

iWay

Omni-HealthData™ Installer User's
Guide

Version 3.11

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Preface

This documentation provides prerequisites and instructions to install Omni-HealthData™.

How This Manual Is Organized

This manual includes the following chapters:

	Chapter/Appendix	Contents
1	Omni-HealthData™ Database Installation Prerequisites	Provides database installation prerequisites for Omni-HealthData™ version 3.11.
2	Installing Omni-HealthData™ Version 3.11 on Windows	Describes how to install the primary components of Omni-HealthData™ version 3.11 on Windows platforms.
3	Installing Omni-HealthData™ Version 3.11 on Linux	Describes how to install the primary components of Omni-HealthData™ version 3.11 on Linux platforms.

Documentation Conventions

The following table lists and describes the documentation conventions that are used in this manual.

Convention	Description
<code>THIS TYPEFACE</code> or <code>this typeface</code>	Denotes syntax that you must type exactly as shown.
<i>this typeface</i>	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
<u>underscore</u>	Indicates a default setting.
Key + Key	Indicates keys that you must press simultaneously.
{ }	Indicates two or three choices. Type one of them, not the braces.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.

Convention	Description
...	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).
. . .	Indicates that there are (or could be) intervening or additional commands.

Related Publications

Visit our Technical Documentation Library at <http://documentation.informationbuilders.com>. You can also contact the Publications Order Department at (800) 969-4636.

Customer Support

Do you have questions about this product?

Join the Focal Point community. Focal Point is our online developer center and more than a message board. It is an interactive network of more than 3,000 developers from almost every profession and industry, collaborating on solutions and sharing every tips and techniques. Access Focal Point at <http://forums.informationbuilders.com/eve/forums>.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through our website, <http://www.informationbuilders.com>. It connects you to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section of www.informationbuilders.com also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00 A.M. and 8:00 P.M. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities. Be prepared to provide your six-digit site code (xxxx.xx) when you call.

To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.

Help Us to Serve You Better

To help our consultants answer your questions effectively, be prepared to provide specifications and sample files and to answer questions about errors and problems.

The following table lists the environment information that our consultants require.

Platform	
Operating System	
OS Version	
JVM Vendor	
JVM Version	

The following table lists additional questions to help us serve you better.

Request/Question	Error/Problem Details or Information
Did the problem arise through a service or event?	
Provide usage scenarios or summarize the application that produces the problem.	
When did the problem start?	
Can you reproduce this problem consistently?	
Describe the problem.	
Describe the steps to reproduce the problem.	
Specify the error messages.	

Request/Question	Error/Problem Details or Information
Any change in the application environment: software configuration, EIS/database configuration, application, and so forth?	
Under what circumstance does the problem <i>not</i> occur?	

The following is a list of error and problem files that might be applicable.

- Input documents (XML instance, XML schema, non-XML documents)
- Transformation files
- Error screen shots
- Error output files
- Trace files
- Service Manager package to reproduce problem
- Custom functions and agents in use
- Diagnostic Zip
- Transaction log

For information on tracing, see the *iWay Service Manager User's Guide*.

User Feedback

In an effort to produce effective documentation, the Technical Content Management staff welcomes your opinions regarding this document. Please use the Reader Comments form at the end of this document to communicate your feedback to us or to suggest changes that will support improvements to our documentation. You can also contact us through our website, <http://documentation.informationbuilders.com/connections.asp>.

Thank you, in advance, for your comments.

iWay Software Training and Professional Services

Interested in training? Our Education Department offers a wide variety of training courses for iWay Software and other Information Builders products.

For information on course descriptions, locations, and dates, or to register for classes, visit our website, <http://education.informationbuilders.com>, or call (800) 969-INFO to speak to an Education Representative.

Interested in technical assistance for your implementation? Our Professional Services department provides expert design, systems architecture, implementation, and project management services for all your business integration projects. For information, visit our website, <http://www.informationbuilders.com/consulting>.

Omni-HealthData™ Database Installation Prerequisites

This chapter provides database installation prerequisites for Omni-HealthData™ version 3.11.

In this chapter:

- ❑ [Preparing Your Database on Postgres](#)
- ❑ [Preparing Your Database on Other Database Management Systems](#)

Preparing Your Database on Postgres

This section describes how to prepare your database on Postgres for Omni-HealthData™.

1. Create the required databases and schemas.

While it is the prerogative of the database administrator to define the names of the associated databases, it is recommended that the following databases and associated schemas be created and ready for use:

- ❑ **omnihealthdata.** Contains all tables used by the data acquisition and consumption layers of omnihealthdata, distributed across the following required schemas:
 - ❑ **public.** Contains all System tables, all On-Ramp (*_r), Source (*_s), Instance, and Master (*_m) model tables, as well as Remediation tables.
 - ❑ **cohort.** Contains all tables and views required for the Cohort Builder.
 - ❑ **healthviews.** Contains all tables and views required for HealthViews.
- ❑ **omnirepo.** Contains all tables required for implementing Data Quality (DQ) rules.

The creation of the database is generally the responsibility of a database administrator. The user ID that is used to create and update the database must be available during the installation.

2. Ensure that the database server is configured to allow TCP connections and that the TCP ports are active.
3. Verify pgcrypto installation.

As of version 3.11, Omni-HealthData™ requires the Postgres pgcrypto functions to be available. Pgcrypto is included in most Postgres 8.4 and higher distributions, and is enabled for use by the following command:

```
CREATE EXTENSION pgcrypto;
```

To see if pgcrypto is available, issue the following command:

```
select * from pg_available_extensions
```

For earlier versions of Postgres, or its derivatives, the appropriate pgcrypto package needs to be installed. Where CREATE EXTENSION is not supported, the function definitions will need to be installed manually.

For example:

```
psql -d dbname -f $PGHOME/share/postgresql/contrib/pgcrypto.sql
```

Preparing Your Database on Other Database Management Systems

This section describes how to prepare your database on other Database Management Systems for Omni-HealthData™.

1. Create the required databases.

While it is the prerogative of the database administrator to define the names of the associated databases, it is recommended that the following databases and associated schemas be created and ready for use:

- omnihealthdata.** Contains all tables used by the data acquisition and consumption layers of omnihealthdata, including all System tables, all On-Ramp (*_r), Source (*_s), Instance, and Master (*_m) model tables, as well as Remediation tables.
- cohort.** Contains all tables and views required for the Cohort Builder.
- healthviews.** Contains all tables and views required for HealthViews.
- omnirepo.** Contains all tables required for implementing Data Quality (DQ) rules.

The creation of the database is generally the responsibility of a database administrator. The user ID that is used to create and update the database must be available during the installation.

Note: Omni-HealthData™ requires case-sensitivity on the database. While most Database Management Systems are case-sensitive, by default, SQL Server commonly ships with a COLLATION property of SQL_Latin1_General_CP1_CI_AS, where “_CI_” indicates Case Insensitive.

In order to ensure case-sensitivity on the database, the collation property must contain a “_CS_” (Case Sensitive), rather than a “_CI_” (Case Insensitive) value. This can be set through an ALTER DATABASE command.

2. Ensure that the database server is configured to allow TCP connections and that the TCP ports are active.

Chapter 2

Installing Omni-HealthData™ Version 3.11 on Windows

This chapter describes how to install the primary components of Omni-HealthData™ version 3.11 on Windows platforms.

In this chapter:

- [Completing Installation Prerequisites](#)
- [Installing Omni-HealthData™](#)
- [Completing Post-Installation Tasks](#)

Completing Installation Prerequisites

This section describes how to complete installation prerequisite activities for Omni-HealthData™.

Procedure: How to Complete Installation Prerequisites

Although Omni-HealthData™ can be installed in any appropriate directory, it is recommended that a base install directory is configured prior to installing Omni-HealthData™.

1. Create the following recommended base install directory:

`C:\omni\product`

2. Create the recommended subdirectories under the base install directory.

The following table lists and describes the additional subfolders that must be created under the base install directory. These additional subfolders facilitate the ease of upgrading by externalizing required files outside of the *omnigen* home directory that is created with the Omni Server installation.

Subfolder	Description
<i>omnihealthdata</i>	Folder under which omnihealthdata will be installed.

Subfolder	Description
<i>omnihealthdata\jdbcjars</i>	Externalized folder from the <i>omnigen</i> home directory that holds all necessary JDBC .jar files required for Omni-HealthData™.

- Acquire the required DBMS-specific JDBC .jar files for use by OHDGC and copy to the \jdbcjars subfolder created above.
 - Postgres:** postgresql-42.2.8.jar
 - SQL Server (Microsoft):** sqljdbc42.jar
 - SQL Server (Open Source):** jtds-1.3.1.jar
 - Oracle:** ojdbc8.jar
 - Db2:** db2jcc4.jar, db2jcc_license_cu.jar
- Verify that your JAVA_HOME environment variable is set to the correct Java Development Kit (JDK) version.

Note: Omni Server (OS) and Omni-HealthData Governance Console (OHDGC) require Java Development Kit (JDK) Version 1.8.121 or higher.
- Verify that %JAVA_HOME%\bin is the first element in your PATH
- Ensure that recommended port values are available and are not used by any other server or protocol.

Default Port Numbers

Component	Type	Version 3.1 Ports	Version 3.11 Ports	Security
Omni-Gen Controller/ Console	external	9500	9500	TLS 1.2
Omni-Gen Server	internal	9512	9514	TLS 1.2
Omni-Gen Server DQ High Speed TCP	internal	n/a	9532	none

Component	Type	Version 3.1 Ports	Version 3.11 Ports	Security
Data Quality Cleanse	external	9502	9504	none
Data Quality Cleanse	internal	9503	9505	none
Data Quality Match	external	9504	9506	none
Data Quality Match	internal	9505	9507	none
Data Quality Merge	external	9506	9508	none
Data Quality Merge	internal	9507	9509	none
Data Quality Remediation	external	9508	9510	none
Data Quality Remediation	internal	9509	9511	none
OGC Tomcat Shutdown	internal	9005	9024	none
OGC Tomcat Console	external	9090	9501	Tomcat Config
OGC Tomcat AJP	internal	9009	9525	Tomcat Config
OGC WS02	external	9443	9503	WS02 Config
OGC Redirect	internal	n/a	9526	none
WS02 RMI Registry	internal	n/a	9534	WS02 Config

Component	Type	Version 3.1 Ports	Version 3.11 Ports	Security
WS02 RMI Server	internal	n/a	9535	WS02 Config
WS02 LDAP Server	internal	n/a	9536	WS02 Config
WS02 KDC Server	internal	n/a	9537	WS02 Config
WS02 Thrift Entitlement Receiver	internal	n/a	9538	WS02 Config

Installing Omni-HealthData™

Omni-Gen Server and Omni-HealthData Governance Console (OHDGC) can be installed on a Windows platform by running the latest *omnigen-installer 3.11.*-Windows-OHD.exe* file, which is available for download from the Information Builders Technical Support Center:

<https://techsupport.informationbuilders.com>

This .exe file must be run as an administrator.

The Windows installer prompts you with a series of configuration questions, and automatically installs and configures these components based on the responses that were provided.

Procedure: How to Install Omni-HealthData™

To install Omni-HealthData™:

1. Download the latest installer (*omnigen-installer 3.11.*-Windows-OHD.exe*) from the Information Builders Technical Support Center (<https://techsupport.informationbuilders.com>), and copy this file to a directory on your system.

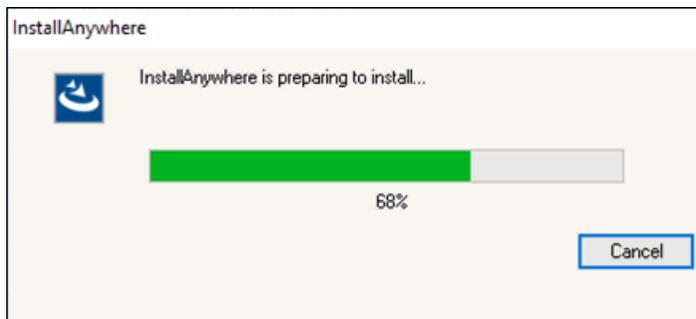
The production download files for version 3.11 are shown in the following image.



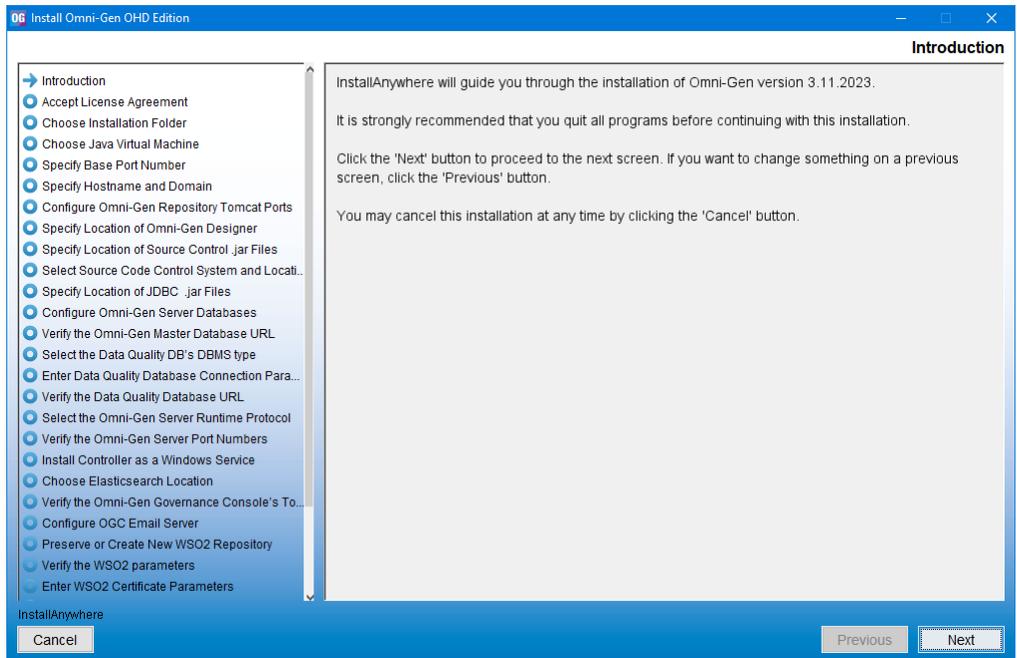
Omni-HealthData	3 11	Prod	Download
Omni-HealthData Cohort Builder	3 11	Prod	Download
Omni-HealthData HealthViews	3 11	Prod	Download
Omni-HealthData Reference Data	3 11	Prod	Download
Data Quality Server	3 11 12 3	Prod	Download

2. Navigate to the directory containing the installer using File Explorer.
3. Right-click the *omnigen-installer 3.11.*-Windows-OHD.exe* file, and select *Run as administrator* from the menu.

