

TIBCO Omni-Gen®

TIBCO Omni-HealthData® Upgrade Guide

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Upgrading Omni Server and Omni-HealthData Governance Console on Windows Platforms

This chapter describes how to upgrade the primary components of Omni-HealthData version 3.1 on Windows platforms.

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Upgrading Omni Server

This section describes how to upgrade Omni Server, which consists of the following steps:

1. Backup your MData in Omni-HealthData Governance Console.
For more information, see [How to Backup Your MData in Omni-HealthData Governance Console](#) on page 6.
2. Backup configuration properties updated in the Omni Console.
For more information, see [How to Backup Configuration Properties Updated in the Omni Console](#) on page 6.
3. Stop all services and the controller.
For more information, see [How to Stop All Services and the Controller](#) on page 7.
4. Stop Omni-HealthData Governance Console (Apache Tomcat and WSO2 Identity Server).
For more information, see [How to Stop Omni-HealthData Governance Console \(Apache Tomcat and WSO2 Identity Server\)](#) on page 8.
5. Backup the Omni-HealthData Governance Console home directory.
For more information, see [How to Backup the Omni-Health Data Governance Console Home Directory](#) on page 9.

6. Backup the omnigen home directory.
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7. Backup Omni-HealthData databases.
For more information, see [How to Backup Omni-HealthData Databases](#) on page 9.
8. Create the *omnihealthdata_upgrade* and *omnirepo_upgrade* databases.
For more information, see [How to Create the omnihealthdata_upgrade and omnirepo_upgrade Databases](#) on page 9.
9. Download and install a new version of Omni-HealthData.
For more information, see [How to Download and Install a New Version of Omni-HealthData](#) on page 9.

Procedure: How to Backup Your MData in Omni-HealthData Governance Console

1. Log on to Omni-HealthData Governance Console (OHDGC) to download metadata using your browser.
For example:
<http://omnihealthdata.ibi.com:9090/ogc>
2. Log on using the preauthorized WS02 Identity Server local (primary) credentials.
For example:
 - Username: **primary/super_a**
 - Password: **supera123**
3. Click *Administration* in the top menu, then select *Download Metadata* from the navigation bar.
4. Save the MData.xml file in the location where you store your backups.

Backup Configuration Properties Updated in the Omni Console

This section describes how to backup configuration properties that have been updated in the Omni Console.

Procedure: How to Backup Configuration Properties Updated in the Omni Console

1. Using your browser, open the Omni Console by entering the following URL:
<https://yourhost.yourdomain.com:9500>
For example:

<https://omnihealthdata.ibi.com:9500>

Note: You cannot use *localhost* in the URL. You must use the appropriate protocol (HTTP or HTTPS) as specified in the *server.runtime.http-protocol* property of the *og_configuration.properties* file.

2. Log on using the following credentials:

Username: **ibi**

Password: **ibi**

3. Make a note of any properties that were updated in the Configuration section, which can be accessed in the left pane.
4. Navigate to the `\omnihealthdata\properties` directory.

For example:

`C:\omni\product\omnihealthdata\properties`

5. Update the corresponding properties in the *og_configurations.properties* file based on any changes to the properties identified in step 3.
6. Save the *og_configurations.properties* file.

Procedure: How to Stop All Services and the Controller

1. Ensure that no work orders are currently running in the Omni Console.
2. Navigate to the *OmniServer* home directory.

For example:

`C:\omni\product\omnihealthdata\omnigen\OmniServer`

3. Open a command prompt window and type the following command to stop all services:

```
omni stop-all
```

4. Upon successful notification that all services are stopped, enter the following command to stop the controller:

```
omni stop-controller
```

Procedure: How to Stop Omni-HealthData Governance Console (Apache Tomcat and WSO2 Identity Server)

1. If Windows services are implemented:
 - a. Open the Windows Services manager.
 - b. Stop all services created by Omni-HealthData Governance Console (OHDGC).
For example:
`iWay_ogc_*_<current_release>`
2. If Windows Services are not implemented:
 - a. Navigate to the OHDGC installation directory.
For example:
`C:\omni\product\omnihealthdata\ohdgc`
 - b. Navigate to the location of the *tomcat.bat* file.
For example:
`C:\omni\product\omnihealthdata\ohdgc\ogc\bin\ibi\`
 - c. Open a command prompt, enter the following command, then press *Enter* to stop Apache Tomcat:
`tomcatstop.exe`
 - d. When Apache Tomcat has stopped, open the WSO2 Identity Server Management Console in a browser by entering the following URL:
`https://yourhost.yourdomain.com:9443`
For example:
`https://omnihealthdata.ibi.com:9443`
Note: You must use the appropriate protocol (HTTP or HTTPS) as specified in the *server.runtime.http-protocol* property of the *og_configuration.properties* file.
 - e. Log on using the following credentials:
 - Username: **admin**
 - Password: **admin**
 - f. Click *Shutdown/Restart* in the Manage section of the left navigation panel.
 - g. Click *Graceful Shutdown* to stop the WSO2 Identity Server.

Procedure: How to Backup the Omni-Health Data Governance Console Home Directory

1. Navigate to the *omnihealthdata* subdirectory where your base installation is located.

For example:

```
C:\omni\product\omnihealthdata\
```

2. Rename the *ohdgc* directory to:

```
ohdgc_<project_revision>
```

Procedure: How to Backup the Omnigen Home Directory

1. Navigate to the *omnihealthdata* subdirectory where your base install is located.

For example:

```
C:\omni\product\omnihealthdata\
```

2. Rename the *omnigen* directory to:

```
omnigen_<project_revision>
```

Procedure: How to Backup Omni-HealthData Databases

Upon successful shutdown of the WS02 Identity Server, backup the corresponding *omnihealthdata* and *omnirepo* databases for the Omni-HealthData (OHD) environment you want to upgrade.

Procedure: How to Create the omnihealthdata_upgrade and omnirepo_upgrade Databases

1. If the *omnihealthdata_upgrade* database already exists, then drop this database.
2. Recreate the *omnihealthdata_upgrade* database, following the same instructions found in the *Installation Prerequisites* section of the *Omni-HealthData™ Installer User's Guide* for the *omnihealthdata* database.
3. If the *omnirepo_upgrade* database already exists, then drop this database.
4. Recreate the *omnirepo_upgrade* database, following the same instructions found in the *Installation Prerequisites* section of the *Omni-HealthData™ Installer User's Guide* for the *omnirepo* database.

Procedure: How to Download and Install a New Version of Omni-HealthData

1. Download the latest binary package (*ohdbinarypackage*bin.zip*) from the Information Builders Technical Support Center (<http://techsupport.informationbuilders.com>).
2. Unzip the *ohdbinarypackage* into the *omnihealthdata* subdirectory where your base install is located.

For example:

```
C:\omni\product\omnihealthdata
```

3. Navigate to the `omnihealthdata\properties` subdirectory.

For example:

```
C:\omni\product\omnihealthdata\properties
```

4. Ensure that the memory settings in the `og_configurations.properties` file reflect the current production settings from the Omni Console. If not, then you must update them.
5. If the `og_configurations_upgrade.properties` file does not exist, then create it by copying the `og_configurations.properties` file, and saving it as `og_configurations_upgrade.properties`, after updating the following entries:

```
ogs.db.url=jdbc:sqlserver://<host>/omnihealthdata_upgrade;  
sendStringParametersAsUnicode=false  
dq.db.url= jdbc:sqlserver://<host>/omnirepo_upgrade;  
sendStringParametersAsUnicode=false  
hv.db.url= jdbc:sqlserver://<host>/omnihealthdata_upgrade;  
sendStringParametersAsUnicode=false
```

6. Navigate to the created `omnigen` home directory.

For example:

```
C:\omni\product\omnihealthdata\omnigen
```

7. Navigate to the `sample_configuration` directory and compare the `og_configurations.properties` file with the existing `og_configurations.properties` file in the following subdirectory:

```
C:\omni\product\omnihealthdata\properties
```

If any new properties have been added to the file with your new release, manually copy them into both the following files and save them:

```
C:\omni\product\omnihealthdata\properties\og_configurations.properties
```

```
C:\omni\product\omnihealthdata\properties  
\og_configurations_upgrade.properties
```

8. Navigate back to the `omnigen` home directory.
9. Run the following configuration command:

```
omnigen configure -Dconfiguration.properties=C:\omni\product\  
omnihealthdata\properties\og_configuration_upgrade.properties
```

Installing a New Version of Omni-HealthData Governance Console

This section describes how to install a new version of Omni-HealthData Governance Console (OHDGC) on Windows platforms.

Procedure: How to Install Omni-HealthData Governance Console

1. Navigate to the *omnigen* home directory.

For example:

```
C:\omni\product\omnihealthdata\omnigen
```

2. Navigate to the *omnihealthdatagc* directory.

For example:

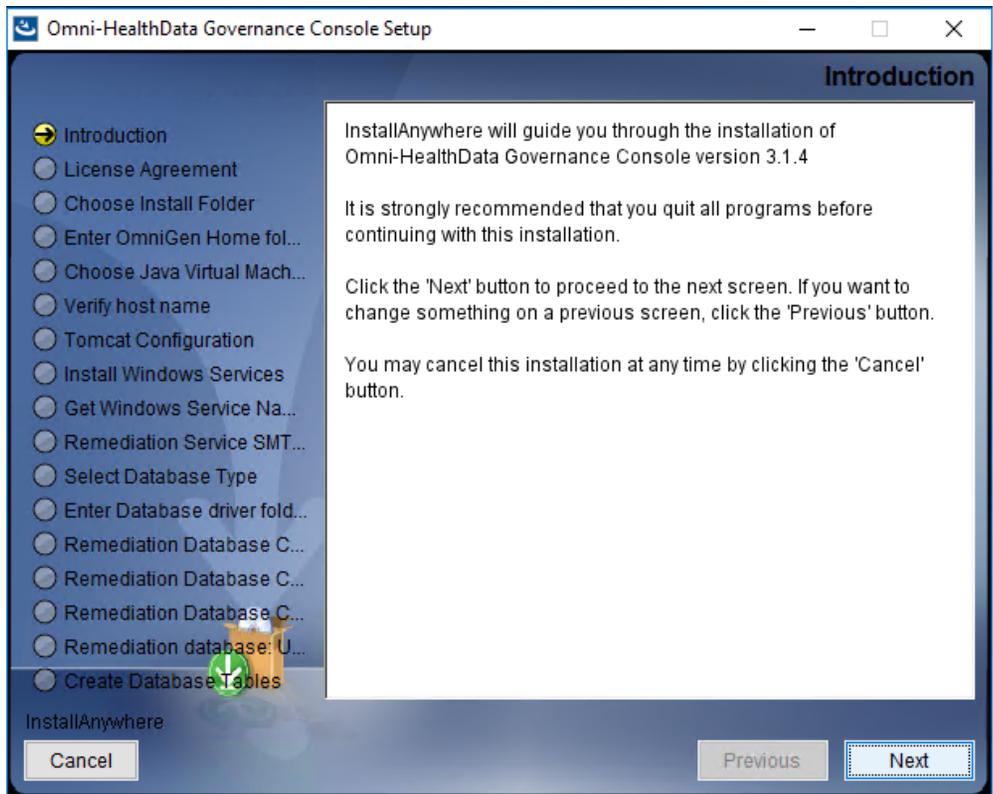
```
C:\omni\product\omnihealthdata\omnigen\omnihealthdatagc
```

3. Right-click the *OHDGCInstallerWindows.exe* file, and select *Run as administrator* from the context menu.

The InstallAnywhere window opens, as shown in the following image.

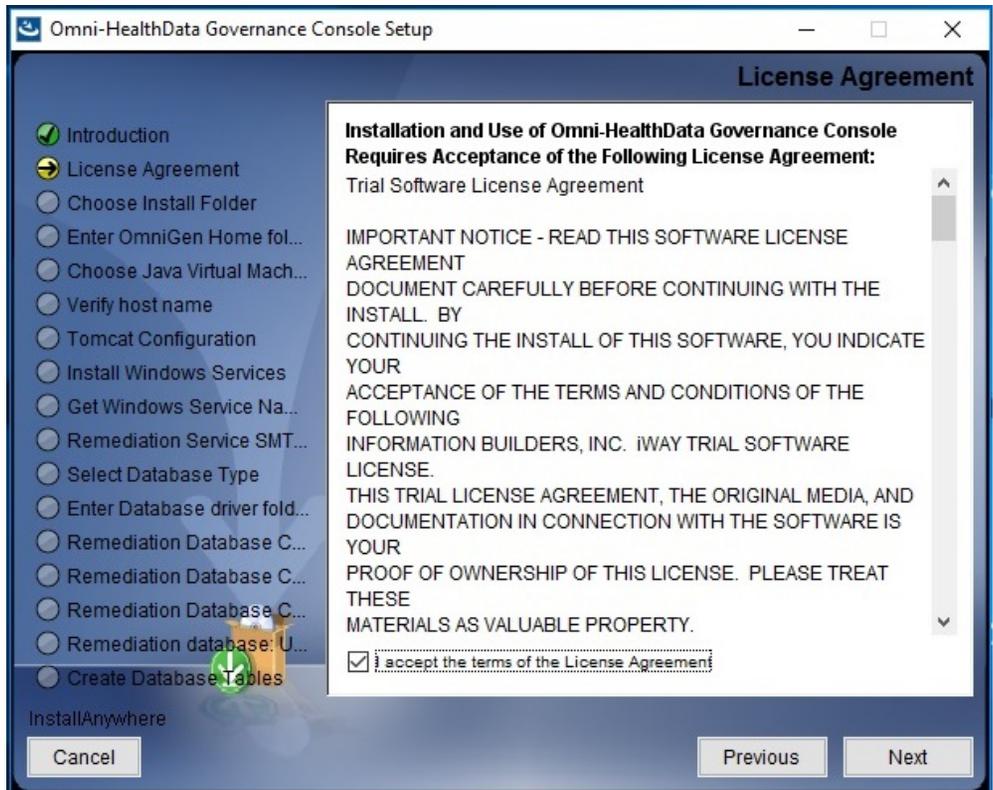


When the installation is ready, the Introduction pane opens, as shown in the following image.



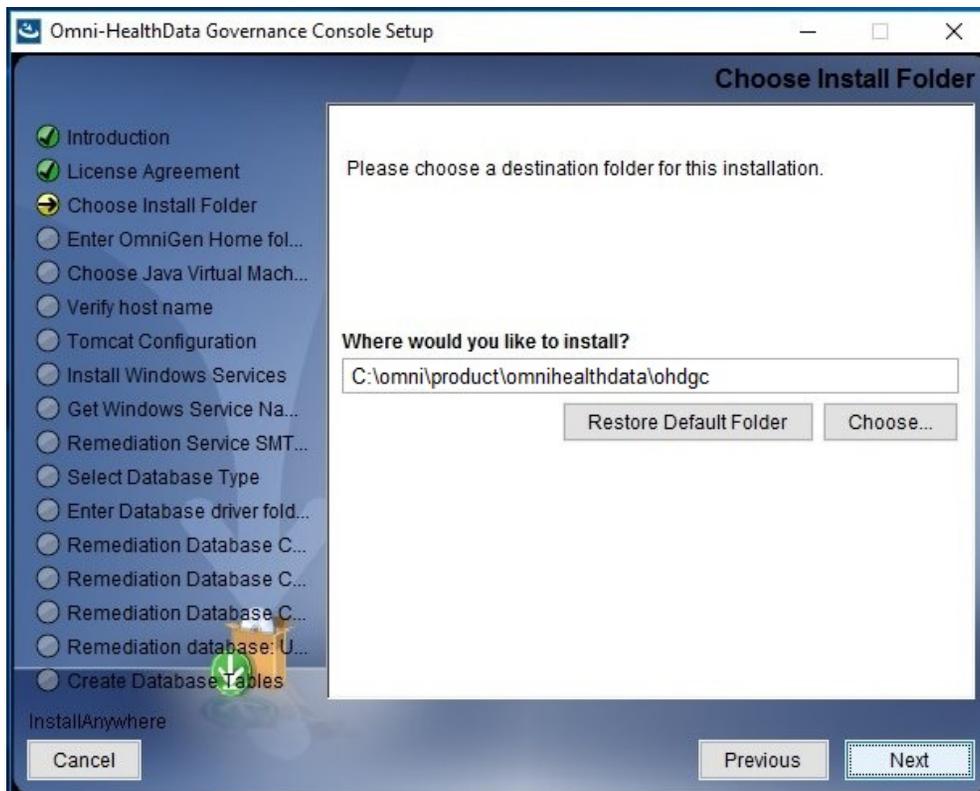
4. Click *Next* to continue.

The License Agreement pane opens, as shown in the following image.



5. Read the License Agreement, select the *I accept the terms of the License Agreement* check box, and then click *Next*.

The Choose Install Folder pane opens, as shown in the following image.



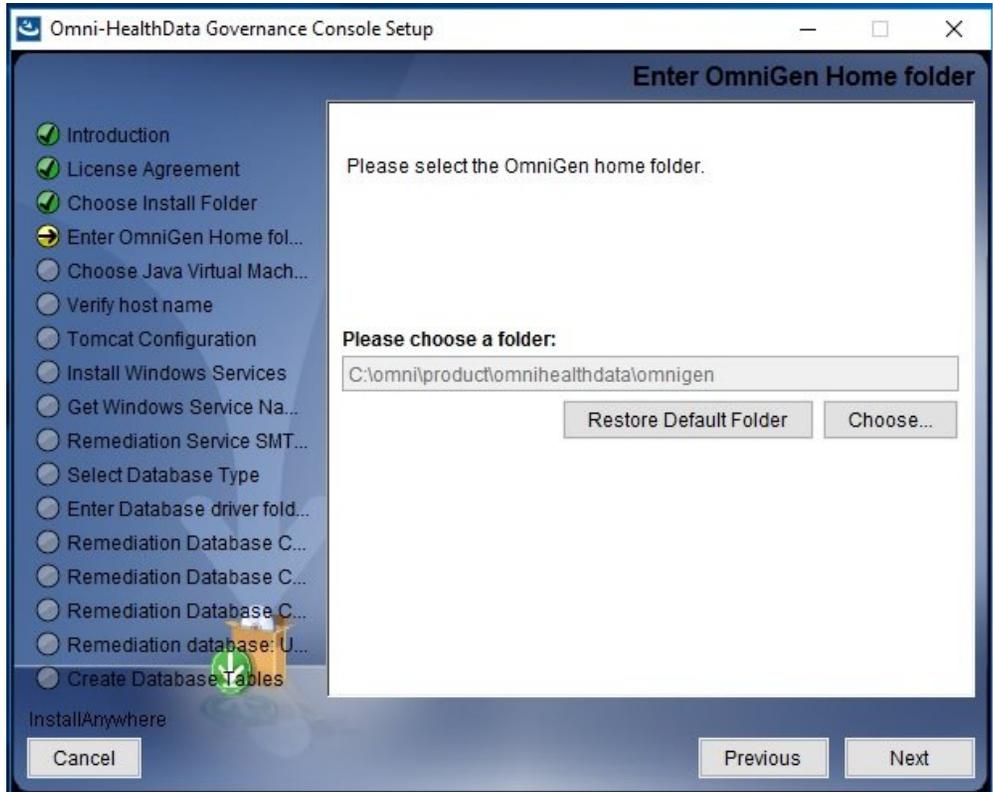
6. In the *Where would you like to install?* field, enter the location where you want to install Omni-HealthData Governance Console (OHDGC) components.

