

HCL Informix 15.0.0

Installing Informix



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Chapter 1. Installing Informix®

The *HCL® Informix® Installation Guide* describes how to install, configure, and initialize the HCL Informix® database server.

Typically, database administrators (DBAs) install the database server. The documentation assumes that you are familiar with the operating procedures of your computer and with your operating system.

Preparing for installation

Before you install Informix® database server products, you must prepare your system and plan for choices that you must make during the installation process.

About this task

Preparing for installation includes reviewing system requirements, planning how to upgrade, deciding on the installation owner and the installation directory, reviewing installation options, and gathering information if you want to create a database server during installation. It also includes preinstallation tasks such as obtaining the software and reviewing the machine notes.

To prepare for installation:

1. Obtain the software and configure a License Server to obtain licenses to run Informix.
2. Review the Informix components that can be installed with the database server.
You can install all of them or some of them.
3. Ensure that your computer meets the system requirements.
4. Choose a user account with which to install the product. The user account becomes the installation owner.
 - UNIX, Linux, Mac OS X: Decide between a non-root owner and an owner with root or administrative privileges.
 - If you plan to install as an administrative user, decide on a password for user **informix**.
5. Choose an installation directory.
If the database server is already installed, decide on the upgrade path.
6. Decide between a typical or custom installation.
 - a. Choose a typical installation in the following cases:
 - To install all database server components, HCL Informix® Client Software Development Kit, and the HCL Informix® JDBC Driver.
 - To create a configured database during installation with connectivity for JSON applications and multiple storage spaces for data.
 - b. Choose a custom installation if you want to have any of the following options:
 - To install a subset of database server components.
 - To choose which client products to install.
 - In root-based installation, to set up event auditing for the security policies of your organization.

- To create a configured database server during installation with one storage space for data.
- To prepare a response file for a non-interactive installation.

Depending on your operating system, you can choose other types of installations that have similar options to a custom installation. UNIX, Linux, Mac OS X: You can choose the Legacy installation to prepare a script-based installation. Linux: You can choose the RPM installation to generate an RPM package.

Results

Log files are created during the installation process. You can use the log files to troubleshoot installation errors.

What to do next

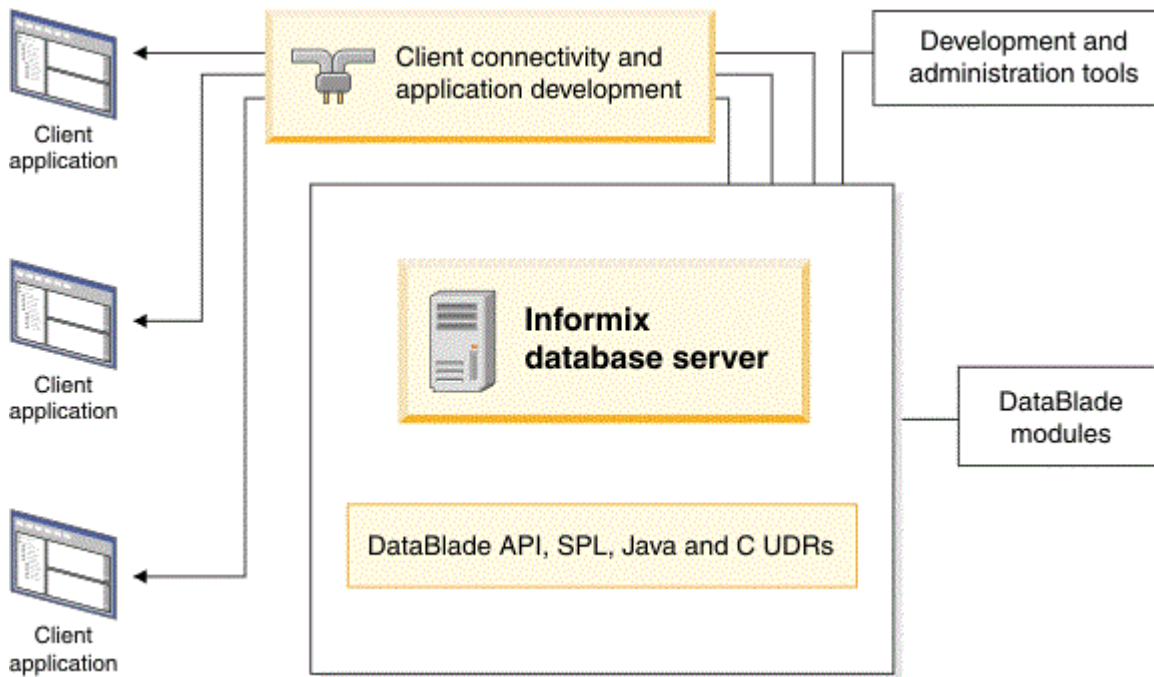
After you install the database server, you can create the demonstration databases that are included with the database server. Many examples in the documentation and in the `$INFORMIXDIR/demo` (UNIX, Linux, Mac OS X) or the `%INFORMIXDIR%\demo` (Windows) directory are based on the demonstration databases. You can use the demonstration databases to explore database server features. You can create the demonstration databases at any time after installation by running the `dbaccessdemo` command.

Informix® components

When you install the HCL Informix® database servers, you can also install related products, such as client APIs and other IBM® products.

The following diagram provides an overview of the base architecture of the Informix® database server and related products.

Figure 1. Architecture of Informix® database server and related products



Depending on your edition of Informix® and your operating system, the product package includes installation programs for some or all of the following associated products:

HCL Informix® Client Software Development Kit

Contains client APIs for developing and running client applications.

HCL Informix® JDBC Driver

Java™ interfaces and classes to connect to Informix® databases.

Software Requirements

Before you install the HCL Informix® server, make sure that your computer meets these software requirements.

Operating system requirements

Install the required operating system patches and library files that are listed in the machine notes for your operating system in the doc directory of the media files before installation.

UNIX™, Linux™: The directory on which you plan to install the database server must be local or an NFS-mounted file system with regular operating-system files.

Windows™: The drive on which you plan to install the database server must be formatted with NTFS and must have 8.3 file name creation enabled. Turn off User Account Control (UAC) security before you install the database server.

HCL Informix® Client SDK and Server 1.0 is certified to run on 64-bit versions of these operating systems:

Table 1.