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

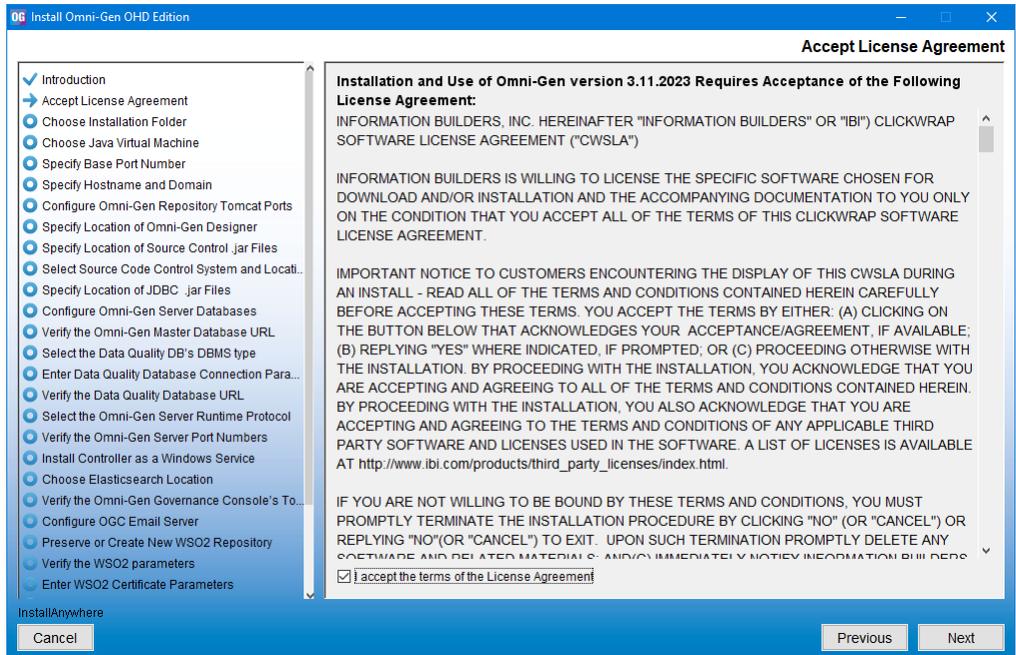


When the installation is ready, the Introduction pane opens, as shown in the following image.



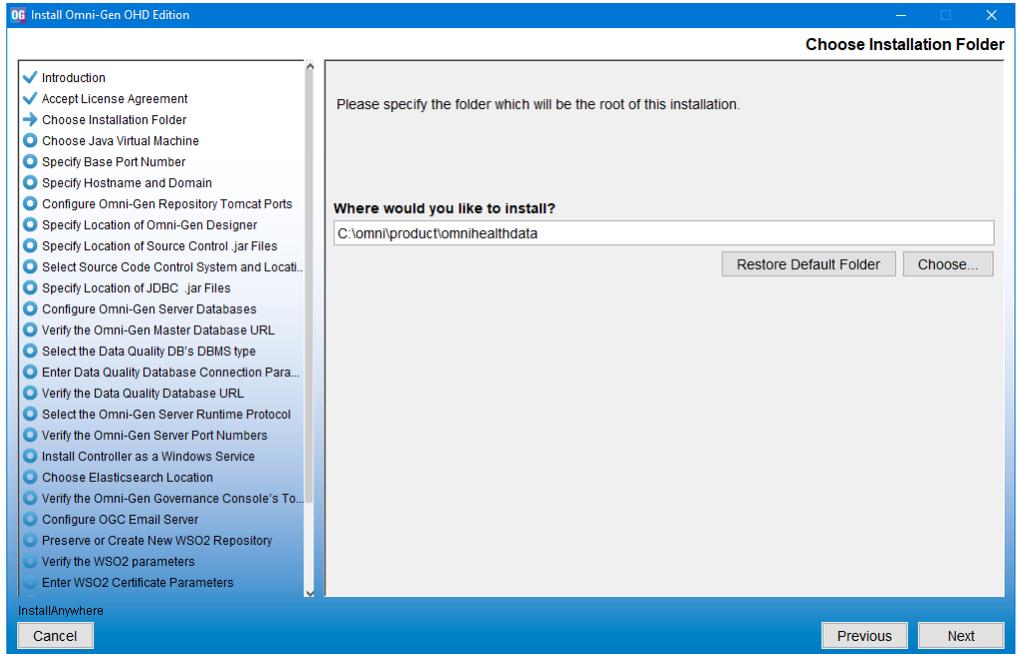
4. Click **Next** to continue.

The Accept 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 Installation Folder pane opens, as shown in the following image.



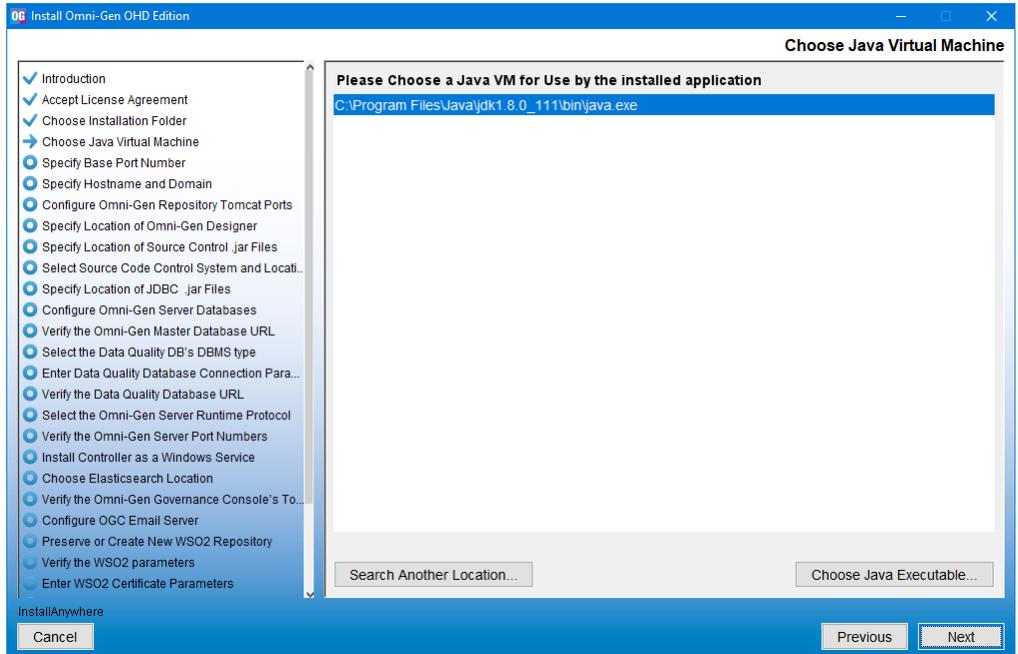
6. In the *Where would you like to install?* field, type or browse to the location where you want to install the Omni-HealthData™ components.

For example:

`C:\omni\product\omnihealthdata`

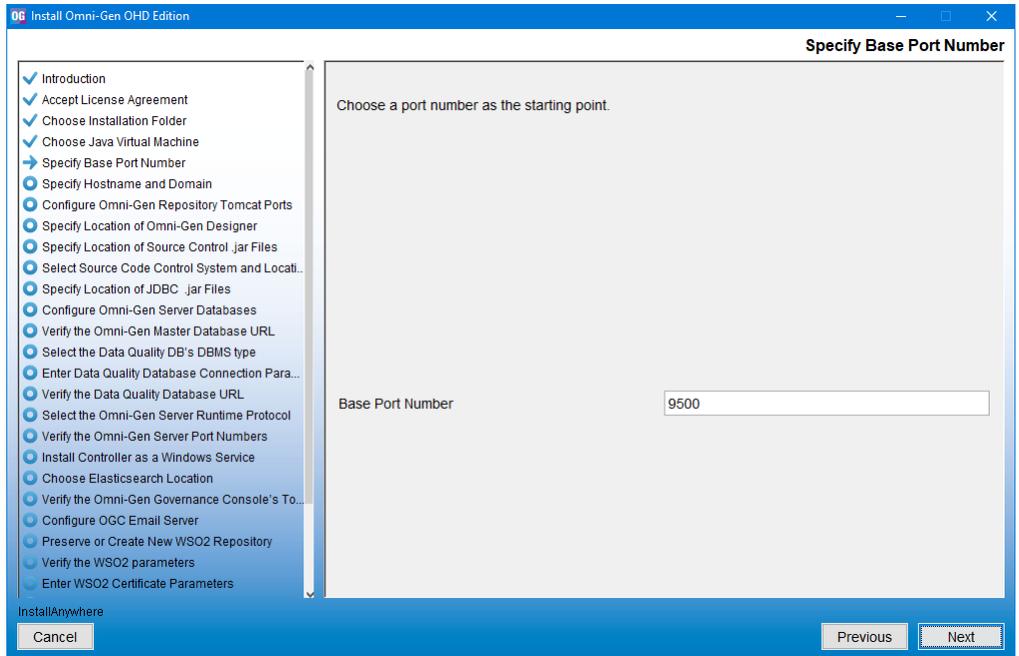
7. Click **Next**.

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



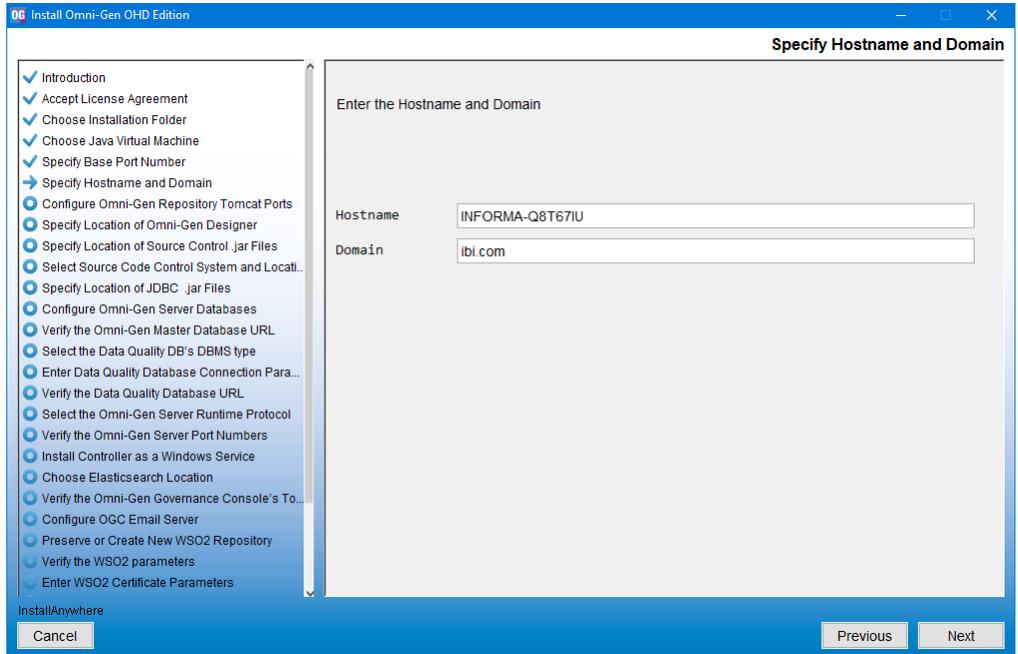
8. Ensure that the Java version you select is version 1.8 or higher, and then click Next.

The Specify Base Port Number pane opens, as shown in the following image.



9. Type a port number to use, or click *Next* to accept the default base port number.

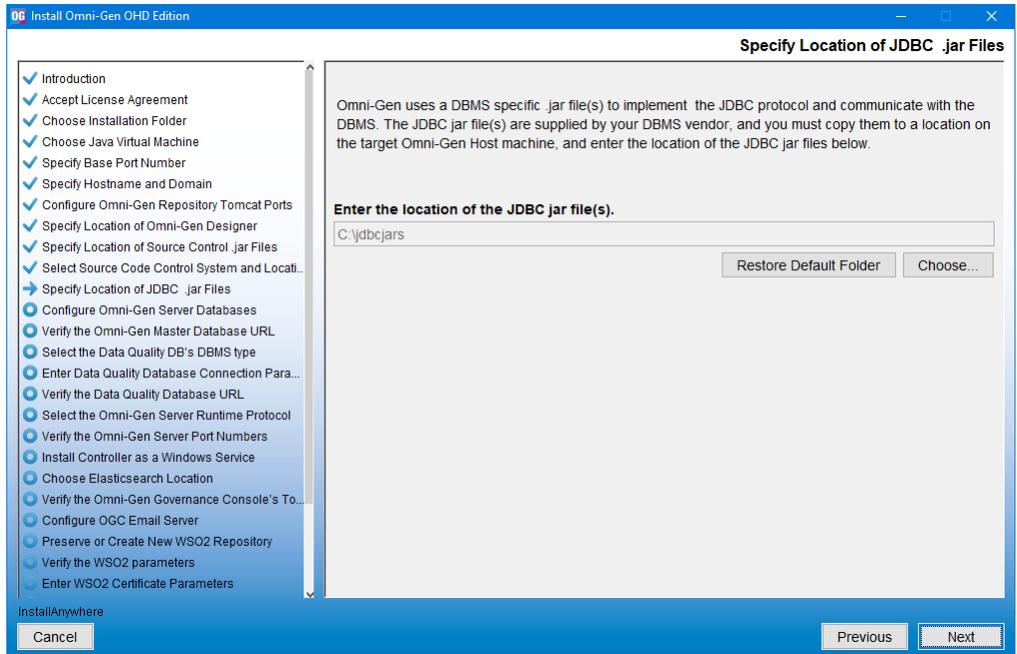
The Specify Hostname and Domain pane opens, as shown in the following image.



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

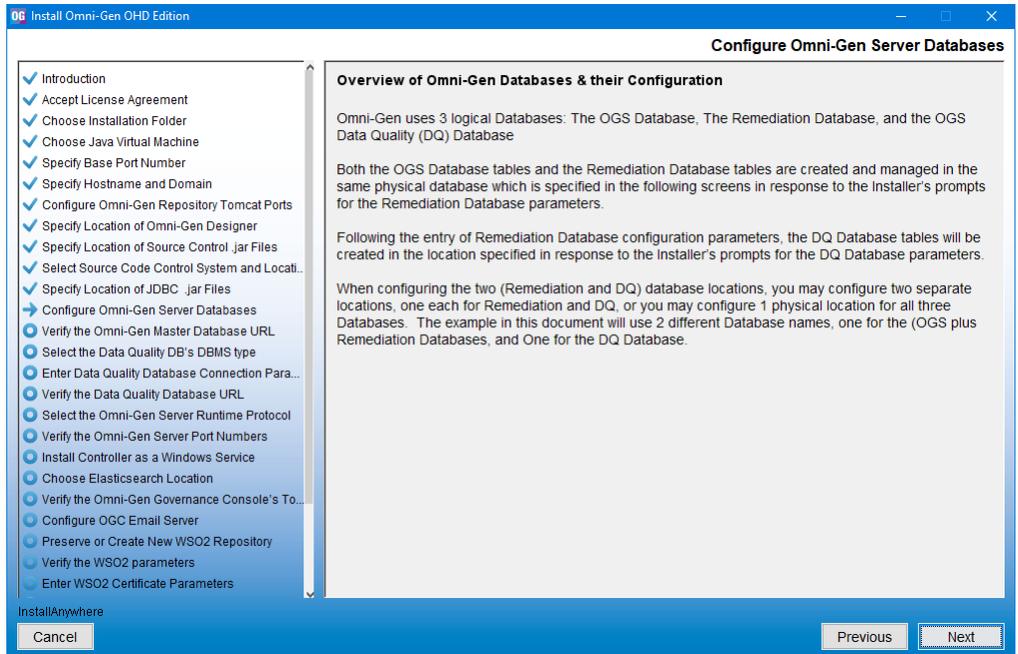
10. Type the domain name, and then click Next.

The Specify Location of JDBC .jar Files pane opens, as shown in the following image.