For example:

```
C:\omni\product\omnihealthdata\ohdgc
```

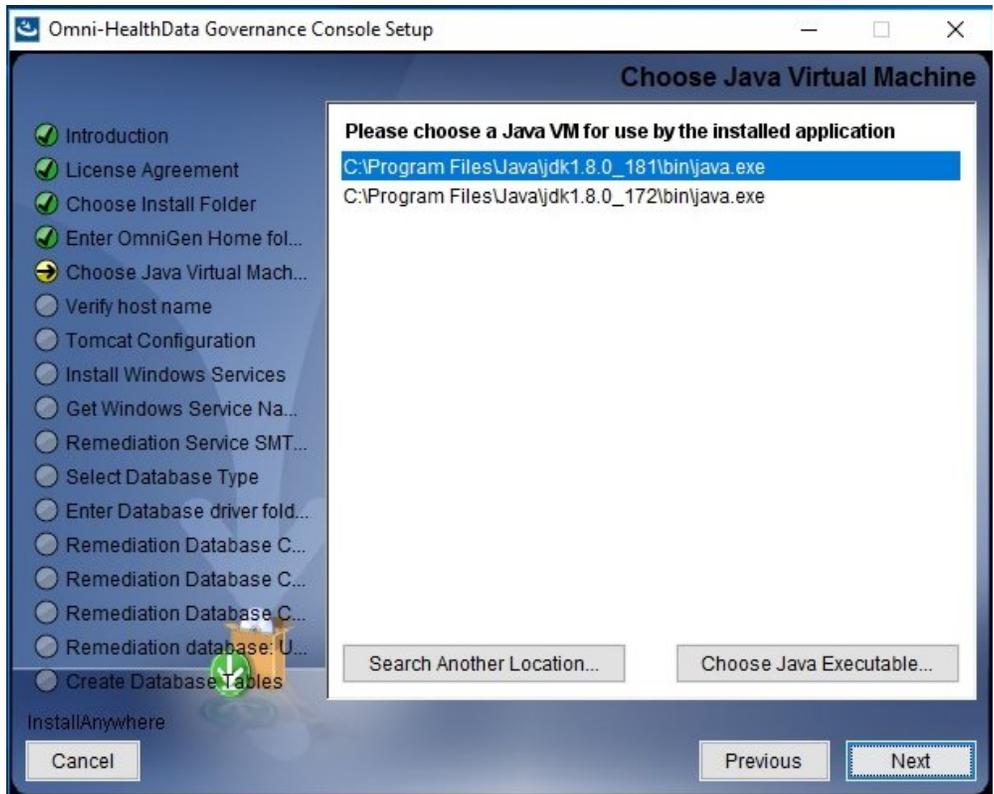
7. Click Next.

The Enter OmniGen Home folder pane opens, as shown in the following image.



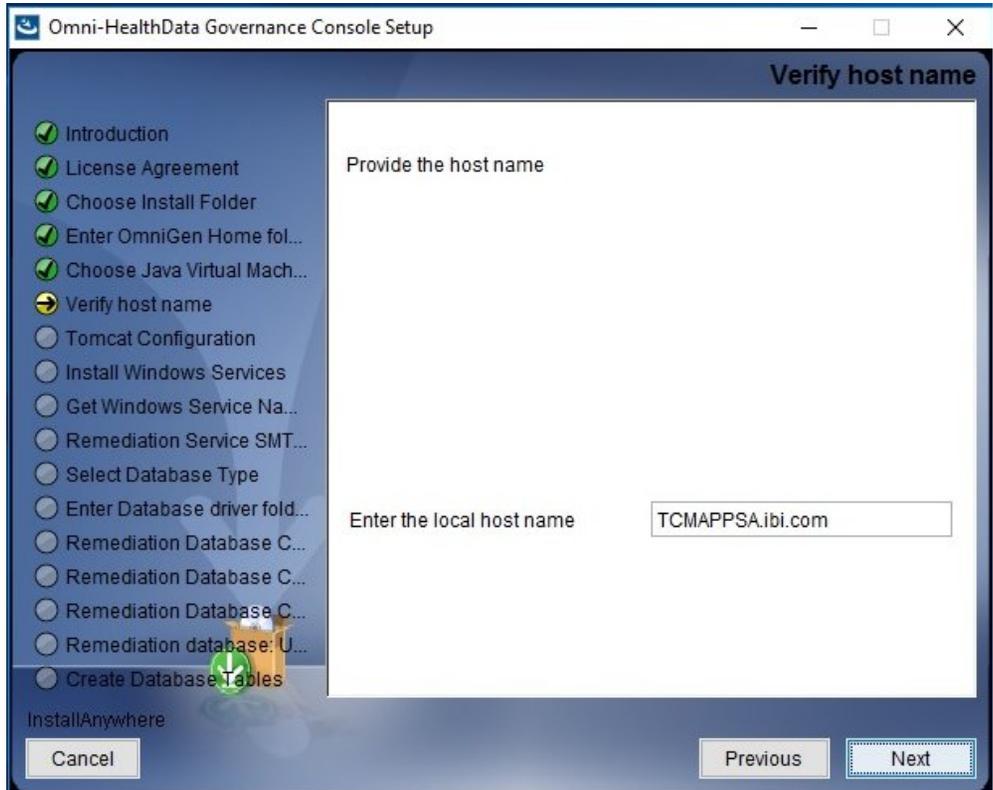
8. In the *Please choose a folder* field, enter (or browse to) the location you specified for the *omnigen* home folder, and then click *Next*.

The Choose Java Virtual Machine pane opens, as shown in the following image.



9. Ensure that the Java version selected is version 1.8 or higher, and then click *Next*.

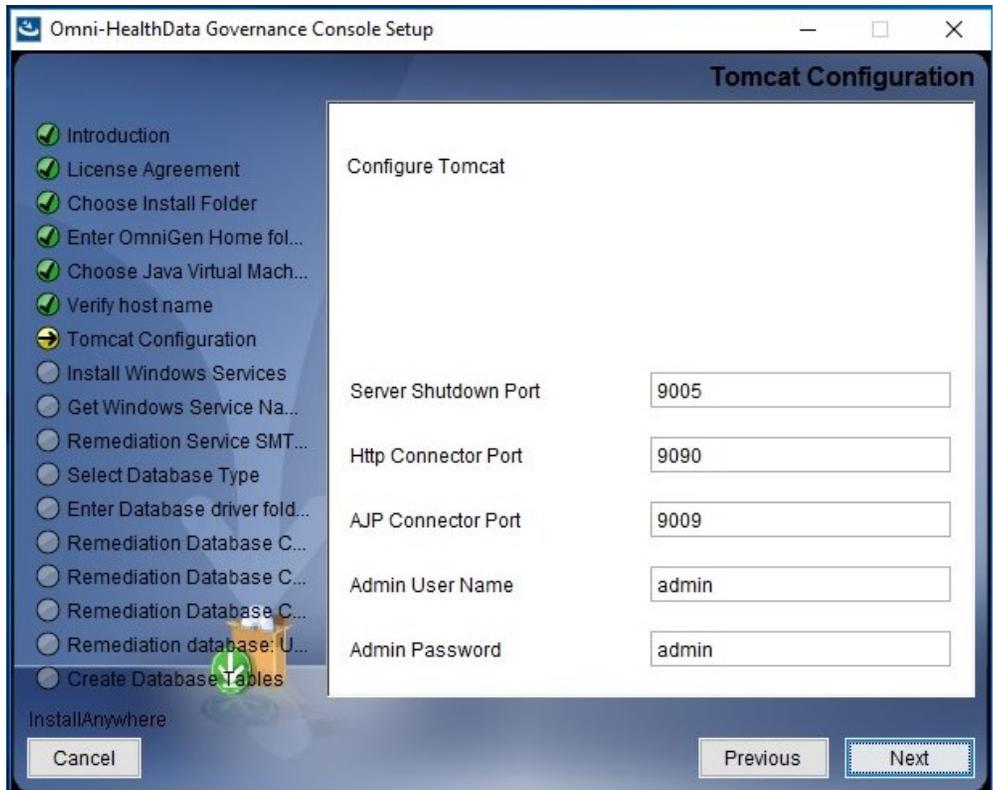
The Verify host name pane opens, as shown in the following image.



The default host name is this machine on which you are currently installing.

10. Enter the local host name in the designated field, and then click Next.

The Tomcat Configuration pane opens, as shown in the following image.



11. Verify the port values that are indicated by default and modify accordingly if required.
12. Click Next.

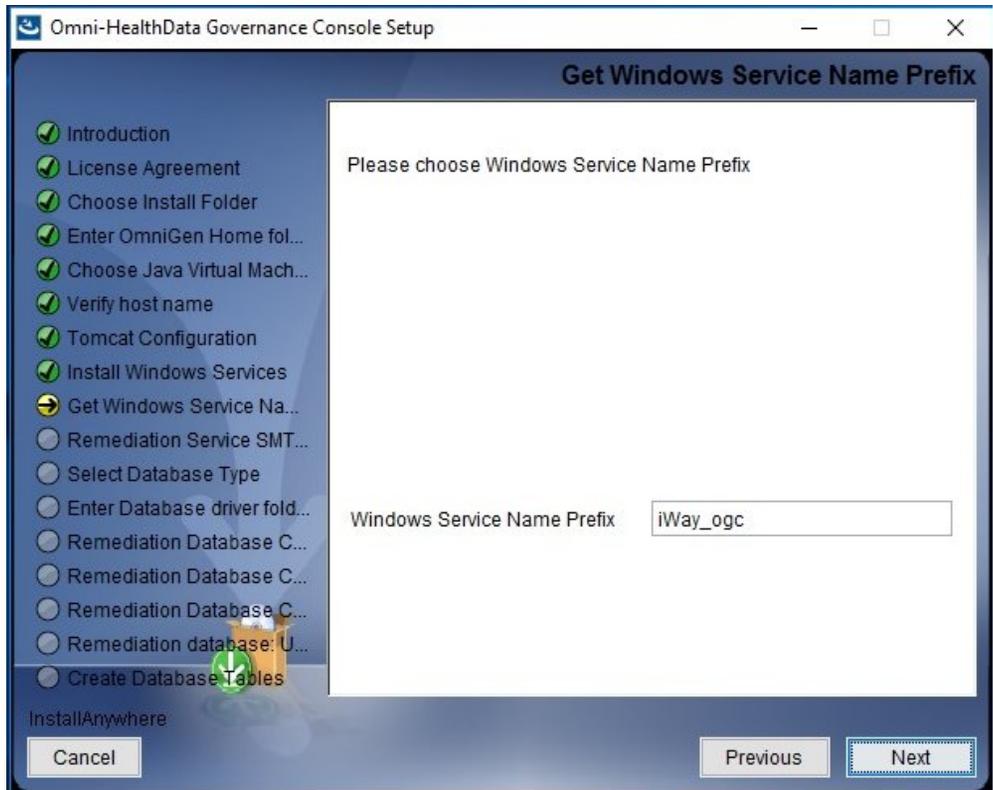
The Install Windows Services pane opens, as shown in the following image.



13. Select Yes if you would like to have WSO2 and Apache Tomcat components for OHDGC installed as Windows services.

14. Click Next.

The Get Windows Service Name Prefix pane opens, as shown in the following image.

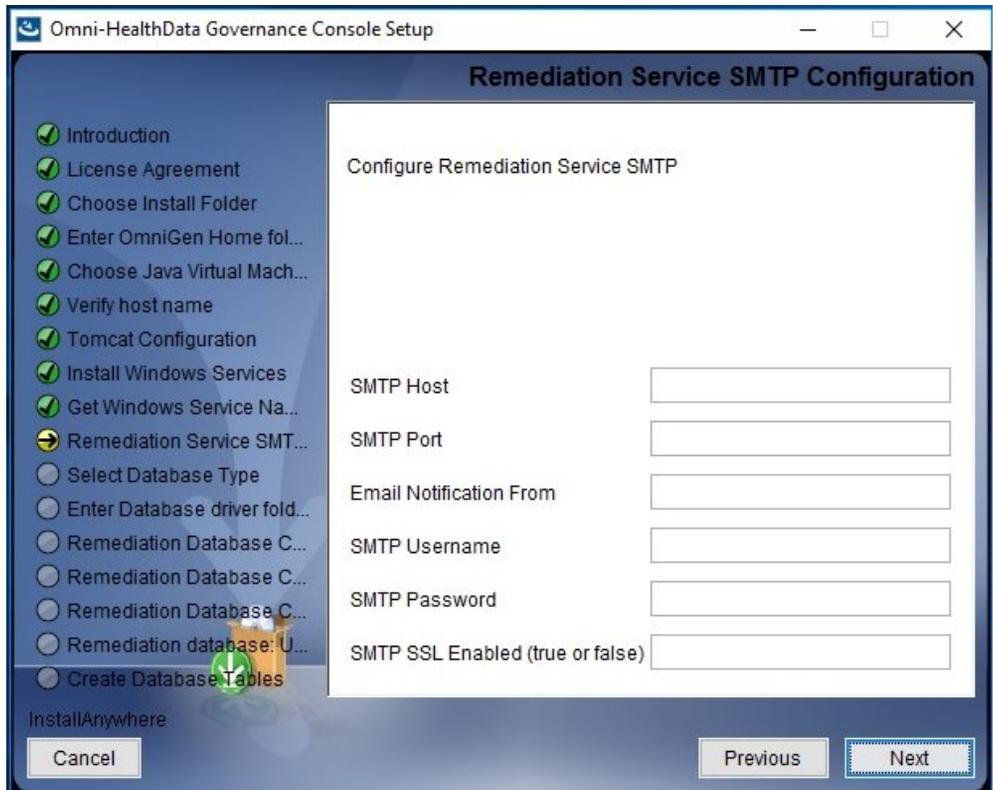


If you selected to install WSO2 and Apache Tomcat components as Windows services, then, by default, *iWay_ogc* is the prefix that will be used. You can specify a different prefix as required.

Note: It is recommended to append an identifier to the *iWay_ogc* prefix that matches your Omni-HealthData release number (for example, *_314* or *_315*). Older Windows services can then be easily identified and deleted as they are retired from use.

15. Click Next.

The Remediation Service SMTP Configuration pane opens, as shown in the following image.



16. Leave the parameter values blank unless you want to configure SMTP for your remediation service, and then click Next.
17. To configure SMTP for your remediation service, provide values for the following parameters as they apply to your SMTP email server:
 - SMTP Host.** Host name of your SMTP server (for example, *smtp.ibi.com*).
 - SMTP Port.** SMTP port on that server (usually port 25).
 - Email Notification From.** Email address from which the assignment email will originate (for example, *OmniGen_Remediation@ibi.com*).
 - SMTP Username.** User name for accessing the email server.
 - SMTP Password.** Password associated with the user name for accessing the email server.

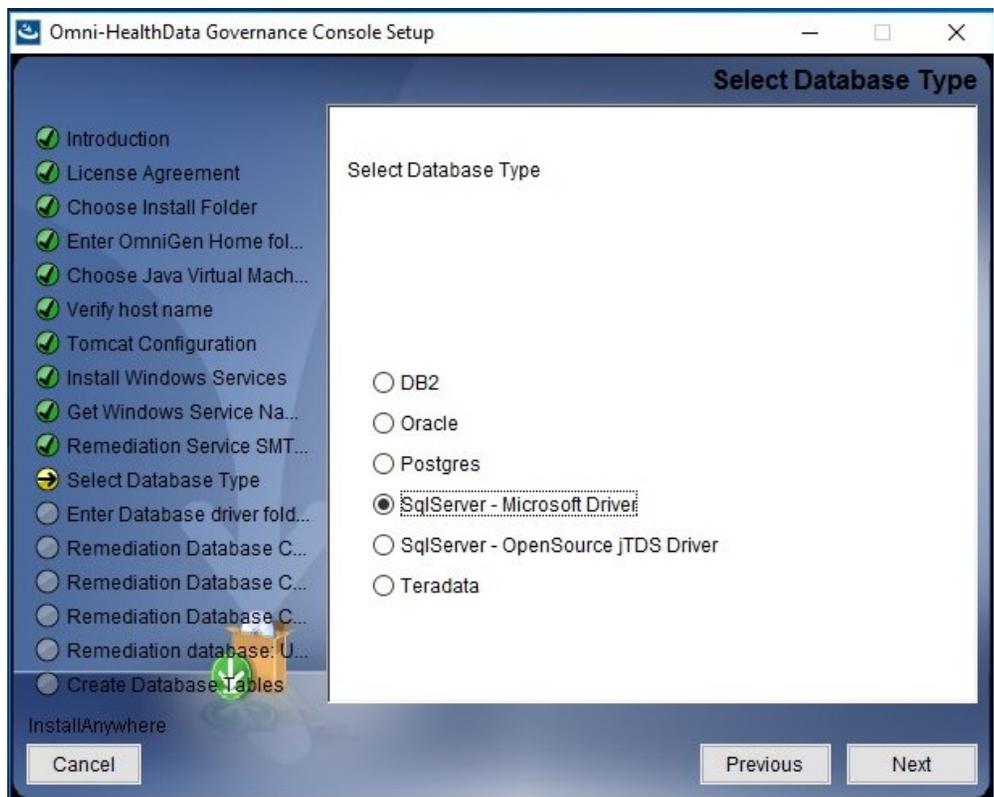
- SMTP SSL Enabled (true or false).** Specify *true* if your email server supports or requires SSL authentication.

In addition, each user who will receive email notifications must have a valid email address in their WS02 Identity Server (WS02 IS) user profile.

- Each LDAP user with the *Data Steward* or *Data Supervisor* role, and who will receive Assignment emails, must have a valid email address in their Active Directory profile. When it makes the LDAP connection, WS02 IS will bring back those email addresses to its *Local User Store* profile of the user.
- Each hardcoded user in the WS02 IS *Primary* domain must have an email in their WS02 IS user profile.

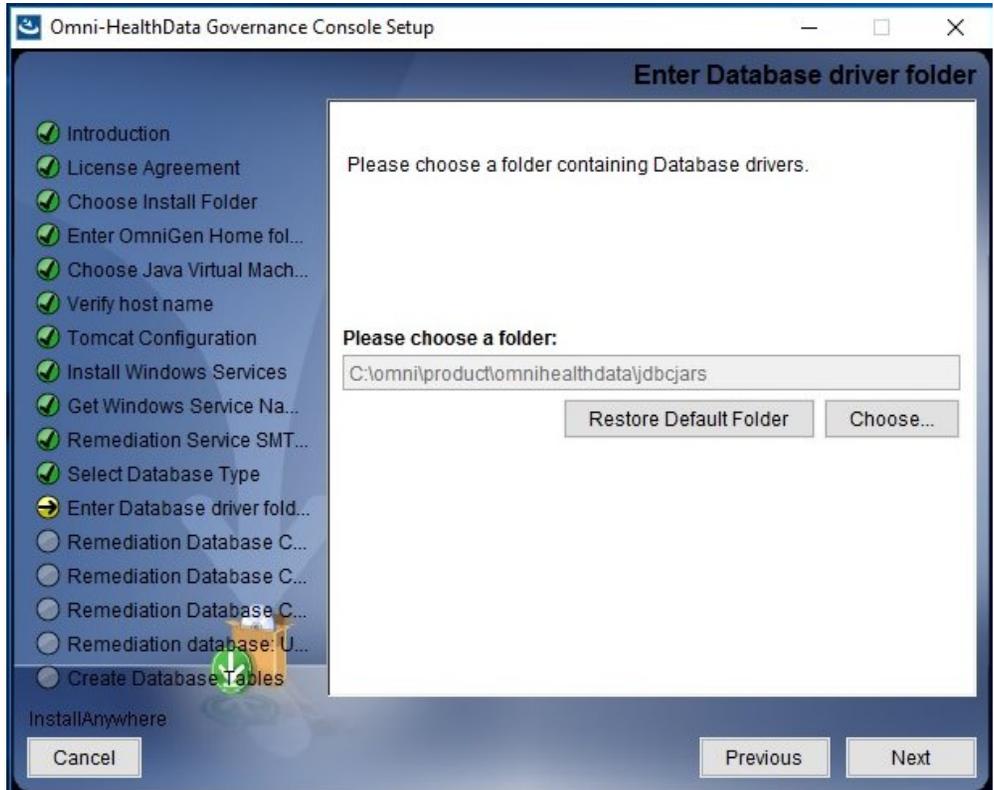
18. Click *Next* to continue.

