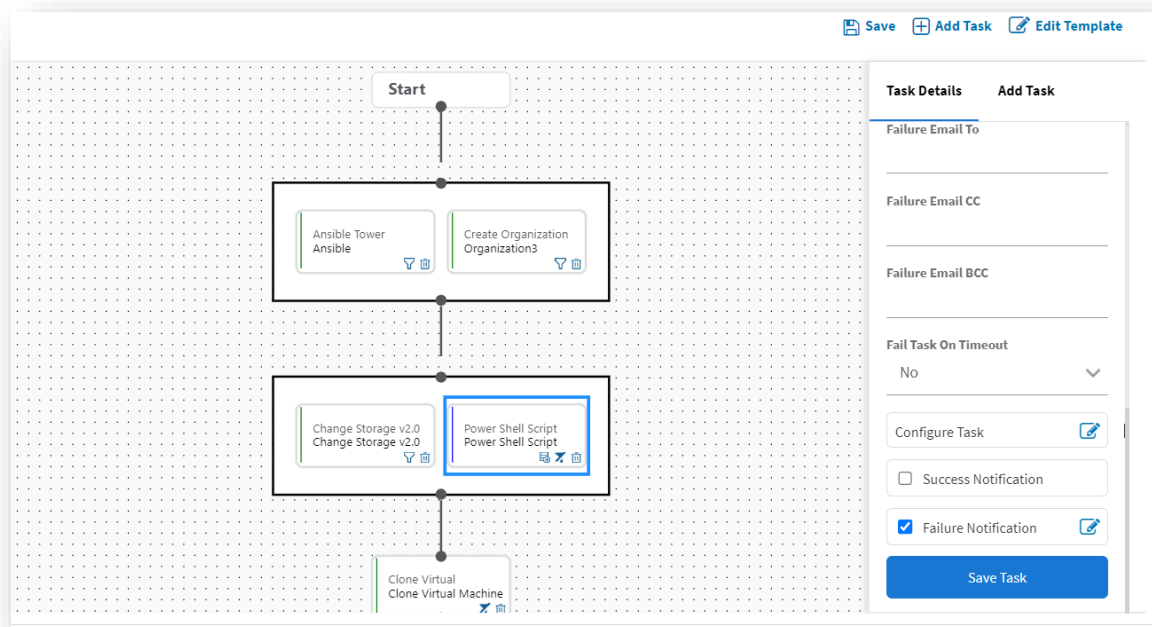


Figure 354 – Failure Notification

3.3.4.9 Manage Catalog

This section details out the process of managing a catalog.

It has following sections:

- Create Catalog
- View Catalog

3.3.4.9.1 Create Catalog

To create a catalog, Provider user needs to follow below steps:

1. On the Manage Catalog screen, click Create Catalog.

The screenshot shows the 'Manage Catalog' interface. At the top, there are two tabs: 'View Catalogs' and 'Create Catalog'. The 'Create Catalog' tab is selected. Below the tabs, there are several form fields. On the left, there is a 'Platform' dropdown menu with 'Amazon Web Services' selected, a 'Region' dropdown menu with 'US East (N. Virginia)' selected, and a 'Catalog Description' text area with 'Description-catalog' entered. On the right, there is a 'Provisioning Endpoint' dropdown menu with 'avintest' selected, a 'Catalog Name' text input field with 'catalog786' entered, and an 'Operating System' text input field with 'Windows Server 2008 Datacenter Edition' entered. At the bottom right, there are 'Save' and 'Cancel' buttons. Fields marked with an asterisk (*) are mandatory.

Figure 355 - Create Catalog

2. Select Platform and Provisioning Endpoint.
3. Select **Template**.
4. Select **Region**.
5. Enter Catalog Name and Catalog Description.
6. To activate new Catalog in a selected platform, select **Active**.
7. To add a Catalog, click **Save**.

Click Cancel to discard changes and all the fields marked with asterisk (*) are mandatory.