Operating System	Version
Linux x86-64	RHEL 7.4 / CentOS 7.4 <ul style="list-style-type: none"> • Base kernel version 3.10.0 • Glibc version 2.17 • Compiler 4.8.5
	RHEL 8 <ul style="list-style-type: none"> • Base kernel version 4.18.0 • Glibc version 2.28 • Compiler 8.2.1
	SuSE SLES 12 <ul style="list-style-type: none"> • Minimum service pack 3 • Base kernel version 4.4.73

Table 1. (continued)

Operating System	Version
	<ul style="list-style-type: none"> • Glibc version 2.22 • Compiler 4.8.5 <p>SuSE SLES 15</p> <ul style="list-style-type: none"> • Base kernel version 4.12.14 • Glibc version 2.26 • Compiler 7.3.1 <p>Ubuntu 16.04 LTS</p> <ul style="list-style-type: none"> • Base kernel version 4.4.0 • Glibc version 2.23 • Compiler 5.4.0 <p>Ubuntu 18.04 LTS</p> <ul style="list-style-type: none"> • Base kernel version 4.15 • Glibc version 2.27 • Compiler 7.5 <p>Ubuntu 20.04 LTS</p> <ul style="list-style-type: none"> • Base kernel version 5.4 • Glibc version 2.31 • Compiler 9.3
AIX	7.2
Windows	<p>Windows 2016</p> <p>Windows 2019</p> <p>Windows 10</p>
Solaris Sparc	Solaris 11
Power Linux-Little Endian	RHEL 7

Application software required to run/install Server

Table 2.

Operating System	Version
Linux	OpenSSL any of the supported versions 1.0.2, 1.1.0 or 1.1.1.
AIX	OpenSSL 1.0.2 is required
Java8	<p>JRE is required to install HCL Informix. Some components of HCL Informix also require Java8</p> <p>Windows install requires a 1.8.0 JRE</p> <p>Linux/AIX install requires a 1.8.0 or later JRE</p>

Installation owner

The owner of the database server depends on the privileges of the user who runs the installation application. The owner of the server creates and controls all other user accounts that can access the database server.

The standard way to install the database server is as a superuser with administrative privileges. The installation application creates the user **informix**. User **informix** is a user account with main authority over the database server instance.

UNIX, Linux, Mac OS X: If you install the database server as a non-administrative, or non-root, user, you become the owner of the database server. In this case, user **informix** is not created. You cannot change the owner of the database server. You cannot convert or upgrade a non-root installation to a standard, root-based installation, and vice versa.

User informix

User **informix** is required for root-based installations because it has the unique user identifier (UID) to manage and maintain database server instances and databases on the host server.

UNIX™, Linux, Mac OS X: User **informix** is a member of the group **informix**. On UNIX™ or Linux™, if group **informix** exists on your system, but user **informix** does not exist, you must create user **informix** before you install the database server.

Windows™: User **informix** is a member of the Informix-Admin group and the Administrators group. In most cases, the installation application automatically creates the user **informix** and the group **informix** or Informix-Admin group. User **informix** can log on as a service and act as part of the operating system.

If you are installing the database server for the first time on your system, the installation application prompts you to provide a password for the **informix** user. If user **informix** exists on your system, the installation application prompts you to confirm the password.

The password for the **informix** user account must be protected. Let only trusted database and security administrators log in as user **informix**.



Important: The database server does not start if password standards for user **informix** or any other users do not conform to local security standards.

UNIX, Linux, Mac OS X: Non-administrative, or non-root owner

If you run the installation application as a non-administrative user, that user is the *non-root owner* of the installation and has database server administrator (DBSA) privileges over the database server.

The installation directory must be on a local file system if you plan to use onipcstr connections because you cannot create a named domain socket on a non-local file system.

A non-root installation is appropriate in the following situations:

- You plan to embed the database server in an application that is to be deployed on other computers where you either do not want a root-level installation or you want non-administrative users to install the application.
- You do not have or do not want to use root user credentials for the Informix® database server installation.
- You are developing a virtual appliance.

If you install the database server without root privileges, you cannot use the following features and tools:

- Enterprise Replication for servers that have different owners
- High-availability clusters
- Auditing through role separation
- The ON-Bar utility for backing up and restoring data

Encrypted connections and column-level encryption (CLE) are supported only if the required security-layer plug-in is installed separately on the host computer.

Creating the group informix and user informix (UNIX, Linux)

In a few situations during a root-based installation, you must create the group **informix** and user **informix** before you install the database server on UNIX or Linux operating systems.

Before you begin

You must have root authority to create users or groups.

About this task

You must create the objects before you start the installation application in the following situations:

- You want to specify a particular identifier (ID) number.
- The group **informix** exists on the system; however, the user **informix** does not. In this case, you must create only user **informix**.

To create the objects:

1. If necessary, create the group **informix** by using the following command, where *n* is a unique identifier (ID) greater than 100:

Choose from:

- AIX: `mkgroup -a n informix`
- UNIX, Linux: `groupadd -g n informix`

2. Create the user **informix** by using the `useradd` command, where *n* is a unique identifier (ID) greater than 100:

Choose from:

- `useradd -u n -g informix informix`

Result



Important: Add users to the group **informix** only if the users need administrative access to the database server.

3. Create a password for user **informix** by using the `passwd` command.

Installation directory

You can use the default installation directory for the database server when you run the installation application, or you can create a directory before you install and then select that directory during installation.

The installation directory is known as the `INFORMIXDIR` directory because the environment variable **INFORMIXDIR** is set to the installation directory.

The directory where you install Informix® products must fulfill these requirements:

- The directory must be empty, except in the following situations:
 - You are upgrading to a fix pack of the same version.
 - You accept the risks of upgrading to a new version by replacing the existing version.
- The full path to the installation directory must not exceed 200 characters, including path separators, and must not contain spaces. UNIX™, Linux, Mac OS X: The directory for a non-root installation must not exceed 60 characters.
- The installation path, including all path elements, must be secure before the database server can start.



Important: The database server will not start unless the installation directory is secure.

UNIX™, Linux™, Mac OS X: If the installation application finds a security issue with the installation directory, you must choose one of the following methods to secure the directory:

Let the installation program secure the path (recommended)

The installation continues and generated script fixes nonsecure directories along the installation path.

Continue installation; manually run script to secure the path later

After installation is complete, you must run the `onsecurity` utility to generate a security script, and then run the security script. The `onsecurity` utility is in the `/SERVER/` directory on the installation media. After installation, you can find the utility in the `$INFORMIXDIR/bin` directory.

View other options to make the installation directory secure

You must select how to reset the permissions for the owner, group, and installation directory. You must understand what constitutes a secure installation path in your environment, including the requirements of user **informix** and group **informix**.

Installation options

The primary way to install the Informix® database server is with an interactive installation that prompts you to configure installation properties. After you run an interactive installation, you can run non-interactive installations that are based on the original installation.

Interactive database server installation setup options

An interactive database server installation has the following setup options:

Typical installation

Recommended. You install the database server with all associated components, HCL Informix® Client Software Development Kit, and the HCL Informix® JDBC Driver.

Custom installation

You can minimize the size of the database server on disk by excluding unneeded features and products.

You can choose which client products to install. To determine whether you need to install client products, see *Informix® Client Products Installation Guide*.

You can set up auditing through role separation.

You can prepare for a silent installation by creating a response file.