The Select Database Type pane opens, as shown in the following image.



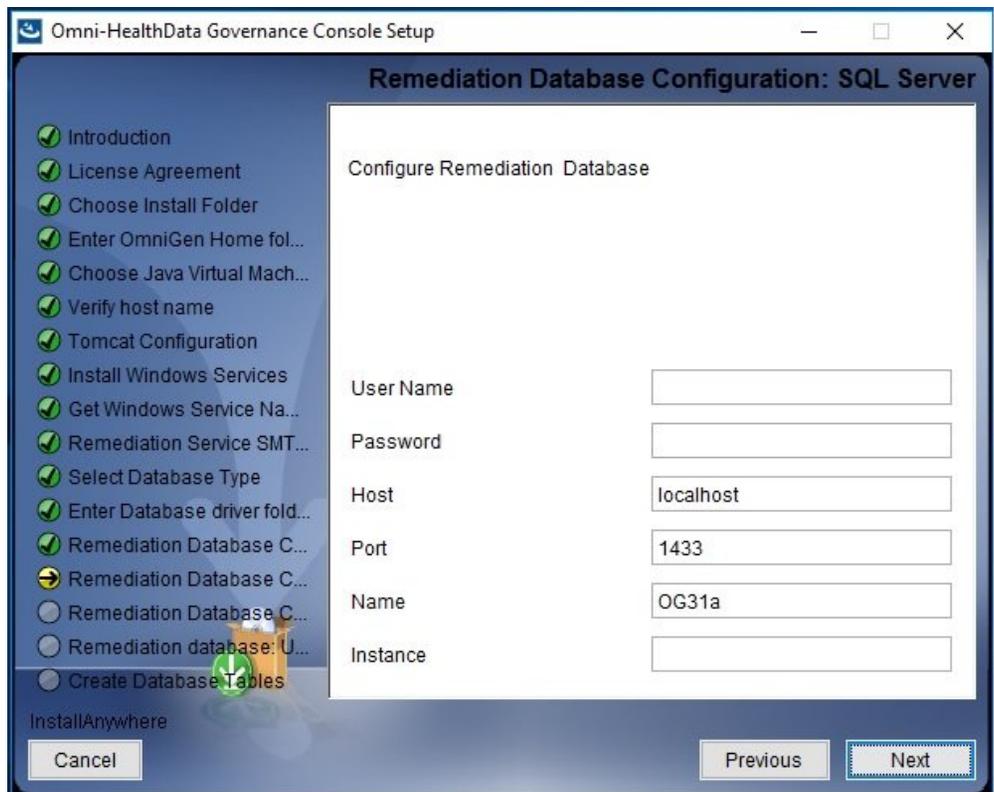
19. Select the type of database from the list that you want to use with OHDGC, and then click *Next*.

The Enter Database driver folder pane opens, as shown in the following image.



20. Specify the location of your JDBC .jar file(s), and then click Next.

The Remediation Database Configuration pane opens for your selected database type, as shown in the following image.

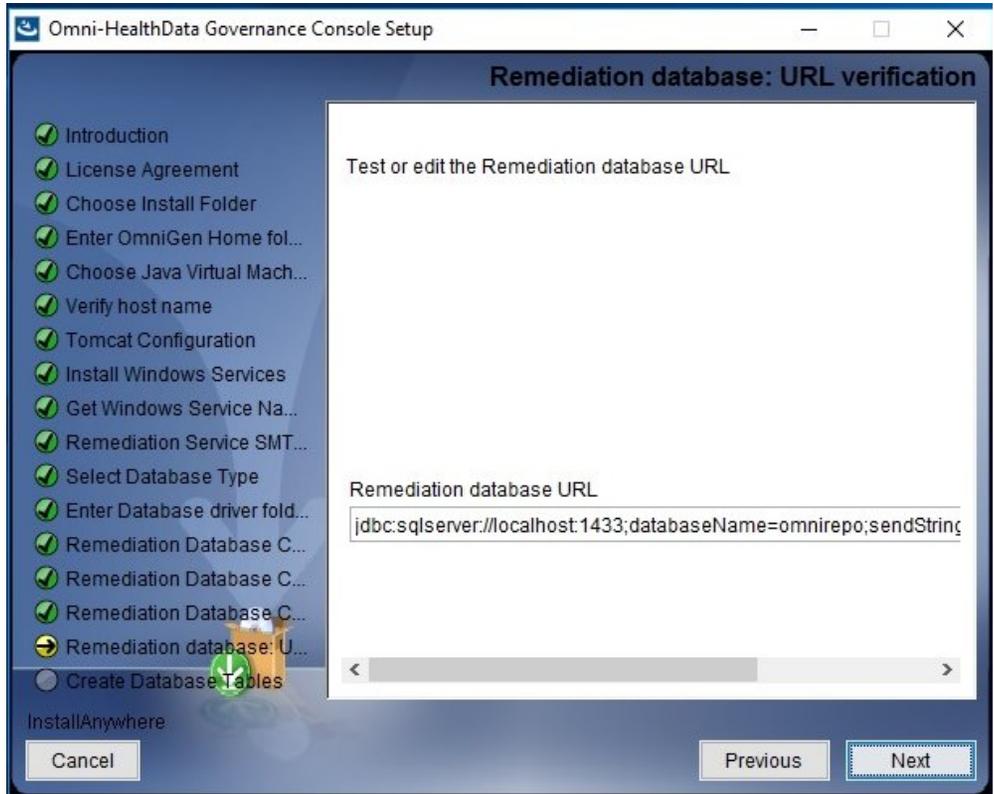


21. Review the information to ensure that it matches the corresponding entry in the *og_configuration.properties* file.

The database name should be your existing production Remediation database name, for example, *OG31a*.

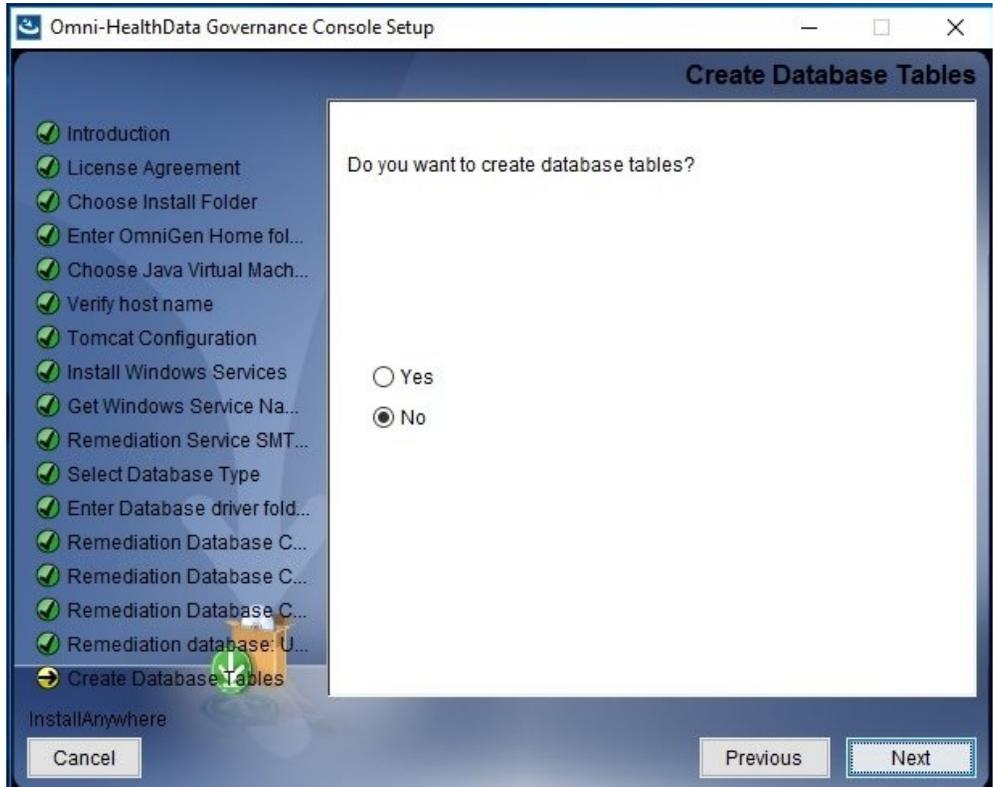
22. Click *Next* to continue.

The Remediation database: URL verification pane opens, as shown in the following image.



23. Specify the remediation database URL string that matches the corresponding entry in the *og_configuration.properties* file, and then click *Next*.

The Create Database Tables pane opens, as shown in the following image.



24. Select *No* to not create the Remediation database tables, and then click *Next*.

Note: Since the remediation tables already exist, there is no need to create them. By selecting *No*, you will also preserve your existing remediation data.

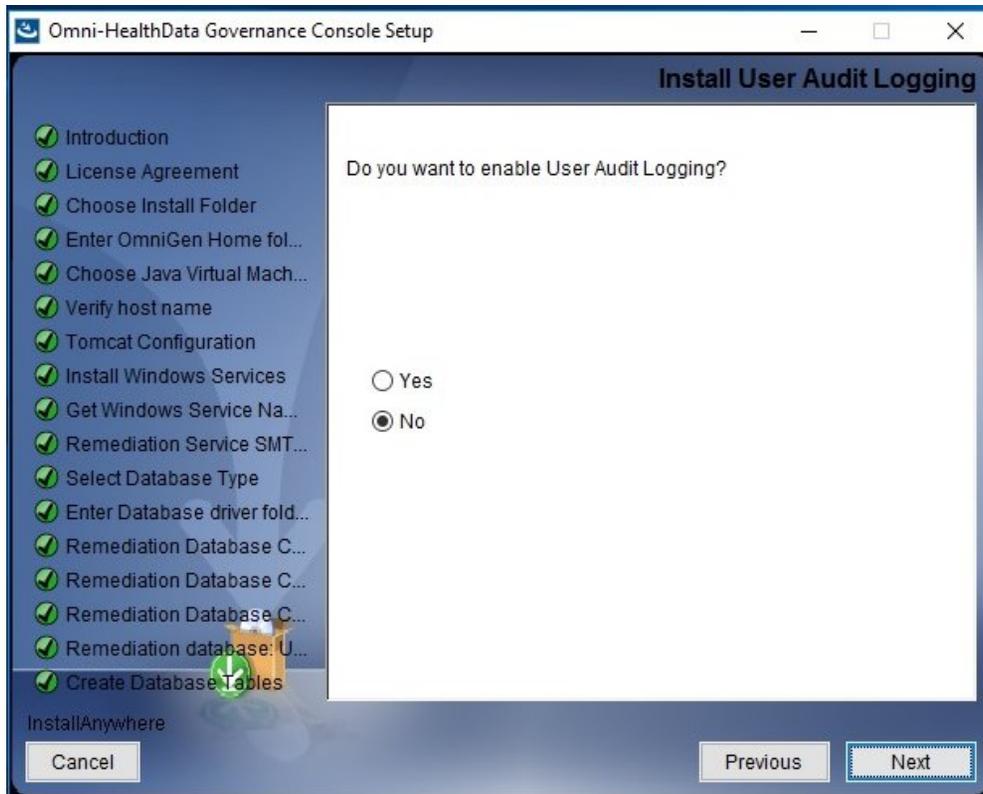
1. Upgrading Omni Server and Omni-HealthData Governance Console on Windows Platforms

If the database URL string that you specified is correct and your database is available, the Remediation Database Connection Test Passed pane opens, as shown in the following image.

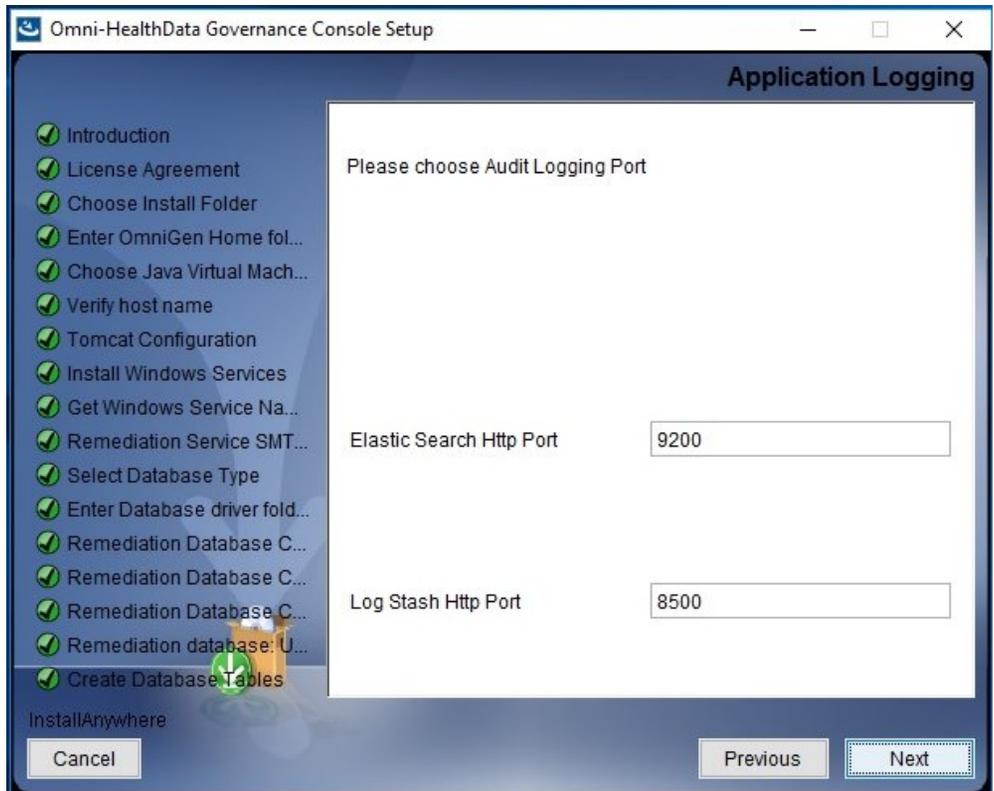


25. Click *Next* to continue.

The Install User Audit Logging pane opens, as shown in the following image.

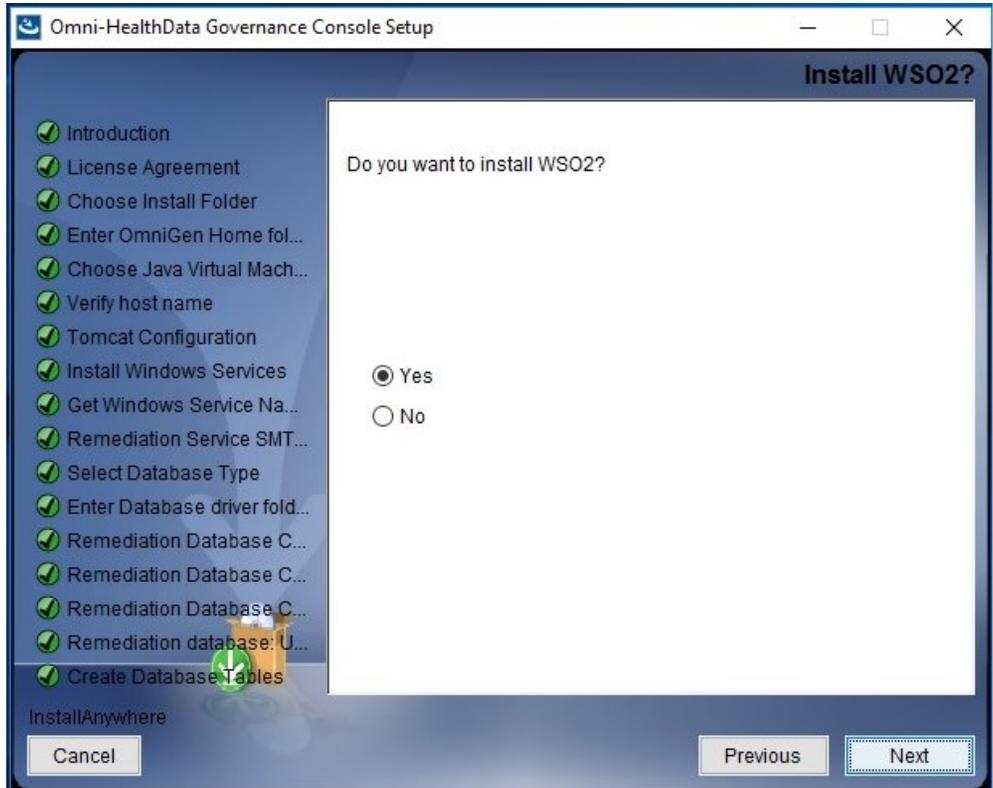


26. If you select Yes and click Next, you must specify port values for Elastic Search and Log Stash in the Application Logging pane, as shown in the following image.



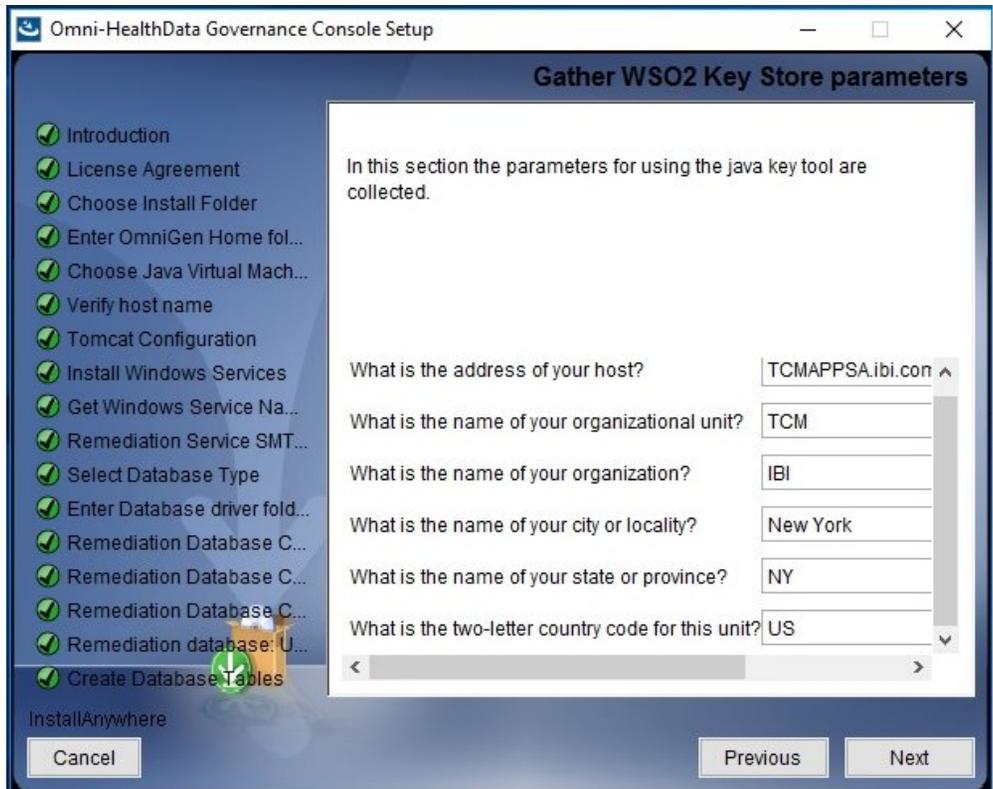
27. Click Next to continue.

