Information Builders

iWay

Omni-HealthData™ Installer User's Guide

Version 3.1

November 20, 2018

Contents

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™ Components Overview and Prerequisites	Provides prerequisites and instructions for installing Omni-HealthData™ version 3.1.5.
2	Installing Omni Server and Omni-HealthData Governance Console on Windows Platforms	Describes how to install the primary components of Omni-HealthData on Windows platforms.
3	Installing Omni Server and Omni-HealthData Governance Console on Linux Platforms	Describes how to install the primary components of Omni-HealthData on Linux platforms.
4	Installing Omni Server and Omni-HealthData Governance Console on IBM AIX Platforms With Db2	Describes how to install the primary components of Omni-HealthData on IBM AIX platforms with Db2.
5	Modifying the og_configuration.properties File	Describes how to apply implementation-specific changes to the *og_configuration.properties* file.
6	Starting the Omni Server and Omni-HealthData Governance Console	Describes how to apply the appropriate metadata to start Omni Server (OS) and Omni-HealthData Governance Console (OHDGC) on all platforms.

Documentation Conventions

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

Convention	Description

`THIS TYPEFACE`
or
`this typeface`
	Denotes syntax that you must type exactly as shown.

this typeface	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.
underscore	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.
...	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.

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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?	

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

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Thank you, in advance, for your comments.

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Chapter 1

Omni-HealthData™ Components Overview and Prerequisites

This chapter provides prerequisites and instructions for installing a new instance of Omni-HealthData™ version 3.1.5. The procedure which follows installs Omni Server (OS) and the Omni-HealthData Governance Console (OHDGC).

In this chapter:

Omni-HealthData™ Components Configuration Overview

Information Builders healthcare applications allow provider and payer organizations to acquire, manage, and analyze their information more effectively using business intelligence, analytics, data integration, data quality, and master data management technologies. While the underlying architecture is the same, Omni-HealthData™ is offered in two editions, the Payer Edition and the Provider Edition, in order to address the consumption nuances of each space.

In the shift to value-based healthcare, **Omni-HealthData™ Payer Edition** enables health insurers to get a 360-degree view of every member. Payers can onboard clinical data from hospitals, doctors, and community care organizations, and unify it with claims and operational data from internal sources, while optimizing the consistency, completeness, and accuracy of that information, making it available to stakeholders in a consumable way.

Omni-HealthData™ Provider Edition is an information management solution that gives providers a 360-degree view of patients, providers, payers, workforce, facilities and other critical healthcare domains. This single application simplifies complex data integration, promotes data quality, and facilitates ongoing data governance to ensure sustainability. Providers can then analyze diagnoses, treatments, and outcomes across the entire healthcare continuum.

Installation Prerequisites

Before Omni Server (OS) and the Omni-HealthData Governance Console (OHDGC) are installed, ensure that the following prerequisites are configured on your environment:

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.

Note: Omni-HealthData™ requires case-sensitivity on the database. While most DBMS 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. Java Development Kit (JDK) Version 1.8.121 or higher.

   Note: Omni Server (OS) and Omni-HealthData Governance Console (OHDGC) requires Java Development Kit (JDK) version 8.

   a. Verify that the JAVA HOME environment variable is defined properly.

   b. Verify that %JAVA HOME%\bin is the first element in your PATH.

3. Acquire the required DBMS specific JDBC .jar files for use by OHDGC and ensure these files are available on the machine where OHDGC will be installed.

   - **Db2**: db2jcc4.jar, db2jcc_license_cu.jar
   - **Oracle**: ojdbc7.jar
   - **Postgres**: postgresql-9.3-1102.jdbc4.jar
   - **SQL Server (Microsoft)**: sqljdbc42.jar

- **SQL Server (Open Source)**: jtds-1.3.1.jar
- **Teradata**: terajdbc4.jar, tdgssconfig.jar

4. Ensure that the database server is configured to allow TCP connections and that the TCP ports are active.
5. Ensure that you have the proper administrative rights to modify the Java CA certificate (cacerts) store and add files to the following directory:

   `JAVA_HOME/jre/lib/security`

   Modifying *cacerts* is required for interacting with the WSO2 Identity Server (WSO2 IS).
6. Ensure there are no conflicts with any port value that is required by Omni-HealthData, as outlined below.

Recommended Port Values

This section provides a reference for all of the port values that are required by Omni-HealthData™. Before installation, ensure that these ports are available and are not used by any other server or protocol.

Omni Server Port Usage

Component	Service	Required Port Number
DQ Cleanse	HTTP Service HTTP HTML	9502 9503
DQ Match	HTTP Service HTTP HTML	9504 9505
DQ Merge	HTTP Service HTTP HTML	9506 9507
DQ Remediation	HTTP Service HTTP HTML	9508 9509
Elasticsearch	HTTP Service	9516 (out of the box) 9517
Logstash		No Ports

Component	Service	Required Port Number
Kibana	HTTP HTML	9515 (out of the box)
Omni-HealthData Server Console	HTTP HTML	9600
Omni-HealthData Controller	HTTP Service	9500
Omni-HealthData Server	HTTP Service	9508
	DQ TCP Port	9510

Omni-HealthData Governance Console Port Usage

Component	Service	Required Port Number
Apache Tomcat	Shutdown	9005
	HTTP	9090
	AJP	9009
	Redirect	10443
WSO2 Identity Server	HTTP Service	9443
Elasticsearch	HTTP Service	9200
Logstash	HTTP Service	8500

Chapter 2

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

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

In this chapter:

Creating Install Directories

This section describes how to create install directories for Omni-HealthData.

Procedure: How to Create Install Directories

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 base install directory that is recommended:

   `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
omnihealthdata	The folder under which the Omni-HealthData binary package will be unzipped.

Subfolder	Description
omnihealthdata\properties	An externalized folder from the *omnigen* home directory that holds any necessary properties files required for Omni-Health Data.
omnihealthdata\jdbcjars	An externalized folder from the *omnigen* home directory that holds all necessary JDBC .jar files required for Omni-Health Data.

3. Copy the JDBC .jar file (as indicated in step 3 under *Installation Prerequisites* in *Chapter 1, Overview and Prerequisites*), to the \jdbcjars subfolder created above.
4. Verify that the *JAVA HOME* environment variable (for Java Development Kit version 8) is defined properly and that *%JAVA HOME%\bin* is the first element in your PATH.

Installing Omni Server

This section describes how to install Omni Server.

Procedure: How to Install Omni Server

1. Download the latest binary package (*ohdbinarypackage*bin.zip*) from the Information Builders Technical Support Center at *http://techsupport.informationbuilders.com*.

   Note: On Windows platforms, the 7-Zip open source file archive utility must be used to extract this installation .zip file. To download a copy of the 7-Zip utility, go to the following website: *http://www.7-zip.org*
2. Unzip the *ohdbinarypackage* into the *omnihealthdata* subdirectory where your base install is located.

   For example:

   ```
   C:\omni\product\omnihealthdata
   ```
3. Navigate to the *omnigen* home directory that is created.

   For example:

   ```
   C:\omni\product\omnihealthdata\omnigen
   ```
4. Navigate to the *sample_configuration* directory and copy the *og_configurations.properties* file to the *C:\omni\product\omnihealthdata\properties* subdirectory indicated above.
5. Modify the *og_configuration.properties* file, as described in *Modifying the og_configuration.properties File* on page 81.

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

   For example:

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

7. Run the following configuration command:

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

Installing Omni-HealthData Governance Console

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

Procedure: How to Install Omni-HealthData Governance Console

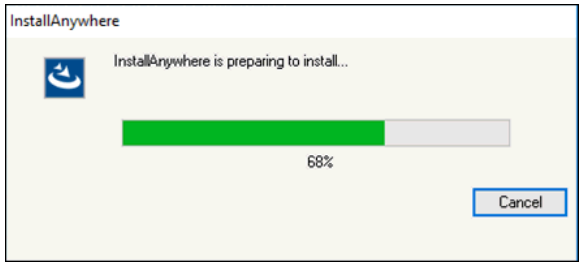
1. Navigate to the *omnihealthdatagc* folder.

   For example:

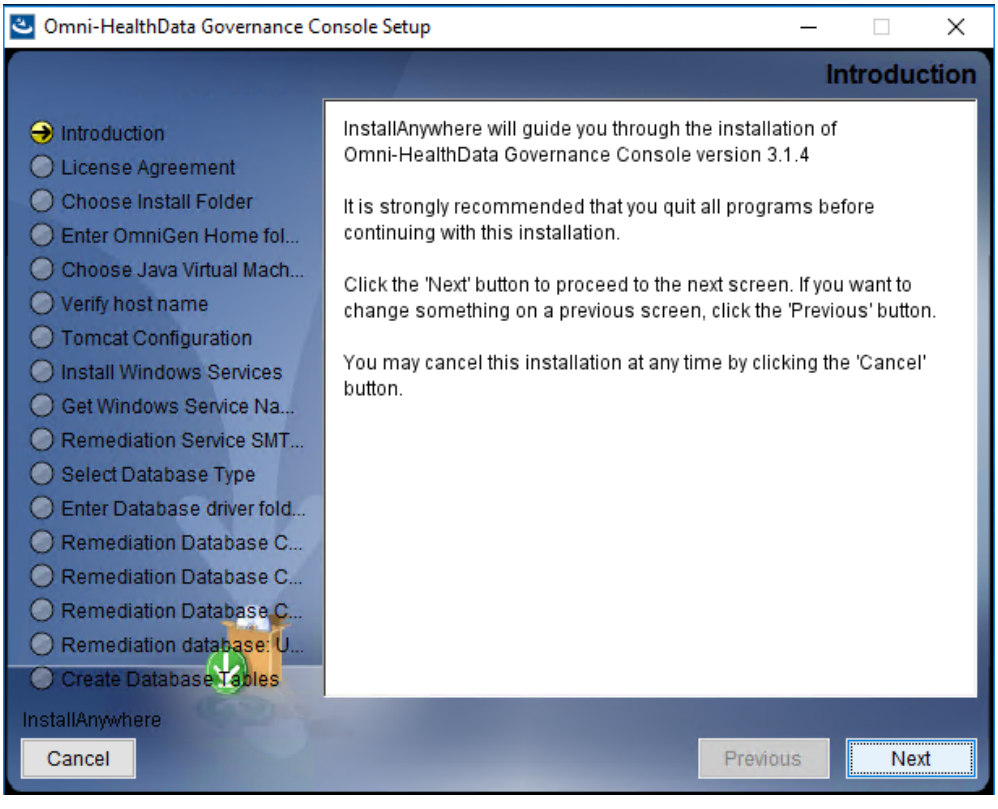
   ```
   C:\omni\product\omnihealthdata\omnigen\omnihealthdatagc
   ```

2. 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.

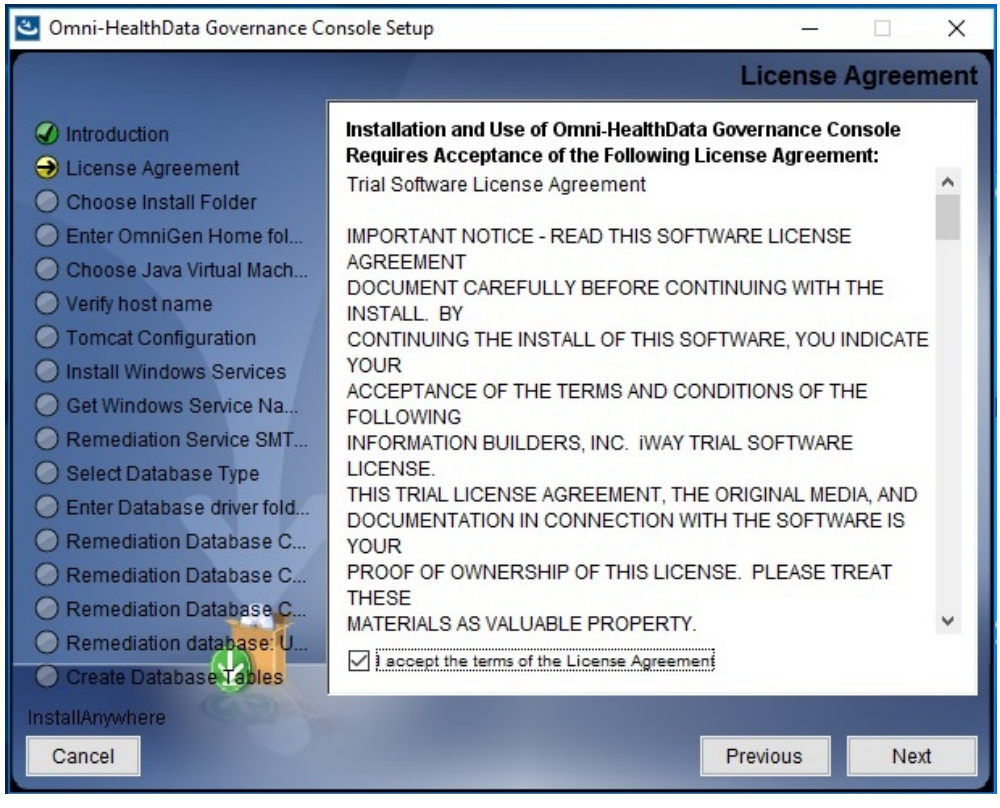


When the installation is ready, the Introduction pane opens, as shown in the following image.