UNIX, Linux, Mac OS X: Legacy installation

You have the same options as a custom installation, plus the product files are extracted to create a script-based non-interactive installation.

Linux: RPM installation

You have the same options as a custom installation, plus an RPM image is generated to create an RPM non-interactive installation.

For all setup options, you have the following choices:

- Whether to create a configured database server during installation. The database server that is created during installation differs slightly for a typical or custom installation. If you do not create a database server during installation, you must manually configure and start the database server after installation.
- The location of the installation directory.
- The identity of the installation owner.

Non-interactive installation methods

Non-interactive installation methods, such as a silent installation or a script-based installation, are based on the results of interactive installation or on an existing database server installation.

Event auditing

If you choose a custom setup, you can enable event auditing. Event auditing tracks selected activities that users perform. You can improve the security of your event-auditing procedures by configuring role separation, which provides members of certain group identifiers (group IDs) on your system the privileges to manage and examine auditing records. Role separation provides increased database security because the database server separates administrative tasks into mutually exclusive roles.



Important:

- Role separation is not supported in a non-root installation.
- You must select custom installation setup to enable role separation.
- If you enable role separation, you cannot turn it off after the database server is installed. To remove role separation, you must uninstall the database server and reinstall it without role separation.

UNIX™, Linux™, Mac OS X: Role separation

If you do not enable role separation, the **informix** group has privileges to perform all administrative tasks.

Role separation provides two roles:

Database System Security Officer (DBSSO)

Controls what the auditing subsystem monitors and which actions database users can perform.

Auditing Analysis Officer (AAO)

Controls whether auditing occurs, maintains the audit log files, and analyzes the audit records.

The **informix** group is the default group that is associated with the two roles. During installation, you can replace the default groups with existing groups.

After installation is complete, establish an audit-only user account for each individual who acts as a DBSSO or AAO. For example, a person with DBSSO responsibilities can have the user **DBSSO1** account, and also have the user **garcia5** account for general database server access.

Windows™: Role separation

If you do not enable role separation, the **Informix®-Admin** group has privileges to perform all administrative tasks.

If you enable role separation during installation, you are prompted to create groups and users and add the users to the corresponding groups. During installation, you can replace the default users and groups with existing users or groups.

Table 3. Role separation

Header	Header	Header
Informix® Administration	General Database Administration	Performs general administrative tasks, such as archiving and restoring data, monitoring use and performance, and tuning the system.
ix_dbssso	Database System Security Officer	Maintains the security of the database server. Functions of this role include audit adjustment and changing security characteristics of storage objects. Creation of this user role requires selection of a password during installation.
ix_aao	Auditing Analysis Officer	Audits the records of specific types of database activities. If someone attempts to circumvent or corrupt the security mechanism of the database, these actions can be traced. Creation of this user role requires selection of a password during installation.
ix_users	Database Users	Accesses the database to perform user tasks. Only users who are designated as members of the ix_users group can access the database.

Exclude database server components

If you choose a custom setup, you can minimize the size of the database server on disk by excluding some components. Reducing the size of the installation can be useful if you plan to embed the database server in other systems or applications.

The Informix® database server consists of discrete, separately installable components. You can select to install only the database server components that your application and deployment require. For example, you might not need replication capabilities. Some components are mutually dependent, and must coexist in the instance. The installation application enforces these dependencies by automatically including dependent components or informing you when a combination of selections is not supported.

You can easily modify your installation by adding or removing separately installable components after the database server is installed without installing the base database server again. Adding or removing components after you installed the database server does not affect the integrity of your system. However, all Informix® components must run on the same version as the core database server.

Database server configuration during installation

You can choose to create and configure a database server during installation. The database server is configured by the choices that you make in the installation application. After installation is complete, disk space for the database server is initialized and the database server is started.

All mandatory configuration parameters and environment variables are set and default connectivity information is configured. The database server is also configured to require minimal administration. The database server is configured to automatically tune resources for performance, which include expanding the buffer pool, the logical logs, and the physical log, and increasing virtual processors. You can further customize the database server by setting other configuration parameters and environment variables.



Important: If you plan to use a locale or language other than the default (US English), set the appropriate global language support (GLS) environment variables before you create a database. For example, to prevent server and collation problems, it is crucial to set the GL_USEGLU environment variable correctly. The same Unicode collation must be used for the database and the client application environment.

The following storage spaces are created for an installation of the database server:

- A root dbspace to contain control and tracking information
- An extendable plogspace for the physical log
- A dbspace for the logical logs
- A temporary dbspace
- An sbspace
- A temporary sbspace
- Dbspaces for data:
 - Typical installation: Three extendable dbspaces with the default page size, and three extendable dbspaces with an 8 KB page size
 - Custom installation: One dbspace with the default page size

The sizes of the spaces are based on the number of expected users that you specify during the installation. The spaces are not encrypted. You can encrypt the storage spaces that are created during installation by enabling storage space encryption, running a backup, and then running a restore that encrypts the spaces.

If you run a typical installation, the server is configured with a JSON wire listener for connections to MongoDB applications. The JSON wire listener is started, and connected to the database server through the **ifxjson** user.

Windows: A program group for the database server is created from which you can open a command prompt for the server, start the Server Instance Manager, uninstall the database server, or view documentation.

Running an interactive installation

You can install the Informix® database server by running the interactive installation application. You can choose a typical or a custom setup.

Before you begin



Important: If you want to create a response file to use as a template for installing the database server on other computers, follow the procedure in [Preparing a response file on page 15](#).

Before you install the database server, complete the following tasks:

- [Prepare your system for installation on page 3](#).
- Log in as the appropriate user to be the owner of the database server.

About this task

You can include options to the installation command if you run the command from the command line. For example, you can change the name or location of the installation log file.

To install Informix®:

1. Start the installation application from the media directory.

Choose from:

- UNIX™, Linux™:

- a. If necessary, extract the product files. For example, run the tar command:

```
tar xvf filename
```

The *filename* is the name of the product tar file.

- b. Run the following command: `ids_install`

- Windows™: Double-click the `ids_install.exe` file.

2. Select the setup method, for example, **Typical** or **Custom**, and follow the instructions in the installation application.
3. Complete the installation and exit the installation application.

Results

Log files are created during the installation process. You can use the log files to troubleshoot installation errors.

If you created a database server during installation, the database server is configured, initialized, started, and ready for client connections. To see the connectivity information, look at the `sqlhosts` file. To see the configuration information, look at the `onconfig` file. Both files are in the `$INFORMIXDIR/etc` (UNIX, Linux, Mac OS X) or the `%INFORMIXDIR%\etc` (Windows) directory. You can customize the database server properties by setting configuration parameters in the `onconfig` file, setting environment variables in your environment, and adding connectivity information to the `sqlhosts` file.

What to do next

If you did not create a database server during installation, you must configure and initialize the database server.