The Install WS02 pane opens, as shown in the following image.



28. Select Yes, and then click Next.

The Gather WSO2 Key Store parameters pane opens, as shown in the following image.

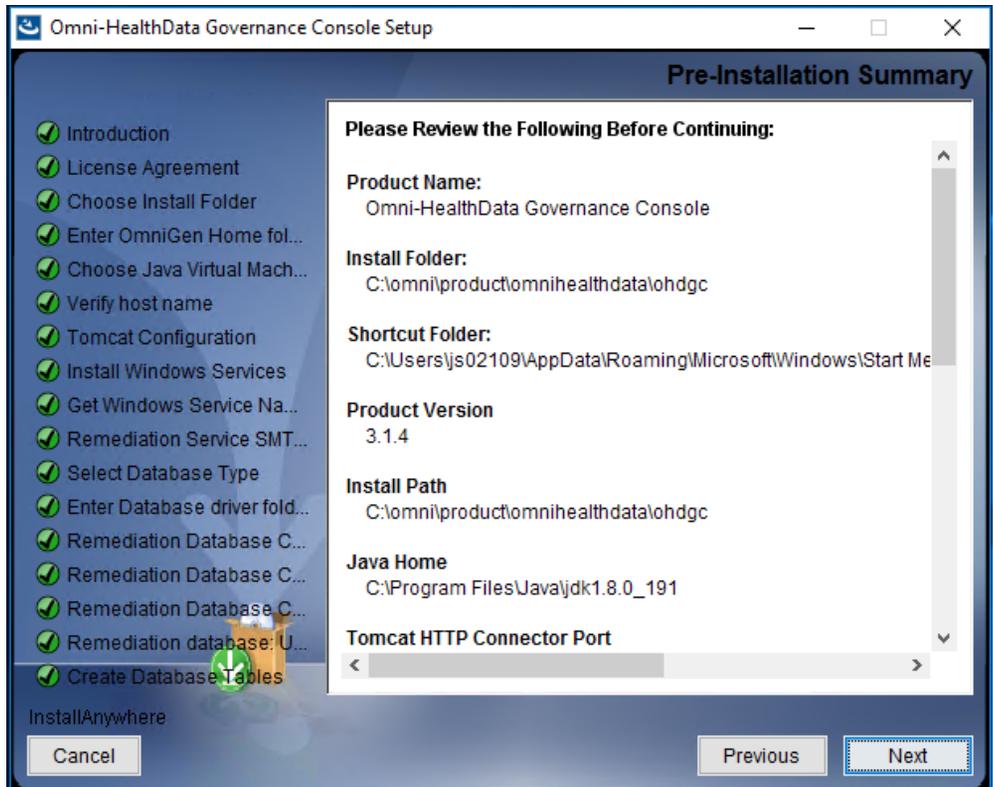


29. Collect the parameters to generate the certificate for WSO2 IS.

These parameters are used to build a unique certificate to secure the communication between Omni-HealthData Governance Console (OHDGC) and WSO2 Identity Server (IS). Ensure that the address of your host is correct (not *localhost*), and then enter values for the remaining parameters.

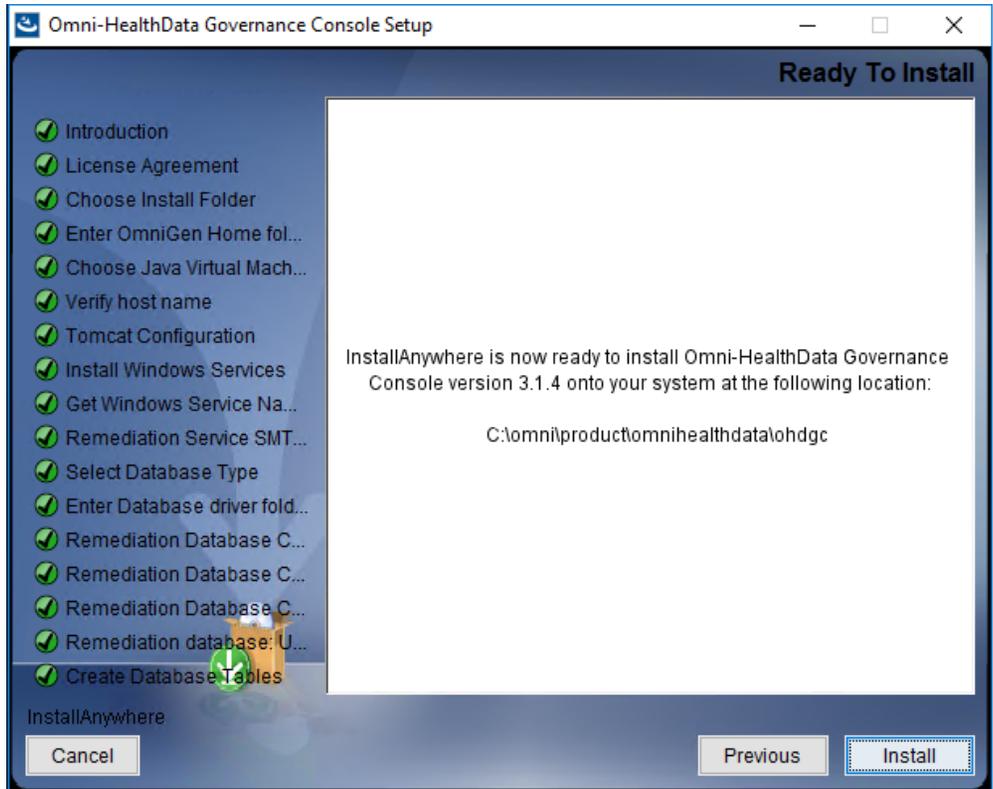
30. Click *Next* to continue.

The Pre-Installation Summary pane opens, as shown in the following image.



31. Review the installation settings that you specified for OHDGC and then click *Next* to continue.

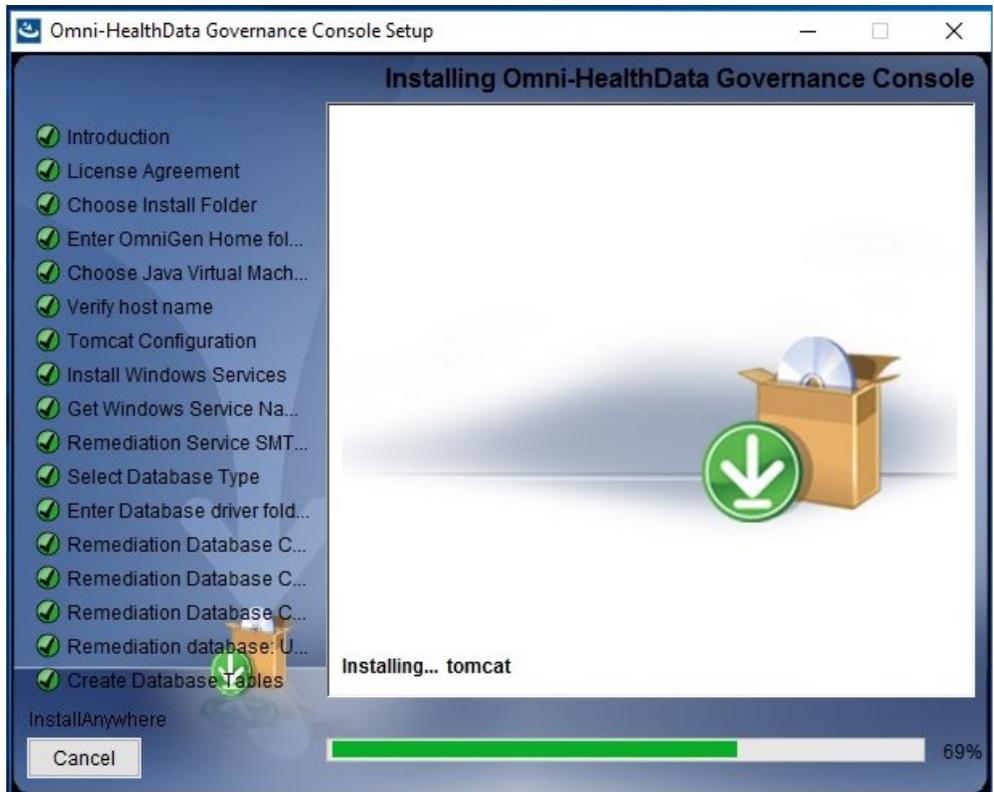
The Ready To Install pane opens, indicating that the configuration for installation is complete, as shown in the following image.



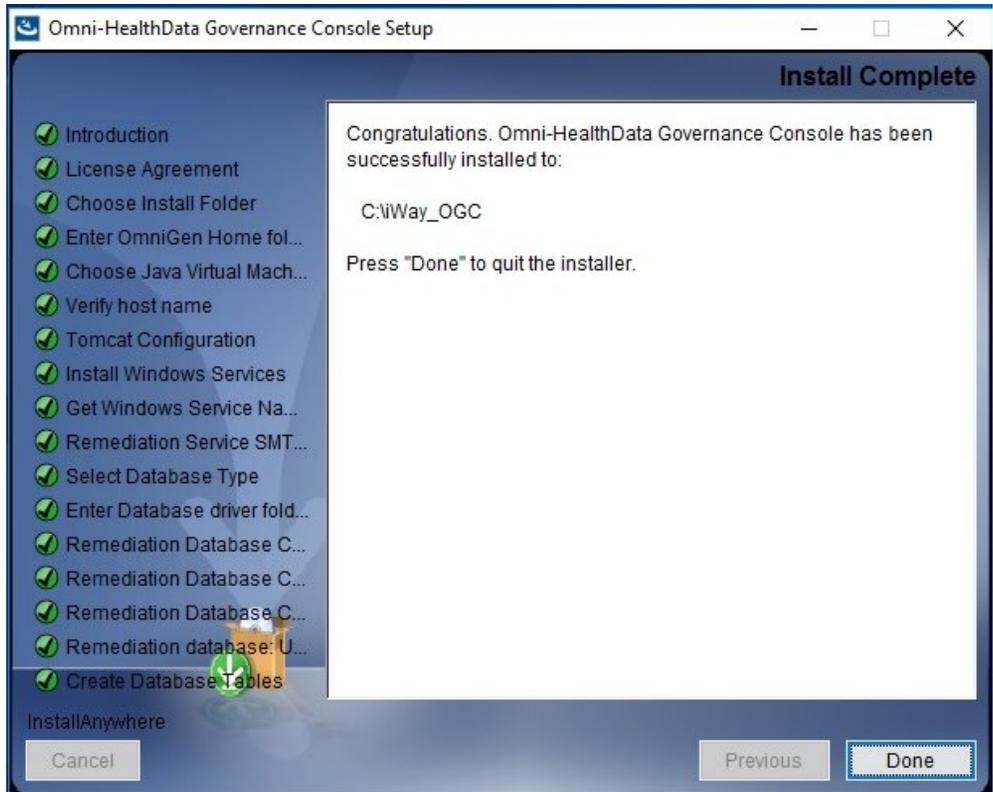
32. Click *Install* to proceed with the installation.

Installing a New Version of Omni-HealthData Governance Console

The Installing Omni-HealthData Governance Console pane opens, which displays the progress of your OHDGC installation, as shown in the following image.



The Omni-HealthData Governance Console (OHDGC) installation is complete when the Install Complete pane is displayed, as shown in the following image.



33. Click *Done*.

Deploying Your Current Production Bundle on the Upgraded Omni Server

This section describes how to deploy your current production bundle on the upgraded Omni Server.

Procedure: How to Deploy Your Current Production Bundle on the Upgraded Omni Server

1. Navigate to the *OmniServer* home directory.

For example:

```
C:\omni\product\omnihealthdata\omnigen\OmniServer
```

2. Enter the following command to stop the controller:

```
omni start-controller
```

3. Using your browser, open the Omni Console by entering the following URL:

```
https://yourhost.yourdomain.com:9500
```

For example:

```
https://omnihealthdata.ibi.com:9500
```

Note: You cannot use *localhost* in the URL. You must use the appropriate protocol (HTTP or HTTPS) as specified in the *server.runtime.http-protocol* property of the *og_configuration.properties* file.

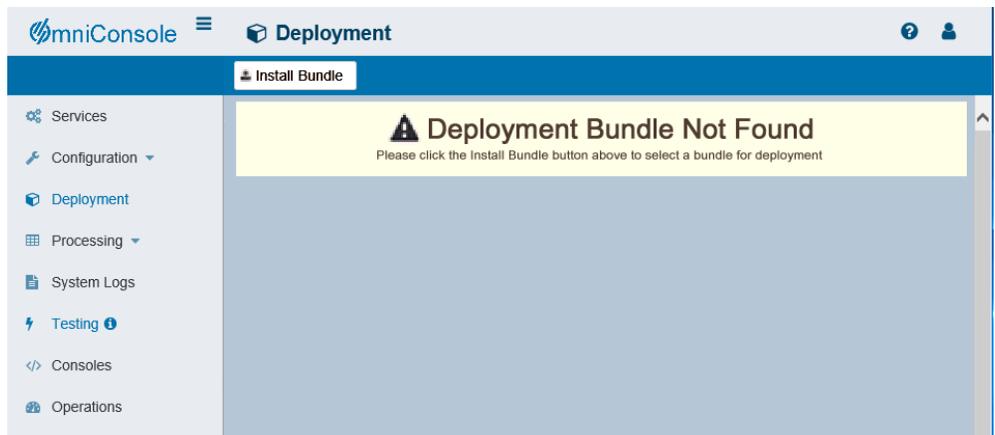
4. Log on using the following credentials:

Username: **ibi**

Password: **ibi**

5. Deploy the bundle by clicking *Deployment* in the left pane.

The Deployment pane opens, with the message *Deployment Bundle Not found*, as shown in the following image.



6. Click *Install Bundle*.

The Open dialog box is displayed.

7. Navigate to the location of your current production deployment bundle file.
8. Select your current production deployment bundle file and click *Open*.

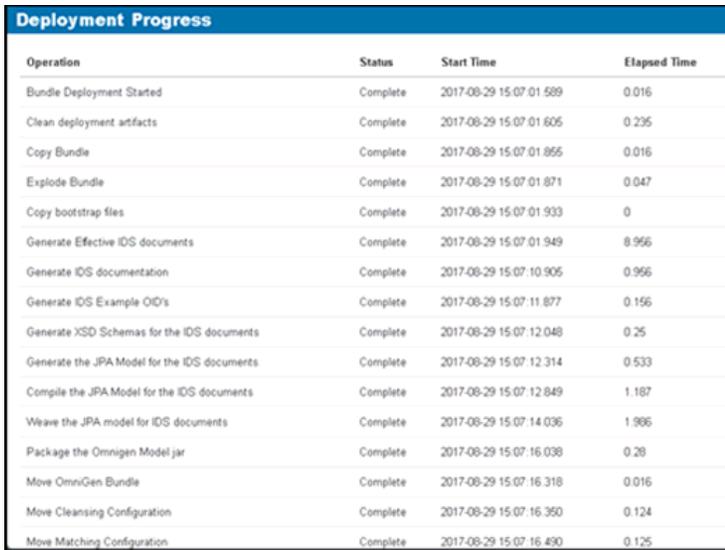
1. Upgrading Omni Server and Omni-HealthData Governance Console on Windows Platforms

A blank Deployment Progress window opens, as shown in the following image.



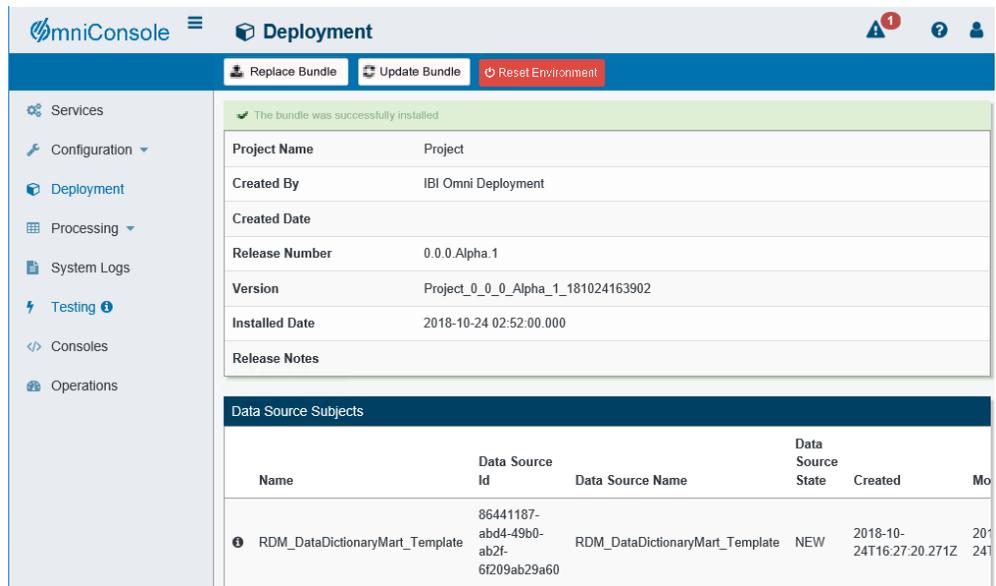
Operation	Status	Start Time	Elapsed Time
-----------	--------	------------	--------------

The Deployment Progress window will start to display information and progress during the whole deployment process, as shown in the following image.



Operation	Status	Start Time	Elapsed Time
Bundle Deployment Started	Complete	2017-08-29 15:07:01.589	0.016
Clean deployment artifacts	Complete	2017-08-29 15:07:01.605	0.235
Copy Bundle	Complete	2017-08-29 15:07:01.855	0.016
Explode Bundle	Complete	2017-08-29 15:07:01.871	0.047
Copy bootstrap files	Complete	2017-08-29 15:07:01.933	0
Generate Effective IDS documents	Complete	2017-08-29 15:07:01.949	8.956
Generate IDS documentation	Complete	2017-08-29 15:07:10.905	0.956
Generate IDS Example OIDs	Complete	2017-08-29 15:07:11.877	0.156
Generate XSD Schemas for the IDS documents	Complete	2017-08-29 15:07:12.048	0.25
Generate the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.314	0.533
Compile the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.849	1.187
Weave the JPA model for IDS documents	Complete	2017-08-29 15:07:14.036	1.986
Package the Omnigen Model jar	Complete	2017-08-29 15:07:16.038	0.28
Move OmniGen Bundle	Complete	2017-08-29 15:07:16.318	0.016
Move Cleansing Configuration	Complete	2017-08-29 15:07:16.350	0.124
Move Matching Configuration	Complete	2017-08-29 15:07:16.490	0.125

When the process is completed, a *successfully installed* message is displayed, as shown in the following image.