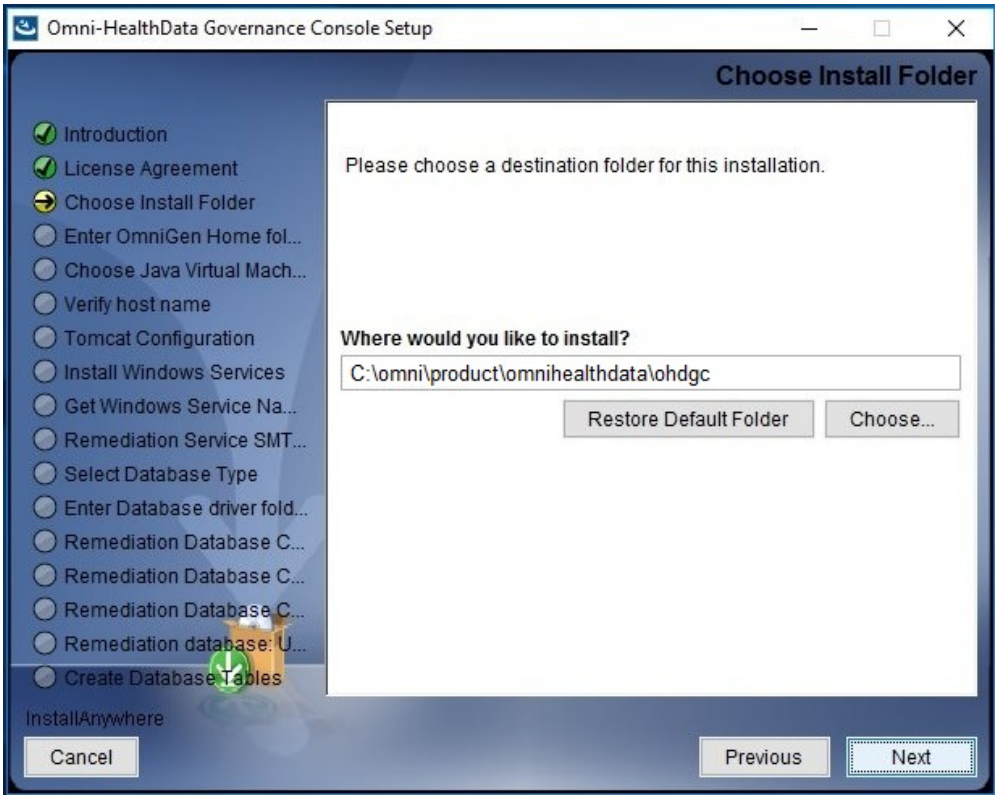
3. Click *Next* to continue.

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



4. 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.



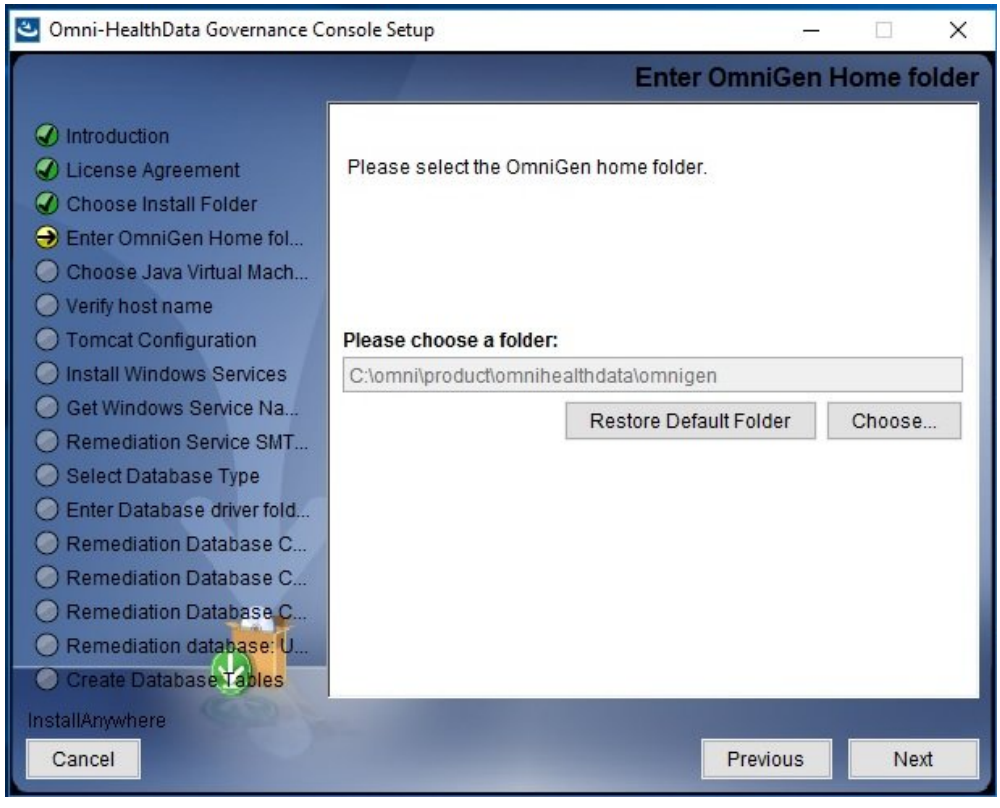
5. In the *Where would you like to install?* field, enter the location where you want to install Omni-HealthData Governance Console (OHDGC) components.

   For example:

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

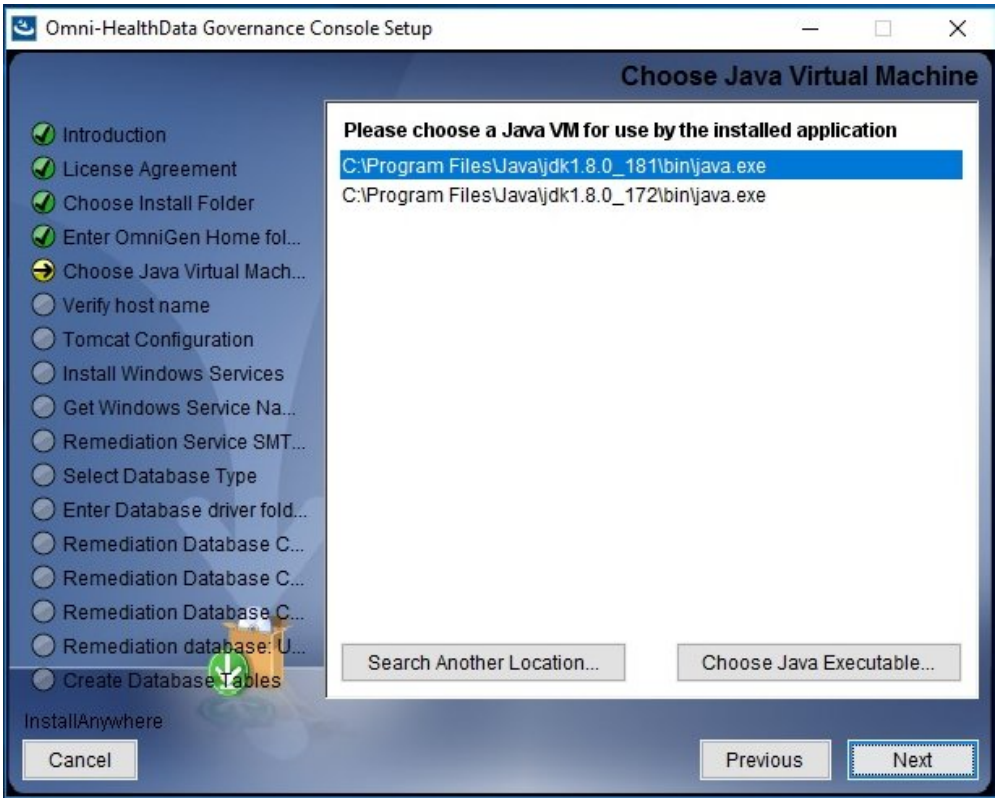
6. Click *Next*.

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



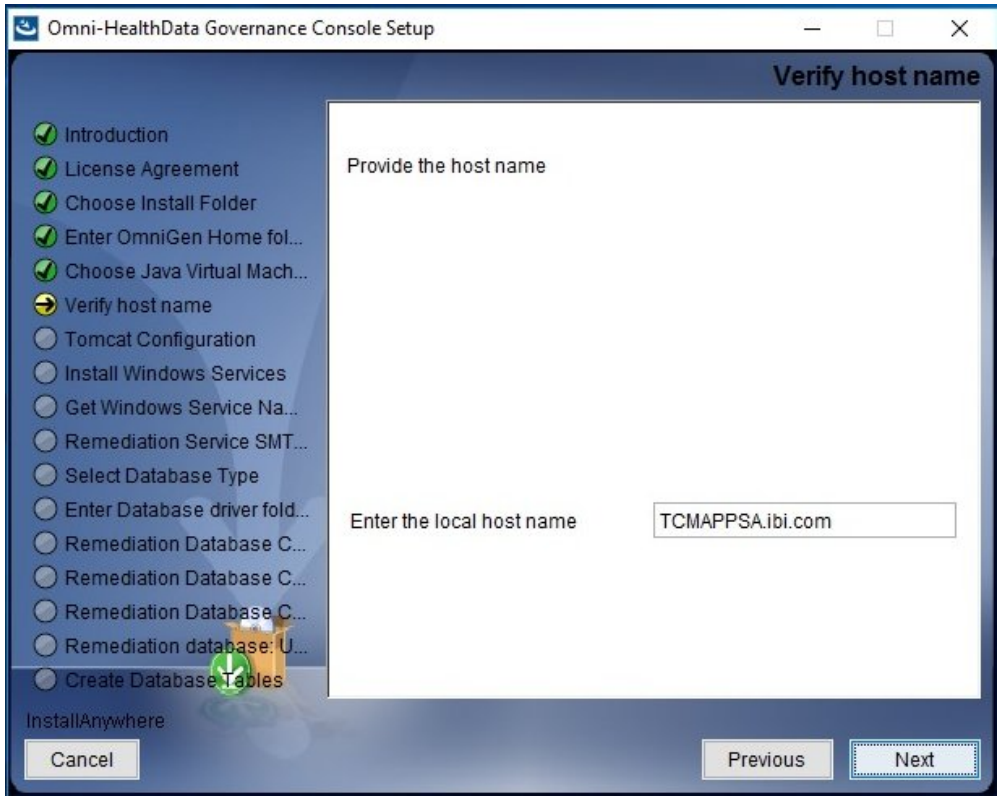
7. In the *Please choose a folder* field, enter (or browse to) the location you specified for the *omnigen* home folder, and then click *Next*.