8. A success message box appears.

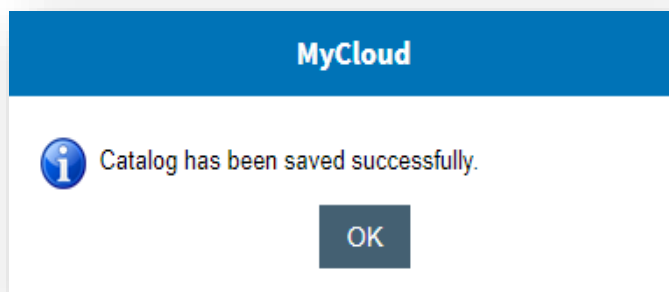


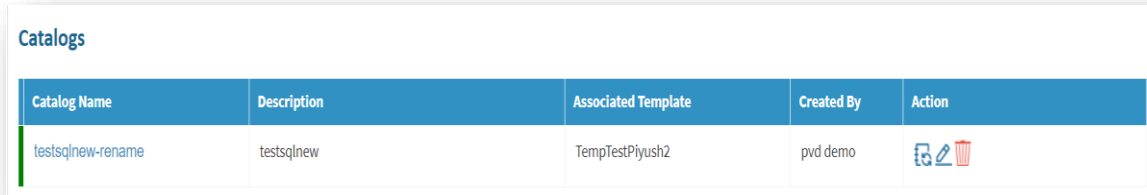
Figure 356 - Create Catalog Confirmation Message

9. The new catalog is created and appears in list of catalogs.

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

3.3.4.9.2 View Catalog

This section lists out all the catalogs that have been created by Provider user.



Catalog Name	Description	Associated Template	Created By	Action
testsqlnew-rename	testsqlnew	TempTestPiyush2	pvd demo	 

Figure 357 - View Catalog

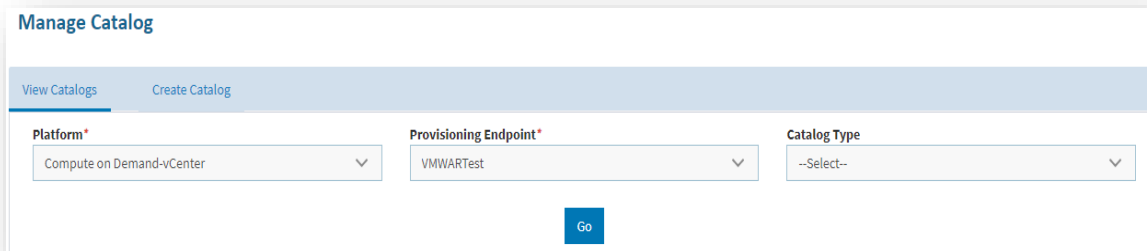
It also comprises of following actions:

- **Edit** (): To modify the details of existing Catalog.
- **Delete** (): To delete the Catalog.

3.3.4.9.3 Edit Catalog

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

1. On the Manage Catalog screen, click View Catalog.
2. Select Platform and Provisioning Endpoint.
3. Select Catalog Type.
4. Click **Go**.



Manage Catalog

View Catalogs Create Catalog

Platform* **Provisioning Endpoint*** **Catalog Type**

Compute on Demand-vCenter VMWARTest --Select--

Go

Figure 358 - Edit Catalog

5. Available catalogs list down in a tabular view.
6. Click Edit ().
7. Modify the details as desired and click **Update**.
8. Click **Cancel** to discard all changes.

Manage Catalog

View Catalogs Create Catalog

Platform *
Compute on Demand-vCenter

Region *
North India

Catalog Description *
testsqlnew

Provisioning Endpoint *
testNavinVM

Catalog Name *
testsqlnew-rename

Template *
TempTestPiyush2

Operating System
N/A

Update **Cancel**

Figure 359 - Edit Catalog (Cont.)