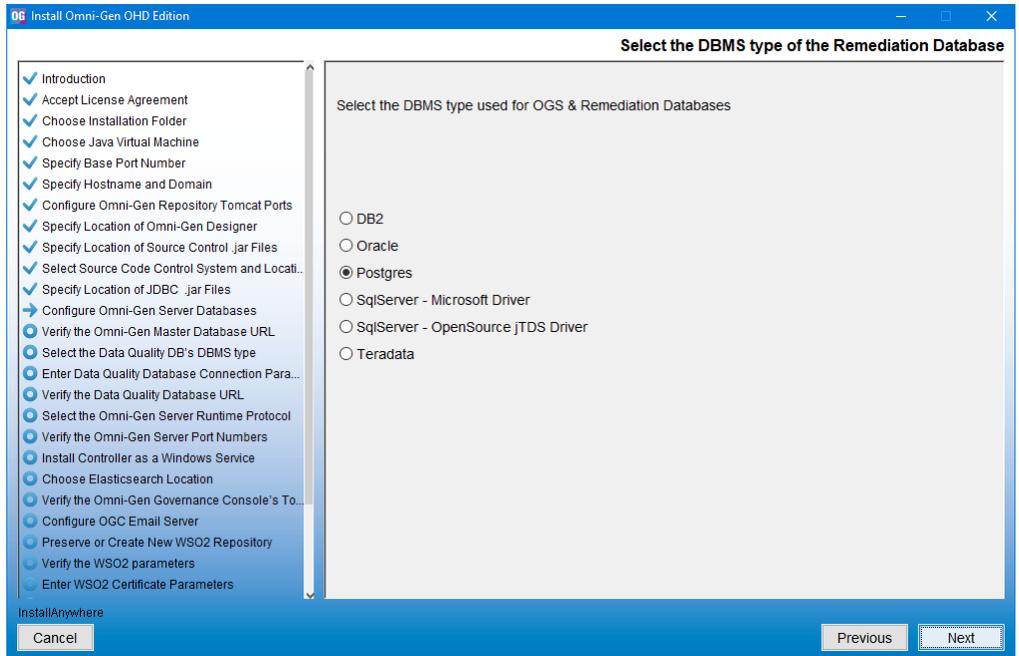
11. Type or browse to the location of the jar files, and then click Next.

The Configure Omni-Gen Server Databases pane opens, as shown in the following image.



12. Click Next to continue.

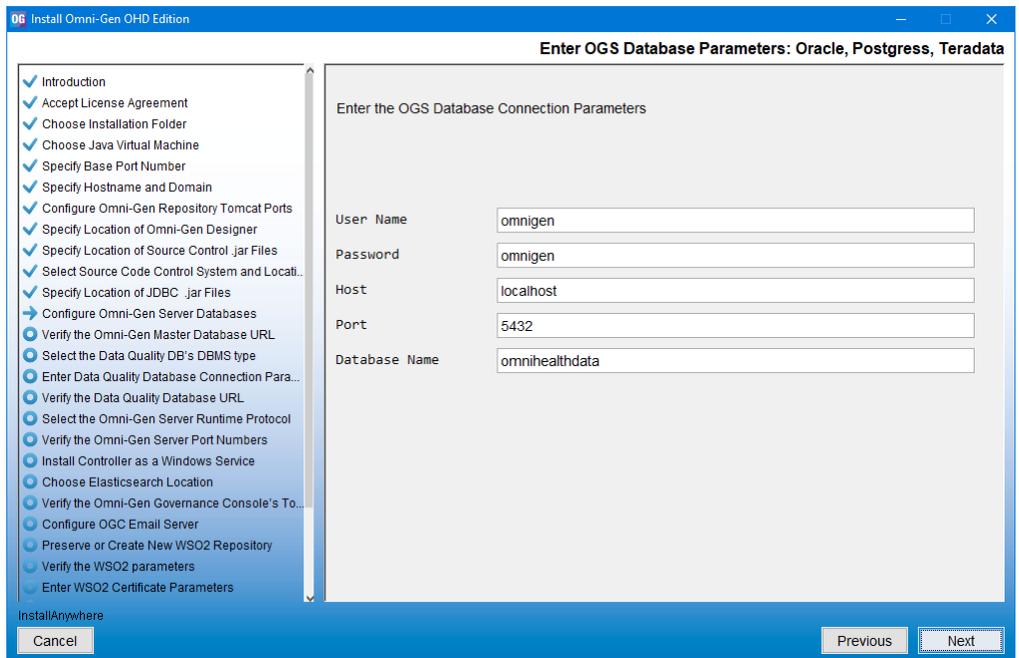
The Select the DBMS type of the Remediation Database pane opens, as shown in the following image.



13. Select the type of DBMS to use for the Omni-Gen Server and Remediation databases. The default DBMS is Postgres.

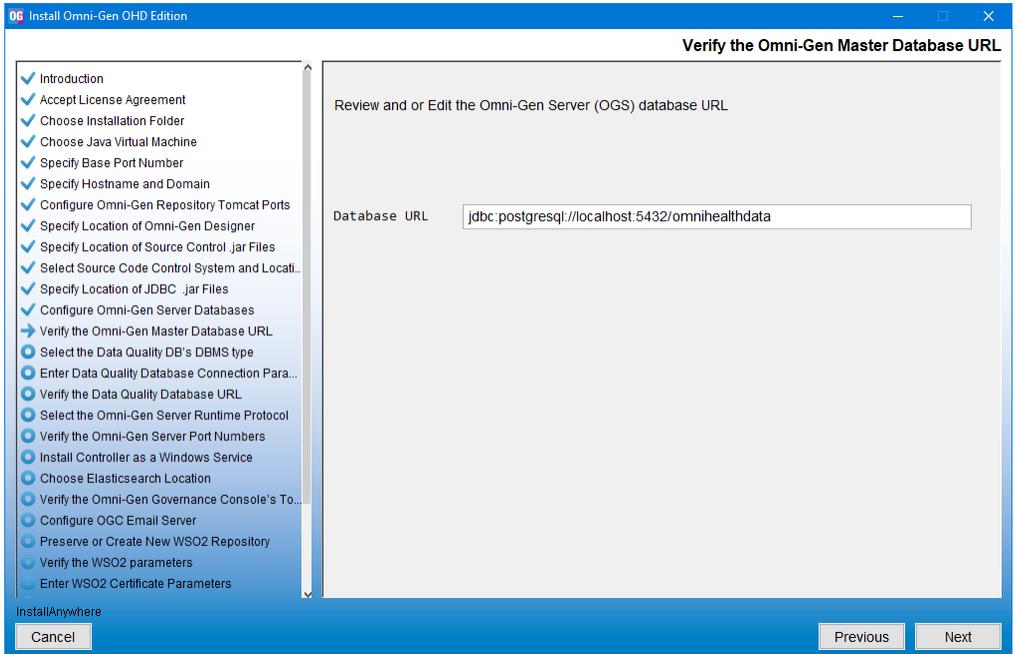
14. Click Next.

The Enter OGS Database Parameters: Oracle, Postgres, Teradata pane opens, as shown in the following image.



15. Type the database connection parameters, and then click *Next*.

The Verify the Omni-Gen Master Database URL pane opens, as shown in the following image.

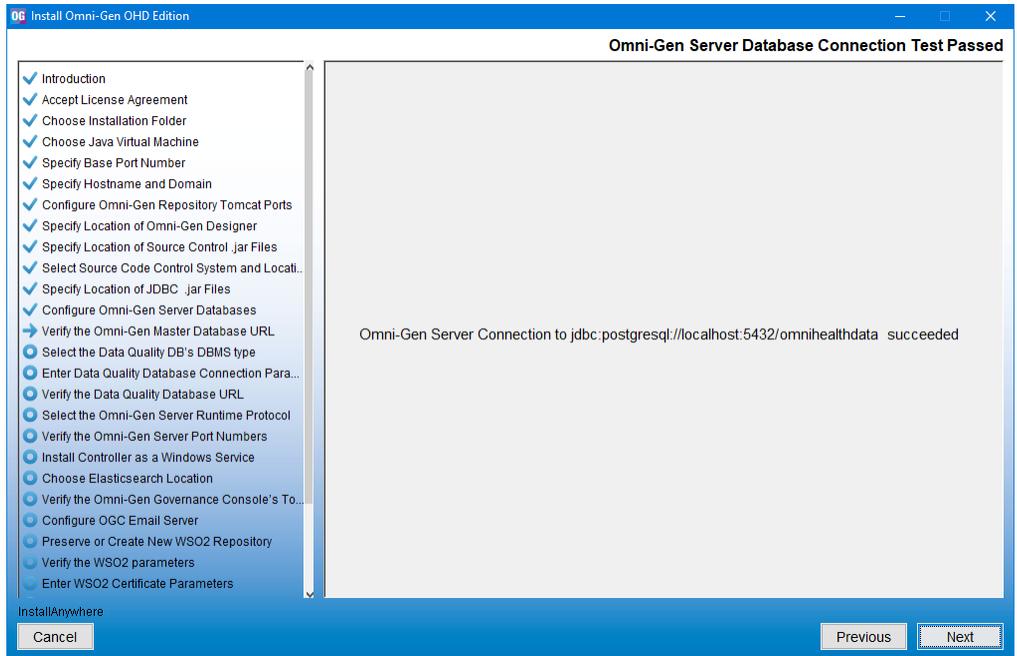


16. Specify the URL to the Omni-Gen Server database, and then click *Next*.

A test connection is made to the specified target DBMS based on the specified parameters.

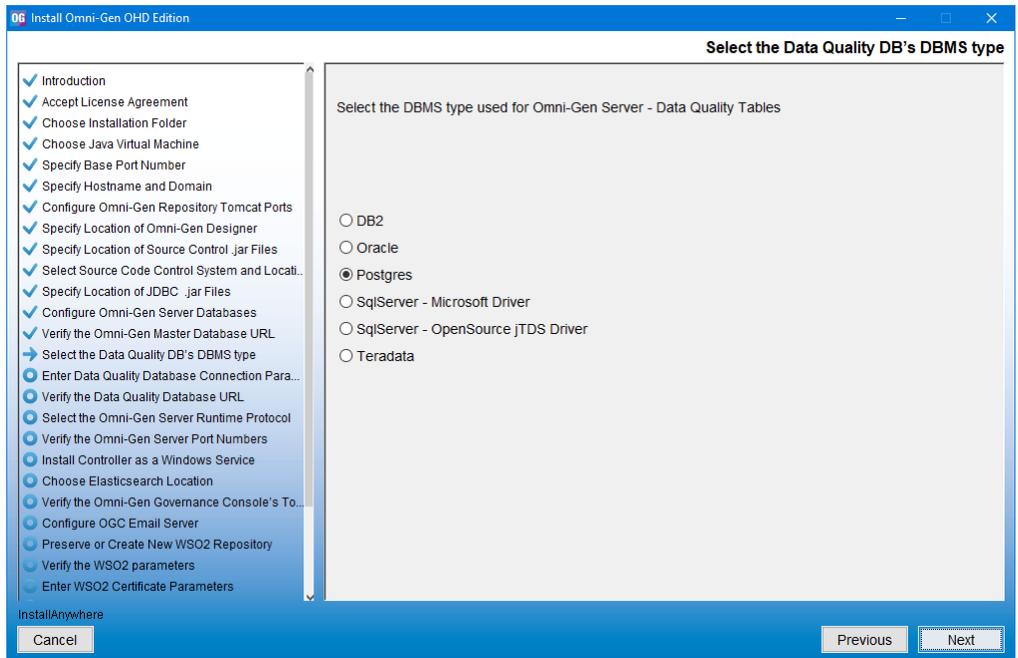
If you receive a message indicating that your connection test failed, verify your DBMS parameters and that your database name exists in the DBMS you are using.

When your database exists and the user name, password, and host are correct, the Omni-Gen Server Database Connection Test Passed pane opens, as shown in the following image.



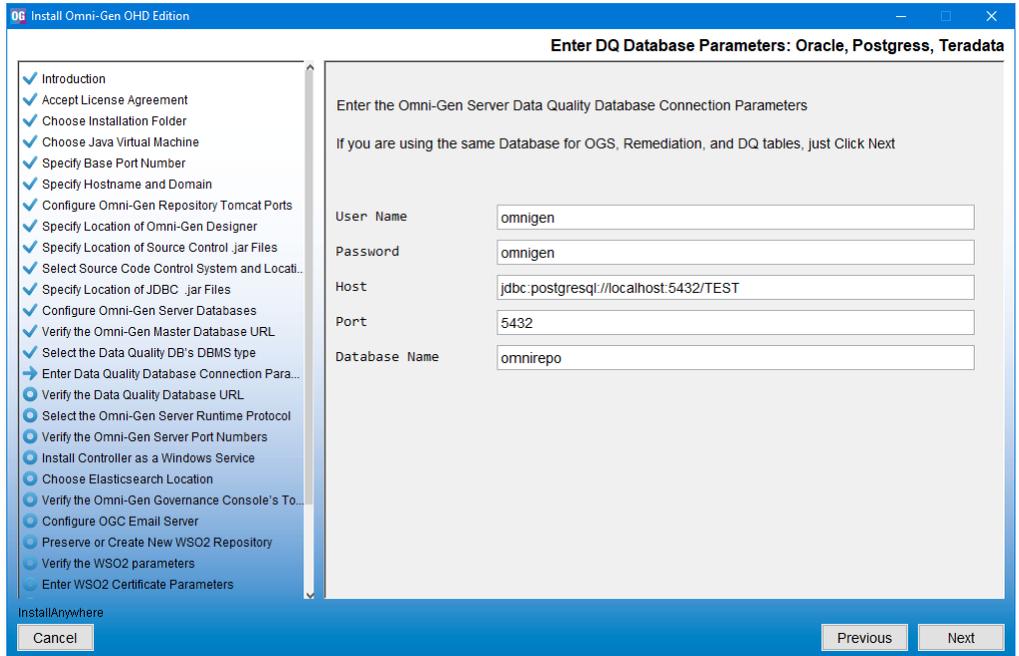
17. Click Next.

The Select the Data Quality DB's DBMS type pane opens, as shown in the following image.



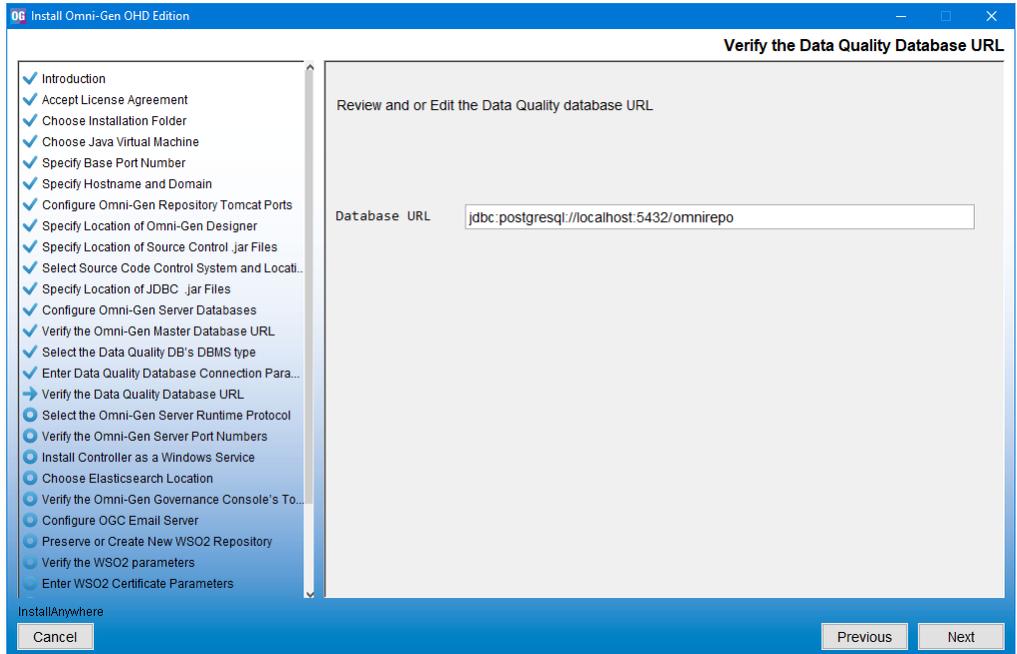
18. Select the type of DBMS to use for the Omni-Gen Server, and then click Next.

The Enter DQ Database Parameters: Oracle, Postgres, Teradata pane opens, as shown in the following image.



19. Type the database connection parameters, and then click **Next**.

The Verify the Data Quality Database URL pane opens, as shown in the following image.