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



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

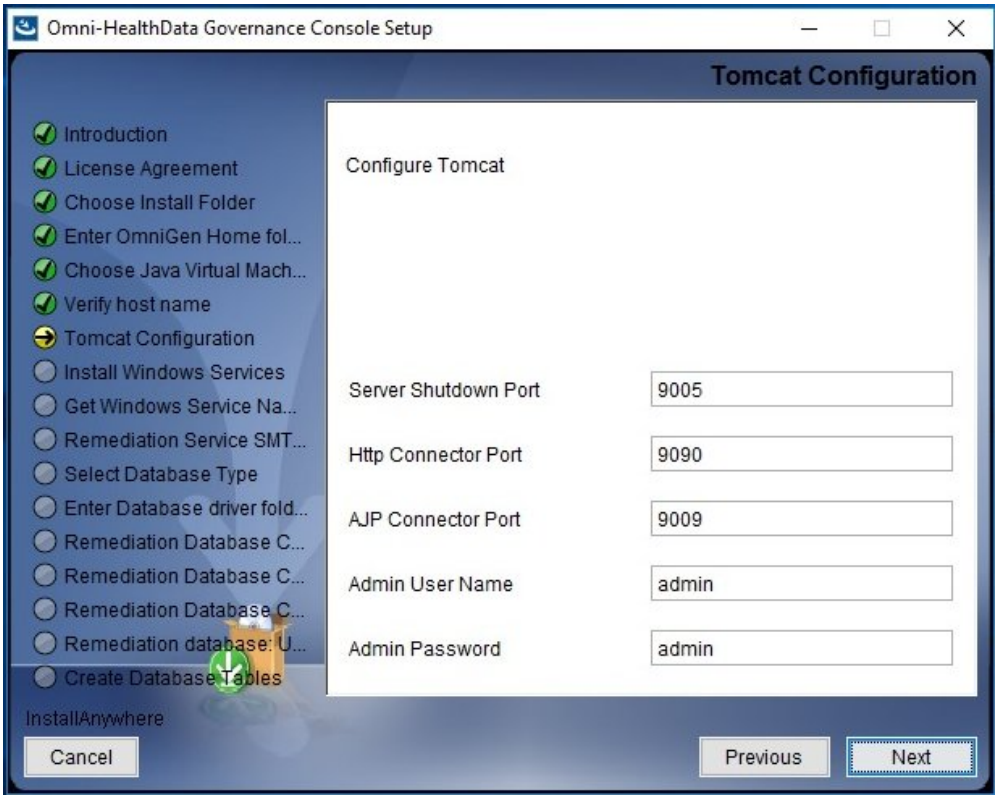
The Verify host name pane opens, as shown in the following image.



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

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

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

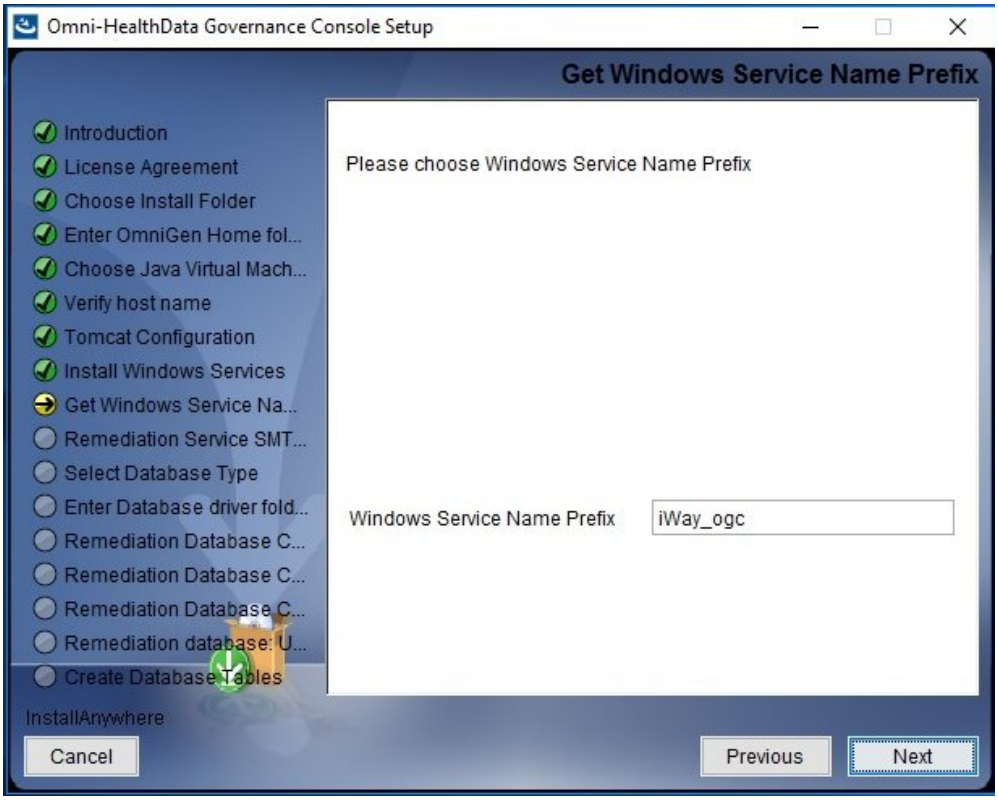


10. Verify the port values that are indicated by default and modify accordingly if required.
11. Click *Next*.

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

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

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

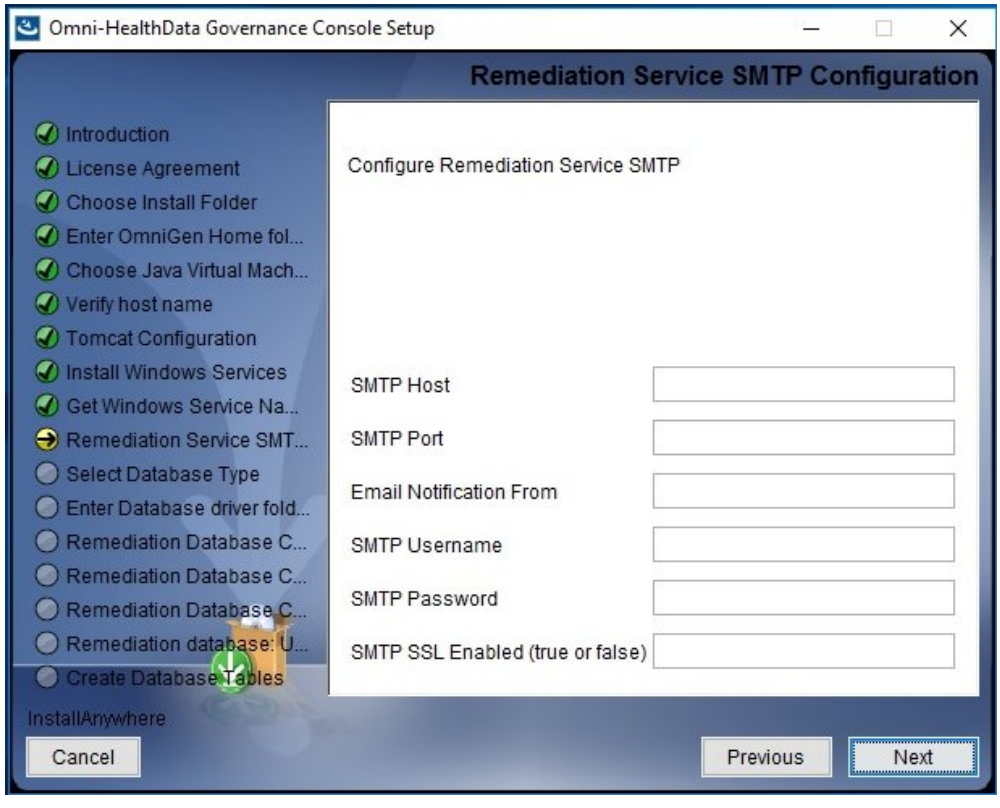


If you selected to install WSO2 and Apache Tomcat components as Windows services, then by default, *iWay_ogc* is the prefix that will be used. You can specify a different prefix as required.

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.

14. Click *Next*.

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



15. Leave the parameter values blank unless you want to configure SMTP for your remediation service, and then click *Next*.
16. 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.

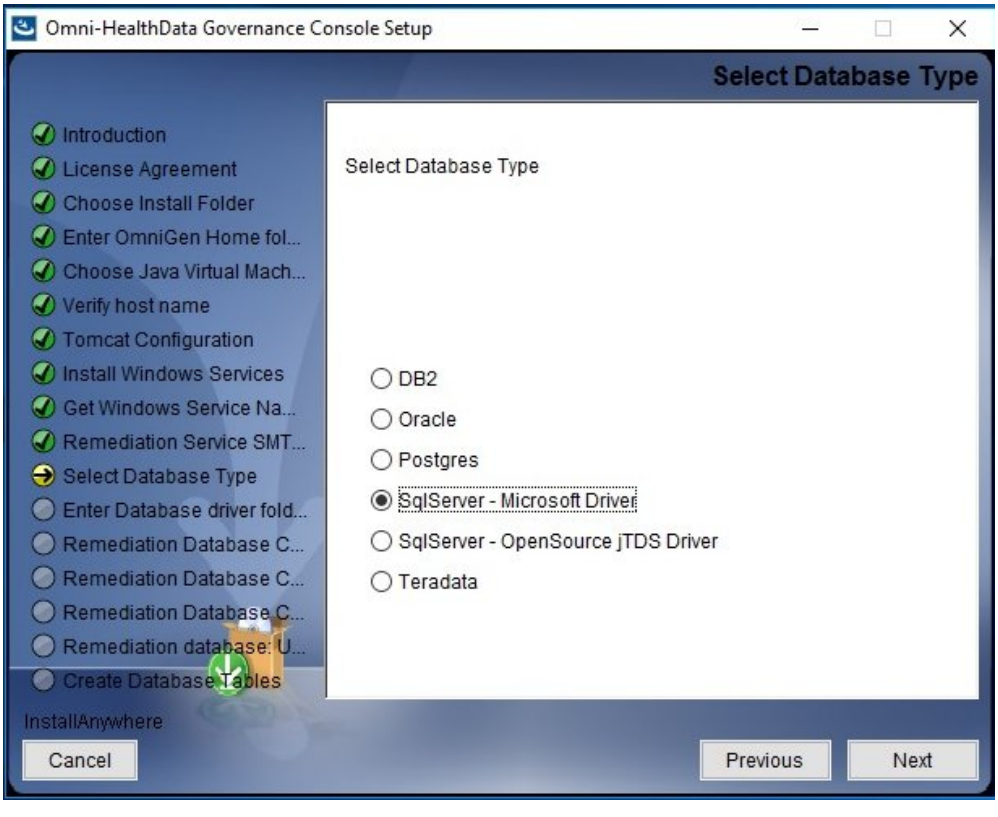
- **SMTP SSL Enabled (true or false).** Specify *true* if your email server supports or requires SSL authentication.

In addition, each user who will receive email notifications must have a valid email address in their WSO2 Identity Server (WSO2 IS) user profile.

- Each LDAP user with the *Data Steward* or *Data Supervisor* role, and who will receive Assignment e-mails, must have a valid e-mail address in their Active Directory profile. When it makes the LDAP connection, WSO2 IS will bring back those email addresses to its *Local User Store* profile of the user.
- Each hardcoded user in the WSO2 IS *Primary* domain must have an email in their WSO2 IS user profile.

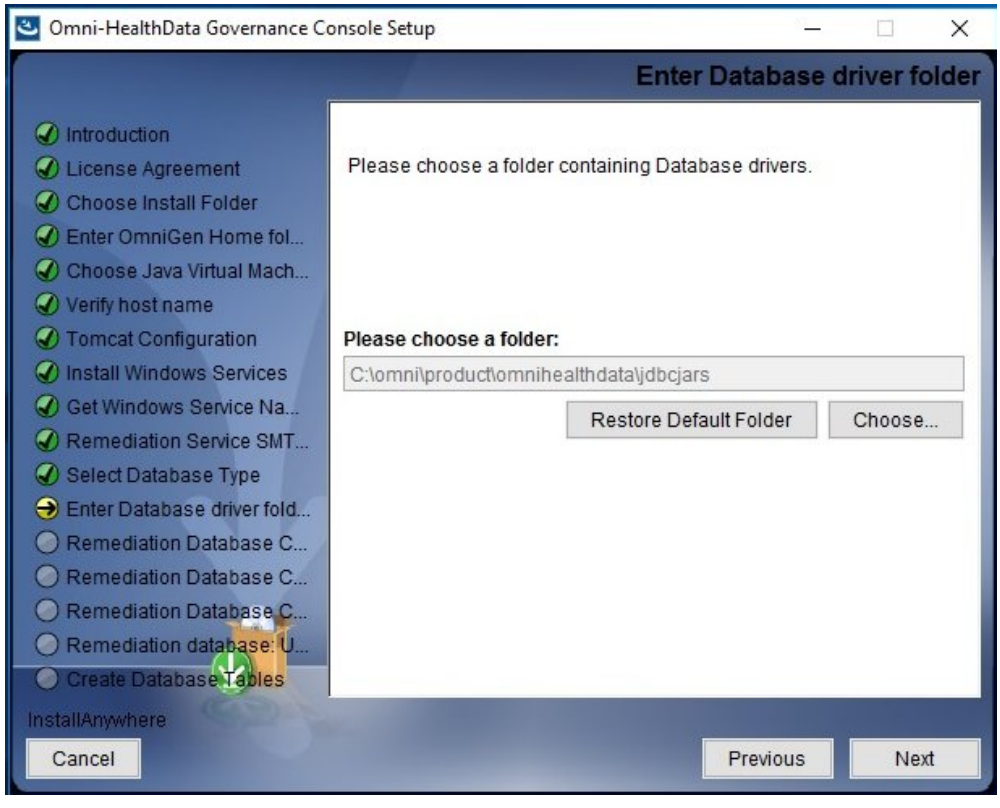
17. Click *Next* to continue.