Running non-interactive installations

You can run non-interactive installations after you first run an interactive installation during which you create an installation template.

A silent, or unattended, installation requires that you create a response file, copy the product installation files and the response file to the target computer, and then run the silent installation command. The response file acts as a template for the silent installation.

UNIX, Linux, Mac OS X: A scripted installation requires that you copy an existing product installation directory to the target computer and run a script.

If you use Enterprise Replication or high-availability clusters, you can create a server clone from a snapshot of an existing database server with the `ifxclone` utility.

If you plan to embed Informix® products in your application, you can use one of the following methods to deploy the database server:

- You can use the deployment utility to deploy snapshots of preconfigured database servers on one or more computers. A snapshot is an image of a database server that includes the installation directory, configuration settings, and any data spaces that are associated with the instance. The installation can be a working instance, or an installation that you set up as a template from which to deploy the instance on other computers. You can use the deployment assistant to customize the snapshot.
- Linux: You can run an RPM installation to create an RPM image of a customized database server installation, and then deploy the image through a silent installation.

Preparing a response file

Before you run a silent installation, you must run an interactive installation to create a response file. The response file contains information about how to install the database server on other computers that have the same basic type of operating system: either a UNIX operating system (including Linux and Mac OS X), or a Windows operating system.

Before you begin

Before you start the interactive installation, complete the following tasks:

- [Prepare your system for installation on page 3.](#)
- Log in as the appropriate user to be the owner of the database server.

About this task

The response file contains installation settings for a product and its features. You have the following choices for the response file:

Default response file

The default response file, `bundle.properties`, produces a typical installation. The `bundle.properties` file is in the top directory of the installation media. You must either edit the `bundle.properties` file to set the `LICENSE_ACCEPTED` property to `TRUE`, or include the `-DLICENSE_ACCEPTED=TRUE` option in the silent installation command.

Response file that is generated by an interactive installation

A generated response file contains the installation settings of a custom interactive installation. Use the response file to run a silent installation on another computer.

If you chose to create a database server during this installation, the database server is also created and configured when you run the silent installation.

To generate a custom response file:

Run the installation command with the `-r` option and specify a path and name for the response file:

- UNIX™, Linux™:
 - a. If necessary, extract the product files by running the following command, where *filename* is the name of the product tar file: `tar xvf filename`
 - b. Run the following command: `ids_install -r response_file_path`
- Windows™: Run the following command from a command prompt: `ids_install.exe -i gui -r response_file_path`

Results

Log files are created during the installation process. You can use the log files to troubleshoot installation errors.

If you created a database server during installation, the database server is configured, initialized, started, and ready for client connections. To see the connectivity information, look at the `sqlhosts` file. To see the configuration information, look at the `onconfig` file. Both files are in the `$INFORMIXDIR/etc` (UNIX, Linux, Mac OS X) or the `%INFORMIXDIR%\etc` (Windows) directory. You can customize the database server properties by setting configuration parameters in the `onconfig` file, setting environment variables in your environment, and adding connectivity information to the `sqlhosts` file.

What to do next

After the custom response file is generated, you can use it to run a silent installation on another computer.

If you did not create a database server during installation, you must configure and initialize the database server.

Running a silent installation

You can run a silent installation command that does not require interaction.

Before you begin

Before you start a silent installation, complete the following tasks:

- [Prepare your target systems for installation on page 3.](#)
- Log in as the appropriate user to be the owner of the database server.
- [Prepare a response file on page 15.](#) You need different response files for UNIX-style operating systems and Windows operating systems.

About this task

On each target computer, you can edit the response file to customize the silent installation in the following ways:

- Accept the license. Include the LICENSE_ACCEPTED=TRUE property.
- Bypass operating system prerequisite checks. Use with caution. Include the PRQCHECK=FALSE property.
- Set the installation path. Include the USER_INSTALL_DIR=*path* property.
- Overwrite existing product installations. Use with caution. Include the OVERWRITE_PRODUCT=TRUE property.
- Create and start a database server during installation. Include the IDS_INSTANCE_CREATE=1 and IDS_INSTANCE_INIT=1 properties.

To run a silent installation on each target computer:

1. Copy the response file and the installation media to the computer where you want to install the database server.
2. Run the silent installation command, specifying the absolute path to the response file after the `-f` option:

Choose from:

- UNIX, Linux, Mac OS X: `ids_install -i silent -f response_file_path`
- Windows: `ids_install.exe -i silent -f response_file_path`

You can include some of the silent installation properties in the command instead of setting them in the response file.

3. Complete any applicable postinstallation tasks, including initiating the disk space when you start the server for the first time.

If you choose to create and start a database server during installation, the database server is configured, initialized, started, and ready for client connections.

Results

Log files are created during the installation process. You can use the log files to troubleshoot installation errors.

Example

Example

The following silent installation command specifies the default response file in the *media_dir* directory, specifies an installation directory of `opt/IBM/Informix` with the `-DUSER_INSTALL_DIR` property, and accepts the license with the `-DLICENSE_ACCEPTED=TRUE` property:

```
ids_install -i silent -f media_dir/bundle.properties
-DUSER_INSTALL_DIR=opt/IBM/Informix -DLICENSE_ACCEPTED=TRUE
```

Installation command syntax

You can include options to the installation command when you run the command from the command line.

Log in as the appropriate user to be the owner of the database server to run this command.

Syntax

```
{ids_install | ids_install.exe } -i {{ console | [gui] }} [ -r response_file_path ] [ -DLEGACY=TRUE ] | silent  
-r response_file_path <Silent installation options> [ -DDEBUG_LEVEL=level ] [ -DDEBUG_FILE=debug_file_path ] [  
-DLOG_FILE=log_file_path ] [ -help ] (explicit id unique_16_Connect_42_ulm) unique_16_Connect_42_ulm (explicit id unique_16_Connect_42_win)  
unique_16_Connect_42_win
```

Silent installation options

```
" [ -DLICENSE_ACCEPTED=TRUE ] "  
"  
" [ -DOVERWRITE_PRODUCT=TRUE ] "  
"  
" [ -DPRQCHECK=FALSE ] "  
"  
" [ -DUSER_INSTALL_DIR=path ] "
```

Parameters


You can set properties on the installation command line that are useful for specific environments or installation methods. The values TRUE and FALSE are case-sensitive.

The following table describes the installation application options.