The screenshot shows the OmniConsole interface with the 'Deployment' tab selected. A green notification banner at the top states 'The bundle was successfully installed'. Below this, a table displays deployment details:

Project Name	Project
Created By	IBI Omni Deployment
Created Date	
Release Number	0.0.0.Alpha.1
Version	Project_0_0_0_Alpha_1_181024163902
Installed Date	2018-10-24 02:52:00.000
Release Notes	

Below the deployment details is a section titled 'Data Source Subjects' containing a table with the following data:

Name	Data Source Id	Data Source Name	Data Source State	Created	Mo
RDM_DataDictionaryMart_Template	86441187-abd4-49b0-ab2f-6f209ab29a60	RDM_DataDictionaryMart_Template	NEW	2018-10-24T16:27:20.271Z	24

Upgrading Your Current Production Bundle

This section describes how to upgrade your current production bundle with the changes that are supplied with your upgrade.

Procedure: How to Upgrade Your Current Production Bundle

1. Navigate to the location of the default deployment bundle file that ships with your upgrade.

The default bundle can be found in the *omnihealthdatabundle* folder under your *omnigen* home directory. For example:

```
C:\omni\product\omnihealthdata\omnigen\omnihealthdatabundle
```

2. Save the default bundle to the location where you manage your deployment bundles.
3. Replace the mastering folder in the default bundle with the mastering folder from your current production bundle.
4. Save the bundle according to your naming conventions as your upgraded production bundle.

Procedure: How to Deploy Your Upgraded Production Bundle

1. Navigate to the *omnigen* home directory.

For example:

```
C:\omni\product\omnihealthdata\omnigen
```

2. Type the following command to stop the controller:

```
omni stop-controller
```

3. Run the following command, setting the server back to your production configuration:

```
omnigen configure -Dconfiguration.properties=C:\omni\product\omnihealthdata\properties\og_configuration.properties
```

4. Copy (backup) the following folders:

```
\omnigen\OmniServer\bundle  
\omnigen\OmniServer\cmd  
\omnigen\OmniServer\dbms
```

5. Copy the permanent iWay Data Quality Center (DQC) licenses from your backup to your new implementation.

```
\omnigen\OmniServer\mastering\runtime\license_keys
```

6. Open a command prompt and enter the following command, then press *Enter*:

```
omni start-controller
```

Note: When installation has completed, a BUILD Successful message appears, but the startup process continues for a few minutes. You must wait for this process to complete before proceeding to the next step.

7. Using your browser, open the Omni Console by entering the following URL:

```
https://yourhost.yourdomain.com:9500
```

For example:

```
https://omnihealthdata.ibi.com:9500
```

Note: You cannot use *localhost* in the URL. You must use the appropriate protocol (HTTP or HTTPS) as specified in the *server.runtime.http-protocol* property of the *og_configuration.properties* file.

8. Log on using the following credentials:

❑ Username: **ibi**

Password: **ibi**

9. Deploy the bundle by clicking *Deployment* in the left pane.

The Deployment pane opens, with the *Update Bundle* option.

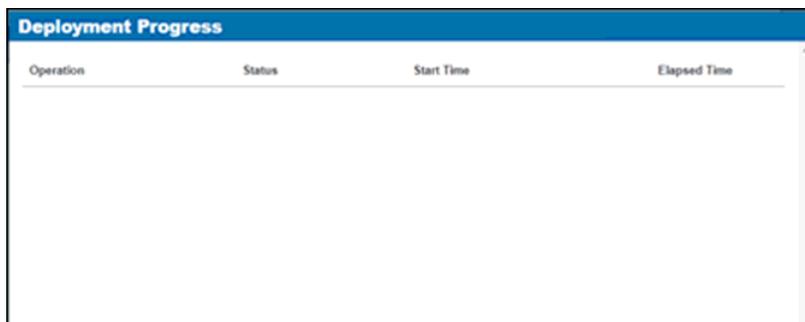
10. Click *Update Bundle*.

The Open dialog box is displayed.

11. Navigate to the location of your upgraded production deployment bundle file.

12. Select your deployment bundle file and click *Open*.

A blank Deployment Progress window opens, as shown in the following image.

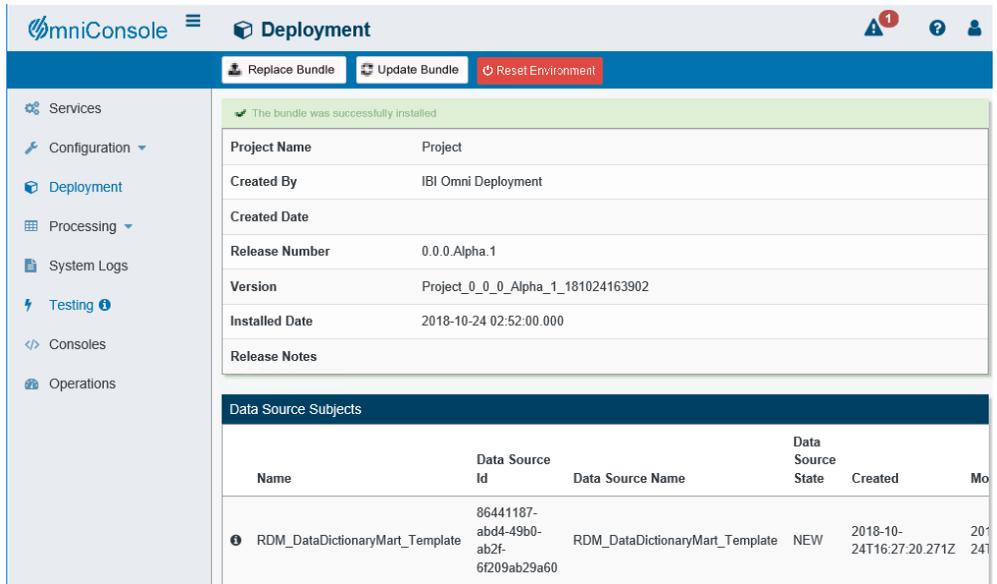


The Deployment Progress window will start to display information and progress during the whole deployment process, as shown in the following image.

Deployment Progress			
Operation	Status	Start Time	Elapsed Time
Bundle Deployment Started	Complete	2017-08-29 15:07:01.589	0.016
Clean deployment artifacts	Complete	2017-08-29 15:07:01.605	0.235
Copy Bundle	Complete	2017-08-29 15:07:01.855	0.016
Explode Bundle	Complete	2017-08-29 15:07:01.871	0.047
Copy bootstrap files	Complete	2017-08-29 15:07:01.933	0
Generate Effective IDS documents	Complete	2017-08-29 15:07:01.949	8.956
Generate IDS documentation	Complete	2017-08-29 15:07:10.905	0.956
Generate IDS Example OIDs	Complete	2017-08-29 15:07:11.877	0.156
Generate XSD Schemas for the IDS documents	Complete	2017-08-29 15:07:12.048	0.25
Generate the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.314	0.533
Compile the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.849	1.187
Weave the JPA model for IDS documents	Complete	2017-08-29 15:07:14.036	1.986
Package the Omnigen Model jar	Complete	2017-08-29 15:07:16.038	0.28
Move Omnigen Bundle	Complete	2017-08-29 15:07:16.318	0.016
Move Cleansing Configuration	Complete	2017-08-29 15:07:16.350	0.124
Move Matching Configuration	Complete	2017-08-29 15:07:16.490	0.125

1. Upgrading Omni Server and Omni-HealthData Governance Console on Windows Platforms

When the process is completed, a *successfully installed* message is displayed, as shown in the following image.



The screenshot shows the OmniConsole interface with the Deployment page active. A green notification banner at the top states "The bundle was successfully installed". Below this, a table displays deployment details:

Project Name	Project
Created By	IBI Omni Deployment
Created Date	
Release Number	0.0.0.Alpha.1
Version	Project_0_0_0_Alpha_1_181024163902
Installed Date	2018-10-24 02:52:00.000
Release Notes	

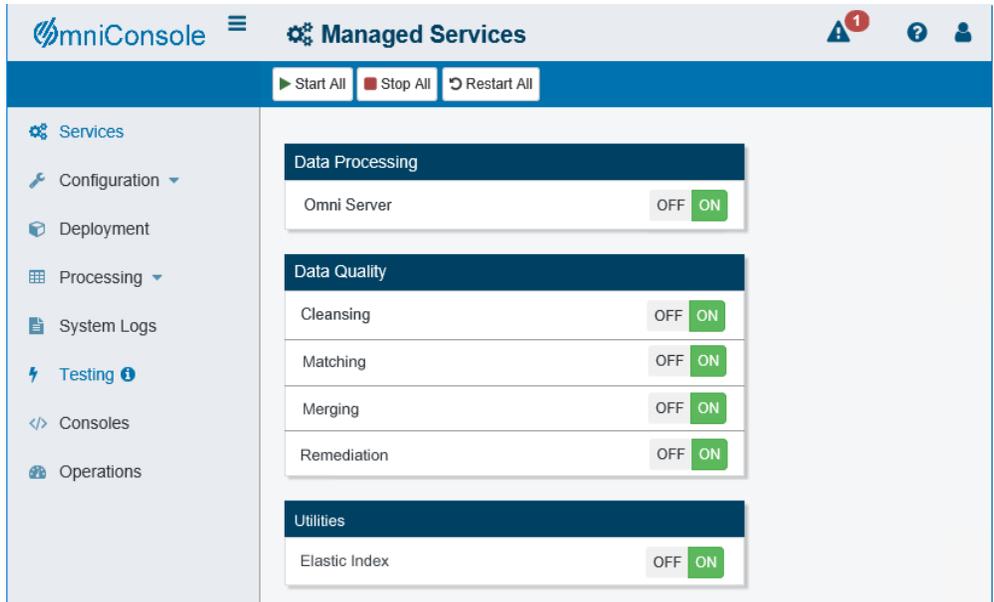
Below the deployment details is a section titled "Data Source Subjects" containing a table with the following data:

Name	Data Source Id	Data Source Name	Data Source State	Created	Mo
RDM_DataDictionaryMart_Template	86441187-abd4-49b0-ab2f-6f209ab29a60	RDM_DataDictionaryMart_Template	NEW	2018-10-24T16:27:20.271Z	24

13. Start Omni Server and the related services by clicking *Services* in the left pane and then clicking *Start All*.

Reinitializing Your WSO2 Identity Server Configuration

If the memory on your system is insufficient, you can also start each service one at a time. Start from the Utilities section and work upwards, as shown in the following image.



14. After starting the Matching service for the first time, you must navigate to the `repos_<subject>_wgid` and `repos_<subject>_wpk` tables in the `omnirepo` database, and drop their corresponding indexes, as they are not required and will impact performance:

- `repos_<subject>_wgid_ix0`
- `repos_<subject>_wpk_ix0`

Reinitializing Your WSO2 Identity Server Configuration

This section describes how to reinitialize your WSO2 Identity Server configuration.

Procedure: How to Reinitialize Your WSO2 Configuration

1. Navigate to the following directory:

```
C:\omni\product\omnihealthdata\ohdgc\ogc\bin\tools
```

2. Replace the following `wso2_is` folder with your backup copy of the `wso2_is` folder:

```
C:\omni\product\omnihealthdata\ohdgc\ogc\bin\tools\wso2_is
```

Reinitializing Your MData in Omni-HealthData Governance Console

This section describes how to reinitialize your MData in Omni-HealthData Governance Console (OHDGC).

Procedure: How to Reinitialize Your MData in OHDGC

1. If Windows services are implemented:
 1. Open the Windows Services manager.
 2. Copy the properties for the following services from:
`iWay_ogc_<old_release>_*`
 - to:
`iWay_ogc_<new_release>_*_`
 3. Start the <new_release> services:
For example:
`iWay_ogc_<new_release>_*`
 4. Turn off the following properties for the <old_release> services:
`iWay_ogc`
 5. Remove the <old_release> services at your convenience.
For example:
`iWay_ogc_<old_release>_*`
2. If Windows services are not implemented:
 1. Navigate to the Omni-HealthData Governance Console (OHDGC) installation directory.
For example:
`C:\omni\product\omnihealthdata\ohdgc`
 2. Navigate to the following subdirectory:
`C:\omni\product\omnihealthdata\ohdgc\ogc\bin\ibi`
 3. Enter the following command in the command prompt:
`ogcstart.exe`
3. Navigate to the following directory:
`C:\omni\product\omnihealthdata\ohdgc\ogc\bin\ibi`

4. Log on to OHDGC and load the metadata using your browser.

For example:

<http://omnihealthdata.ibi.com:9090/ogc>

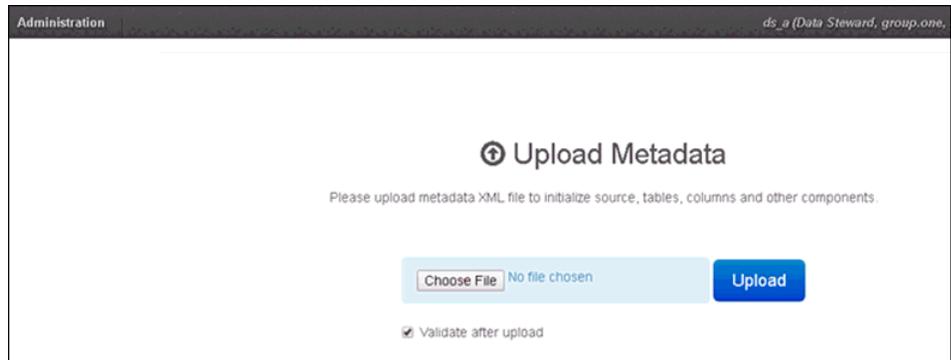
5. Log on using the preauthorized WS02 Identity Server local (primary) credentials, which can be used to perform other startup actions until site-specific credentials and permissions are added.

For example:

Username: **primary/super_a**

Password: **supera123**

The Upload Metadata pane opens, as shown in the following image.



6. Click *Choose File* and navigate to the following folder:

`<OHDGCInstall_Dir>\ogc\bin\ibi\mdata`

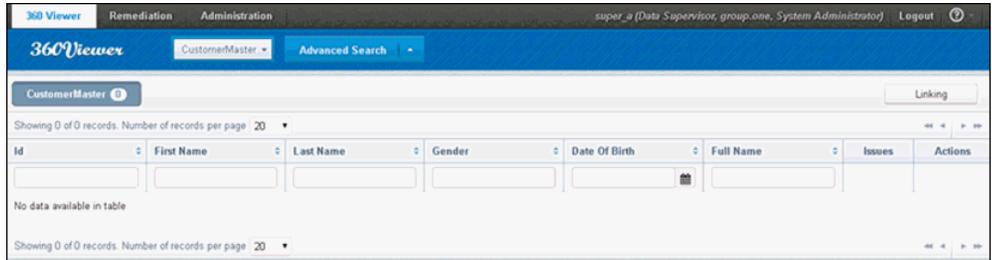
For example:

`C:\omni\product\omnihealthdata\ogc\bin\ibi\mdata`

7. Select the *MData.xml* file.
8. Ensure that the *Validate after upload* check box is selected, then click *Upload*.

1. Upgrading Omni Server and Omni-HealthData Governance Console on Windows Platforms

OHDGC opens and displays the 360 Viewer page, as shown in the following image.



Omni Server and OHDGC are now upgraded and ready for use.

Chapter 2

Upgrading Omni Server and Omni-HealthData Governance Console on Linux Platforms

This chapter describes how to upgrade the primary components of Omni-HealthData version 3.1 on Linux platforms.

In this chapter:

- ❑ [Upgrading Omni Server](#)
- ❑ [Installing a New Version of Omni-HealthData Governance Console](#)
- ❑ [Deploying Your Current Production Bundle on the Upgraded Omni Server](#)
- ❑ [Upgrading Your Current Production Bundle](#)
- ❑ [Reinitializing Your WS02 Identity Server Configuration](#)
- ❑ [Reinitializing Your MData in Omni-HealthData Governance Console](#)

Upgrading Omni Server

This section describes how to upgrade Omni Server, which consists of the following steps:

1. Backup your MData in Omni-HealthData Governance Console.
For more information, see [How to Backup Your MData in Omni-HealthData Governance Console](#) on page 48.
2. Backup configuration properties updated in the Omni Console.
For more information, see [How to Backup Configuration Properties Updated in the Omni Console](#) on page 48.
3. Stop all services and the controller.
For more information, see [How to Stop All Services and the Controller](#) on page 49.
4. Stop Omni-HealthData Governance Console (Apache Tomcat and WS02 Identity Server).
For more information, see [How to Stop Omni-HealthData Governance Console \(Apache Tomcat and WS02 Identity Server\)](#) on page 49.
5. Backup the Omni-HealthData Governance Console home directory.
For more information, see [How to Backup the Omni-HealthData Governance Console Home Directory](#) on page 50.

6. Backup the omnigen home directory.
For more information, see [How to Backup the Omnigen Home Directory](#) on page 50.
7. Backup Omni-HealthData databases.
For more information, see [How to Backup the Omni-HealthData Databases](#) on page 51.
8. Create the *omnihealthdata_upgrade* and *omnirepo_upgrade* databases.
For more information, see [How to Create the omnihealthdata_upgrade and omnirepo_upgrade Databases](#) on page 51.
9. Download and install a new version of Omni-HealthData.
For more information, see [How to Download and Install a New Version of Omni-HealthData](#) on page 51.

Procedure: How to Backup Your MData in Omni-HealthData Governance Console

1. Log on to Omni-HealthData Governance Console (OHDGC) to download metadata using your browser.
For example:
<http://omnihealthdata.ibi.com:9090/ogc>
2. Log on using the preauthorized WS02 Identity Server local (primary) credentials.
For example:
 - Username: **primary/super_a**
 - Password: **supera123**
3. Click *Administration* in the top menu, then select *Download Metadata* from the navigation bar.
4. Save the MData.xml file in the location where you store your backups.

Backup Configuration Properties Updated in the Omni Console

This section describes how to backup configuration properties that have been updated in the Omni Console.

Procedure: How to Backup Configuration Properties Updated in the Omni Console

1. Using your browser, open the Omni Console by entering the following URL:
<https://yourhost.yourdomain.com:9500>
For example:

<https://omnihealthdata.ibi.com:9500>

Note: You cannot use *localhost* in the URL. You must use the appropriate protocol (HTTP or HTTPS) as specified in the *server.runtime.http-protocol* property of the *og_configuration.properties* file.

2. Log on using the following credentials:

Username: **ibi**

Password: **ibi**

3. Make a note of any properties that were updated in the Configuration section, which can be accessed in the left pane.

4. Navigate to the */omnihealthdata/properties* directory.

For example:

[data/omni/product/omnihealthdata/properties](#)

5. Update the corresponding properties in the *og_configurations.properties* file based on any changes to the properties identified in step 3.
6. Save the *og_configurations.properties* file.

Procedure: How to Stop All Services and the Controller

1. Ensure that no work orders are currently running in the Omni Console.
2. Navigate to the *OmniServer* home directory.

For example:

[/data/omni/product/omnihealthdata/omnigen/OmniServer](#)

3. Open a terminal window and type the following command to stop all services:

```
./omni.sh stop-all
```

4. Upon successful notification that all services are stopped, enter the following command to stop the controller:

```
./omni.sh stop-controller
```

Procedure: How to Stop Omni-HealthData Governance Console (Apache Tomcat and WSO2 Identity Server)

1. Navigate to the OHDGC installation directory.

For example:

```
/data/omni/product/omnihealthdata/ohdgc
```

2. Navigate to the location of the `tomcatstop.sh` file.

For example:

```
/data/omni/product/omnihealthdata/ohdgc/ogc/bin/ibi/
```

3. Open a terminal window, enter the following command, then press *Enter* to stop Apache Tomcat:

```
./tomcatstop.sh
```

4. When Apache Tomcat has stopped, open the WSO2 Identity Server Management Console in your browser by entering the following URL:

```
https://yourhost.yourdomain.com:9443
```

For example:

```
https://omnihealthdata.ibi.com:9443
```

Note: You must use the appropriate protocol (HTTP or HTTPS) as specified in the `server.runtime.http-protocol` property of the `og_configuration.properties` file.