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



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

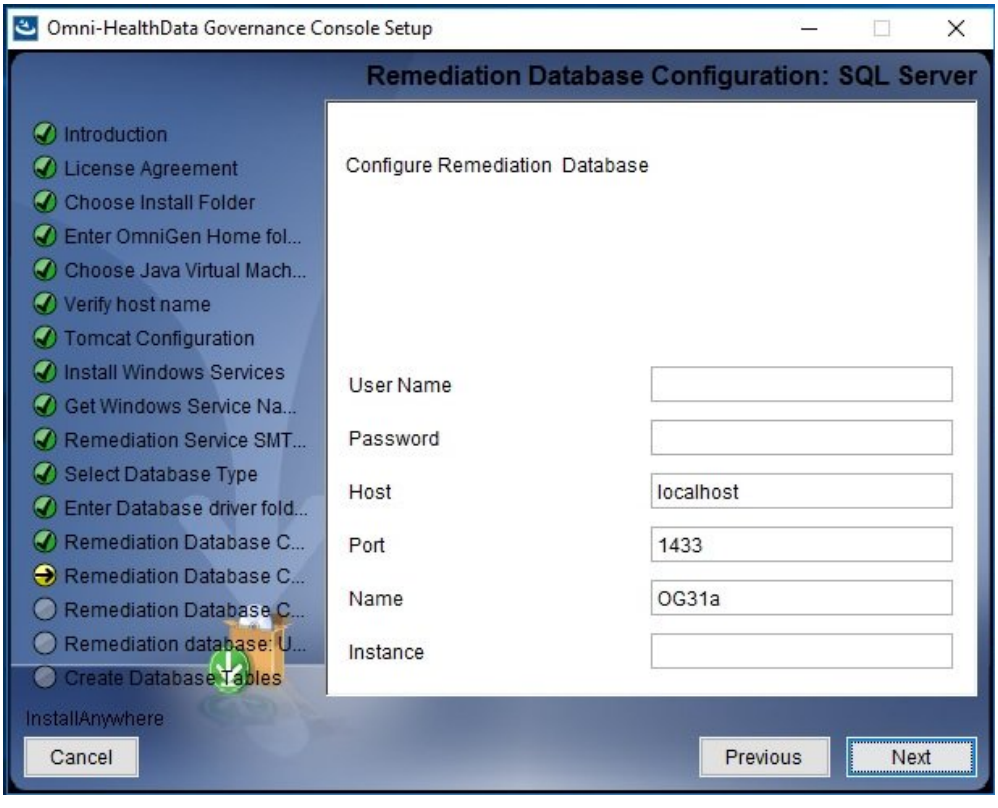
The Enter Database driver folder pane opens, as shown in the following image.



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

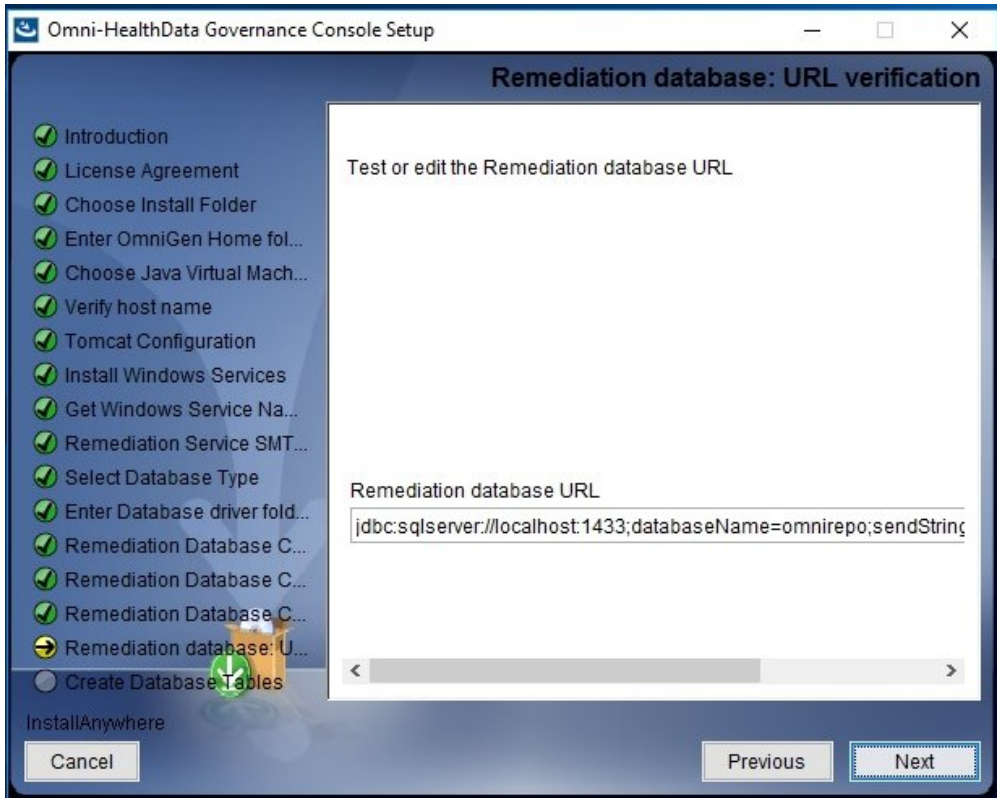
    For more information on the location of your JDBC .jar file(s), see *Creating Install Directories* on page 15.

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



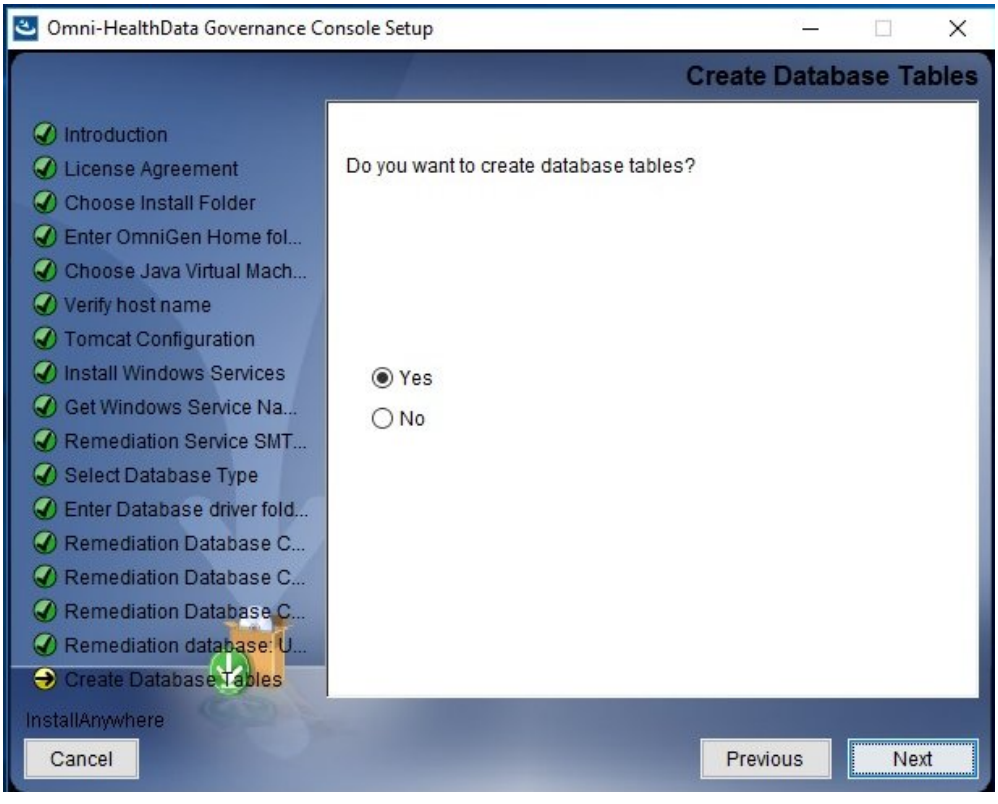
20. Review the information to ensure that it matches the corresponding entry in the *og_configuration.properties* file, and then click *Next* to continue.

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



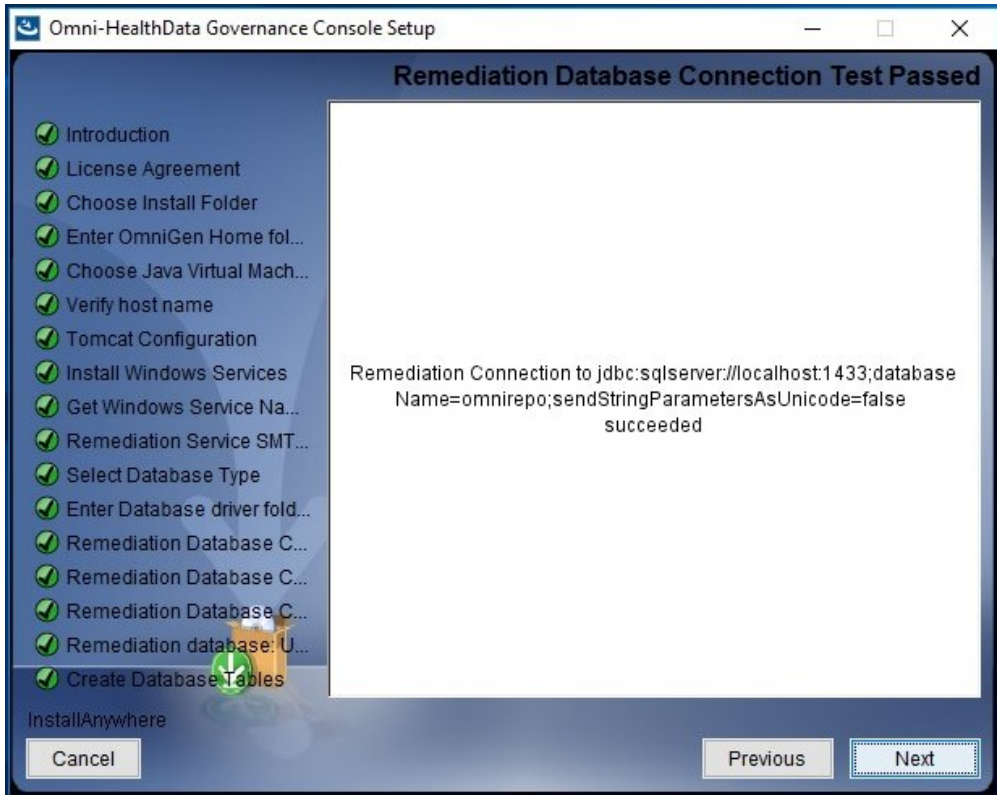
21. Specify the remediation database URL string that matches the corresponding entry in the *og_configuration.properties* file, and then click *Next*.