Table 4. Installation options

Option	Meaning
-DDEBUG_FILE=debug_file_path	Specifies the full path and name of the debug file. If tracing is enabled, the default name and location of the file is /tmp/iad_dbg.log (UNIX™, Linux™, Mac OS X) or \tmp\iad_dbg.log (Windows™).
-DDEBUG_LEVEL=level	Specifies the level of tracing detail in the debug file. Possible values for level are 1 - 9, with 9 being the greatest level of tracing detail. By default, tracing is disabled.
-DLEGACY=TRUE	UNIX™, Linux™, Mac OS X: Extracts the product files from the installation media to create a script-based redistribution to other computers. For instructions, see Redistributing Informix with scripts (UNIX, Linux).
-DLICENSE_ACCEPTED=TRUE	Accepts the product license terms during a silent installation instead of indicating acceptance in the response file.
-DLOG_FILE=log_file_path	Specifies the full path and name of the installation log file. The default name and location of the installation log file is /tmp/iad_act.log (UNIX™, Linux™, Mac OS X) or \tmp\iad_act.log (Windows™).

Table 4. Installation options (continued)

Option	Meaning
-DOVERWRITE_PRODUCT=TRUE	Specifies to overwrite an existing product installation during a silent installation. Otherwise, the installation application exits if it finds an existing product installation.
-DPRQCHECK=FALSE	<p>Specifies to bypass the operating system prerequisites check during a silent installation.</p> <p> Important: Use with caution. Disabling the prerequisites check might result in an installation that does not function properly.</p>
-DUSER_INSTALL_DIR= <i>install_path</i>	Specifies the installation path during a silent installation instead of specifying the path in a response file. Replace <i>install_path</i> with the absolute path to the installation directory.
-help	Displays list of supported options and their functions.
-i gui	Starts the installation program in GUI mode.
-i console	UNIX™, Linux™, Mac OS X: Starts the installation program in console mode.
-i silent -f <i>response_file_path</i>	<p>Starts a silent installation that uses an existing response file. The <i>response_file_path</i> specifies the absolute path and file name for the response file.</p> <p>For instructions, see Running a silent installation on page 16.</p>
-r <i>response_file_path</i>	<p>Creates a response file that is required for a silent installation. The <i>response_file_path</i> variable specifies the absolute path and file name for the response file. For more information, see Preparing a response file on page 15).</p> <p>Do not name your response file <code>bundle.properties</code> or <code>ids.properties</code>.</p>

Unsupported options

The installation user interface is based on the InstallAnywhere framework; however, the `ids_install` command does not support the following options:

- -add
- -remove
- -repair
- -uninstall

To remove your installation, use the procedures that are recommended for your operating system.

Installation troubleshooting

Installation log files and return codes can provide helpful information about a completed installation or help you identify problems encountered during an installation attempt.

Tracing

Tracing is not enabled by default. You can enable tracing, set the level of tracing detail that is logged, and set the location of the debug files. To do so, include the `-DDEBUG_LEVEL` and `-DDEBUG_FILE` options with the [installation command on page 17](#).

Log files

When you install the database server, the installation application generates log files in the same directory as the installation media. You can change the default location of your log files and enable tracing during installation.

Installation and deployment log file

The installation and deployment log file, `iad_act.log`, is created by the installation application when you install products in the Informix® software bundle.

- UNIX™, Linux™, Mac OS X: `/tmp/iad_act.log`
- Windows™: `\tmp\iad_act.log`

Standard output and standard error log files

The stdout and stderr log files contain important information that you can use to debug installation failures.

- UNIX™, Linux™, Mac OS X: `/tmp/bundle_install.stdout` and `/tmp/bundle_install.stderr`
- Windows™: `\tmp\bundle_install.stdout` and `\tmp\bundle_install.stderr`

Client products have separate log files.

InstallAnywhere log file

The InstallAnywhere log file contains information that is generated by the InstallAnywhere framework.

- UNIX™, Linux™, Mac OS X: `$INFORMIXDIR/IBM_Informix_version_Install_date.log`
- Windows™: `%INFORMIXDIR%\IBM_Informix_version_Install_date.log`

If the installation application fails, the InstallAnywhere log files are placed in the following directories:

- UNIX™, Linux™, Mac OS X: home directory
- Windows™: Desktop

InstallAnywhere return code (UNIX™, Linux™, Mac OS X)

You can check the InstallAnywhere return code, also known as the *exit code*, after running the installation application to learn more about the installation status and possible error conditions. To retrieve the return code, run this command after the installation application finishes:

```
echo $?
```

For information about the InstallAnywhere return code, see the documentation at the Flexera Software web site: <http://www.flexerasoftware.com>.

Creating a database server after installation

You create a database server by setting mandatory database server properties and then starting the database server.

To create a database server:

1. Configure the mandatory properties of the database server.
 - a. Set configuration parameters in the `onconfig` file.
 - b. Add connectivity information in the `sqlhosts` file and other connectivity files.
 - c. Set environment variables in your environment.



Tip: On Windows operating systems, you can use the Server Instance Manager to configure the mandatory properties of the database server instead of editing the `onconfig` and `sqlhosts` file and setting environment variables.

2. **Optional:** Configure the wire listener for MongoDB API and REST API support.
3. Initialize disk space for the database server when you start the database server for the first time. Disk space initialization creates the initial chunk of the root dbspace, which stores control and tracking information.



Attention: Do not initialize the disk space if you are upgrading from a previous version of the database server and you are using the same root dbspace. Initializing disk space deletes all existing user data and tracking information in the root dbspace.

Choose from:

- UNIX™, Linux™, Mac OS X: Run the `oninit -i` command.
- Windows™: In the database server properties dialog box from the Services application, add `-i` in the **Start Parameters** field and click **Start**.

Results

The database server is started with disk space initialized.

Windows: A program group for the server is created from which you can open a command prompt for the database server, start the Server Instance Manager, uninstall the database server, or view documentation.

After you start the database server, you can set optional configuration parameters, environment variables, and connectivity settings.

Setting configuration parameters

You set configuration parameters that control database server behavior in the `onconfig` file. The `onconfig` file is a text file that you create based on a template file. The `onconfig` file contains many configuration parameters, but most have default values and can be set while the database server is running.

About this task

Use the template configuration file, `onconfig.std`, as a basis for your configuration file. The `onconfig.std` file contains most configuration parameters set to default values. The `onconfig.std` file is in the `$INFORMIXDIR/etc` directory (UNIX, Linux, Mac OS X) or `%INFORMIXDIR%\etc` (Windows) directory.



Important: Do not modify or delete the `onconfig.std` file, which is a template and not a functional configuration.

To create an `onconfig` file and set the mandatory configuration parameters:

1. Copy the `onconfig.std` template file and save the file with a unique name, such as `onconfig.servername`, in the `$INFORMIXDIR/etc` directory (UNIX, Linux, Mac OS X) or `%INFORMIXDIR%\etc` (Windows) directory.
2. Modify your `onconfig` file.

You can use several different methods to edit the `onconfig` file, including using a text editor.

At minimum, set the following configuration parameters:

- **DBSERVERNAME:** Set to the name of the database server.
- **ROOTPATH:** Set to the location of the root dbspace, which contains control and tracking information for the database server.
- **SERVERNUM:** Set to a unique number for the database server. If you do not have another database server on the same computer, you can leave the default value of 0.
- **LICENSE_SERVER:** Set to the License Server URL used to obtain the necessary licenses to run Informix

Results

When you set environment variables, set the **ONCONFIG** environment variable to the name of your customized configuration file.