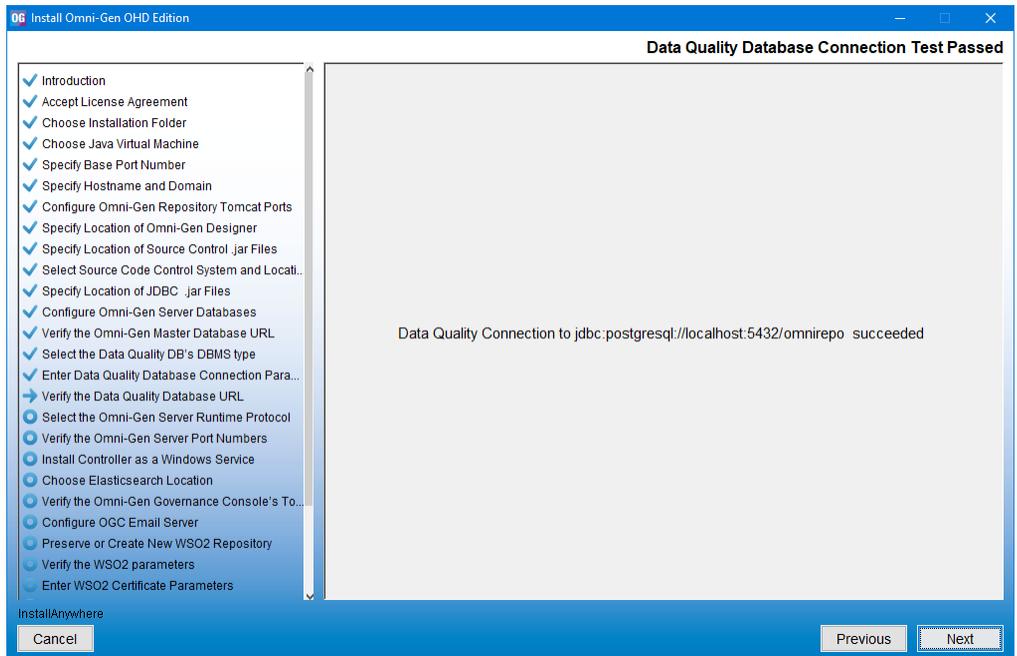


20. Specify the URL to the Data Quality database, and then click *Next*.

A test connection is made to the specified target DBMS based on the specified parameters.

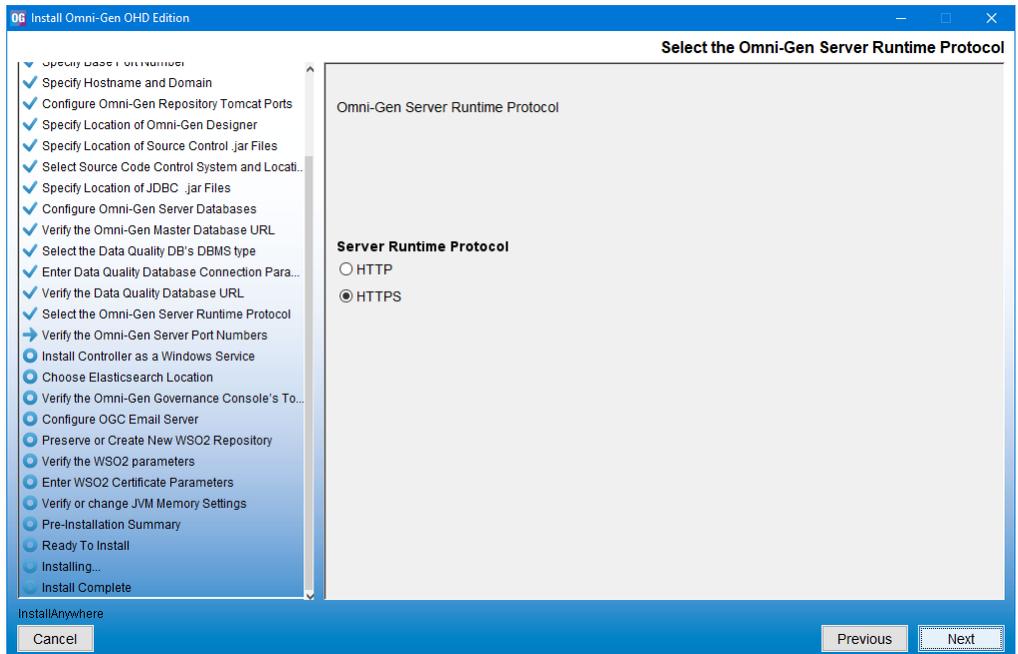
If you receive a message indicating that your connection test failed, verify your DBMS parameters and that your database name exists in the DBMS you are using.

When your database exists and the user name, password, and host are correct, the Data Quality Database Connection Test Passed pane opens, as shown in the following image.



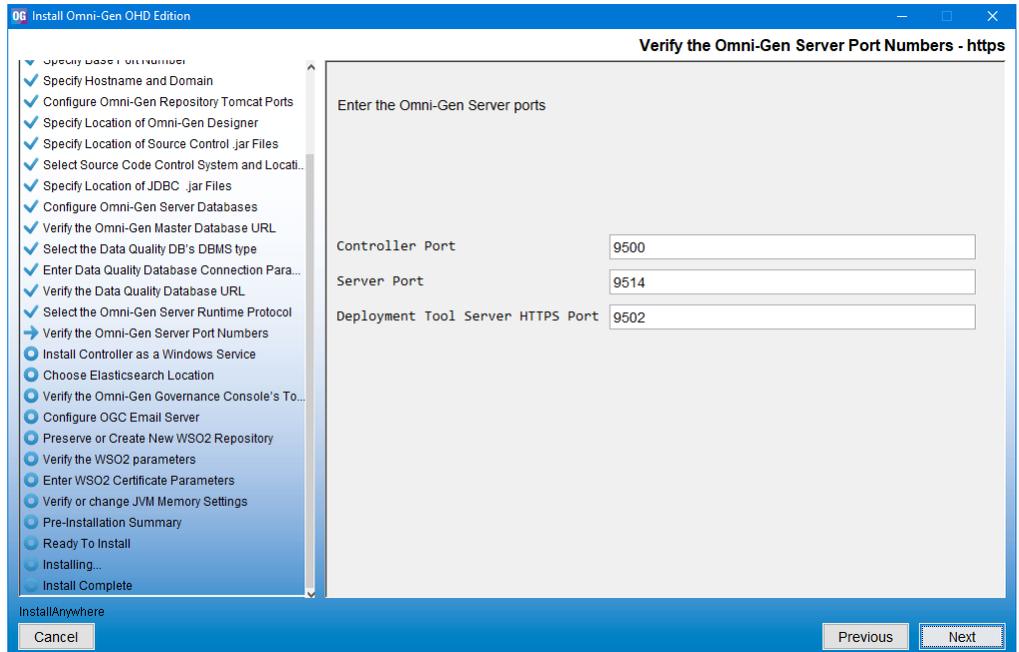
21. Click **Next**.

The Select the Omni-Gen Server Runtime Protocol pane opens, as shown in the following image.



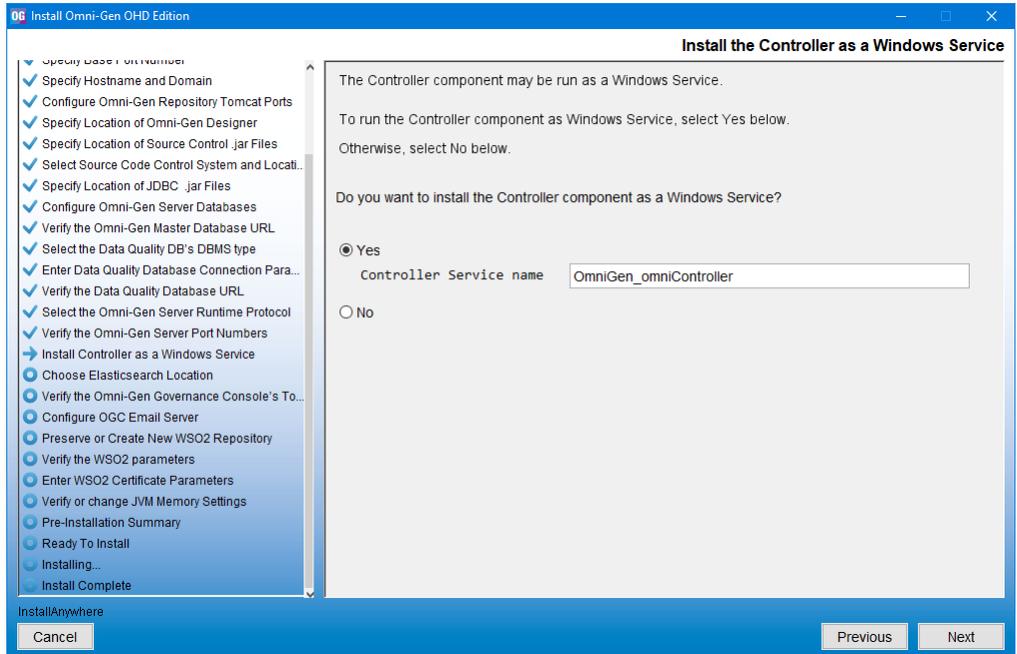
22. Select the *HTTP* or *HTTPS* protocol, and then click *Next*. The default value is *HTTPS*.

The Verify the Omni-Gen Server Port Numbers pane opens, as shown in the following image.



23. Click **Next** to continue.

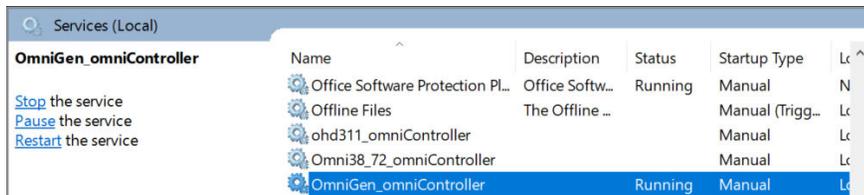
The Install the Controller as a Windows Service pane opens, as shown in the following image.



24. Select whether you want to install the Omni-Gen Controller as a Windows service. The default value is No.

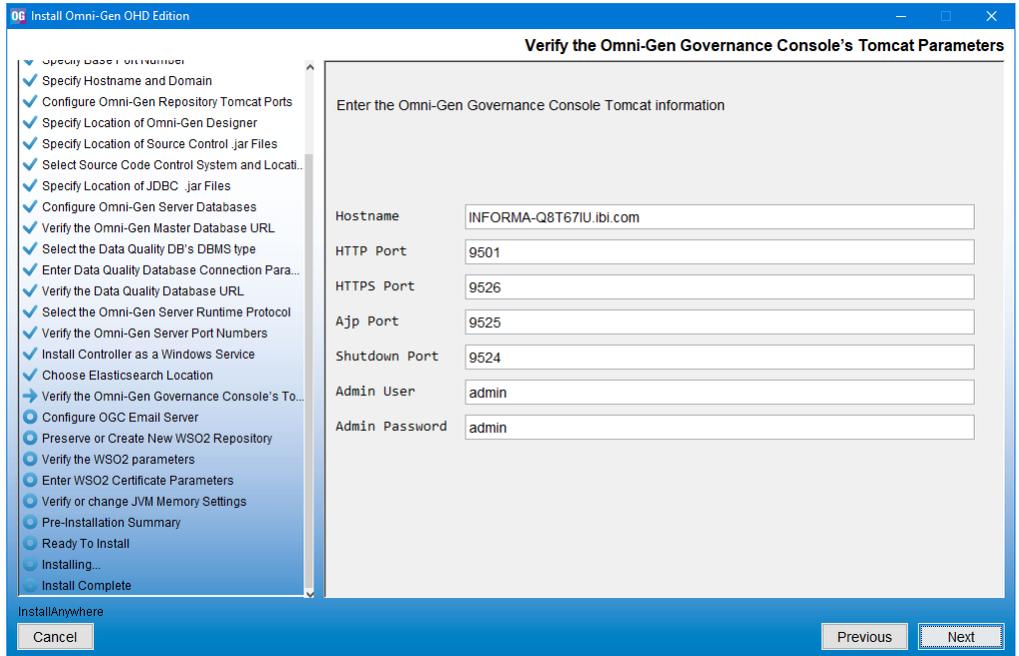
Note: It is strongly encouraged that you select Yes for ease of administration. If you select Yes, you will be prompted for the service name. You may type the service name in the Controller Service name field, or accept the default value, *OmniGen_omniController*.

The OmniGen_omniController service is shown in the following image.



25. Click Next.

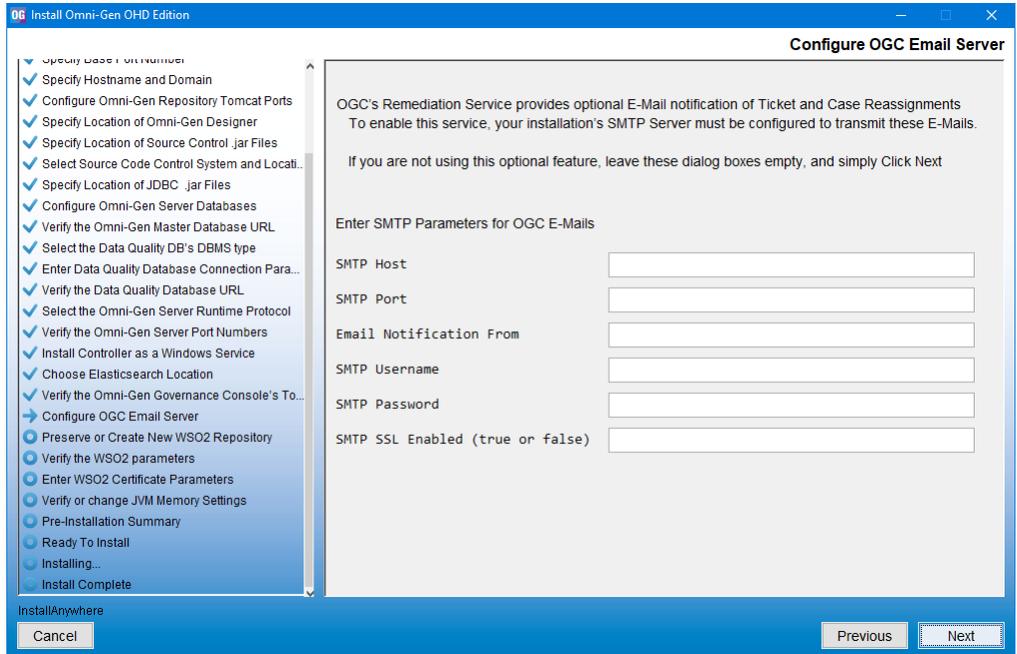
The Verify the Omni-Gen Governance Console's Tomcat Parameters pane opens, as shown in the following image.



26. Verify the parameters and modify the values accordingly, if required.

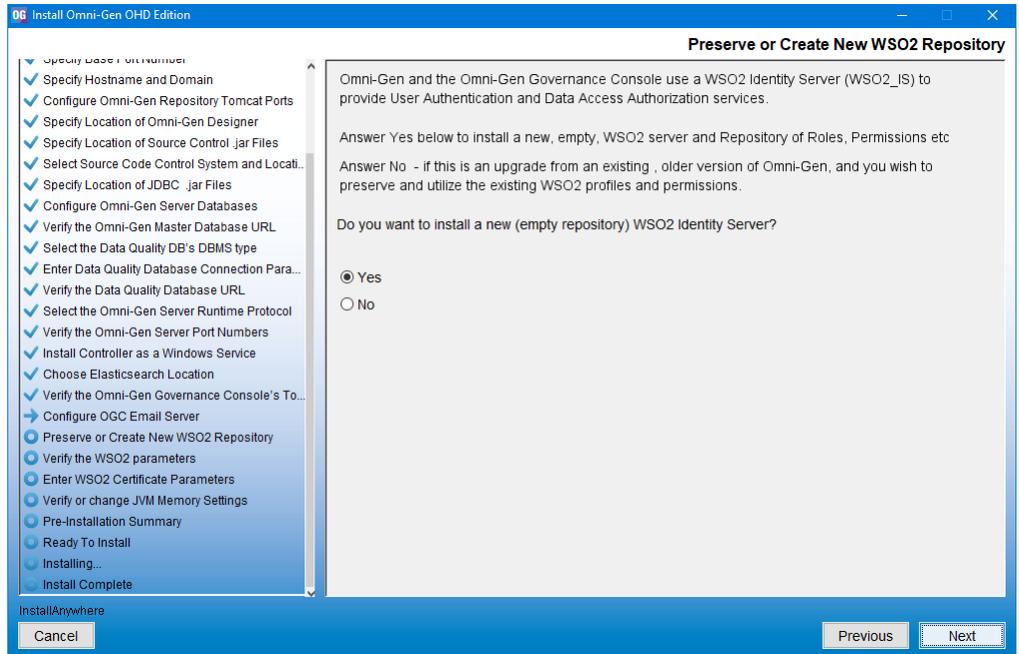
27. Click Next.