9. A success message box appears.

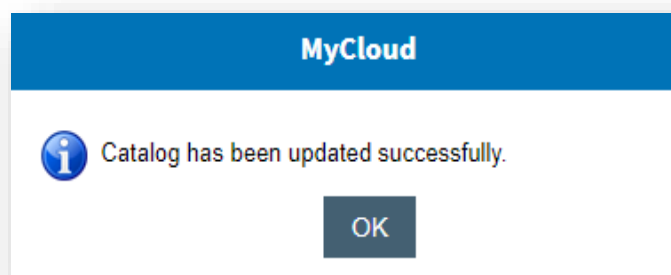


Figure 360 - Edit Catalog Confirmation Message

3.3.4.9.4 Delete Catalog

To delete a catalog from the platform, Provider user needs to follow the below steps:

1. On the Catalog pane, click Delete (🗑️).

Catalog Name	Description	Associated Template	Created By	Action
testsqlnew-rename	testsqlnew	TempTestPiyush2	pvd demo	 

Figure 361 - Delete Catalog

2. When prompted to confirm, click **OK**.

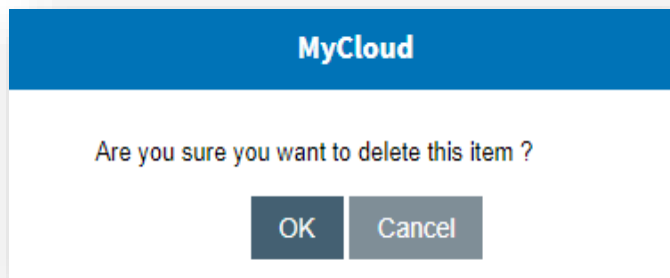


Figure 362 - Delete Catalog (Cont.)

3. A success message box appears.

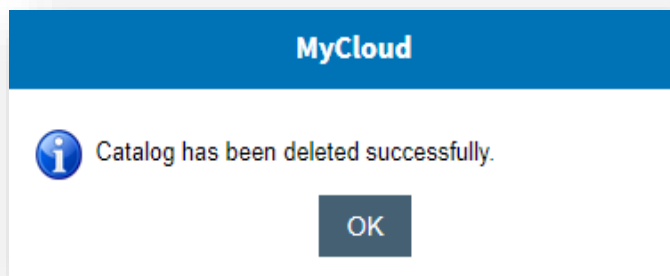


Figure 363 - Delete Catalog Confirmation Message

3.3.4.9.5 Change Status of Catalog

1. Click Change Status () against the catalog to change its status.
2. A popup appears for confirmation as shown below:

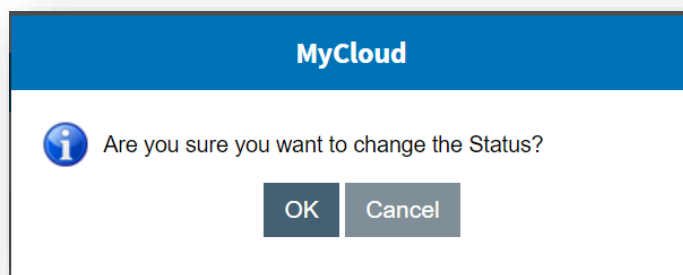


Figure 364 – View Catalog (Cont.)

3. Click **OK** to save the changes.
4. Click **Cancel** to discard the changes.
5. A success message box appears if the user selects OK.

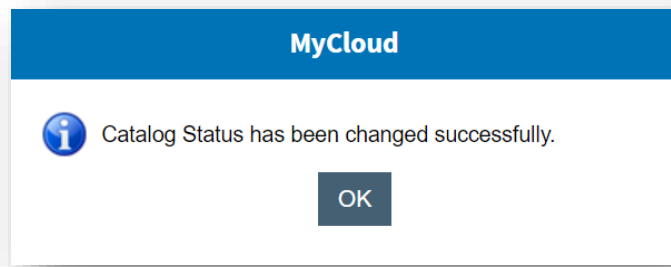


Figure 365 – Confirmation Message

4 Support

To get support for this product, drop a mail to MyCloud-ProdSupport-Team@hcl-software.com.

HCLSoftware

hcltechsw.com