If you omit a parameter value in your copy of the configuration file, the database server either uses default values from the `onconfig.std` template file or calculates values based on other parameter values.

Preparing connectivity files

Prepare the files that the database server uses to communicate with client applications and with other database servers.

About this task

The connectivity information allows a client application to connect to any HCL® Informix® database server on the network. The connectivity data for a particular database server includes the database server name, the type of connection that a client can use to connect to it, the host name of the computer or node on which the database server runs, and the service name by which it is known.

You must prepare the connectivity information even if the client application and the database server are on the same computer or node. You are not required to specify all possible network connections in the `sqlhosts` file before you start the database server. However, after you add connectivity information to the `sqlhosts` file, you must restart the database server to make the new connection available.

To add connectivity information:

1. Edit the `sqlhosts` file to include the correct connectivity information with a text editor or equivalent tool.
 - The default name and location of this file is `$INFORMIXDIR/etc/sqlhosts` (UNIX, Linux, Mac OS X) or `%INFORMIXDIR%\etc\sqlhosts` (Windows).
 - If you set up several database servers to use distributed queries, use either one `sqlhosts` file to which the **INFORMIXSQLHOSTS** environment variable points or separate `sqlhosts` files in each database server directory.
2. If your system uses Internet Protocol network connections, enter settings in the following files:

Choose from:

 - UNIX, Linux, Mac OS X: The `/etc/hosts` and `/etc/services` files.
 - Windows: The `%windir%\system32\drivers\etc\services` file.

Setting environment variables

Set environment variables after you install the database server. If you created a database server during installation, all mandatory environment variables are set, however, you can set optional environment variables.

Before you begin

You must be logged in as an administrative user or with sufficient privileges to set environment variables.

About this task

UNIX, Linux, Mac OS X: You can set environment variables at the command line, in an environment configuration file, or in a login file.

Windows: You can set environment variables in the system applet or at the command line.

To set the minimum required environment variables:

1. Set the **INFORMIXDIR** environment variable to the directory where you installed the database server.
2. UNIX, Linux, Mac OS X: Set the **PATH** environment variable to include the `$INFORMIXDIR/bin` directory as follows.
 - C shell:


```
setenv PATH ${INFORMIXDIR}/bin:${PATH}
```
 - Bourne shell:

```
PATH=$INFORMIXDIR/bin:$PATH
export PATH
```

You must set the **INFORMIXDIR** variable and add `$INFORMIXDIR/bin` to the **PATH** environment variable for each user.

3. Set the **INFORMIXSERVER** environment parameter to the name of the database server.
4. Set the **ONCONFIG** environment variable to the name of a valid `onconfig` file that you created for the server.
5. If you want to use a locale or language other than the default locale of US English, set the following environment variables:
 - a. Set the **CLIENT_LOCALE** environment parameter to specify a nondefault locale.
 - b. Set the **DBLANG** environment parameter to specify the subdirectory of **INFORMIXDIR** that contains the customized language-specific message files that HCL® Informix® products use.
 - c. Set the **DB_LOCALE** environment parameter.
 - d. Set the **SERVER_LOCALE** environment parameter.
 - e. Set the **GL_USEGLU** environment parameter if you plan to use UTF-8 character encoding. You must set the **GL_USEGLU** environment parameter before you create a database in which you plan to store UTF-8 character data.
6. Set the **INFORMIXSQLHOSTS** environment parameter to the `sqlhosts` file. The default location of this file is `$INFORMIXDIR/etc/sqlhosts` (UNIX, Linux, Mac OS X) or `%INFORMIXDIR%\etc\sqlhosts` (Windows).
7. UNIX, Linux, Mac OS X: Set the **INFORMIXTERM** environment parameter to specify whether the DB-Access utility uses the information in the `termcap` file or the `terminfo` directory.

On character-based systems, the `termcap` file and `terminfo` directory determine terminal-dependent keyboard and screen capabilities, such as the operation of function keys, color, and intensity attributes in screen displays, and the definition of window borders and graphic characters.
8. UNIX, Linux, Mac OS X: If your applications are compiled with the HCL® Informix® Client Software Development Kit (Client SDK), set the platform-specific library path environment variable to `$INFORMIXDIR/lib` and to the product library subdirectory. See the machine notes for your client products for the appropriate environment variable name.

Stopping and starting the database server

Various configuration tasks require you to stop and then start the database server. Shared memory is initialized every time that the database server starts.

About this task

- You can use the `onstat -` command to determine the database server mode.
- You can use the `onmode` utility to switch the database server from one mode to another.

Use the procedure for your operating system:

- [Stopping and starting the database server \(UNIX, Linux, Mac OS X\) on page 25](#)
- [Stopping and starting the database server \(Windows\) on page 25](#)

Stopping and starting the database server (UNIX™, Linux™, Mac OS X)

You run the `onmode` utility to stop the database server, and the `oninit` utility to start the database server.

Before you begin

For a standard installation, log in as user **root** or user **informix**. For a non-root installation, log in as the owner of the database server.

1. To stop the database server, run the `onmode -ku` command.
2. To start the database server, run the `oninit` command.

You can include options to the `oninit` command. For example, you suppress verification prompts by running the `oninit -y` command.

Stopping and starting the database server (Windows™)

You stop and start the database server with the Services application.

Before you begin

Log in a member of the Administrators group.

1. To stop the database server, in the server properties dialog box from the Services application, click **Stop**.
2. To start the database server, in the database server properties dialog box from the Services application, type optional `oninit` options in the **Start Parameters** box, and then click **Start**.

Alternatively, you can start the database server by running the `starts` command from a command prompt. You can also include options for the `oninit` command in the `starts` command.

Microsoft failover clustering support (Windows)

HCL Informix® database server supports Microsoft™ Failover Cluster (known as Microsoft™ Cluster Server, or MSCS, in earlier Windows™ releases). That built-in feature of the Windows™ operating system can automatically detect and respond to server or application failure, and can balance server workloads.



Important: During setup of the Microsoft™ failover cluster environment, stop the database server before you shut down the operating system to avoid data loss.

Refer to the Microsoft™ documentation for details about installation and configuration.

For a list of the Windows™ versions that Informix® supports, go to *Informix® Server System Requirements* (<http://www.ibm.com/support/docview.wss?uid=swg27013343>).

Multiresidency

Multiple residency refers to multiple database servers and their associated shared memory and disk structures that coexist on a single computer.

When you set up multiple independent database server environments on the same computer, you can do the following tasks:

- Separate production and development environments to protect the production system from the unpredictable nature of the development environment.
- Isolate sensitive applications or databases that are critically important, either to increase security or to accommodate more frequent backups than most databases require.