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



22. Select *Yes* to create the Remediation database tables, and then click *Next*.

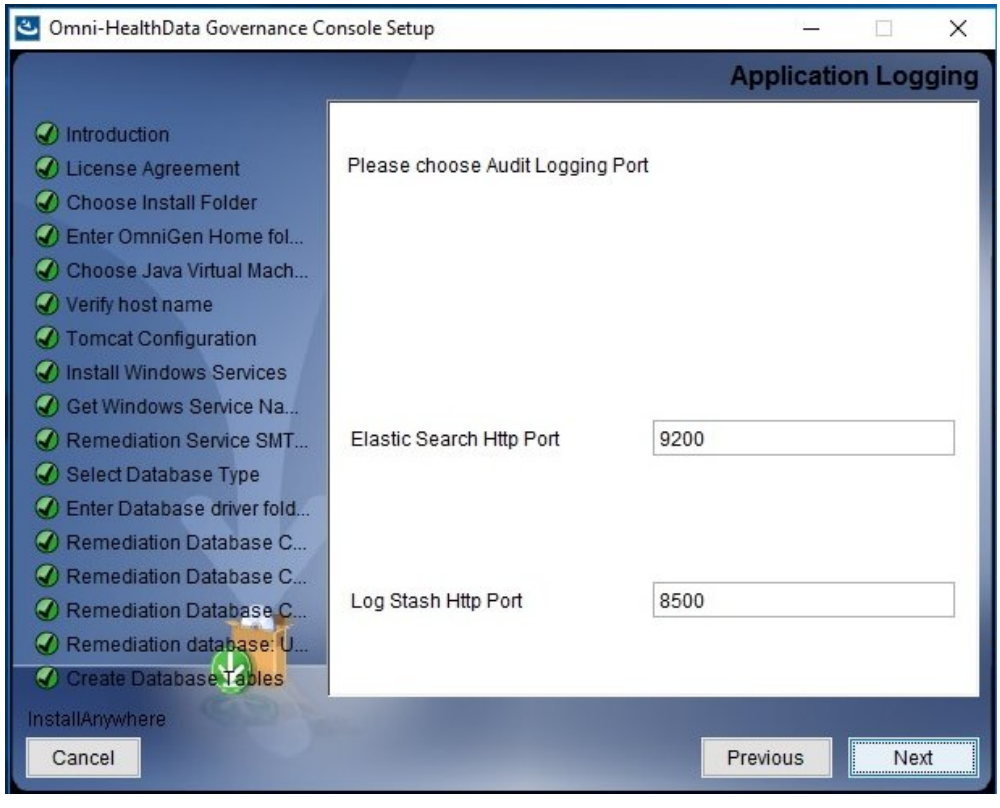
If the database URL string that you specified is correct and your database is available, the Remediation Database Connection Test Passed pane opens, as shown in the following image.



23. Click *Next* to continue.

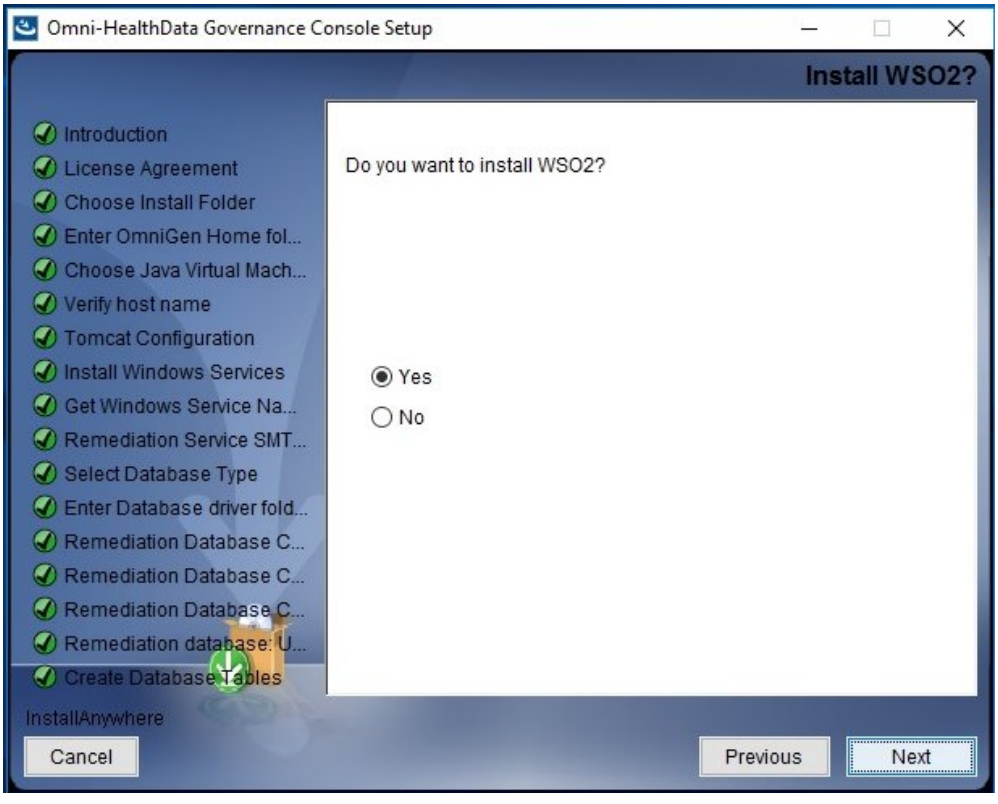
The Install User Audit Logging pane opens, as shown in the following image.

24. If you select *Yes* and click *Next*, you must specify port values for Elasticsearch and Logstash in the Application Logging pane, as shown in the following image.



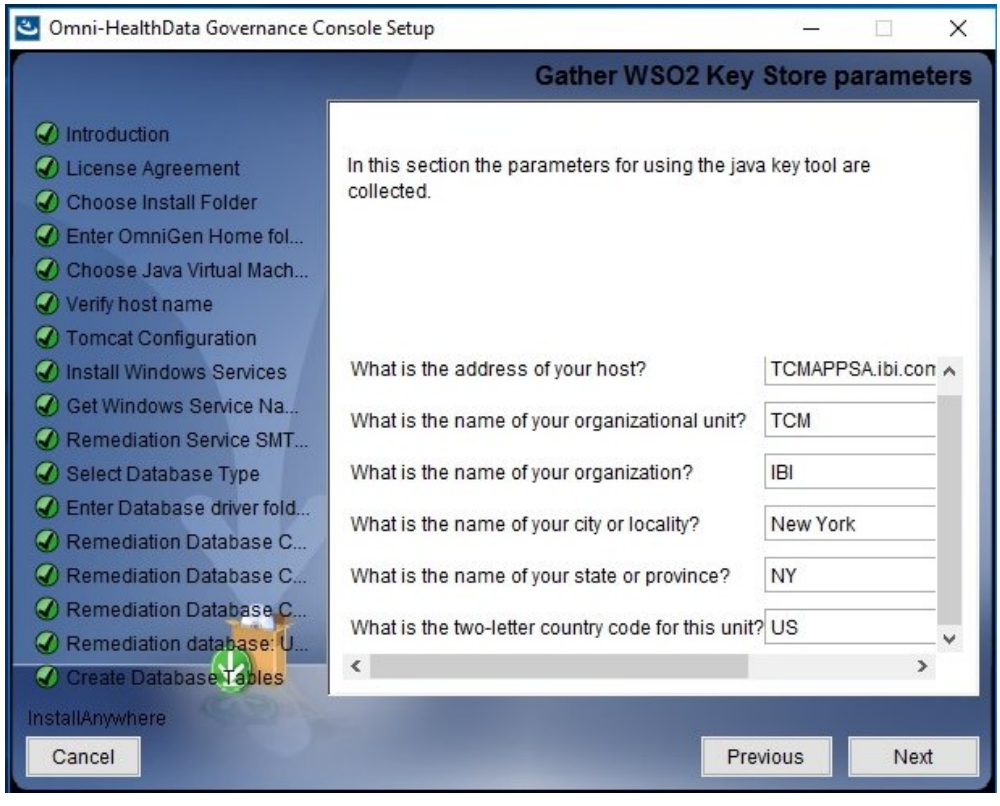
25. Click *Next* to continue.

The Install WSO2 pane opens, as shown in the following image.



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

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

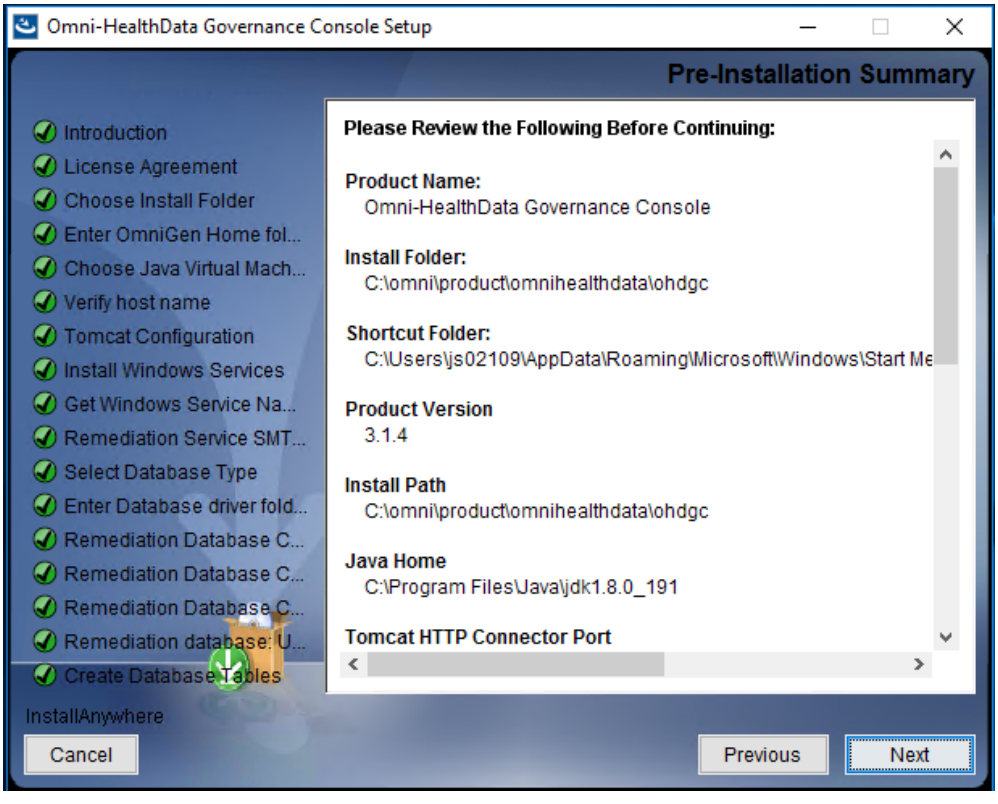


27. Collect the parameters to generate the certificate for WSO2 IS.

    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.

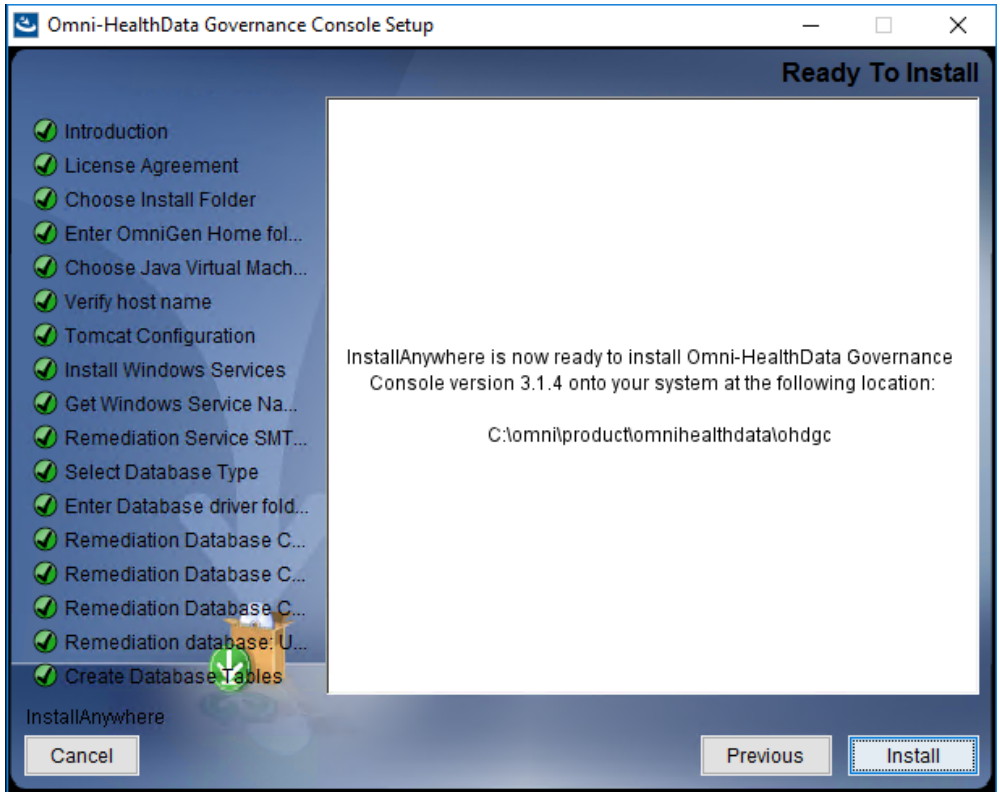
28. Click *Next* to continue.