5. Log on using the following credentials:

Username: **admin**

Password: **admin**

6. Click *Shutdown/Restart* in the Manage section of the left navigation panel.
7. Click *Graceful Shutdown* to stop the WSO2 Identity Server.

Procedure: How to Backup the Omni-HealthData Governance Console Home Directory

1. Navigate to the `omnihealthdata` subdirectory where your base installation is located.

For example:

```
/data/omni/product/omnihealthdata
```

2. Rename the `ohdgc` directory to:

```
ohdgc_<project_revision>
```

Procedure: How to Backup the Omnigen Home Directory

1. Navigate to the `omnihealthdata` subdirectory where your base installation is located.

For example:

```
/data/omni/product/omnihealthdata
```

2. Rename the *omnigen* directory to:

```
omnigen_<project_revision>
```

Procedure: How to Backup the Omni-HealthData Databases

Upon successful shutdown of the WS02 Identity Server, backup the corresponding *omnihealthdata* and *omnirepo* databases for the Omni-HealthData (OHD) environment you want to upgrade.

Procedure: How to Create the omnihealthdata_upgrade and omnirepo_upgrade Databases

1. If the *omnihealthdata_upgrade* database already exists, then drop this database.
2. Recreate the *omnihealthdata_upgrade* database, following the same instructions found in the *Installation Prerequisites* section of the *Omni-HealthData™ Installer User's Guide* for the *omnihealthdata* database.
3. If the *omnirepo_upgrade* database already exists, then drop this database.
4. Recreate the *omnirepo_upgrade* database, following the same instructions found in the *Installation Prerequisites* section of the *Omni-HealthData™ Installer User's Guide* for the *omnirepo* database.

Procedure: How to Download and Install a New Version of Omni-HealthData

1. Download the latest binary package (*ohdbinarypackage*bin.tar*) from the Information Builders Technical Support Center (<http://techsupport.informationbuilders.com>).
2. Unzip the *ohdbinarypackage* into the *omnihealthdata* subdirectory where your base install is located.

For example:

```
/data/omni/product/omnihealthdata
```

3. Navigate to the *omnihealthdata/properties* subdirectory.

For example:

```
/data/omni/product/omnihealthdata/properties
```

4. Ensure that the memory settings in the *og_configurations.properties* file reflect the current production settings from the Omni Console. If not, then you must update them.
5. If the *og_configurations_upgrade.properties* file does not exist, then create it by copying the *og_configurations.properties* file, and saving it as *og_configurations_upgrade.properties*, after updating the following entries:

```
ogs.db.url=jdbc:postgresql://localhost:5432/omnihealthdata_upgrade
dq.db.url=jdbc:postgresql://localhost:5432/omnirepo_upgrade
hv.db.url=jdbc:postgresql://localhost:5432/omnihealthdata_upgrade
```

6. Navigate to the created *omnigen* home directory.

For example:

```
/data/omni/product/omnihealthdata/omnigen
```

7. Navigate to the *sample_configuration* directory and compare the *og_configurations.properties* file with the existing *og_configurations.properties* file in the following subdirectory:

```
/data/omni/product/omnihealthdata/properties
```

If any new properties have been added to the file with your new release, manually copy them into the following files and save them both:

```
/data/omni/product/omnihealthdata/properties/
og_configurations.properties
```

```
/data/omni/product/omnihealthdata/properties/
og_configurations_upgrade.properties
```

8. Navigate back to the *omnigen* home directory.
9. Run the following configuration command:

```
./omnigen.sh configure -Dconfiguration.properties=/data/omni/product/
omnihealthdata/properties/og_configuration_upgrade.properties
```

Installing a New Version of Omni-HealthData Governance Console

This section describes how to install a new version of Omni-HealthData Governance Console (OHDGC) on Linux platforms.

Procedure: How to Upgrade Omni-HealthData Governance Console

1. Navigate to the *omnigen* home directory.

For example:

```
/data/omni/product/omnihealthdata/omnigen
```

2. Navigate to the *omnihealthdatagc* directory.

For example:

```
/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc
```

3. Enter the following command to run OHDGC installer in console mode:

```
./OHDGCInstallerLinux*.bin
```

OHDGC installer starts and displays the Introduction pane, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
Omni-HealthData Governance Console (created with InstallAnywhere)
-----
Preparing CONSOLE Mode Installation...

=====
Introduction
-----

InstallAnywhere will guide you through the installation of Omni-HealthData
Governance Console version 3.1.4

It is strongly recommended that you quit all programs before continuing with
this installation.

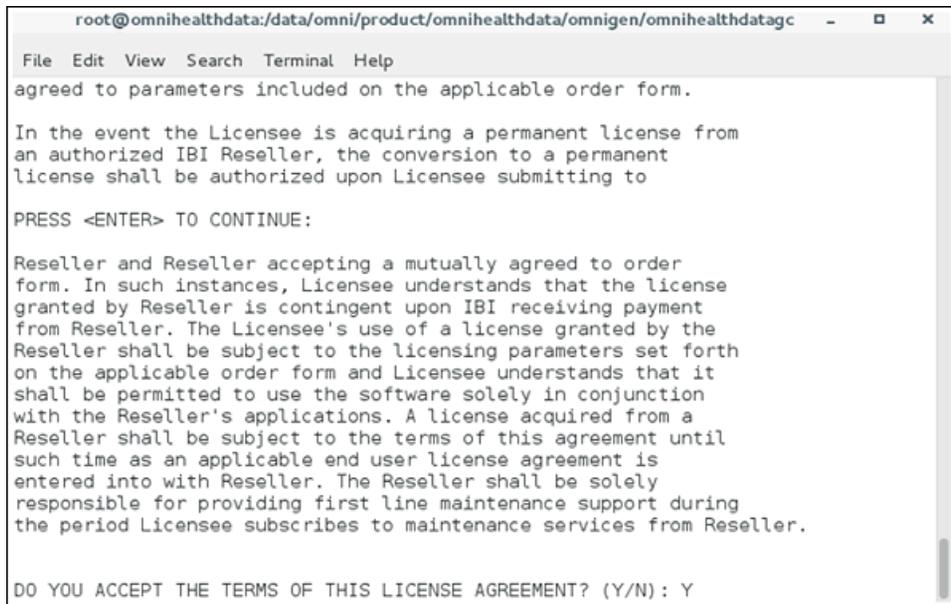
Respond to each prompt to proceed to the next step in the installation. If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE: █
```

4. Press *Enter* to continue.

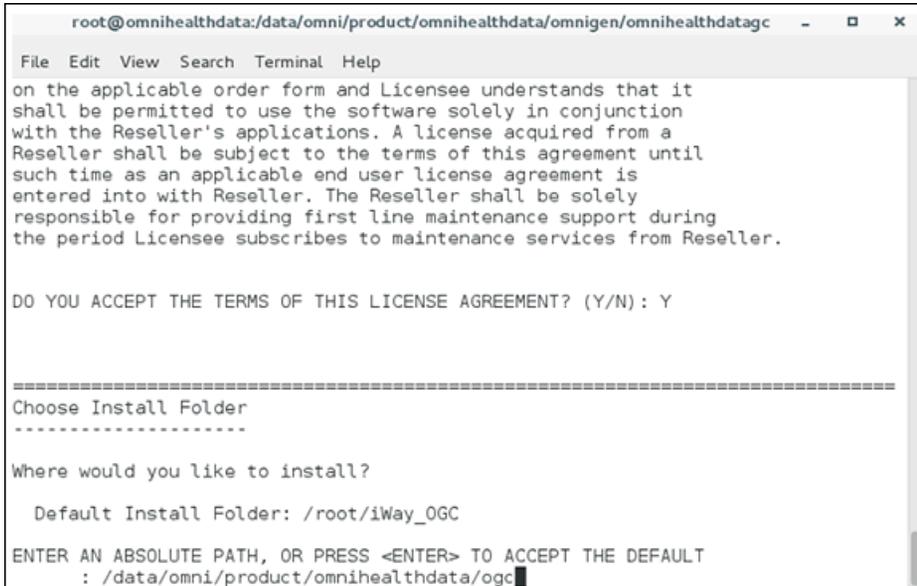
The License Agreement Terms and Conditions pane opens, as shown in the following image.

A terminal window titled 'root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal displays the following text:

```
agreed to parameters included on the applicable order form.  
  
In the event the licensee is acquiring a permanent license from  
an authorized IBI Reseller, the conversion to a permanent  
license shall be authorized upon Licensee submitting to  
  
PRESS <ENTER> TO CONTINUE:  
  
Reseller and Reseller accepting a mutually agreed to order  
form. In such instances, Licensee understands that the license  
granted by Reseller is contingent upon IBI receiving payment  
from Reseller. The Licensee's use of a license granted by the  
Reseller shall be subject to the licensing parameters set forth  
on the applicable order form and Licensee understands that it  
shall be permitted to use the software solely in conjunction  
with the Reseller's applications. A license acquired from a  
Reseller shall be subject to the terms of this agreement until  
such time as an applicable end user license agreement is  
entered into with Reseller. The Reseller shall be solely  
responsible for providing first line maintenance support during  
the period Licensee subscribes to maintenance services from Reseller.  
  
DO YOU ACCEPT THE TERMS OF THIS LICENSE AGREEMENT? (Y/N): Y
```

5. Read the terms of the license agreement and continue to press *Enter* until you reach the last section of the license agreement.
6. Enter Y to accept the terms of the license agreement and then and press *Enter* to continue.

The Choose Install Folder pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
on the applicable order form and Licensee understands that it
shall be permitted to use the software solely in conjunction
with the Reseller's applications. A license acquired from a
Reseller shall be subject to the terms of this agreement until
such time as an applicable end user license agreement is
entered into with Reseller. The Reseller shall be solely
responsible for providing first line maintenance support during
the period Licensee subscribes to maintenance services from Reseller.

DO YOU ACCEPT THE TERMS OF THIS LICENSE AGREEMENT? (Y/N): Y

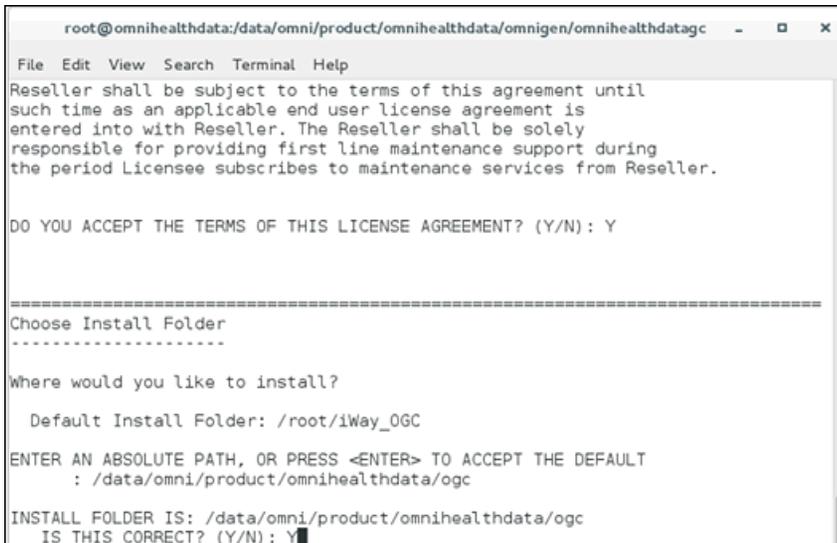
=====
Choose Install Folder
-----
Where would you like to install?

Default Install Folder: /root/iWay_OGC

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
: /data/omni/product/omnihealthdata/ogc
```

7. Enter the desired installation location (for example, `/data/omni/product/omnihealthdata/ogdc`), and then press *Enter* to continue.

A prompt to confirm the path is displayed, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
Reseller shall be subject to the terms of this agreement until
such time as an applicable end user license agreement is
entered into with Reseller. The Reseller shall be solely
responsible for providing first line maintenance support during
the period Licensee subscribes to maintenance services from Reseller.

DO YOU ACCEPT THE TERMS OF THIS LICENSE AGREEMENT? (Y/N): Y

=====
Choose Install Folder
-----
Where would you like to install?

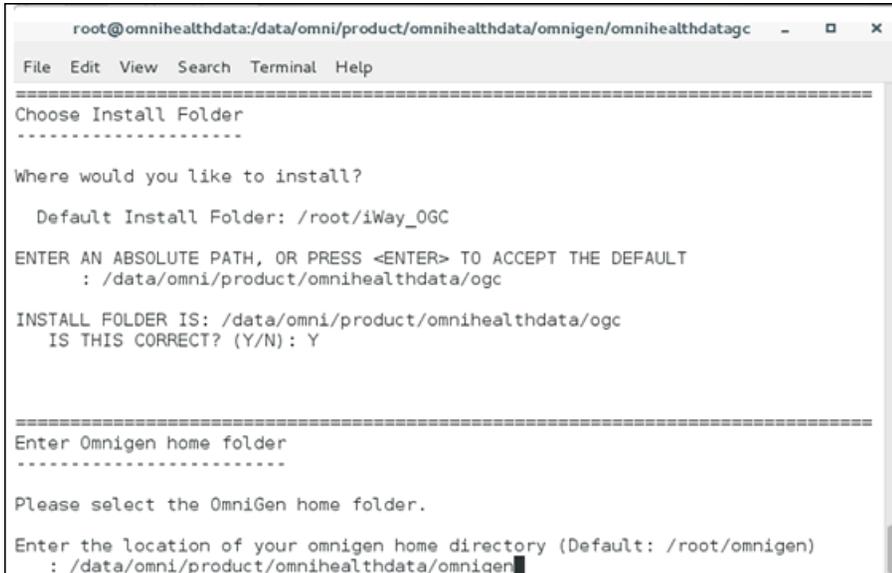
Default Install Folder: /root/iWay_OGC

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
: /data/omni/product/omnihealthdata/ogc

INSTALL FOLDER IS: /data/omni/product/omnihealthdata/ogc
IS THIS CORRECT? (Y/N): Y
```

8. Select *Y* to confirm and then press *Enter* to continue.

The Enter Omnigen home folder pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
=====
Choose Install Folder
-----

Where would you like to install?

Default Install Folder: /root/iWay_OGC
ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
: /data/omni/product/omnihealthdata/ogc
INSTALL FOLDER IS: /data/omni/product/omnihealthdata/ogc
IS THIS CORRECT? (Y/N): Y

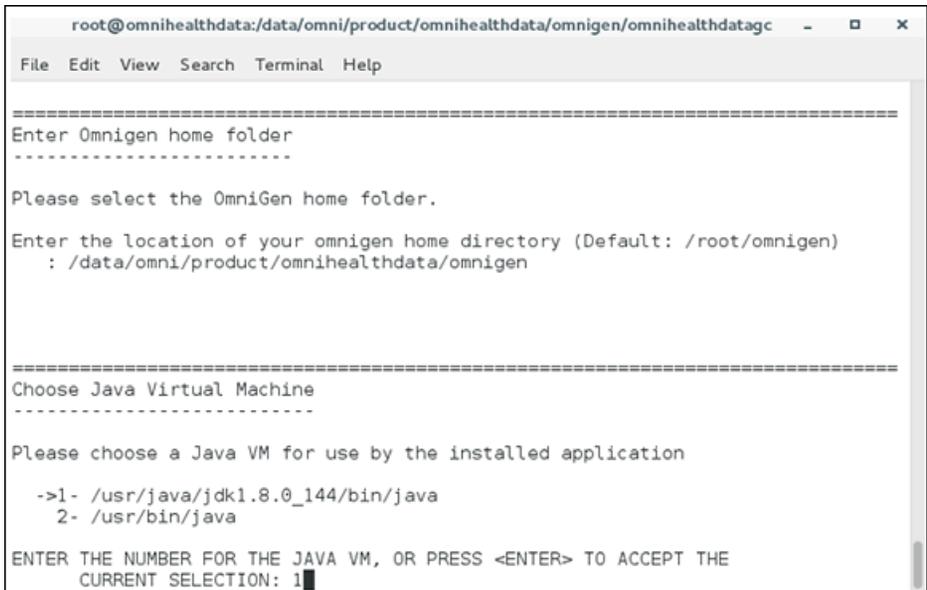
=====
Enter Omnigen home folder
-----

Please select the OmniGen home folder.

Enter the location of your omnigen home directory (Default: /root/omnigen)
: /data/omni/product/omnihealthdata/omnigen
```

9. Enter the location of your *omnigen* home directory (for example, */data/omni/product/omnihealthdata/omnigen*), and then press *Enter* to continue.

The Choose Java Virtual Machine pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
=====
Enter Omnigen home folder
-----

Please select the OmniGen home folder.

Enter the location of your omnigen home directory (Default: /root/omnigen)
: /data/omni/product/omnihealthdata/omnigen

=====
Choose Java Virtual Machine
-----

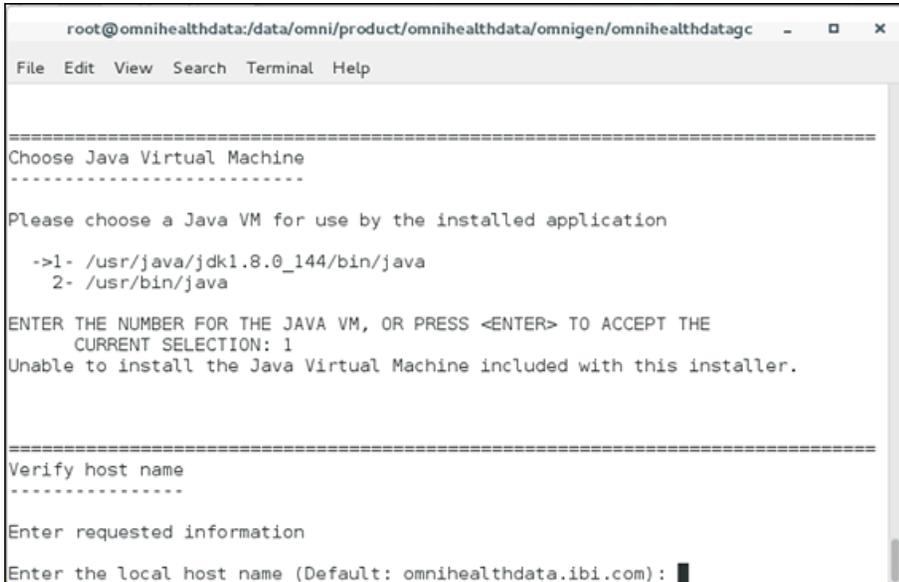
Please choose a Java VM for use by the installed application

->1- /usr/java/jdk1.8.0_144/bin/java
2- /usr/bin/java

ENTER THE NUMBER FOR THE JAVA VM, OR PRESS <ENTER> TO ACCEPT THE
CURRENT SELECTION: 1
```

10. Ensure that the Java version located is version 1.8 or higher, and then press *Enter* to continue.

The Verify host name pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - _ x
File Edit View Search Terminal Help
=====
Choose Java Virtual Machine
-----
Please choose a Java VM for use by the installed application

->1- /usr/java/jdk1.8.0_144/bin/java
   2- /usr/bin/java

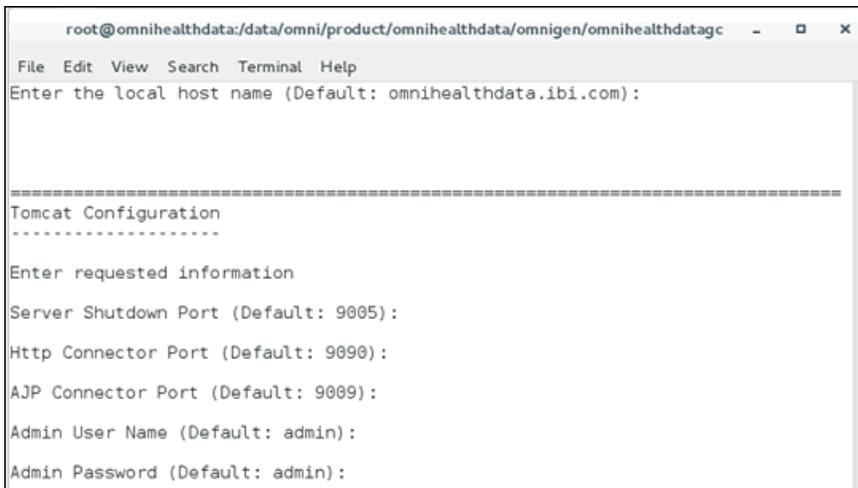
ENTER THE NUMBER FOR THE JAVA VM, OR PRESS <ENTER> TO ACCEPT THE
CURRENT SELECTION: 1
Unable to install the Java Virtual Machine included with this installer.

=====
Verify host name
-----
Enter requested information

Enter the local host name (Default: omnihealthdata.ibi.com): █
```

11. Change the local host name or accept the default value specified in the `og_configuration_update.properties` file, and then press *Enter* to continue.