The Configure OGC Email Server pane opens, as shown in the following image.



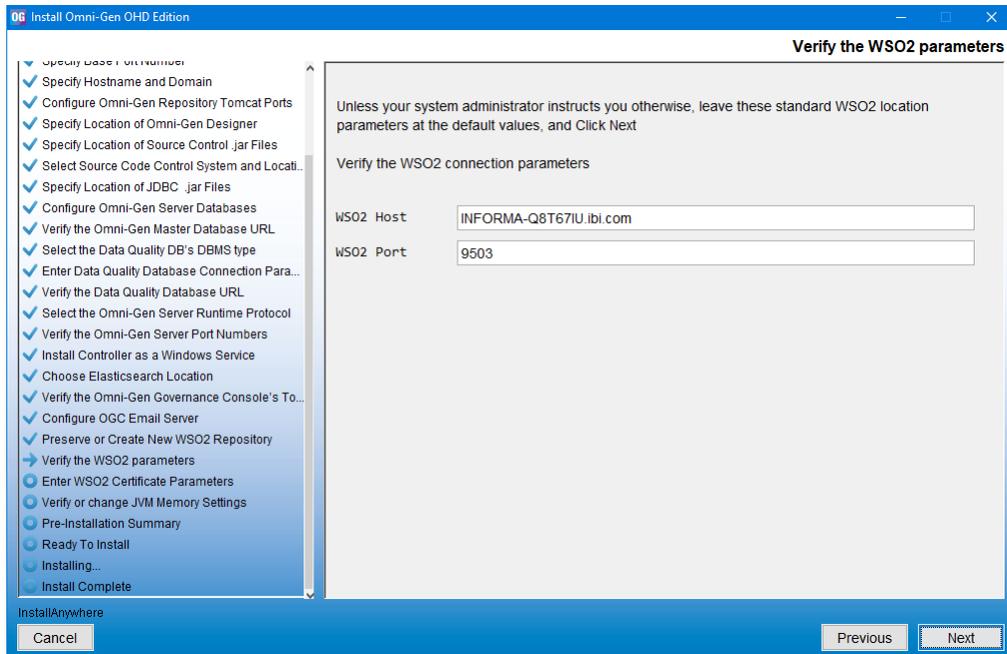
28. If you are not using this optional feature, leave the field boxes empty, and then click Next.

The Preserve or Create New WSO2 Repository pane opens, as shown in the following image.



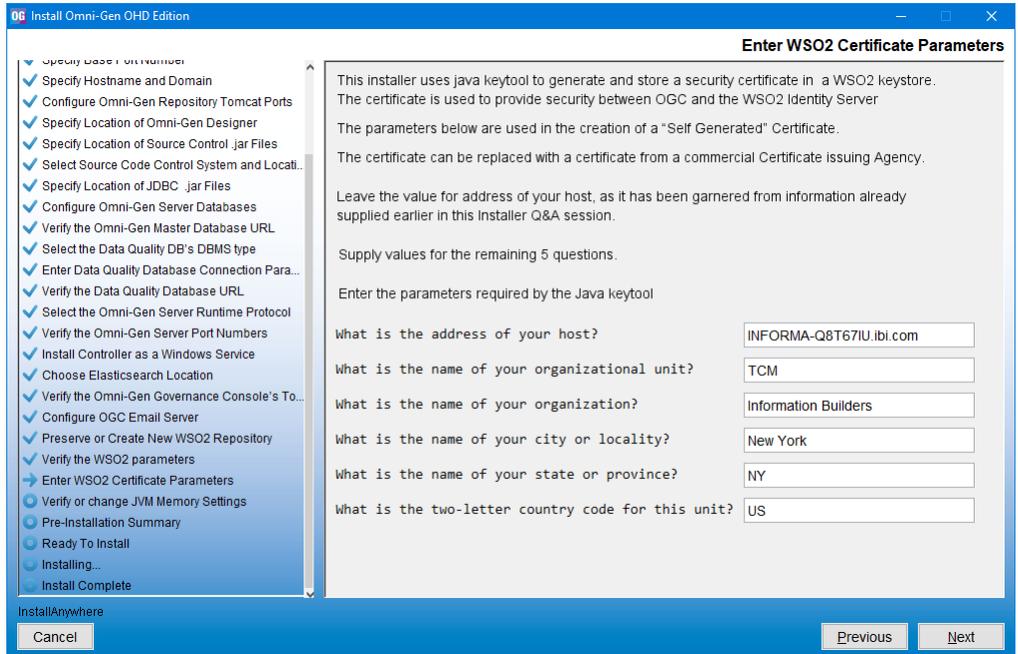
29. For new installations, ensure that Yes is selected, and then click Next.

The Verify the WSQ2 parameters pane opens, as shown in the following image.



30. Verify the parameters, and then click Next.

The Enter WS02 Certificate Parameters pane opens, as shown in the following image.

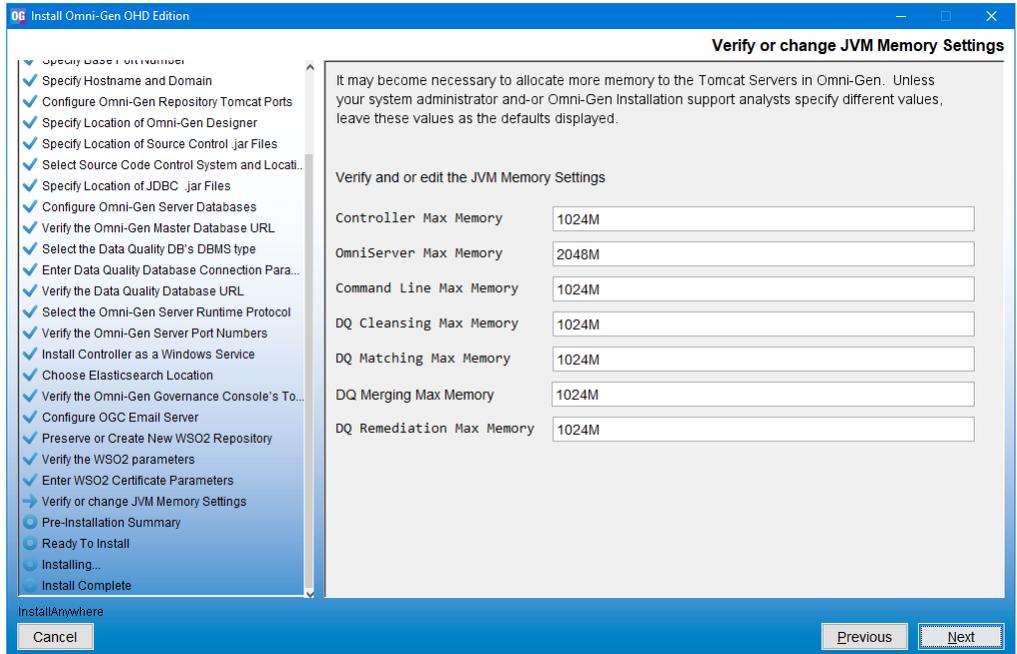


31. Collect the parameters to generate the certificate for the WS02 Identity Server (IS).

These parameters are used to build a unique certificate to secure the communication between the Omni-HealthData Governance Console (OHDGC) and WS02 Identity Server (IS). Ensure that the address of your host is correct (not *localhost*), and then type values for the remaining parameters.

32. Click *Next*.

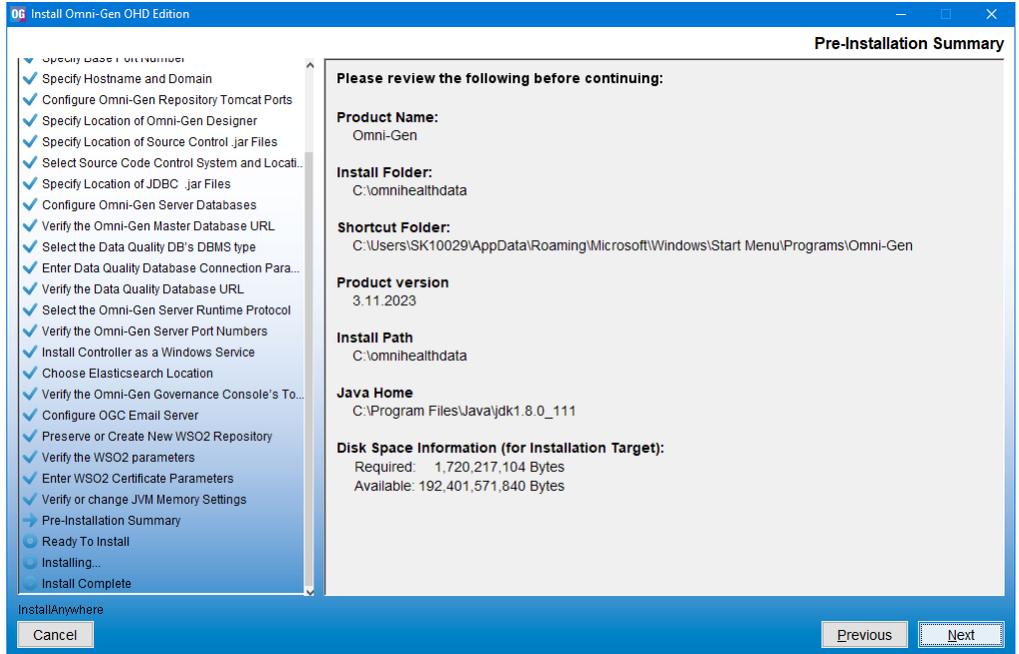
The Verify or change JVM Memory Settings pane opens, as shown in the following image.



33. Verify the settings and modify the values accordingly, if required.

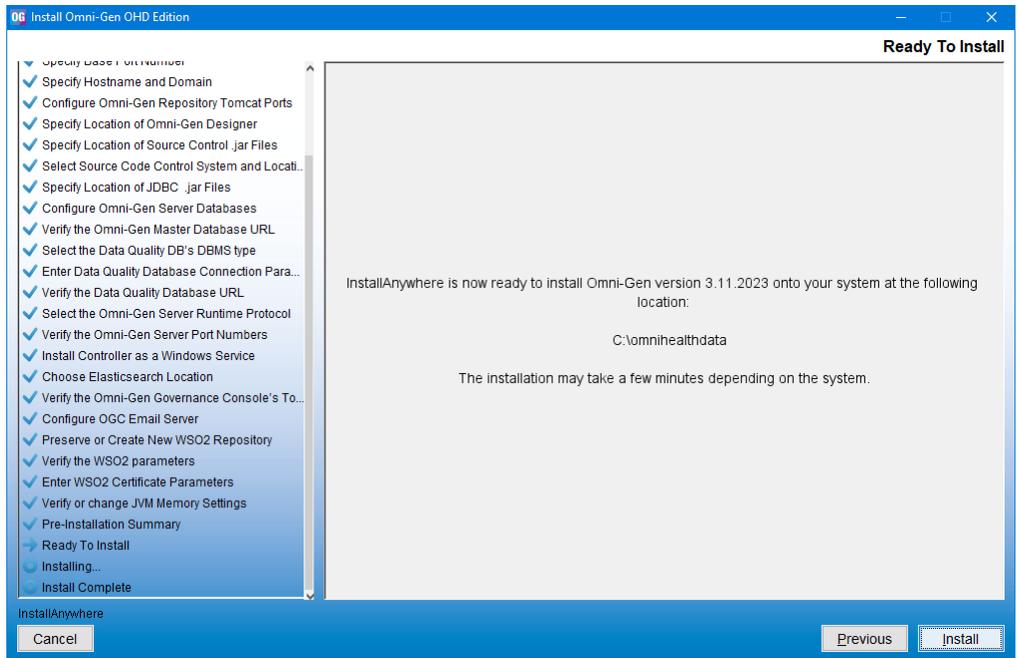
34. Click Next.

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



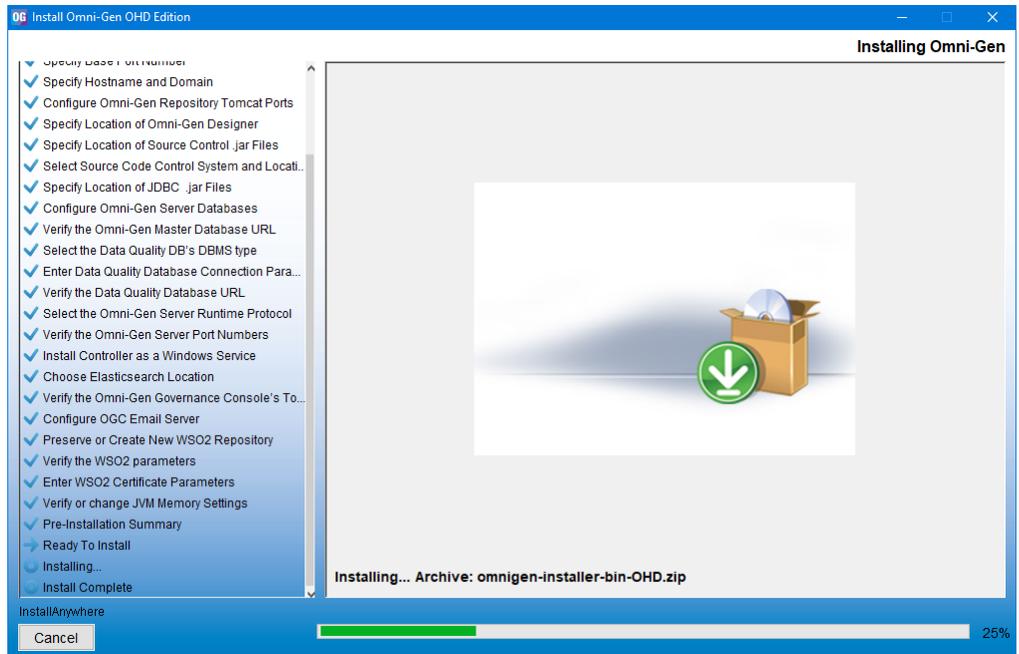
35. Review the installation settings that you specified, and then click **Next**.