When you use multiple residency, each database server has its own configuration file. Thus, you can create a configuration file for each database server that meets its special requirements for backups, shared-memory use, and tuning priorities.

- Test distributed data transactions on a single computer. If you are developing an application for use on a network, you can use local loopback to simulate distributed data and testing on a single computer. Later, when a network is ready, you can use the application without changes to application source code.

When you plan for multiple residency on a computer, consider the following factors:

- Storage space

Each database server must have its own dedicated storage space. You cannot use the same disk space for more than one instance of a database server. When you prepare another database server, you must repeat some of the planning that you did to install the first database server. For example, you must consider these factors:

- UNIX, Linux, Mac OS X: Whether the files are buffered or unbuffered, and whether the files share a disk partition with another application.
- The location of mirrored disks, if you plan to use mirroring.
- The location of the message log.
- The type of backups that you run.

- Shared memory

Each database server has dedicated shared memory. Your computer must have enough shared memory for all the database servers.

Running multiple database servers on the same computer is not as efficient as running one database server. You must balance the advantages of separate database servers with the extra performance cost.

Creating multiresident database servers (Windows)

You can set up multiple independent database server environments on the same computer.

Before you set up multiple residency, you must install one database server.



Important: You are not required to install more than one copy of the database server binary files. All instances of the same version of the database server on one computer can share the same executable files.

To set up multiple residency, use the Server Instance Manager. You can run the Server Instance Manager as a graphical program or on the command line.

To use the Server Instance Manager program, you must have administrative privileges on the database server as a member of the **Informix-Admin** group. However, local administrator privileges are sufficient, even if the database server was installed for domain use.

To create a new database server instance with the graphical Server Instance Manager program:

1. Start the Server Instance Manager from the database server program group on the **Start > All Programs** menu.
2. Choose an installation method, and click **Create New** to create a new instance of the database server.
3. Follow the prompts.

After you enter the required information, the Server Instance Manager installs services, records environment variables, updates the registry, and creates the `onconfig` and `sqlhost` files for the new database server instance.

Server instance manager command-line options (Windows)

The `instmgr.exe` utility is a command-line version of the Server Instance Manager that extends the ability to configure the HCL Informix® database server instance with command-line options.



You must have administrative privileges on the database server. However, local administrator privileges are sufficient, even if the database server was installed for domain use.

The following table describes the `instmgr.exe` utility options.

Table 5. The `instmgr.exe` utility options

Option	Meaning
<code>-alias DRDA_server_alias</code> <code>-drdaport DRDA_port drdasvc</code> <code>DRDA_service_name</code>	Command-line for stand-alone support of DRDA® in the DBMS.
<code>-apw password</code>	Specifies the user informix password for a new instance.
<code>-c -n servername -apw</code> <code>informix_password</code>	Creates an instance of the database server.
<code>-rename -apw</code> <code>informix_password -n</code> <code>new_name old_name</code>	Rename an existing server name.
<code>-s .ini_filename</code>	Initialize the specified instance in silent mode.
<code>-f .ini_filename</code>	Retrieve some information from a partial initialization file, and the remainder from the user.
<code>-d -n servername</code>	Delete the specified instance.

Table 5. The instmgr.exe utility options (continued)

Option	Meaning
	 Warning: This option removes related dbspaces and deletes the data.
-dall	Delete all instances.  Warning: This option removes related dbspaces and deletes the data.
-uall -v <i>version</i>	Upgrade all instances to the specified version. (Upgrading a single instance in a multi-instance environment is not supported.)
-r -v <i>version</i> -n <i>servername</i>	Revert the specified instance to the specified version.
-rall -v <i>version</i>	Revert all instances to the specified version.
-b64 <i>Base64_password</i>	Specifies Base64-encoded password.
-l	Indicates cluster installation.
-system	Create database server instance that runs as local system user instead of user informix . The database server must be installed as local system user to use this option.

Creating multiresident database servers (UNIX™, Linux™, Mac OS X)

You can set up multiple independent database server environments on the same computer.

Before you set up multiple residency, you must install one database server.



Important: You are not required to install more than one copy of the database server binary files. All instances of the same version of the database server on one computer can share binary files.

To create multiple residency of a database server:

1. Prepare a new configuration file and set the **ONCONFIG** environment variable to the new file name.
2. Set up connectivity for the new database server instance.
3. Initialize disk space for the new database server instance.
4. Prepare the backup environment for multiple residency.
5. Modify the operating system start to start the new database server instances automatically.
6. Check the **INFORMIXSERVER** environment variables for users.

Prepare a new configuration file

Each instance of the database server must have its own `onconfig` configuration file.

To set up an instance-specific `onconfig` file:

1. Make a copy of an `onconfig` file that has the basic characteristics that you want for your new database server.
2. Give the new file a name that you can easily associate with its function. For example, you might select the file name `onconfig.acct` to indicate the configuration file for a production system that contains accounting information.
3. Set the **ONCONFIG** environment variable to the file name of the new `onconfig` file. Specify only the file name, not the complete path.
4. In the new configuration file, set the following configuration parameters:

SERVERNUM

Specifies an integer 0 - 255 that is associated with a database server configuration. Each instance of a database server on the same host computer must have a unique **SERVERNUM** value.

DBSERVERNAME

Specifies the database server name of a database server. You can provide a useful name for the database server, such as **ifx12test** or *hostnameifx12test*.

MSGPATH

Specifies a unique path and name of the message file for a database server. If multiple database servers use the same **MSGPATH** parameter, you cannot identify the messages from separate database server instances. For example, if you name the database server **ifx12test**, you might specify `/usr/informix/ifx12test.log` as the message log for this instance of the database server.

ROOTPATH and ROOTOFFSET

Used together, specify the location of the root dbspace for a database server. The root dbspace location must be unique for every database server configuration.

If you put several root dbspaces in the same partition, you can use the same value for the **ROOTPATH** configuration parameter. However, in that case, you must set the **ROOTOFFSET** configuration parameter so that the combined values of the **ROOTSIZE** and **ROOTOFFSET** configuration parameters define a unique portion of the partition.

You are not required to change the value of the **ROOTNAME** configuration parameter. Even if both database servers have the name **rootdbs** for their root dbspace, the dbspaces are unique because each **ROOTPATH** configuration parameter specify a unique location.

You can also set the **MIRRORPATH** and **MIRROROFFSET** parameters. If the root dbspace is mirrored, the location of the root dbspace mirror must be unique for each database server.

Set up TCP/IP connectivity

If you use the TCP/IP communication protocol, you might be required to add an entry to the `services` file for the new database server instance.

The `sqlhosts` file must have an entry for each database server. If HCL® Informix® products on other computers access this instance of the database server, the administrators on those computers must update their `sqlhosts` files.