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



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

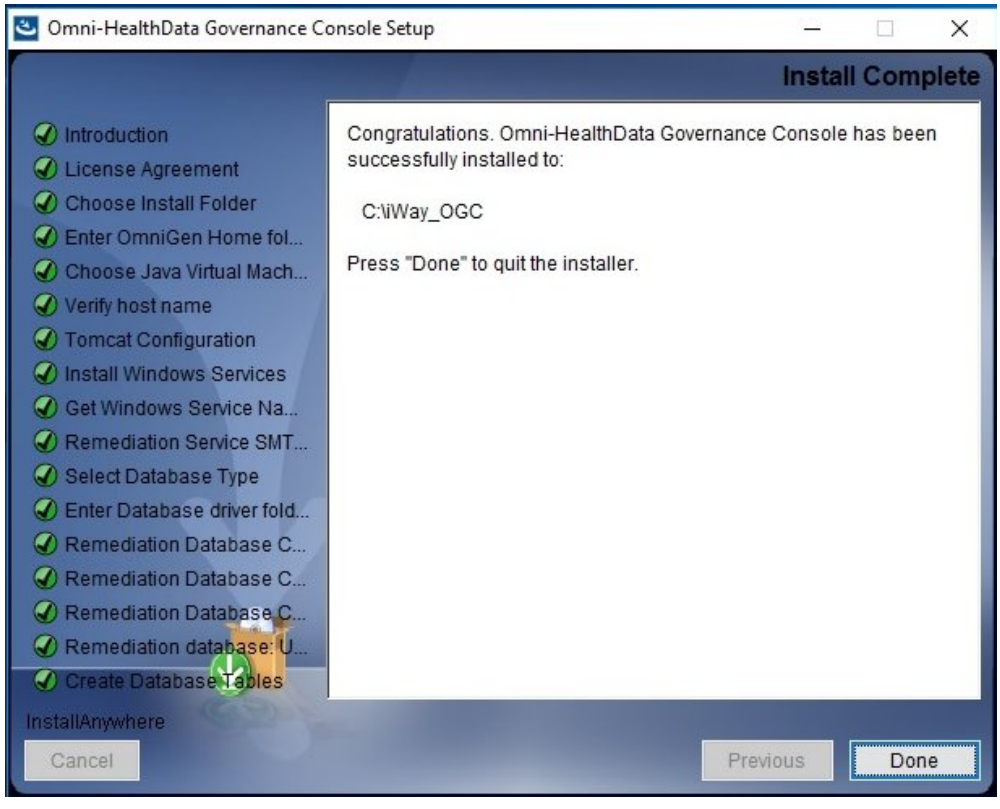
The Ready To Install pane opens, indicating that the configuration for installation is complete, as shown in the following image.



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

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.



31. Click *Done*.
32. Navigate to the *omnigen* home directory.

    For example:

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

33. Navigate to the *omniserver* directory.

    For example:

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

34. Open a command prompt window and type the following command:

    ```
    omni start-controller
    ```

35. Press *Enter*.

    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.

36. When the startup process has completed, proceed to *Starting the Omni Server and Omni-HealthData Governance Console* on page 85.

Chapter 3

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

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

In this chapter:

Creating Install Directories

This section describes how to create install directories for Omni-HealthData.

Procedure: How to Create Install Directories

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 base install directory that is recommended:

   `/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
omnihealthdata	The folder under which the Omni-HealthData binary package will be unzipped.

Subfolder	Description
omnihealthdata/properties	An externalized folder from the *omnigen* home directory that holds any necessary properties files required for Omni-Health Data.
omnihealthdata/jdbcjars	An externalized folder from the *omnigen* home directory that holds all necessary JDBC .jar files required for Omni-Health Data.

3. Copy the JDBC .jar file (as indicated in step 3 under *Installation Prerequisites* in *Chapter 1, Overview and Prerequisites*), to the /jdbcjars subfolder created above.
4. Verify that the *JAVA HOME* environment variable (for Java Development Kit version 8) is defined properly and that *%JAVA HOME%/bin* is the first element in your PATH.

Installing Omni Server

This section describes how to install Omni server.

Procedure: How to Install Omni Server

1. Download the latest binary package (*ohdbinarypackage*bin.tar*) from the Information Builders Technical Support Center at *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 created *omnigen* home directory.

   For example:

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

4. Navigate to the *sample_configuration* directory and copy the *og_configurations.properties* file to the */data/omni/product/omnihealthdata/properties* subdirectory indicated above.
5. Modify the *og_configuration.properties* file, as described in *Modifying the og_configuration.properties File* on page 81.
6. Navigate back to the *omnigen* home directory.

7. Run the following configuration command:

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

Installing Omni-HealthData Governance Console

This section describes how to install Omni-HealthData Governance Console (OHDGC).

Procedure: How to Install Omni-HealthData Governance Console

1. Navigate to the *omnigen* home directory.

   For example:

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

2. Navigate to the *omnihealthdatagc* directory.

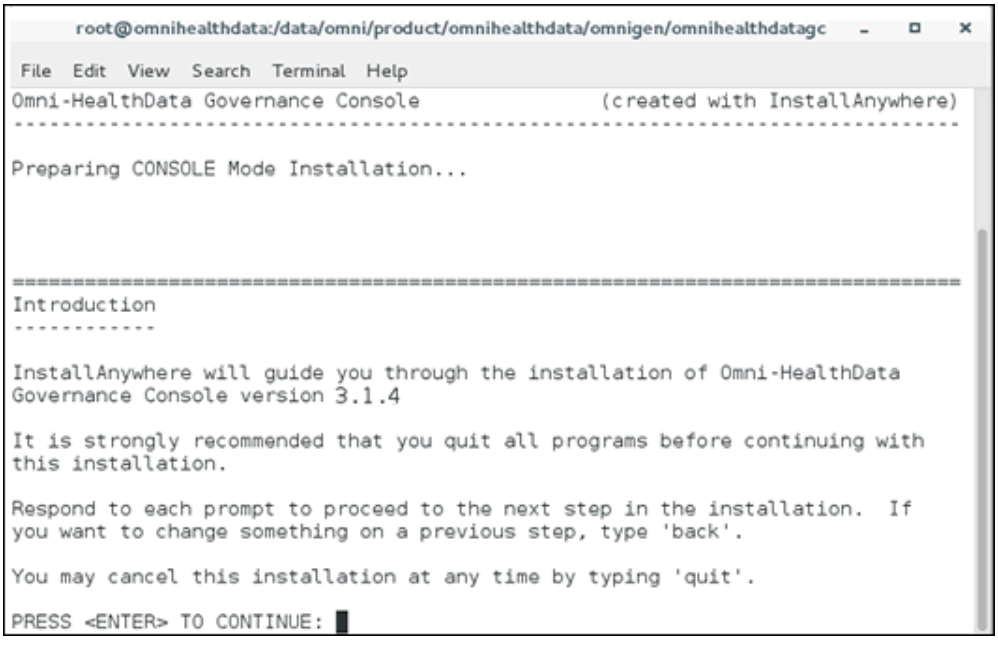
   For example:

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

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

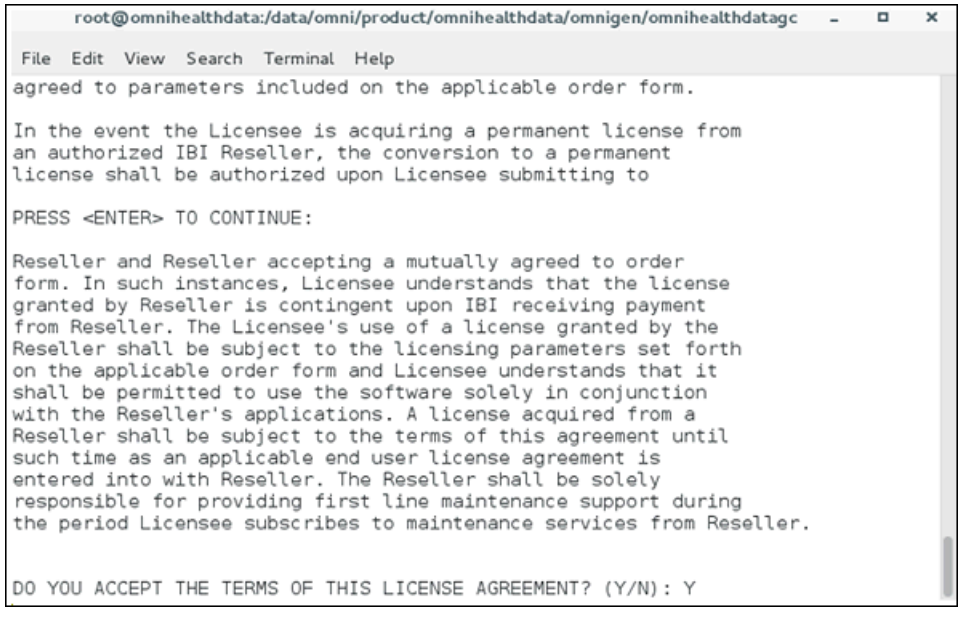
   ```
   ./OHDGCInstallerLinux*.bin
   ```

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



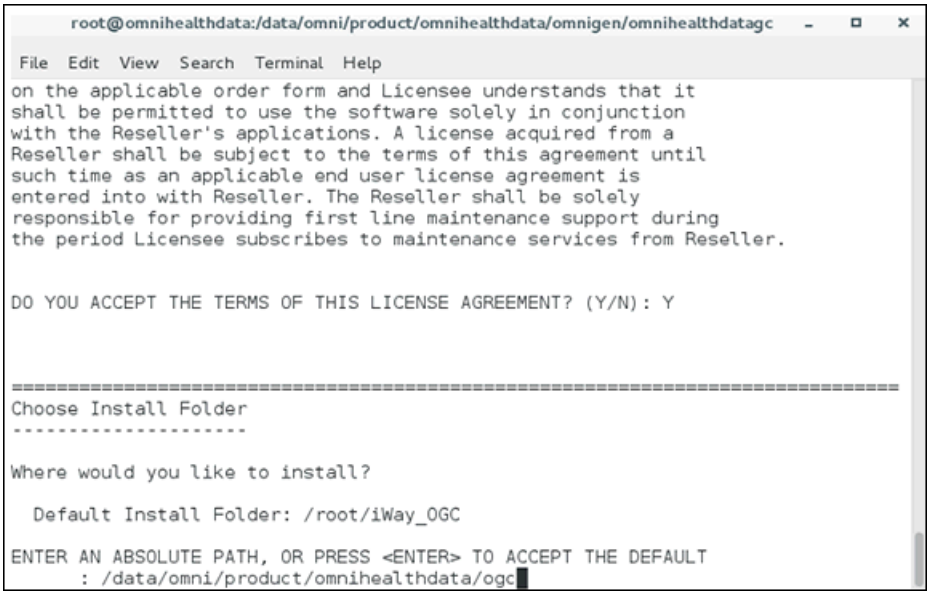
4. Press *Enter* to continue.

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



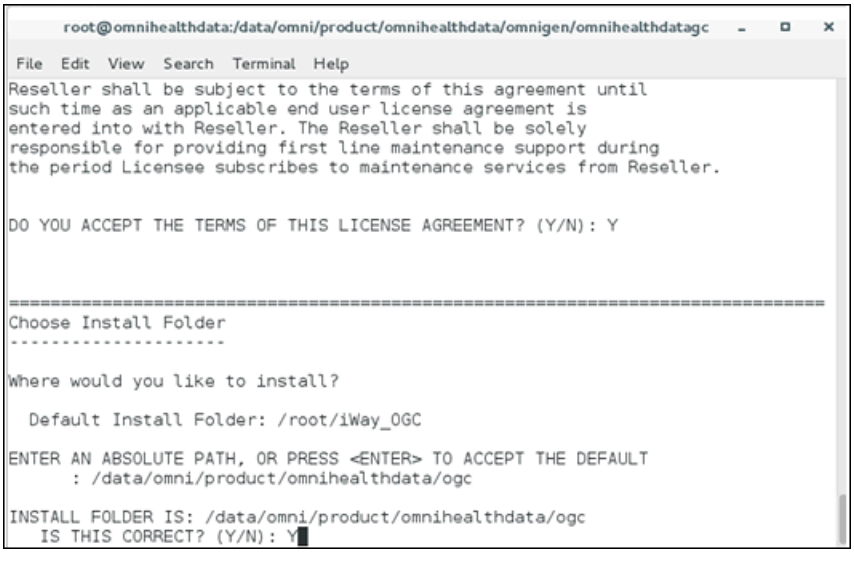
5. Read the terms of the license agreement and continue to press *Enter* until you reach the last section of the license agreement.
6. Enter *Y* to accept the terms of the license agreement and then and press *Enter* to continue.