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

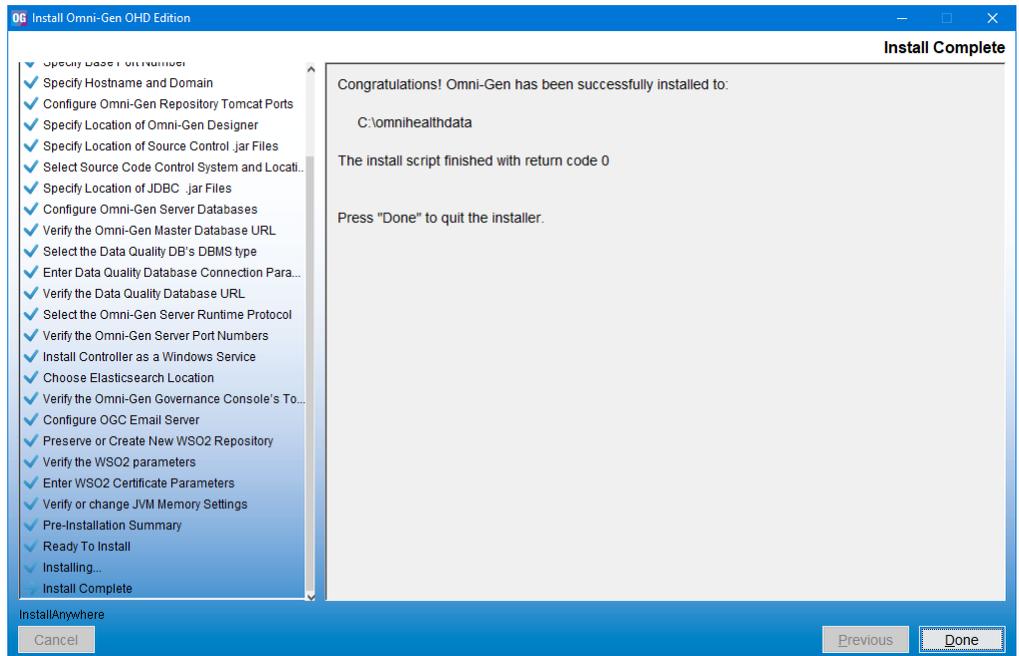


36. Click *Install* to proceed with the installation.

The Installing Omni-Gen pane opens, which displays the progress of the installation, as shown in the following image.



The installation is complete when the Install Complete pane opens, as shown in the following image.



37. Click *Done*.

38. If Windows Service is implemented:

- a. Navigate to Windows Services Manager.
- b. Start the service specified in step 24 above, and continue to step 40.

For example:

`OmniGen_omniController`

39. If Windows Service is not implemented:

- a. Navigate to the omnigen home directory.

For example:

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

- b. Navigate to the OmniServer directory

For example:

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

- c. Open a command prompt window and type the following command:

```
omni start-controller
```

- d. Press *Enter*.

Note: When the 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.

40. When the startup process has completed, proceed to [Completing Post-Installation Tasks](#) on page 49.

Completing Post-Installation Tasks

This section describes how to start Omni Server and Omni-HealthData Governance Console (OHDGC) on Windows platforms.

Procedure: How to Deploy Your Bundle

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.

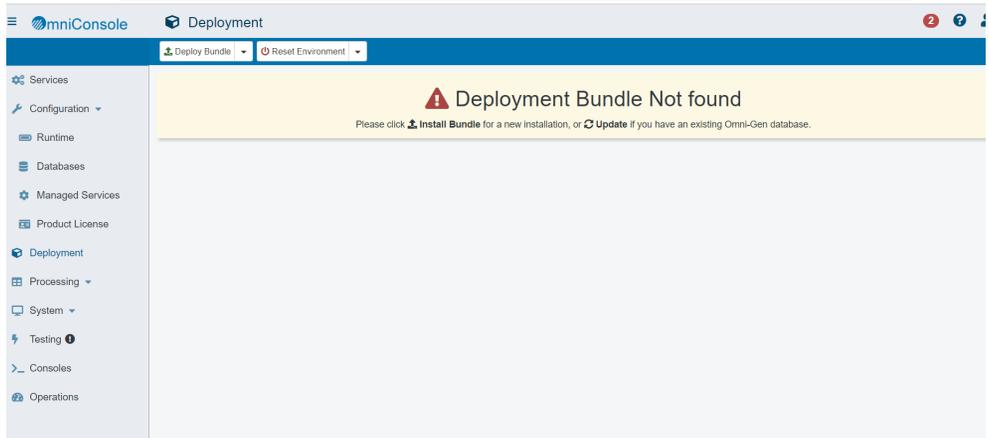
2. Log on using the following credentials:

Username: **ibi**

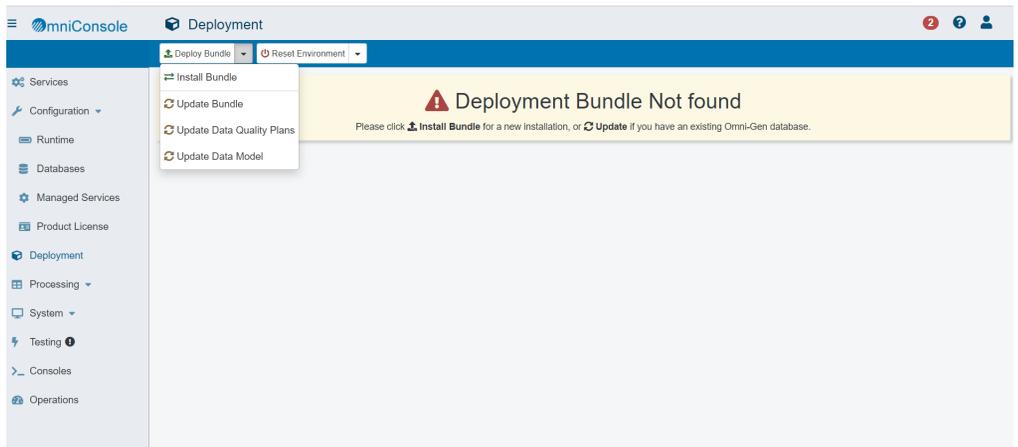
Password: **ibi**

3. 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.



4. Click *Install Bundle*, as shown in the following image.



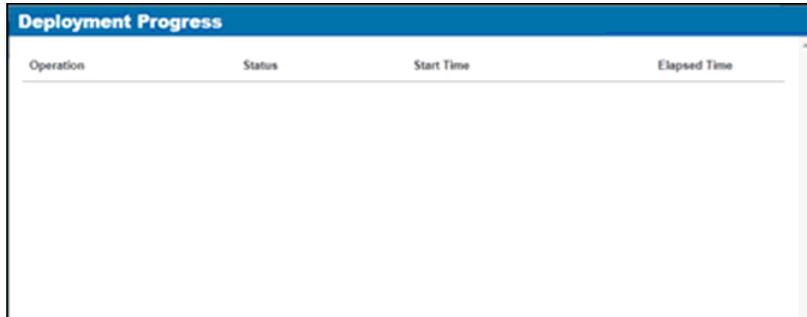
The Open dialog box is displayed.

5. Navigate to the location of your deployment bundle file, which is located in the following directory on Windows platforms:

```
C:\data\omni\product\omnihealthdata\omnigen\OmniGenData\OmniHealthData  
\omni-healthdata-bundle-3.11.*.zip
```

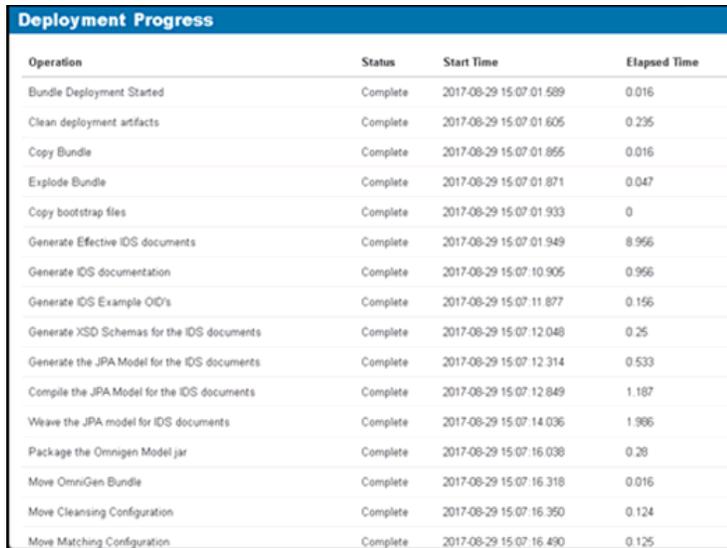
6. Select your deployment bundle file and click *Open*.

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



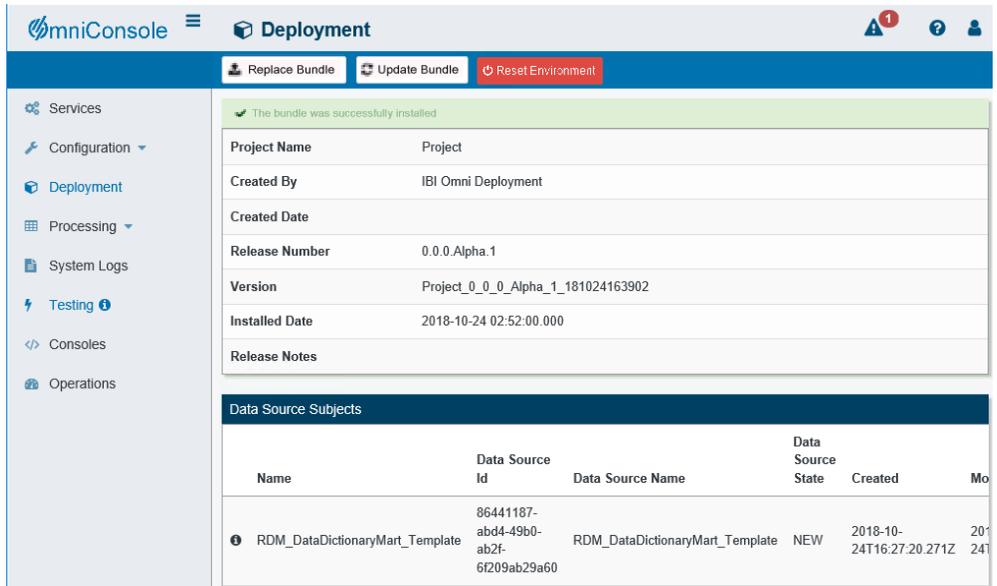
Operation	Status	Start Time	Elapsed Time
-----------	--------	------------	--------------

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 OID's	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

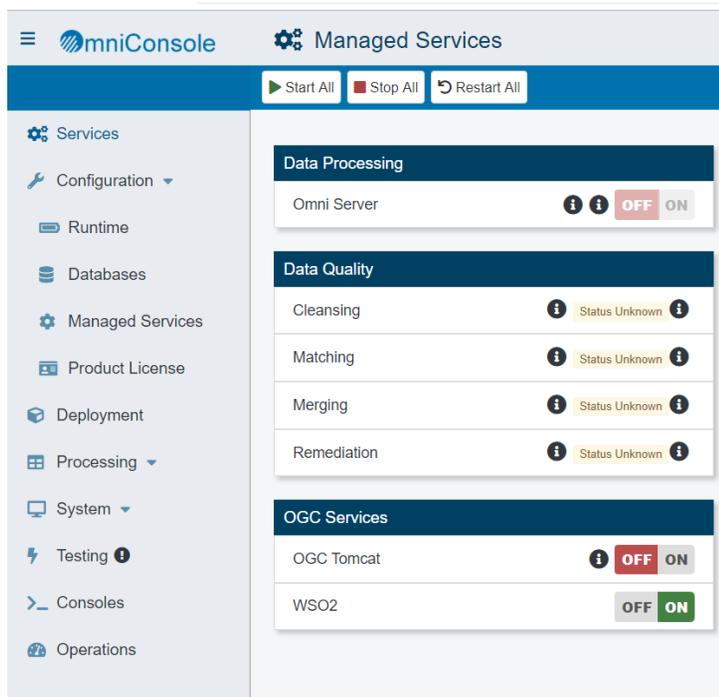
When the process is completed, a *successfully installed* message is displayed, as shown in the following image.



Procedure: How to Start Omni Services

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

If the memory on your system is insufficient, you can also start each service one at a time, as shown in the following image.



2. 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`

Procedure: How to Upload Your Metadata in Omni-HealthData Governance Console

1. Navigate to the OHDGC Login Page for your host and domain:

For example:

<http://omnihealthdata.ibi.com:9501/ogc>

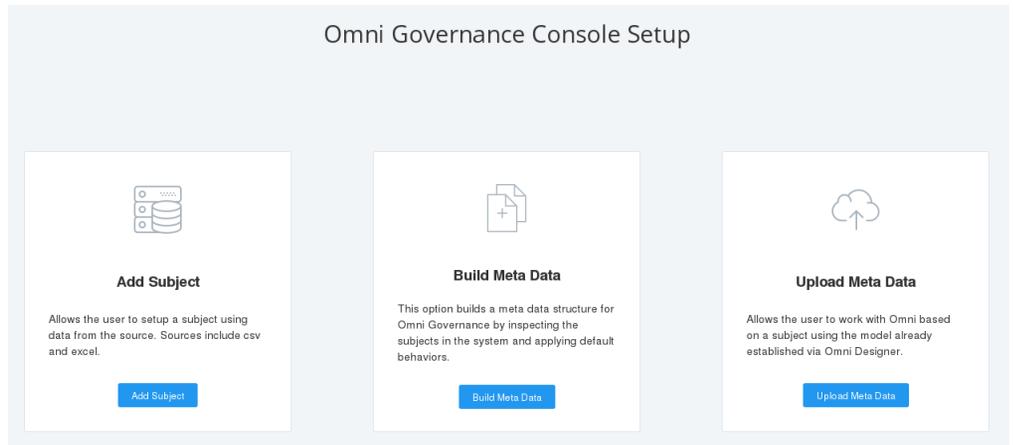
Note: In version 3.11, the default port has changed from 9090 to 9501.

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

For example:

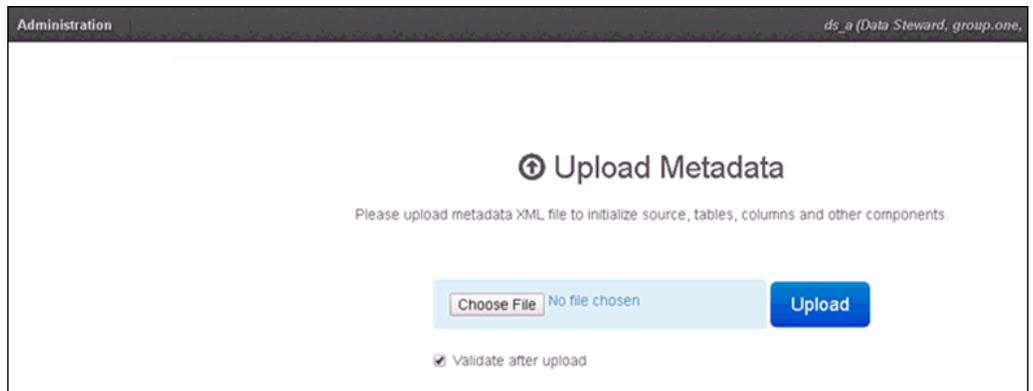
- ❑ Username: **primary/super_a**
- ❑ Password: **supera123**

The Omni Governance Console Setup page opens, as shown in the following image.



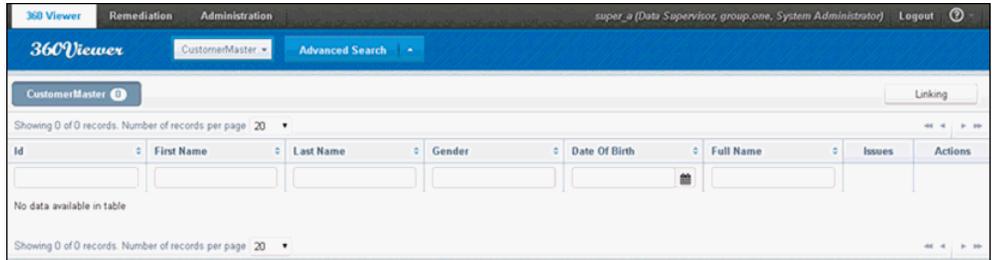
3. Click *Upload Meta Data*.

The Upload Metadata dialog box appears, as shown in the following image.