If you plan to use Internet Protocol network connections with an instance of a database server, the system network administrator must update the `hosts` and `services` files.

Initialize disk space

Before you initialize disk space, check the setting of the **ONCONFIG** environment variable. If it is not set correctly, you might overwrite data from another database server. Initializing disk space deletes all existing user data and tracking information in the root dbspace. When you initialize disk space for a database server, the database server initializes the disk space that is specified in the current configuration file.



Important: As you create new blobspaces or dbspaces for a database server, assign each chunk to a unique location on the device. The database server prevents you from assigning more than one chunk to the same location within a single database server environment, but you must ensure that chunks that belong to different database servers do not overwrite each other.

To initialize disk space:

- UNIX™, Linux™, Mac OS X: Run the `oninit -i` command.
- Windows™: In the database server properties dialog box from the Services application, add `-i` in the **Start Parameters** field and click **Start**.

Prepare the backup environment for multiple residency

Depending on your backup method, you must prepare the backup environment for multiple residency:

- If you use the ON-Bar utility, you can back up data from various database server instances to a single storage device if the storage manager allows it. The storage manager tracks what data is backed up. However, keep storage-space and logical-log backups on separate storage devices. A best practice is to keep storage-space and logical-log backups on separate storage devices.
- If you use the ontape utility, you must maintain separate storage space and logical log backups for each database server instance. If you can dedicate a tape drive to each database server, use the continuous logging option to back up your logical log files. Otherwise, you must plan your storage space and logical log backup schedules carefully so that use of a device for one database server instance does not cause the other database server instance to wait. You must reset the **ONCONFIG** environment variable every time that you switch backup operations from one database server instance to the other.

Modify operating system start for multiple server instances

You can ask your system administrator to modify the system start script so that each of your database server instances starts whenever the computer is rebooted; for example, after a power failure.

To start a second instance of a database server, change the **ONCONFIG** and **INFORMIXSERVER** environment variables to point to the configuration file for the second database server and then run the `oninit` command. Do not change the values of the **INFORMIXDIR** or **PATH** environment variables.

Similarly, you can ask the system administrator to modify the shutdown script so that all instances of a database server shutdown normally.

Reset the INFORMIXSERVER environment variable

If you want the new instance of a database to be the default database server, you must reset the **INFORMIXSERVER** environment variable.

Removing or modifying Informix® installations

You can remove Informix® products.

You can remove Informix® products in the following ways:

- UNIX, Linux, Windows: You can remove the database server and all Informix® client products that are installed in the same directory.
- You can remove the database server from a specific installation directory.

To modify an existing installation, remove the installation and then reinstall the product.

Removing or modifying installations (UNIX, Linux)

You can remove a database server and the Informix® client products or remove only the database server.

You must be logged in as **root** or for non-root installations, as the owner of the database server.

If you have multiple installations of the product on the computer, the uninstallation application affects only the database server installation that is located in the `$INFORMIXDIR` path that you specify in the command. After Informix® products are removed, you can manually delete the `$INFORMIXDIR` directory. It is not deleted automatically.

Removing an Informix® software bundle installation

If you installed Informix® client products, such as HCL® Informix® Client Software Development Kit (Client SDK), , or the HCL Informix® JDBC Driver together in the same directory, you can quickly uninstall the database server and the client products at the same time.

To remove the database server and client product installations that are installed in the same folder, run one of the following commands:

- Console mode:

```
$INFORMIXDIR/uninstall/uninstall_server/uninstallserver -i console
```

- GUI mode:

```
$INFORMIXDIR/uninstall/uninstall_server/uninstallserver -i gui
```

Removing a database server

To remove a database server installation:

1. Run one of the following commands:

Console mode:

```
$INFORMIXDIR/uninstall/uninstall_ids/uninstallids -i console
```

GUI mode:

```
$INFORMIXDIR/uninstall/uninstall_ids/uninstallids -i gui
```

2. Follow the prompts in the uninstallation application.

Removing or modifying installations (Mac OS X)

You can remove the database server.

You must have the privilege to run the `sudo` command for uninstalling on your system.

To remove a database server installation:

1. Open a terminal window and change to the `$INFORMIXDIR` directory.
2. Make sure that the `$INFORMIXDIR` environment variable is set to the current directory.
3. Run the following command:

```
sudo open uninstall/uninstall_server/uninstallserver.app
```

The uninstallation application runs in the same installation mode that was used when the database server was installed.

4. Follow the prompts in the uninstallation application.



Important: If is installed in the same directory as the database server:

- You must uninstall the database server before you uninstall .
- Do not remove the Global Language Support and Messages features because both products have dependencies on the features.

Removing or modifying installations (Windows)

You can remove a database server and the Informix® client products or remove only the database server. You can remove a database server in GUI mode or in silent mode.

You must have Windows™ administrator privileges to remove or modify the installation.

If you have multiple installations of the product on the computer, the uninstallation application affects only the database server installation that is in the `%INFORMIXDIR%` path that you specify in the command. After Informix® products are removed, you can manually delete the `%INFORMIXDIR%` directory. It is not deleted automatically.

Removing an Informix® software bundle installation

To remove the database server and all client products, start the uninstallation application by using one of the following methods:

- From the installation directory, run the `uninstallids.exe` executable file. For example, `%INFORMIXDIR%\uninstall\uninstall_ids\uninstallids.exe`.
- Select the program name in the Control Panel **Programs and Features** window and use the Uninstall or Change a Program utility to uninstall. For example, select **HCL Informix® Bundle *Version***, where *Version* is the database server version number, and then click **Uninstall**.

Removing a database server

To remove the database server:

1. Start the uninstallation application by using one of the following methods:
 - Select **Start > Programs > HCL Informix® *Version* > uninstallserver**, where *Version* is the database server version number.
 - Double-click the program name in the Control Panel **Programs and Features** window and run the Uninstall or Change a Program utility.
2. Follow the prompts in the uninstallation application.

Removing a database server in silent mode

You can create a response file by recording a GUI-based, interactive uninstallation of the database server from one location by using settings in the GUI application that you want to replicate. Then you run the silent uninstallation command, specifying the response file. A response file is not necessary if you do not have a customized installation.

To create the response file, you must have an installation that you can uninstall in a way that you plan to reuse for removal of other installations. It is not possible to do a silent uninstallation of Informix® and any of the client products simultaneously.

To uninstall Informix® in silent mode with a response file:

1. On a command line, start a GUI uninstallation of the database server with the `-x` option in the script:

```
uninstall\uninstall_server\uninstallserver -i gui -r response_file_name
```

Substitute *response_file_name* with full name and path of the response file. Append `.properties` at the end of the file name.

2. Copy the response file to the location where you want to uninstall the database server.
3. Run the silent uninstallation command, with the full path name of the response file:

```
uninstall\uninstall_server\uninstallserver -i silent -f response_file_name
```

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