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



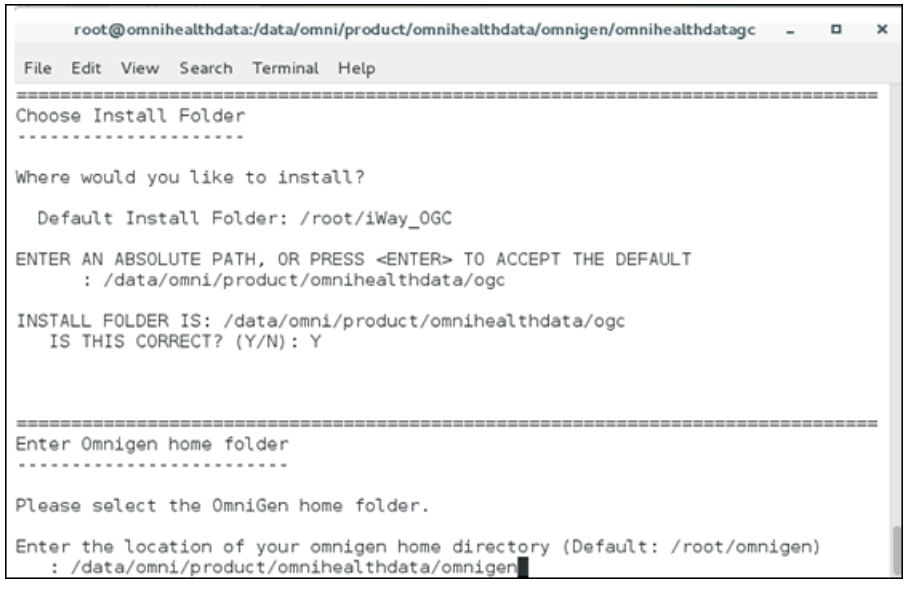
7. Enter the desired installation location (for example, */data/omni/product/omnihealthdata/ohdgc*), and then press *Enter* to continue.

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



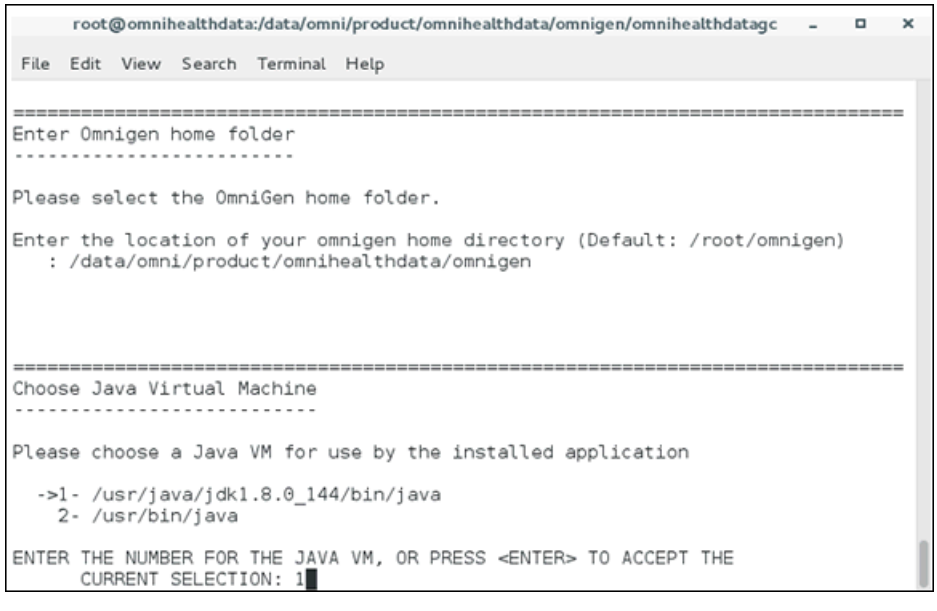
8. Select *Y* to confirm and then press *Enter* to continue.

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



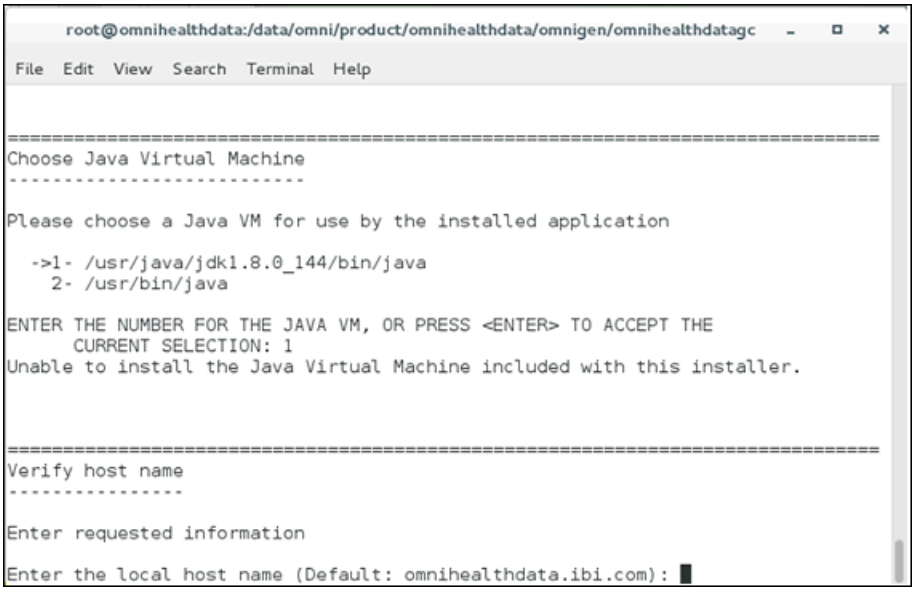
9. Enter the location of your *omnigen* home directory (for example, */data/omni/product/omnihealthdata/omnigen*), and then press *Enter* to continue.

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



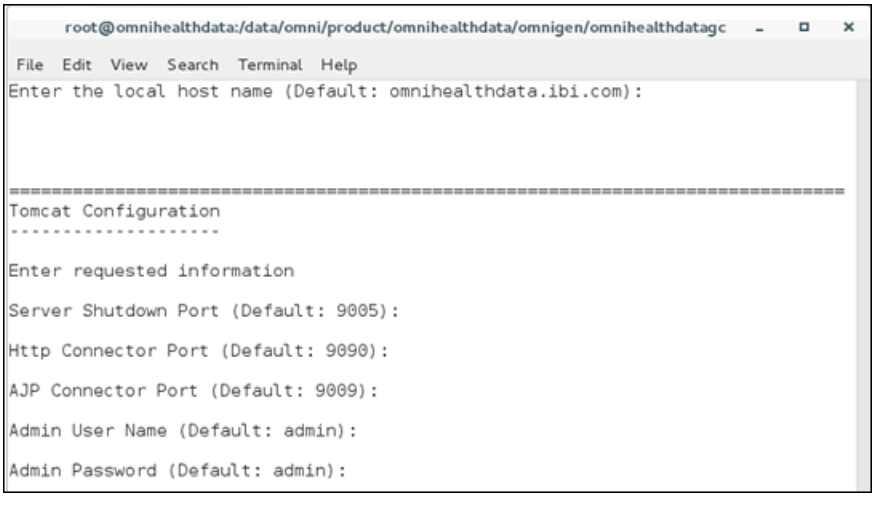
10. Ensure that the Java version located is version 1.8 or higher, and then press *Enter* to continue.

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



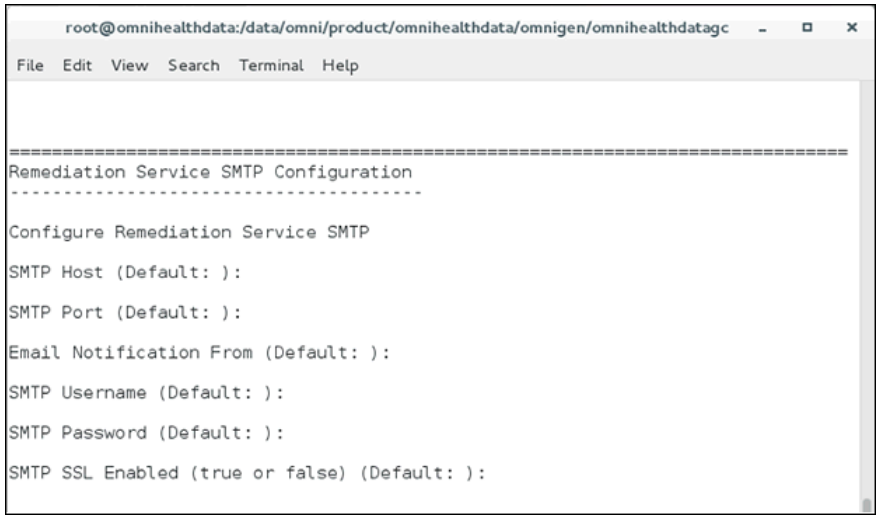
11. Change the local host name or accept the default value specified in the *og_configuration.properties* file, and then press *Enter* to continue.

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



12. Verify the default ports, user name, and password, or modify the parameters accordingly. 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.

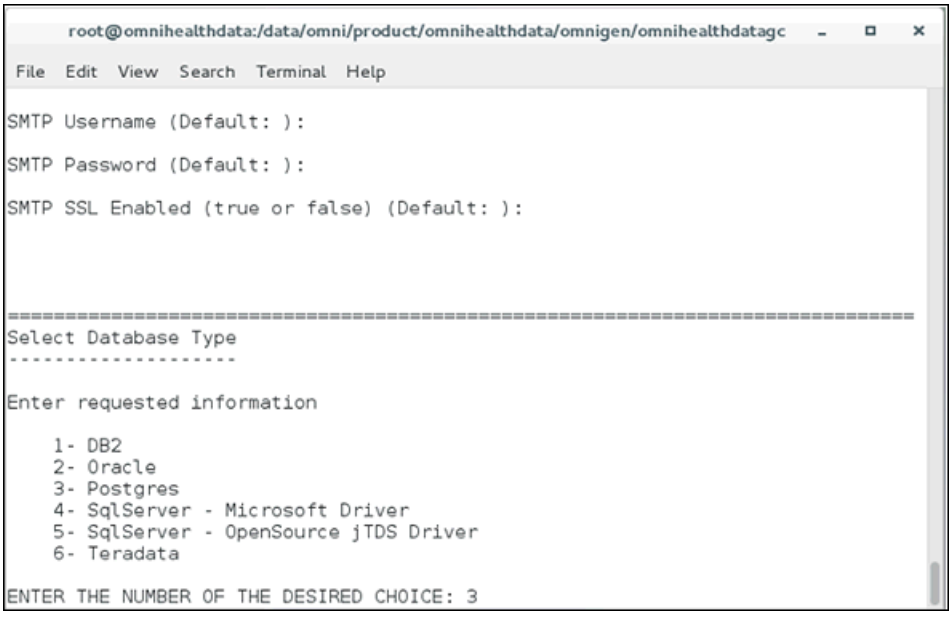
    b. Press *Enter* to continue.

In addition, each user who will receive email notifications must have a valid email address in their WSO2 Identity Server (WSO2 IS) user profile.

- Each LDAP user with the *Data Steward* or *Data Supervisor* role, and who will receive Assignment e-mails, must have a valid e-mail address in their Active Directory profile. When it makes the LDAP connection, WSO2 IS will bring back those email addresses to its *Local User Store* profile of the user.
- Each hardcoded user in the WSO2 IS *Primary* domain must have an email in their WSO2 IS user profile.