4. Click *Choose File* and navigate to the following folder:
`C:\data\omni\product\omnihealthdata\omnigen\OmniGenData\mdata`
5. Select the *MData.xml* file.
6. 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 installed and ready for use.

Chapter 3

Installing Omni-HealthData™ Version 3.11 on Linux

This chapter describes how to install the primary components of Omni-HealthData™ version 3.11 on Linux platforms.

In this chapter:

- [Completing Installation Prerequisites](#)
- [Installing Omni-HealthData™](#)
- [Completing Post-Installation Tasks](#)

Completing Installation Prerequisites

This section describes how to complete installation prerequisite activities for Omni-HealthData™.

Procedure: How to Complete Installation Prerequisites

Although Omni-HealthData™ can be installed in any appropriate directory, it is recommended that a base install directory is configured prior to installing Omni-HealthData™.

1. Create the following recommended base install directory:

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

2. Create the recommended subdirectories under the base install directory.

The following table lists and describes the additional subfolders that must be created under the base install directory. These additional subfolders facilitate the ease of upgrading by externalizing required files outside of the *omnigen* home directory that is created with the Omni Server installation.

Subfolder	Description
<i>omnihealthdata</i>	Folder under which omnihealthdata will be installed.

Subfolder	Description
<i>omnihealthdata/jdbcjars</i>	Externalized folder from the <i>omnigen</i> home directory that holds all necessary JDBC .jar files required for Omni-HealthData™.

- Acquire the required DBMS-specific JDBC .jar files for use by OHDGC and copy to the / jdbcjars subfolder created above.

- Postgres:** postgresql-42.2.8.jar
- SQL Server (Microsoft):** sqljdbc42.jar
- SQL Server (Open Source):** jtds-1.3.1.jar
- Oracle:** ojdbc8.jar
- Db2:** db2jcc4.jar, db2jcc_license_cu.jar

- Verify that your JAVA_HOME environment variable is set to the correct Java Development Kit (JDK) version.

Note: Omni Server (OS) and Omni-HealthData Governance Console (OHDGC) require Java Development Kit (JDK) Version 1.8.121 or higher.

- Verify that %JAVA_HOME%/bin is the first element in your PATH.
- Ensure that recommended port values are available and are not used by any other server or protocol.

Default Port Numbers

Component	Type	Version 3.1 Ports	Version 3.11 Ports	Security
Omni-Gen Controller/ Console	external	9500	9500	TLS 1.2
Omni-Gen Server	internal	9512	9514	TLS 1.2
Omni-Gen Server DQ High Speed TCP	internal	n/a	9532	none

Component	Type	Version 3.1 Ports	Version 3.11 Ports	Security
Data Quality Cleanse	external	9502	9504	none
Data Quality Cleanse	internal	9503	9505	none
Data Quality Match	external	9504	9506	none
Data Quality Match	internal	9505	9507	none
Data Quality Merge	external	9506	9508	none
Data Quality Merge	internal	9507	9509	none
Data Quality Remediation	external	9508	9510	none
Data Quality Remediation	internal	9509	9511	none
OGC Tomcat Shutdown	internal	9005	9024	none
OGC Tomcat Console	external	9090	9501	Tomcat Config
OGC Tomcat AJP	internal	9009	9525	Tomcat Config
OGC WS02	external	9443	9503	WS02 Config
OGC Redirect	internal	n/a	9526	none
WS02 RMI Registry	internal	n/a	9534	WS02 Config

Component	Type	Version 3.1 Ports	Version 3.11 Ports	Security
WS02 RMI Server	internal	n/a	9535	WS02 Config
WS02 LDAP Server	internal	n/a	9536	WS02 Config
WS02 KDC Server	internal	n/a	9537	WS02 Config
WS02 Thrift Entitlement Receiver	internal	n/a	9538	WS02 Config

Installing Omni-HealthData™

Omni-Gen Server and Omni-HealthData Governance Console (OHDGC) can be installed on a Linux platform by running the latest *omnigen-installer 3.11.*-Linux-OHD.bin* file, which is available for download from the Information Builders Technical Support Center:

<https://techsupport.informationbuilders.com>

This .bin file must be run from the Linux command line by a user who has the correct privileges to execute .bin installation files. Installing as the root user is not recommended. Creating a dedicated User and Group with appropriate rights is preferred.

Similar to the Windows installer, the Linux installer prompts you with a series of configuration questions, and automatically installs and configures these components based on the responses that were provided.

Procedure: How to Install Omni-HealthData™

To install Omni-HealthData™:

1. Download the latest binary package (*omnigen-installer 3.11.*-Linux-OHD.bin*) from the Information Builders Technical Support Center (<https://techsupport.informationbuilders.com>), and copy this file to a directory on your system.

Note: Use FTP in binary mode to transfer the installation file to your Linux system.

The production download files for version 3.11 are shown in the following image.



Omni-HealthData	3 11	Prod	Download
Omni-HealthData Cohort Builder	3 11	Prod	Download
Omni-HealthData HealthViews	3 11	Prod	Download
Omni-HealthData Reference Data	3 11	Prod	Download
Data Quality Server	3 11 12 3	Prod	Download

2. Navigate to the directory containing the installation file, and ensure that you have the correct privileges to execute the installation file.

Note: If you do not have the correct privileges, then type the following command at the command prompt to use the execute privilege on the installation file:

```
chmod 777 omnigen-installer-3.11.*-Linux-OHD.bin
```

3. Enter the following command at the command prompt to start the installation:

```
./omnigen-installer-3.11.*-Linux-OHD.bin -i console
```

Note: The `-i console` command runs the installer in console mode.

The installation may take a few moments to initialize.

```
Preparing to install
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
```

```
Launching installer...
```

```
=====
Omni-Gen                                     (created with InstallAnywhere)
-----
```

```
Preparing CONSOLE Mode Installation...
```

When the installation is ready to begin, the Introduction pane opens.

```
=====
Introduction
-----

InstallAnywhere will guide you through the installation of Omni-Gen
version 3.11.2013.

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 Accept License Agreement pane opens.

```
=====
Accept License Agreement
-----
```

Installation and Use of Omni-Gen version 3.11.2013 Requires Acceptance of the Following License Agreement:

INFORMATION BUILDERS, INC. HEREINAFTER "INFORMATION BUILDERS" OR "IBI")
CLICKWRAP SOFTWARE LICENSE AGREEMENT ("CWSLA")

INFORMATION BUILDERS IS WILLING TO LICENSE THE SPECIFIC SOFTWARE CHOSEN FOR DOWNLOAD AND/OR INSTALLATION AND THE ACCOMPANYING DOCUMENTATION TO YOU

ONLY ON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS OF THIS
CLICKWRAP SOFTWARE
LICENSE AGREEMENT.

IMPORTANT NOTICE TO CUSTOMERS ENCOUNTERING THE DISPLAY OF THIS CWSLA DURING AN INSTALL - READ ALL OF THE TERMS AND CONDITIONS CONTAINED HEREIN

CAREFULLY BEFORE ACCEPTING THESE TERMS. YOU ACCEPT THE TERMS BY EITHER: (A) CLICKING ON THE BUTTON BELOW THAT ACKNOWLEDGES YOUR ACCEPTANCE/AGREEMENT,

IF AVAILABLE; (B) REPLYING "YES" WHERE INDICATED, IF PROMPTED; OR (C) PROCEEDING

OTHERWISE WITH THE INSTALLATION. BY PROCEEDING WITH THE INSTALLATION, YOU ACKNOWLEDGE

THAT YOU ARE ACCEPTING AND AGREEING TO ALL OF THE TERMS AND CONDITIONS CONTAINED HEREIN. BY PROCEEDING WITH THE INSTALLATION, YOU ALSO ACKNOWLEDGE

THAT YOU ARE ACCEPTING AND AGREEING TO THE TERMS AND CONDITIONS OF ANY APPLICABLE THIRD PARTY SOFTWARE AND LICENSES USED IN THE SOFTWARE. A LIST OF

LICENSES IS AVAILABLE AT

http://www.ibi.com/products/third_party_licenses/index.html.

IF YOU ARE NOT WILLING TO BE BOUND BY THESE TERMS AND CONDITIONS, YOU MUST

PROMPTLY TERMINATE THE INSTALLATION PROCEDURE BY CLICKING "NO" (OR "CANCEL")

PRESS <ENTER> TO CONTINUE:

```
.
.
.
```

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

```
.
.
.
```

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

6. Enter *Y* to accept the terms of the license agreement and then press *Enter* to continue.

The Choose Installation Folder pane opens.

```
=====
Choose Installation Folder
-----

Please specify the folder which will be the root of this installation.

Where would you like to install?

    Default Install Folder: /home/userid

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
:
```

7. Enter the desired installation location (for example, */data/omni/product/omnihealthdata*) or press *Enter* to accept the default installation folder and continue.

Note: If you entered a unique path, a prompt to confirm the path is displayed. Select *Y* to confirm and then press *Enter* to continue.

The Choose Java Virtual Machine pane opens.

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

Please Choose a Java VM for Use by the installed application

->1- /usr/java/jdk1.8.0_221/bin/java

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

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

The Specify Base Port Number pane opens.

```
=====
Specify Base Port Number
-----

Choose a port number as the starting point.

Base Port Number (Default: 9500):
```

Specifying a base port number automatically assigns a set of port numbers for use by Omni-Gen components, and is used when installing more than one instance of Omni-Gen on a single machine. If you are installing a second instance of Omni-Gen, or need to configure different ports to avoid conflicts with systems already deployed on your OmniGen host, then see your system administrator. Otherwise, click *Next* to continue.

9. Type a unique port number or press *Enter* to accept the default and continue.

The Specify Hostname and Domain pane opens.

```
=====
Specify Hostname and Domain
-----

Enter the Hostname and Domain

Hostname (Default: hostname):

Domain : ibi.com
```

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

10. Type a unique host name and domain, or press *Enter* to accept the default values and continue.

The Specify Location of JDBC .jar Files pane opens.

```
=====
Specify Location of JDBC .jar Files
-----

Omni-Gen uses a DBMS specific .jar file(s) to implement the JDBC
protocol and
communicate with the DBMS. The JDBC jar file(s) are supplied by your
DBMS
vendor, and you must copy them to a location on the target Omnigen Host
machine, and enter the location of the JDBC jar files below.

Enter the location of the JDBC jar file(s). (Default: /home/userid/
jdbcjars)
:
```

11. Specify the location of your JDBC .jar files (for example, `/data/omni/product/omnihealthdata/jdbcjars`) and then press *Enter* to continue.

The Configure Omni-Gen Server Databases pane opens.

```
=====
Configure Omni-Gen Server Databases
-----

Overview of OmniGen Databases & their Configuration

Omni-Gen uses 3 logical Databases: The OGS Database, The Remediation
Database, and the OGS Data Quality (DQ) Database.

Both the OGS Database tables and the Remediation Database tables are
created and managed in the same physical database which is specified in
the
following screens in response to the Installer's prompts for the
Remediation
Database parameters.

Following the entry of Remediation Database configuration parameters,
the DQ Database tables will be created in the location specified in
response
to the Installer's prompts for the DQ Database parameters.

When configuring the two (Remediation and DQ) database locations, you
may configure two separate locations, one each for Remediation and DQ,
or
you may configure 1 physical location for all three Databases. The
example in
this document will use 2 different Database names, one for the (OGS plus
Remediation Databases, and One for the DQ Database.

PRESS <ENTER> TO CONTINUE:
```

12. Press *Enter* to continue.

The Select the DBMS type of the Remediation Database pane opens.

```
=====
Select the DBMS type of the Remediation Database
-----

Select the DBMS type used for OGS & Remediation Databases

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

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE
DEFAULT:
```

13. Type the number that corresponds to the database that you want to use for Omni-Gen Server (OGS) and the Remediation database.

14. Press *Enter* to continue.

The Enter OGS Database Parameters: Oracle, Postgress, Teradata pane opens.

```
=====
Enter OGS Database Parameters: Oracle, Postgress, Teradata
-----

Enter the OGS Database Connection Parameters

User Name (Default: omnigen): postgres

Password (Default: omnigen): postgres

Host (Default: localhost): hostname

Port (Default: 5432):

Database Name (Default: omnigen): omnihealthdata
```

15. Specify the DBMS-specific parameters for the combined OGS and Remediation database, and then press *Enter* to continue.

The Verify the Omni-Gen Master Database URL pane opens.

```
=====
Verify the Omni-Gen Master Database URL
-----

Review and or Edit the Omni-Gen Server (OGS) Database URL

Database URL      (Default:
    jdbc:postgresql://hostname:5432/omnihealthdata):
```

16. Verify the database URL, and then press *Enter* to continue.

A test connection is made to the specified target DBMS based on the specified parameters.

If you receive a message indicating that your connection test failed, verify your DBMS parameters and that your database name exists in the DBMS you are using.

When your database exists and the user name, password, and host are correct, the Omni-Gen Server Database Connection Test Passed pane opens.

```
=====
Omni-Gen Server Database Connection Test Passed
-----

Omni-Gen Server Connection to
jdbc:postgresql://hostname:5432/omnihealthdata succeeded

PRESS <ENTER> TO CONTINUE:
```

17. Press *Enter* to continue.

The Select the Data Quality DB's DBMS type pane opens.

```
=====
Select the Data Quality DB's DBMS type
-----

Select the DBMS type used for Omni-Gen Server - Data Quality Tables

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

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE
DEFAULT:
```

18. Type the number that corresponds to the database that you want to use for the Data Quality (DQ) database.
19. Press *Enter* to continue.

The Enter DQ Database Parameters: Oracle, Postgres, Teradata pane opens.

```
=====
Enter DQ Database Parameters: Oracle, Postgres, Teradata
-----

Please enter the Omni-Gen Server Data Quality Database Connection
Parameters

User Name (Default: postgres): postgres

Password (Default: postgres): postgres

Host (Default: hostname): hostname

Port (Default: 5432):

Database Name (Default: database_name): omnirepo
```

20. Specify the DBMS-specific parameters for the DQ database, and then press *Enter* to continue.

The Verify the Data Quality Database URL pane opens.

```

=====
Verify the Data Quality Database URL
-----

Review and or Edit the Data Quality database URL

DQ database URL      (Default:
  jdbc:postgresql://hostname:5432/omnirepo):

```

21. Verify the database URL, and then press *Enter* to continue.

A test connection is made to the specified target DBMS based on the specified parameters.

If you receive a message indicating that your connection test failed, verify your DBMS parameters and that your database name exists in the DBMS you are using.

When your database exists and the user name, password, and host are correct, the Data Quality Database Connection Test Passed pane opens.

```

=====
Data Quality Database Connection Test Passed
-----

Data Quality Connection to
jdbc:postgresql://hostname:5432/omnirepo succeeded

PRESS <ENTER> TO CONTINUE:

```

22. Press *Enter* to continue.

The Select the Omni-Gen Server Runtime Protocol pane opens.

```

=====
Select the Omni-Gen Server Runtime Protocol
-----

Omni-Gen Server Runtime Protocol

  1- http
  ->2- https

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE
DEFAULT:

```

23. Select the desired server runtime protocol (HTTP or HTTPS), and then press *Enter* to continue.

The Verify the Omni-Gen Server Port Numbers pane opens for the specified Omni-Gen Server runtime protocol (HTTP or HTTPS).

```
=====
Verify the Omni-Gen Server Port Numbers https
-----

Enter the Omni-Gen Server ports

Controller Port (Default: 9500):

Server Port (Default: 9514):

Deployment Tool Server HTTPS Port (Default: 9502):
```

24. Accept the default values, but change them if your system administrator informs you of a conflict and recommends changes to alternate available ports.
25. Press *Enter* to continue.

The Verify the Omni-Gen Governance Console's Tomcat Parameters pane opens.