The Tomcat Configuration pane opens, as shown in the following image.



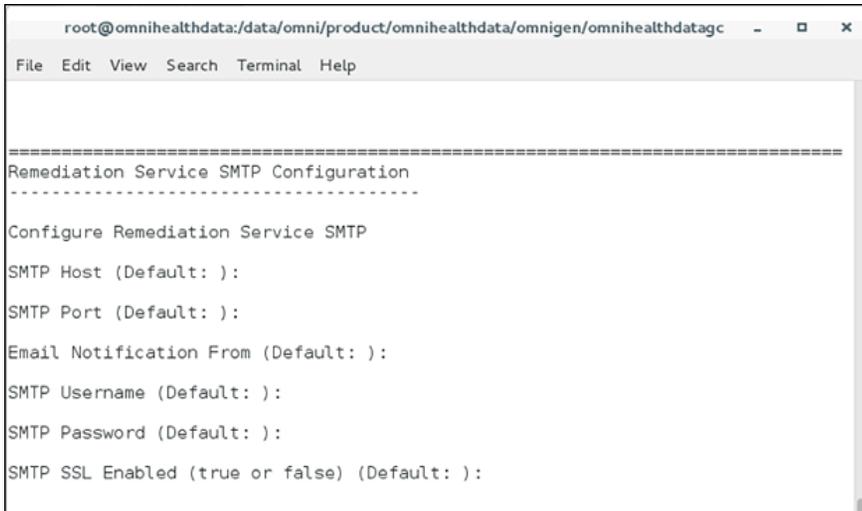
```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - _ x
File Edit View Search Terminal Help
Enter the local host name (Default: omnihealthdata.ibi.com):

=====
Tomcat Configuration
-----
Enter requested information

Server Shutdown Port (Default: 9005):
Http Connector Port (Default: 9090):
AJP Connector Port (Default: 9009):
Admin User Name (Default: admin):
Admin Password (Default: admin):
```

12. Verify the default ports, user name, and password, or modify the parameters accordingly, and then press *Enter* to continue.

The Remediation Service SMTP Configuration pane opens, as shown in the following image.



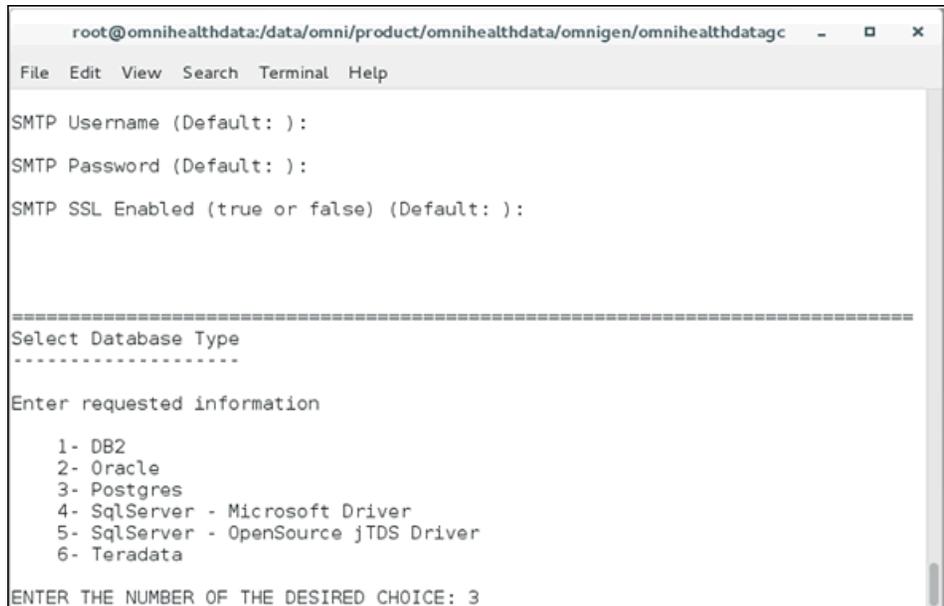
13. Leave the parameter values blank unless you are adding an email option.
 - a. To enable the email option, provide values for the following parameters as they apply to your SMTP email server:
 - SMTP Host.** Host name of your SMTP server (for example, *smtp.ibi.com*).
 - SMTP Port.** SMTP port on that server (usually port 25).
 - Email Notification From.** Email address from which the assignment emails will originate (for example, *OmniGen_Remediation@ibi.com*).
 - SMTP Username.** User name for accessing the email server.
 - SMTP Password.** Password associated with the user name for accessing the email server.
 - SMTP SSL Enabled (true or false).** Specify *true* if your email server supports or requires SSL authentication.
 - b. Press *Enter* to continue.

In addition, each user who will receive email notifications must have a valid email address in their WS02 Identity Server (WS02 IS) user profile.

- ❑ Each LDAP user with the *Data Steward* or *Data Supervisor* role, and who will receive Assignment emails, must have a valid email address in their Active Directory profile. When it makes the LDAP connection, WS02 IS will bring back those email addresses to its *Local User Store* profile of the user.
- ❑ Each hardcoded user in the WS02 IS *Primary* domain must have an email in their WS02 IS user profile.

14. Press *Enter* to continue.

The Select Database Type pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - _ □ ×
File Edit View Search Terminal Help

SMTP Username (Default: ):
SMTP Password (Default: ):
SMTP SSL Enabled (true or false) (Default: ):

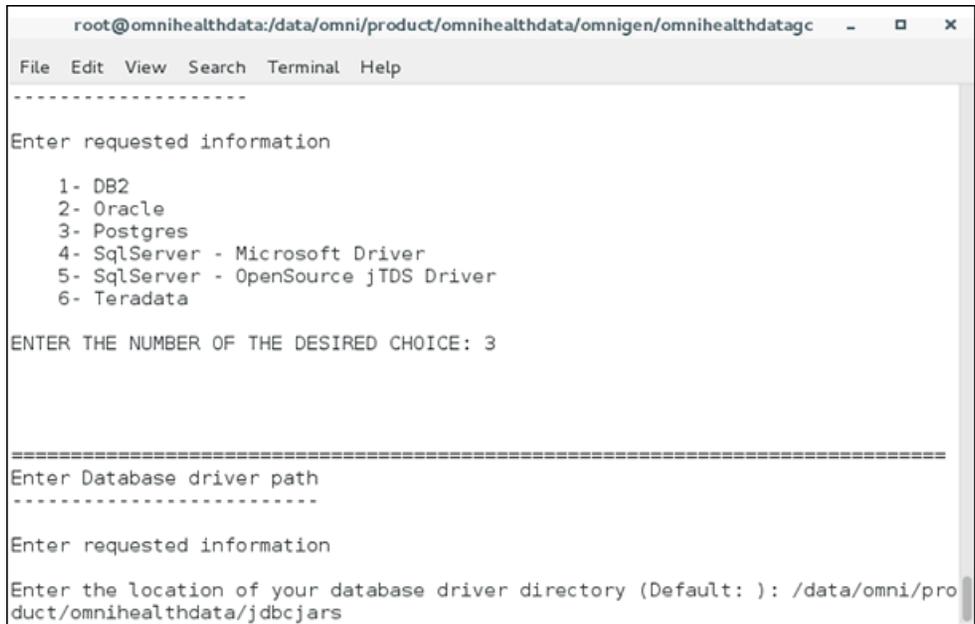
=====
Select Database Type
-----
Enter requested information

  1- DB2
  2- Oracle
  3- Postgres
  4- SqlServer - Microsoft Driver
  5- SqlServer - OpenSource jTDS Driver
  6- Teradata

ENTER THE NUMBER OF THE DESIRED CHOICE: 3
```

15. Select the appropriate database type, and then press *Enter*.

The Enter Database driver path pane opens, as shown in the following image.

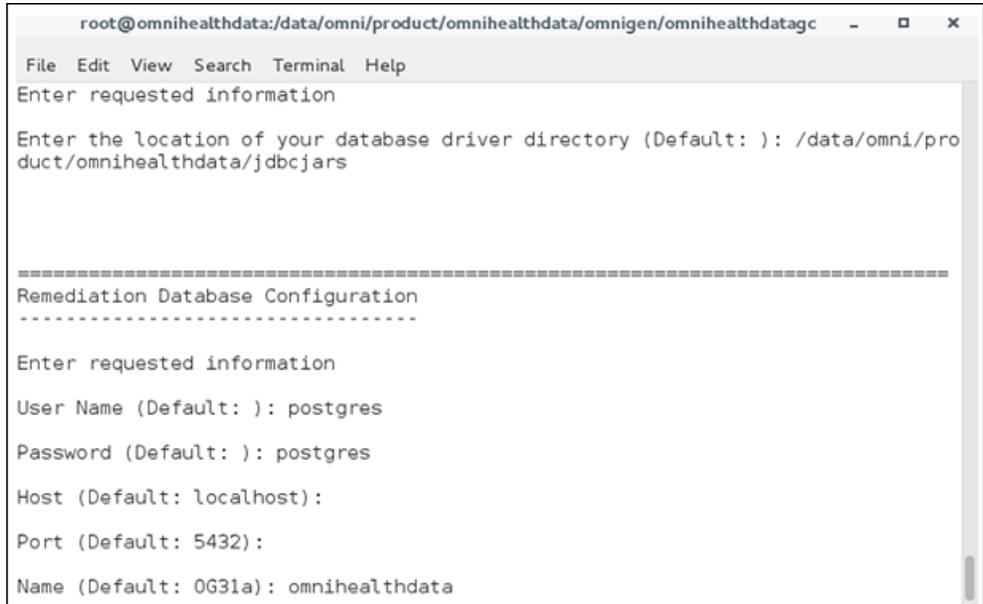


```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
-----
Enter requested information
  1- DB2
  2- Oracle
  3- Postgres
  4- SqlServer - Microsoft Driver
  5- SqlServer - OpenSource jTDS Driver
  6- Teradata
ENTER THE NUMBER OF THE DESIRED CHOICE: 3

=====
Enter Database driver path
-----
Enter requested information
Enter the location of your database driver directory (Default: ): /data/omni/pro
duct/omnihealthdata/jdbcjars
```

16. Specify the location of your JDBC .jar file(s) and then press *Enter*.

The Remediation Database Configuration pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
Enter requested information

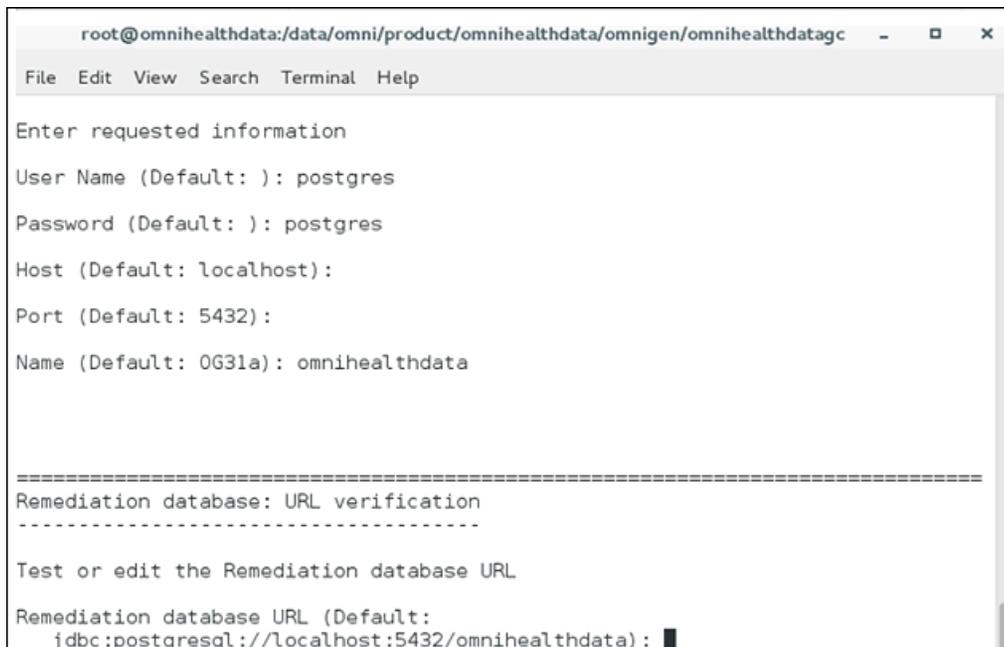
Enter the location of your database driver directory (Default: ): /data/omni/pro
duct/omnihealthdata/jdbcjars

=====
Remediation Database Configuration
-----

Enter requested information
User Name (Default: ): postgres
Password (Default: ): postgres
Host (Default: localhost):
Port (Default: 5432):
Name (Default: OG31a): omnihealthdata
```

17. Ensure that the Name parameter points to your omnihealthdata database connection.

The Remediation database: URL Verification pane opens, as shown in the following image.



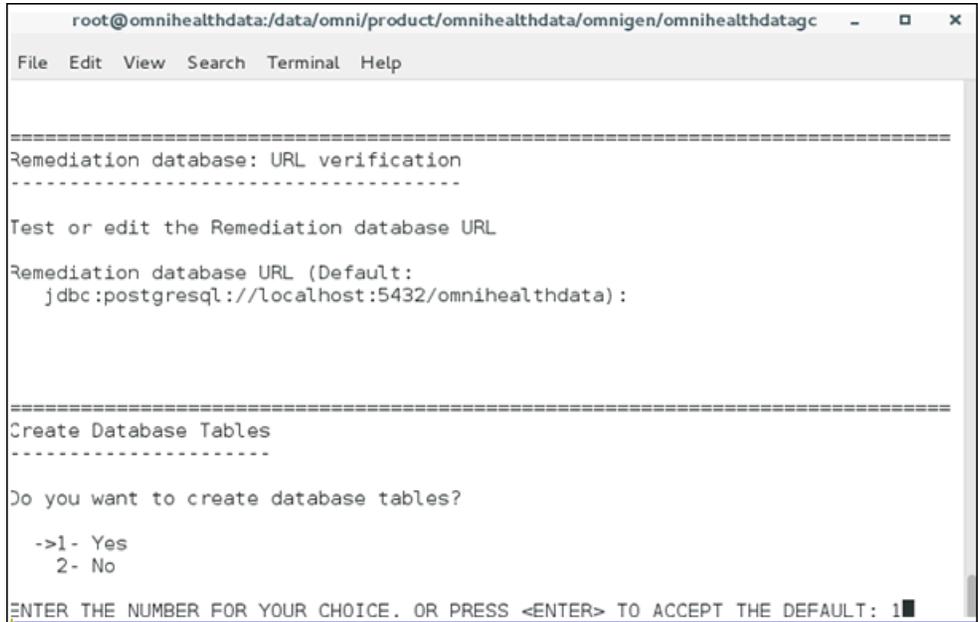
```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
Enter requested information
User Name (Default: ): postgres
Password (Default: ): postgres
Host (Default: localhost):
Port (Default: 5432):
Name (Default: 0G31a): omnihealthdata

=====
Remediation database: URL verification
-----

Test or edit the Remediation database URL
Remediation database URL (Default:
jdbc:postgresql://localhost:5432/omnihealthdata): █
```

18. Press *Enter* to continue.

The Create Database Tables pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
=====
Remediation database: URL verification
-----
Test or edit the Remediation database URL
Remediation database URL (Default:
  jdbc:postgresql://localhost:5432/omnihealthdata):
=====
Create Database Tables
-----
Do you want to create database tables?
->1- Yes
   2- No
ENTER THE NUMBER FOR YOUR CHOICE. OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1
```

19. Specify *No* to create the tables for the Remediation database, and then press *Enter* to continue.

Note: It is extremely important that you select *No* so that your existing database is preserved.

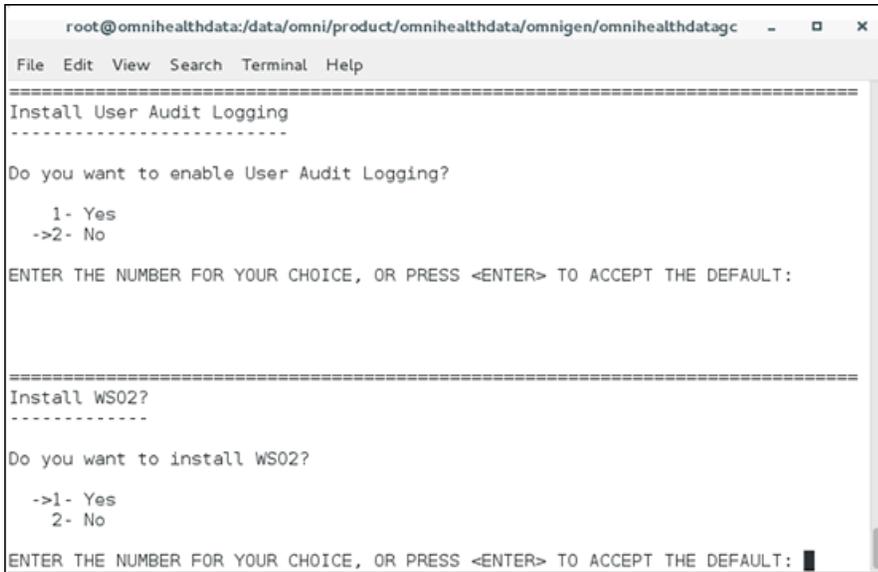
The following image shows test connection results for the specified database.