```
=====
Verify the Omni-Gen Governance Console's Tomcat Parameters
-----

Enter the Omni-Gen Governance Console Tomcat information

Hostname (Default: hostname): hostname.ibi.com

HTTP Port (Default: 9501):

HTTPS Port (Default: 9526):

Ajp Port (Default: 9525):

Shutdown Port (Default: 9524):

Admin User (Default: admin):

Admin Password (Default: admin):
```

The Hostname parameter defaults to the machine on which you are currently installing Omni-HealthData™.

26. Accept the default values, and then press *Enter* to continue.
- The Configure OGC Email Server pane opens.

```

=====
Configure OGC Email Server
-----

OGC's Remediation Service provides optional E-Mail notification of
Ticket and Case Reassignments
To enable this service, your installation's SMTP Server must be
configured to transmit these E-Mails.

If you are not using this optional feature, leave these dialog boxes
empty, and simply Click Next

Enter SMTP Parameters for OGC E-Mails

SMTP Host : smtphostname

SMTP Port : 25

Email Notification From : email@address

SMTP Username :

SMTP Password :

SMTP SSL Enabled (true of false) :

```

27. Unless you are adding the email option, leave the parameter values blank, press *Enter*, and proceed to the Preserve or Create New WSO2 Repository pane in the installer (skip to Step 36).
28. 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.

In addition, each user who will receive email notifications must have a valid email address in their WS02 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 will bring back those email addresses to its Local User Store profile of the user.
- Each hardcoded user in the WS02 Primary domain must have an email in their WS02 user profile.

Following the Configure OGC Email Server dialog box, the Preserve or Create New WS02 Repository pane opens.

```
=====
Preserve or Create New WS02 Repository
-----

Omni-Gen and the Omni-Gen Governance Console use a WS02 Identity Server
(WS02_IS) to provide User Authentication and Data Access Authorization
services.

Answer Yes below to install a new, empty, WS02 server and Repository of
Roles,
Permissions etc.

Answer No - if this is an upgrade from an existing , older version of
Omni-Gen, and you wish to preserve and utilize the existing WS02
profiles and
permissions.

Do you want to install a new (empty repository) WS02 Identity Server?

->1- Yes
   2- No

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE
DEFAULT:
```

29. For new Omni-HealthData™ installations, ensure that Yes is selected (option 1), and then press *Enter* to continue.

The Verify the WS02 parameters pane opens.

```
=====
Verify the WS02 parameters
-----

Verify the WS02 connection parameters

WS02 Host (Default: hostname): hostname.ibi.com

WS02 Port (Default: 9503):
```

30. Confirm the WS02 parameters, and then press *Enter* to continue.

The Enter WS02 Certificate Parameters pane opens.

```

=====
Enter WS02 Certificate Parameters
-----

This installer uses java keytool to generate and store a security
certificate
in a WS02 keystore. The certificate is used to provide security
between OGC
and the WS02 Identity Server. The parameters below are used in the
creation of
a "Self Generated" Certificate. The certificate can be replaced with a
certificate
from a commercial Certificate issuing Agency.

Leave the value for address of your host, as it has been garnered from
information already supplied earlier in this Installer Q&A session.

Supply values for the remaining 5 questions.

Enter the parameters required by the Java keytool

What is the address of your host? (Default: hostname): hostname.ibi.com

What is the name of your organizational unit? : corp

What is the name of your organization? : ibi

What is the name of your city or locality? : ny

What is the name of your state or province? : ny

What is the two-letter country code for this unit? : us

```

31. Collect the parameters to generate the certificate for WS02.

The parameters are used to build a unique certificate to secure the Omni-HealthData Governance Console to the WS02 communication.

Ensure that the address of your host is correct (not *localhost*), and then type values for the other parameters.

32. Press *Enter* to continue.

The Verify or change JVM Memory Settings pane opens.

```
=====
Verify or change JVM Memory Settings
-----
```

It may become necessary to allocate more memory to the Tomcat Servers in Omni-Gen. Leave these values as the defaults displayed, unless your system administrator and Omni-Gen Installation support analysts specify different values.

Verify and or edit the JVM Memory Settings

Controller Max Memory (Default: 1024M):

OmniServer Max Memory (Default: 2048M): 4G

Command Line Max Memory (Default: 1024M):

DQ Cleansing Max Memory (Default: 1024M):

DQ Matching Max Memory (Default: 1024M): 2G

DQ Merging Max Memory (Default: 1024M):

DQ Remediation Max Memory (Default: 1024M): 2G

33. Change the values only if you are instructed by Information Builders or iWay Support analysts, otherwise, press *Enter* to continue.

The Pre-Installation Summary pane opens.

```

=====
Pre-Installation Summary
-----

Please Review the Following Before Continuing:

Product Name:
    Omni-Gen

Install Folder:
    /home/userid

Link Folder:
    /home/userid

Product Version
    3.11.2013

Install Path
    /home/userid

Java Home
    /usr/java/jdk1.8.0_221

Disk Space Information (for Installation Target):
    Required:   1,718,158,500 Bytes
    Available: 185,251,954,688 Bytes

PRESS <ENTER> TO CONTINUE:

```

34. Review all of the settings in the Pre-Installation Summary pane, and then press *Enter* to continue.

The Ready To Install pane opens.

```

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

InstallAnywhere is now ready to install Omni-Gen version 3.11.2013 onto
your system at the following location:

/home/userid

The installation may take a few minutes depending on the system.

PRESS <ENTER> TO INSTALL:

```

35. Press *Enter* to begin the installation.

Progress of the installation is shown.

```
=====
Installing...
-----

[=====|=====|=====|=====]
[-----|-----|-----|-----]

=====

Please Wait
-----

Executing Installation Script...

The Omni-HealthData™ installation is complete when the Installation Complete pane
displays.

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

Congratulations. Omni-Gen has been successfully installed to:

/home/userid

The install script finished with return code 0

PRESS <ENTER> TO EXIT THE INSTALLER:
```

36. Press *Enter* to exit (close) the installer.

You are returned to the command prompt.

37. Navigate to the *omnigen* home directory that is created.

For example:

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

38. Navigate to the *omniserver* home directory that is created.

For example:

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

39. Open a terminal window and type the following command:

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

40. Press *Enter*.

Note: When the 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.

41. When the startup process has completed, proceed to [Completing Post-Installation Tasks](#) on page 77.

Completing Post-Installation Tasks

This section describes how to start Omni Server and Omni-HealthData Governance Console (OHDGC) on Linux platforms.

Procedure: How to Deploy Your Bundle

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.

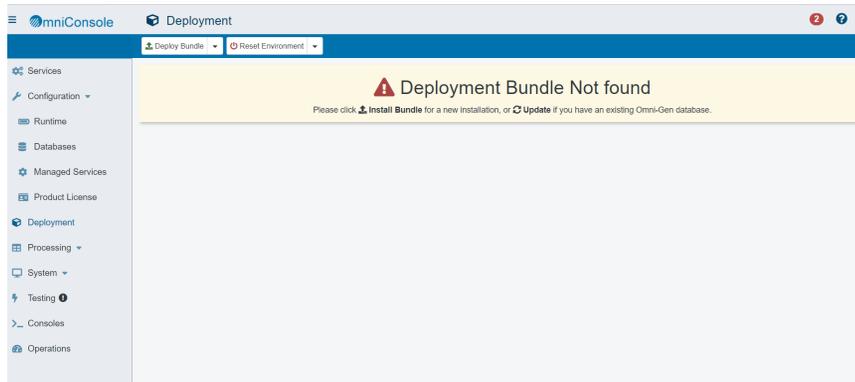
2. Log on using the following credentials:

Username: **ibi**

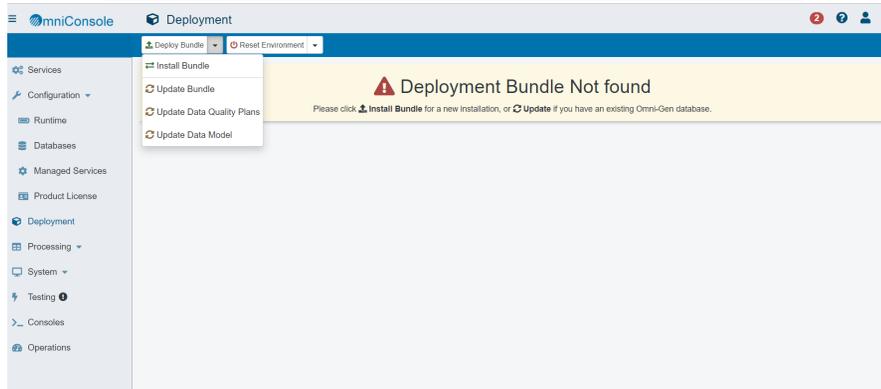
Password: **ibi**

3. 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.



4. Click *Install Bundle*, as shown in the following image.



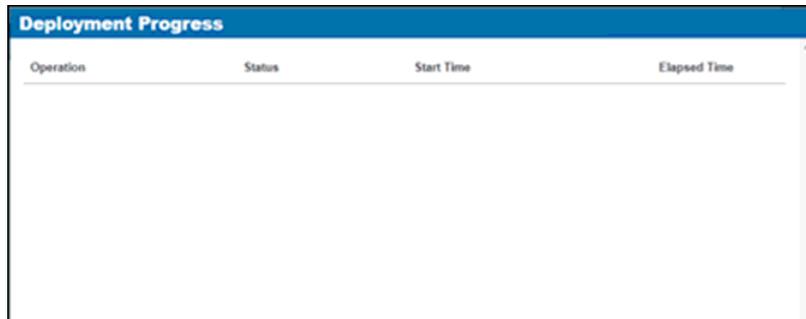
The Open dialog box is displayed.

5. Navigate to the location of your deployment bundle file, which is located in the following directory on Linux platforms:

`/data/omni/product/omnihealthdata/omnigen/OmniGenData/OmniHealthData/
omni-healthdata-bundle-3.11.*.zip`

6. 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 indicates '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	

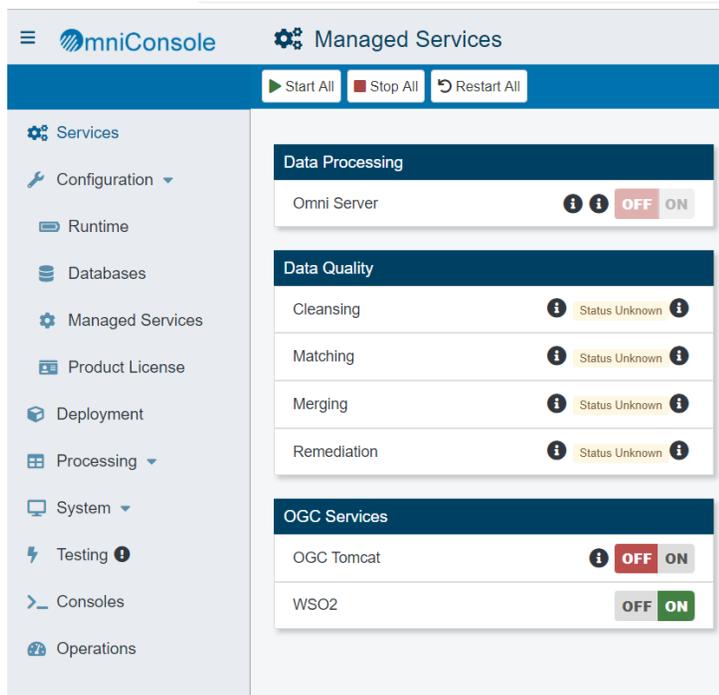
Below the deployment details, there is a section for 'Data Source Subjects' with the following table:

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

Procedure: How to Start Omni Services

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

If the memory on your system is insufficient, you can also start each service one at a time, as shown in the following image.



2. 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
```

Procedure: How to Upload Your Metadata in Omni-HealthData Governance Console

1. Navigate to the OHDGC Login Page for your host and domain.

For example:

```
http://omnihealthdata.ibi.com:9501/ogc
```

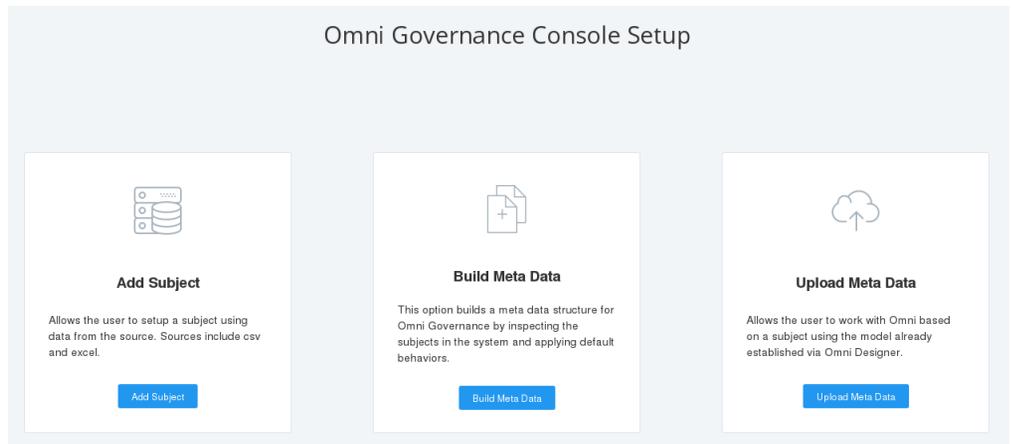
Note: In version 3.11, the default port has changed from 9090 to 9501.

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

For example:

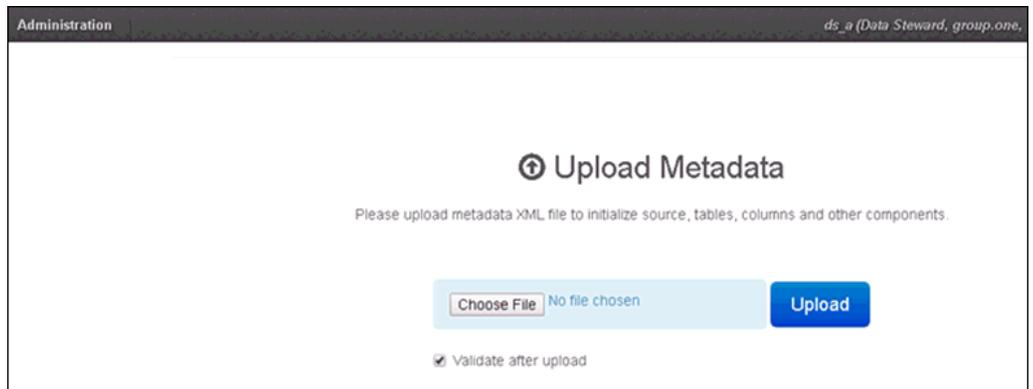
- Username: **primary/super_a**
- Password: **supera123**

The Omni Governance Console Setup page opens, as shown in the following image.



- Click *Upload Meta Data*.

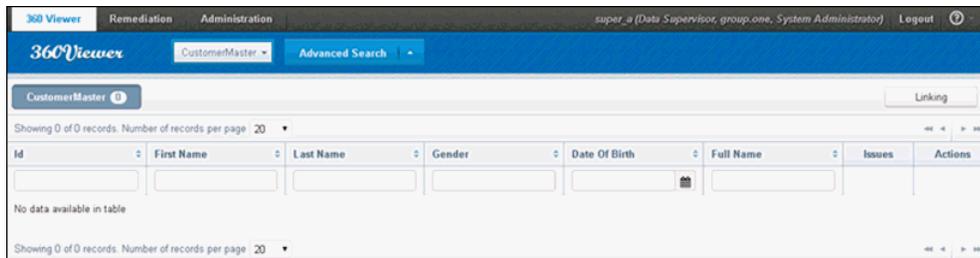
The Upload Metadata dialog box appears, as shown in the following image.



- Click *Choose File* and navigate to the following folder:

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

5. Select the *MData.xml* file.
6. 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 installed and ready for use.



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iWay

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Version 3.11

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