```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
=====
Create Database Tables
-----
Do you want to create database tables?
->1- Yes
   2- No
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

=====
Remediation Database Connection Test Passed
-----
Remediation Connection to jdbc:postgresql://localhost:5432/omnihealthdata
succeeded
PRESS <ENTER> TO CONTINUE: [ ]
```

20. Press *Enter* to continue.

The Install User Audit Logging and Install WS02 pane opens, as shown in the following image.

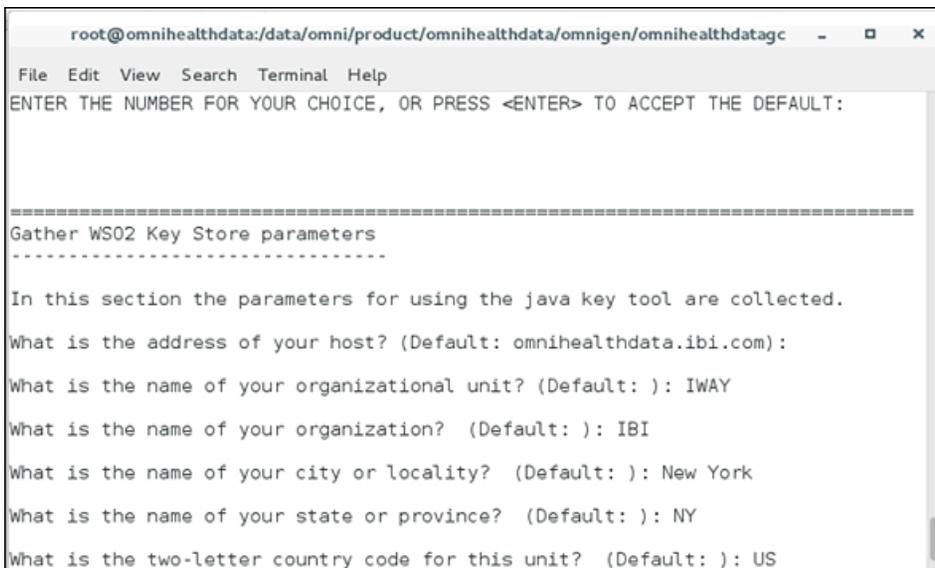


```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - _ x
File Edit View Search Terminal Help
=====
Install User Audit Logging
-----
Do you want to enable User Audit Logging?
  1- Yes
->2- No
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

=====
Install WS02?
-----
Do you want to install WS02?
  ->1- Yes
    2- No
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: █
```

21. Specify 2 - No where prompted to install User Audit Logging, 1 - Yes where prompted to install WS02, and then press *Enter* to continue.

The Gather WS02 Key Store parameters pane opens, as shown in the following image.



```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - _ x
File Edit View Search Terminal Help
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

=====
Gather WS02 Key Store parameters
-----
In this section the parameters for using the java key tool are collected.
What is the address of your host? (Default: omnihealthdata.ibi.com):
What is the name of your organizational unit? (Default: ): IWAY
What is the name of your organization? (Default: ): IBI
What is the name of your city or locality? (Default: ): New York
What is the name of your state or province? (Default: ): NY
What is the two-letter country code for this unit? (Default: ): US
```

22. Verify the default for the address of the host, populate appropriate entries for the other prompts, and then press *Enter* to continue.

The Ready To Install pane opens, as shown in the following image.

```
root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - □ ×
File Edit View Search Terminal Help
jdbc:postgresql://localhost:5432/omnihealthdata
User Audit Logging Enabled
  false
Install WS02?
  true

PRESS <ENTER> TO CONTINUE:

=====
Ready To Install
-----

InstallAnywhere is now ready to install Omni-HealthData Governance Console
version 3.1.4 onto your system at the following location:

  /data/omni/product/omnihealthdata/ogc

PRESS <ENTER> TO INSTALL:
```

23. Press *Enter* to begin the installation.

Allow the process to complete, at which point, the Installation Complete pane will be displayed, as shown in the following image.

```

root@omnihealthdata:/data/omni/product/omnihealthdata/omnigen/omnihealthdatagc - _ □ ×
File Edit View Search Terminal Help
PRESS <ENTER> TO INSTALL:

=====
Installing...
-----
[=====|=====|=====|=====]
[-----|-----|-----|-----]

=====
Installation Complete
-----

Congratulations! Omni-HealthData Governance Console has been successfully
installed to:

    /data/omni/product/omnihealthdata/ogc

PRESS <ENTER> TO EXIT THE INSTALLER: █

```

24. Press *Enter* to exit OHDGC installer.

Deploying Your Current Production Bundle on the Upgraded Omni Server

This section describes how to deploy your current production bundle on the upgraded Omni Server.

Procedure: How to Deploy Your Current Production Bundle on the Upgraded Omni Server

1. Navigate to the *OmniServer* home directory.

For example:

```
/data/omni/product/omnihealthdata/omnigen/OmniServer
```

2. Enter the following command to stop the controller:

```
./omni.sh start-controller
```

3. Using your browser, open the Omni Console by entering the following URL:

```
https://yourhost.yourdomain.com:9500
```

For example:

```
https://omnihealthdata.ibi.com:9500
```

Note: You cannot use `localhost` in the URL. You must use the appropriate protocol (HTTP or HTTPS) as specified in the `server.runtime.http-protocol` property of the `og_configuration.properties` file.

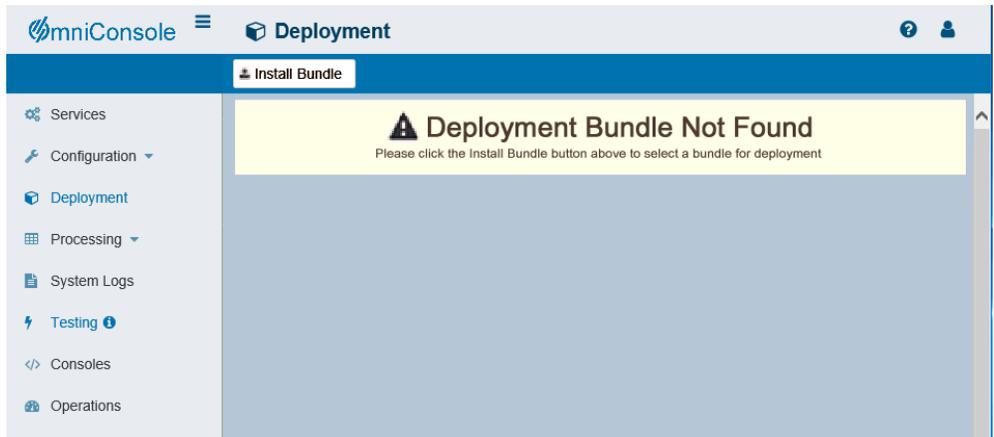
4. Log on using the following credentials:

Username: **ibi**

Password: **ibi**

5. Deploy the bundle by clicking *Deployment* in the left pane.

The Deployment pane opens, with the message *Deployment Bundle Not found*, as shown in the following image.

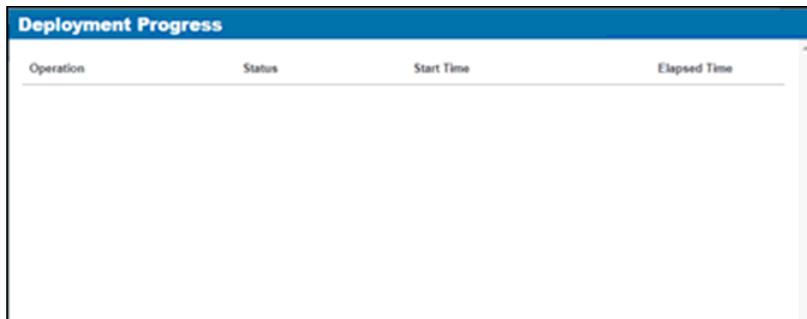


6. Click *Install Bundle*.

The Open dialog box is displayed.

7. Navigate to the location of your current production deployment bundle file.
8. Select your current production deployment bundle file and click *Open*.

A blank Deployment Progress window opens, as shown in the following image.



2. Upgrading Omni Server and Omni-HealthData Governance Console on Linux Platforms

The Deployment Progress window will start to display information and progress during the whole deployment process, as shown in the following image.

Deployment Progress			
Operation	Status	Start Time	Elapsed Time
Bundle Deployment Started	Complete	2017-08-29 15:07:01.589	0.016
Clean deployment artifacts	Complete	2017-08-29 15:07:01.605	0.235
Copy Bundle	Complete	2017-08-29 15:07:01.865	0.016
Explode Bundle	Complete	2017-08-29 15:07:01.871	0.047
Copy bootstrap files	Complete	2017-08-29 15:07:01.933	0
Generate Effective IDS documents	Complete	2017-08-29 15:07:01.949	8.956
Generate IDS documentation	Complete	2017-08-29 15:07:10.905	0.956
Generate IDS Example OIDs	Complete	2017-08-29 15:07:11.877	0.156
Generate XSD Schemas for the IDS documents	Complete	2017-08-29 15:07:12.048	0.25
Generate the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.314	0.533
Compile the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.849	1.187
Weave the JPA model for IDS documents	Complete	2017-08-29 15:07:14.036	1.986
Package the Omnigen Model jar	Complete	2017-08-29 15:07:16.038	0.28
Move OmniGen Bundle	Complete	2017-08-29 15:07:16.318	0.016
Move Cleansing Configuration	Complete	2017-08-29 15:07:16.350	0.124
Move Matching Configuration	Complete	2017-08-29 15:07:16.430	0.125

When the process is completed, a *successfully installed* message is displayed, as shown in the following image.

The screenshot shows the OmniConsole interface with the 'Deployment' tab selected. A green notification bar at the top of the main content area states 'The bundle was successfully installed'. Below this, a table displays project details:

Project Name	Project
Created By	IBI Omni Deployment
Created Date	
Release Number	0.0.0.Alpha.1
Version	Project_0_0_0_Alpha_1_181024163902
Installed Date	2018-10-24 02:52:00.000
Release Notes	

Below the project details, there is a section titled 'Data Source Subjects' containing a table:

Name	Data Source Id	Data Source Name	Data Source State	Created	Mo
RDM_DataDictionaryMart_Template	86441187-abd4-49b0-ab2f-6f209ab29a60	RDM_DataDictionaryMart_Template	NEW	2018-10-24T16:27:20.271Z	2018-10-24T16:27:20.271Z

Upgrading Your Current Production Bundle

This section describes how to upgrade your current production bundle with the changes that are supplied with your upgrade.

Procedure: How to Upgrade Your Current Production Bundle

1. Navigate to the location of the default deployment bundle file that ships with your upgrade.

The default bundle can be found in the *omnihealthdatabundle* folder under your *omnigen* home directory. For example:

```
\data\omni\product\omnihealthdata\omnigen\omnihealthdatabundle
```

2. Save the default bundle to the location where you manage your deployment bundles.
3. Replace the mastering folder in the default bundle with the mastering folder from your current production bundle.
4. Save the bundle according to your naming conventions as your upgraded production bundle.

Procedure: How to Deploy Your Upgraded Production Bundle

1. Navigate to the *omniserver* home directory.

For example:

```
/data/omni/product/omnihealthdata/omnigen/OmniServer
```

2. Type the following command to stop the controller:

```
./omni.sh stop-controller
```

3. Run the following command, setting the server back to your production configuration:

```
./omnigen.sh configure -Dconfiguration.properties=/data/omni/product/omnihealthdata/properties/og_configuration.properties
```

4. Copy (backup) the following folders:

```
/omnigen/OmniServer/bundle  
/omnigen/OmniServer/cmd  
/omnigen/OmniServer/dbms
```

5. Copy the permanent iWay Data Quality Server (DQS) licenses from backup to your new implementation.

```
/omnigen/OmniServer/mastering/runtime/license_keys
```

6. Open a terminal window and enter the following command, then press *Enter*:

```
./omni.sh start-controller
```

Note: When installation has completed, a BUILD Successful message appears, but the startup process continues for a few minutes. You must wait for this process to complete before proceeding to the next step.

7. Using your browser, open the Omni Console by entering the following URL:

<https://yourhost.yourdomain.com:9500>

For example:

<https://omnihealthdata.ibi.com:9500>

Note: You cannot use *localhost* in the URL. You must use the appropriate protocol (HTTP or HTTPS) as specified in the *server.runtime.http-protocol* property of the *og_configuration.properties* file.

8. Log on using the following credentials:

Username: **ibi**

Password: **ibi**

9. Deploy the bundle by clicking *Deployment* in the left pane.

The Deployment pane opens, with the *Update Bundle* option.

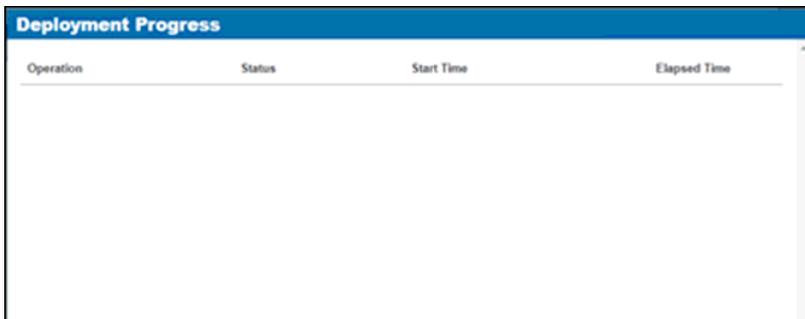
10. Click *Update Bundle*.

The Open dialog box is displayed.

11. Navigate to the location of your upgraded production deployment bundle file.

12. Select your deployment bundle file and click *Open*.

A blank Deployment Progress window opens, as shown in the following image.



The Deployment Progress window will start to display information and progress during the whole deployment process, as shown in the following image.

Deployment Progress			
Operation	Status	Start Time	Elapsed Time
Bundle Deployment Started	Complete	2017-08-29 15:07:01.589	0.016
Clean deployment artifacts	Complete	2017-08-29 15:07:01.605	0.235
Copy Bundle	Complete	2017-08-29 15:07:01.865	0.016
Explode Bundle	Complete	2017-08-29 15:07:01.871	0.047
Copy bootstrap files	Complete	2017-08-29 15:07:01.933	0
Generate Effective IDS documents	Complete	2017-08-29 15:07:01.949	8.956
Generate IDS documentation	Complete	2017-08-29 15:07:10.905	0.956
Generate IDS Example OIDs	Complete	2017-08-29 15:07:11.877	0.156
Generate XSD Schemas for the IDS documents	Complete	2017-08-29 15:07:12.048	0.25
Generate the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.314	0.533
Compile the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.849	1.187
Weave the JPA model for IDS documents	Complete	2017-08-29 15:07:14.036	1.986
Package the Omnigen Model jar	Complete	2017-08-29 15:07:16.038	0.28
Move OmniGen Bundle	Complete	2017-08-29 15:07:16.318	0.016
Move Cleansing Configuration	Complete	2017-08-29 15:07:16.350	0.124
Move Matching Configuration	Complete	2017-08-29 15:07:16.430	0.125

When the process is completed, a *successfully installed* message is displayed, as shown in the following image.

The screenshot shows the OmniConsole interface with the 'Deployment' tab selected. At the top, there are buttons for 'Replace Bundle', 'Update Bundle', and 'Reset Environment'. A green message bar states 'The bundle was successfully installed'. Below this, a table displays deployment details:

Project Name	Project
Created By	IBI Omni Deployment
Created Date	
Release Number	0.0.0.Alpha.1
Version	Project_0_0_0_Alpha_1_181024163902
Installed Date	2018-10-24 02:52:00.000
Release Notes	

Below the deployment details is a section titled 'Data Source Subjects' containing a table:

Name	Data Source Id	Data Source Name	Data Source State	Created	Mo
RDM_DataDictionaryMart_Template	86441187-abd4-49b0-ab2f-6f209ab29a60	RDM_DataDictionaryMart_Template	NEW	2018-10-24T16:27:20.271Z	2018-10-24T16:27:20.271Z

13. After starting the Matching service for the first time, you must navigate to the `repos_<subject>_wgid` and `repos_<subject>_wpk` tables in the `omnirepo` database, and drop their corresponding indexes, as they are not required and will impact performance:

```
❑ repos_<subject>_wgid_ix0
```

```
❑ repos_<subject>_wpk_ix0
```

Reinitializing Your WSO2 Identity Server Configuration

This section describes how to reinitialize your WSO2 Identity Server configuration.

Procedure: How to Reinitialize Your WSO2 Configuration

1. Navigate to the following directory:

```
/data/omni/product/omnihealthdata/ohdgc/ogc/bin/tools
```

2. Replace the following `wso2_is` folder with your backup copy of the `wso2_is` folder:

```
/data/omni/product/omnihealthdata/ohdgc/ogc/bin/tools/wso2_is
```

Reinitializing Your MData in Omni-HealthData Governance Console

This section describes how to reinitialize your MData in Omni-HealthData Governance Console (OHDGC).

Procedure: How to Reinitialize Your MData in OHDGC

To reinitialize your MData in OHDGC:

1. Navigate to the following directory:

```
/data/omni/product/omnihealthdata/ohdgc/ogc/bin/ibi
```

2. Enter the following command in a terminal window, and press *Enter*:

```
./ogcstart.sh
```

3. Log on to Omni-HealthData Governance Console (OHDGC) and load the metadata using your browser.

For example:

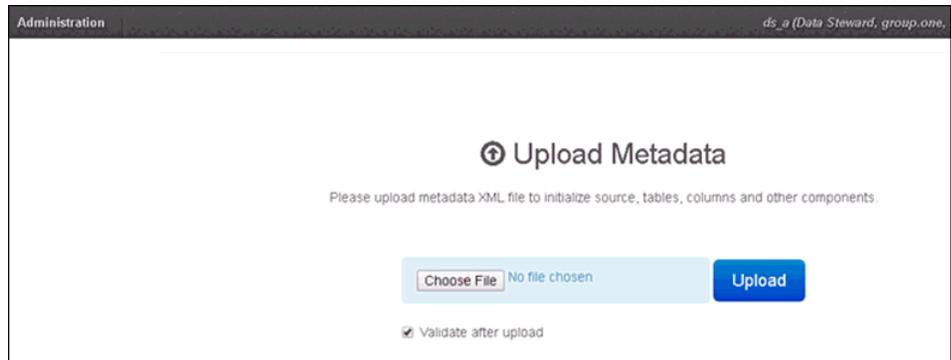
```
http://omnihealthdata.ibi.com:9090/ogc
```

4. Log on using the preauthorized WSO2 Identity Server local (Primary) credentials, which can be used to perform other startup actions until site-specific credentials and permissions are added.

For example:

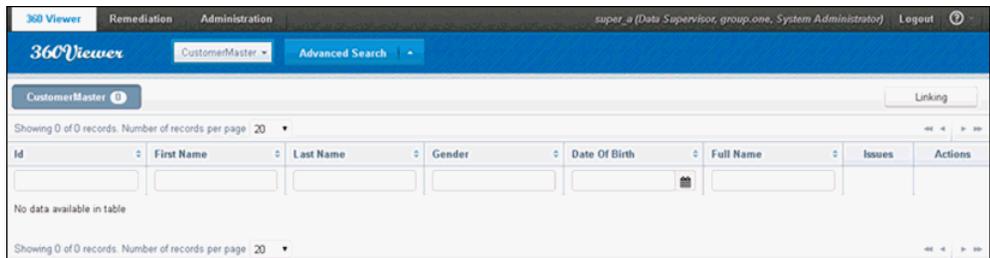
- Username: **primary/super_a**
- Password: **supera123**

The Upload Metadata pane opens, as shown in the following image.



5. Click *Choose File* and navigate to the folder where your backed up MData was saved.
6. Select the *<Saved_MData>.xml* file.
7. Ensure that the *Validate after upload* check box is selected, then click *Upload*.

OHDGC opens and displays the 360 Viewer page, as shown in the following image.



Omni Server and OHDGC are now upgraded and ready for use.

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