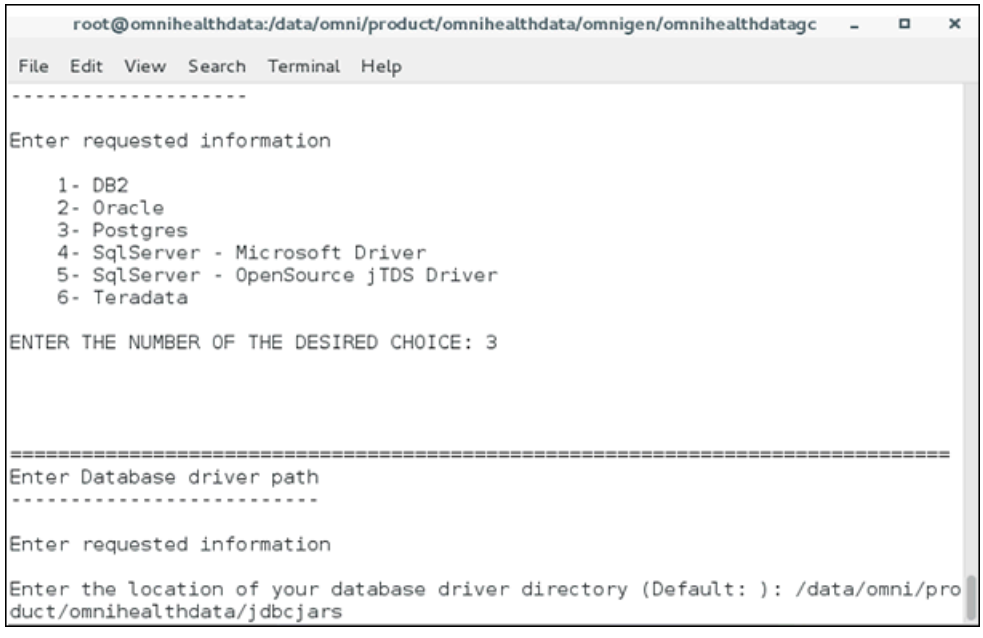
14. Press *Enter* to continue.

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



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

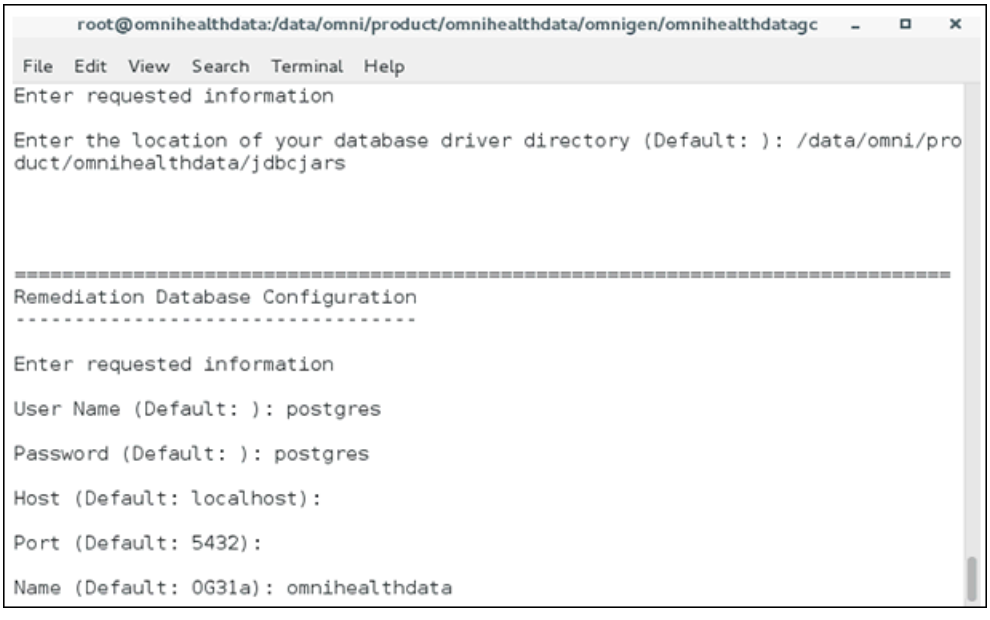
The Enter Database driver path pane opens, as shown in the following image.



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

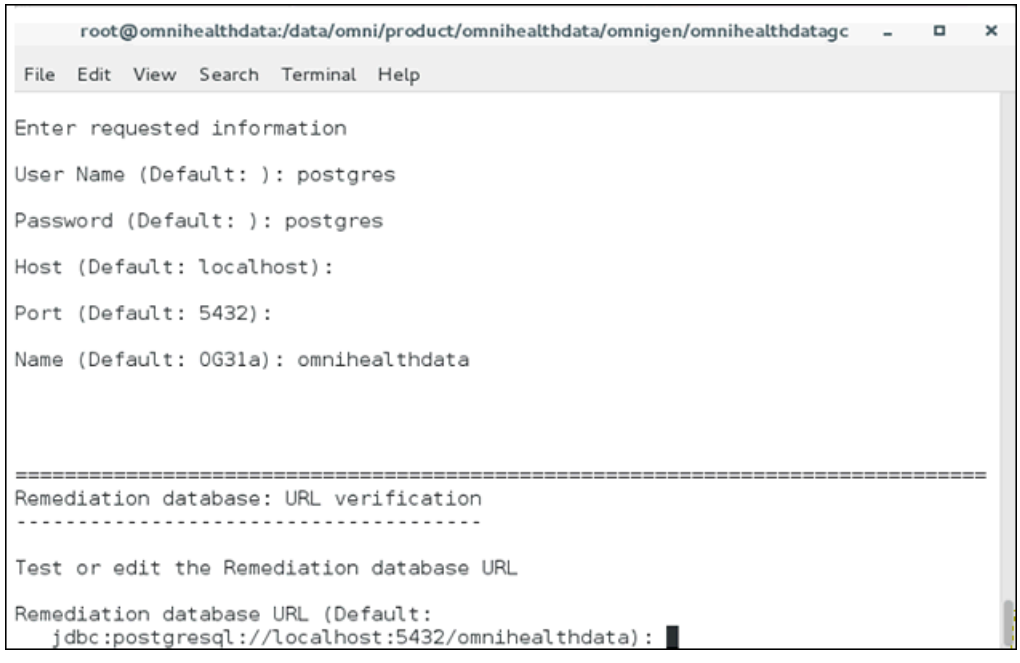
    For more information on the location of your JDBC .jar files, see *Creating Install Directories* on page 43.

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



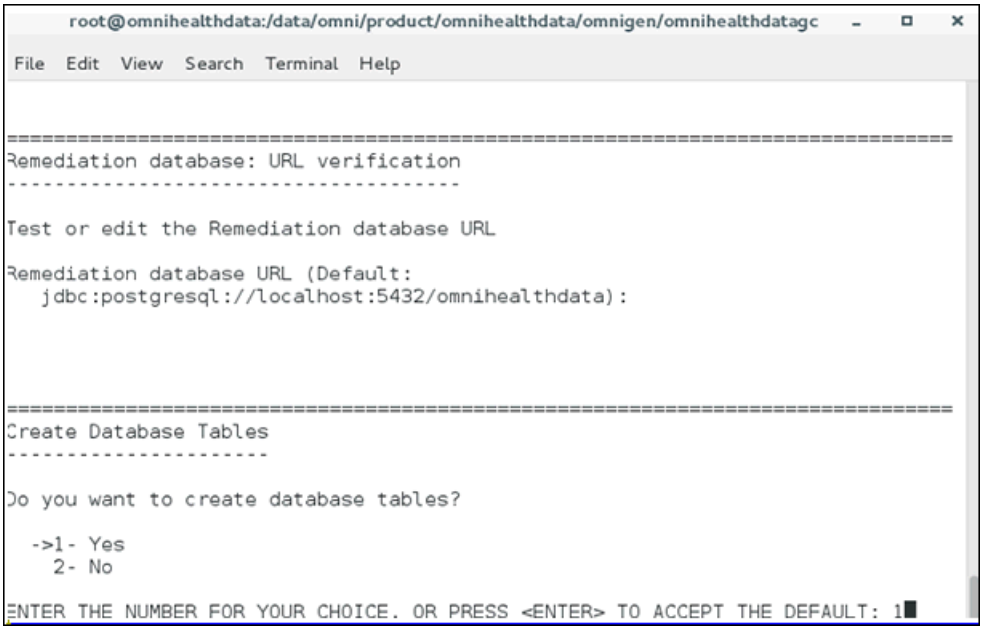
17. Review the information to ensure it matches the corresponding *ogs.db.** entries in the *og_configration.properties* file, and then press *Enter* to continue.

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



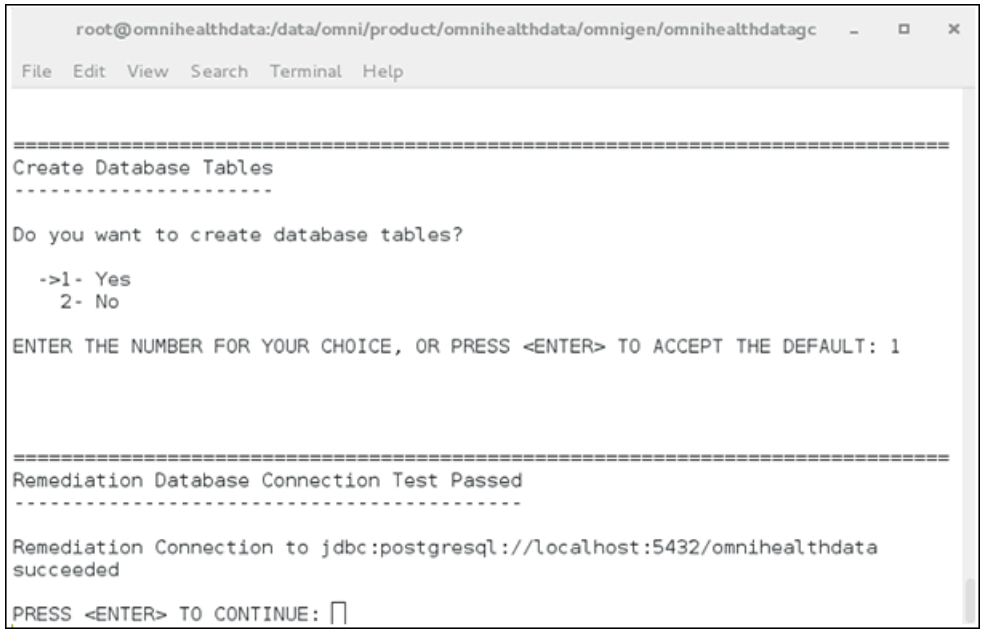
18. Ensure that the Remediation database URL string matches the corresponding entry in the *og_configration.properties* file.
19. Press *Enter* to continue.

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



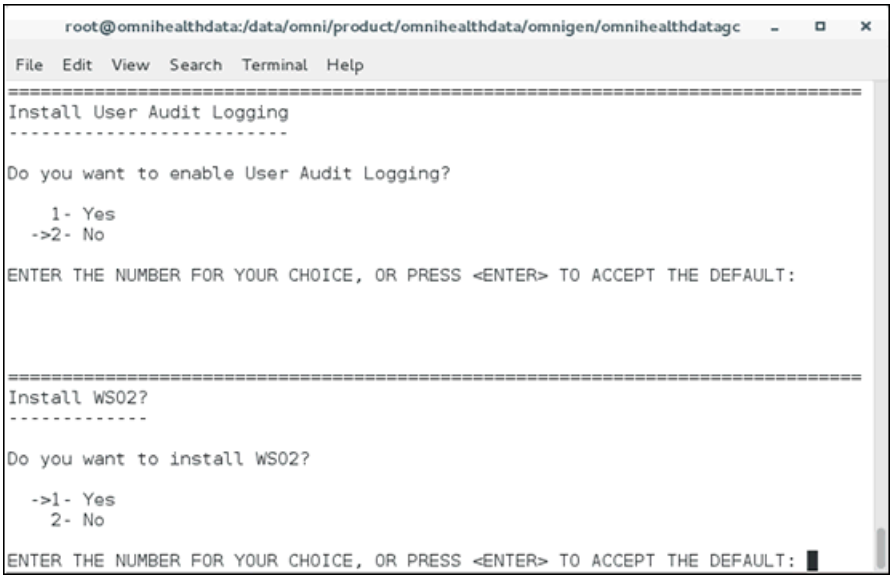
20. Specify *Yes* to create the tables for the Remediation database, and then press *Enter* to continue.

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



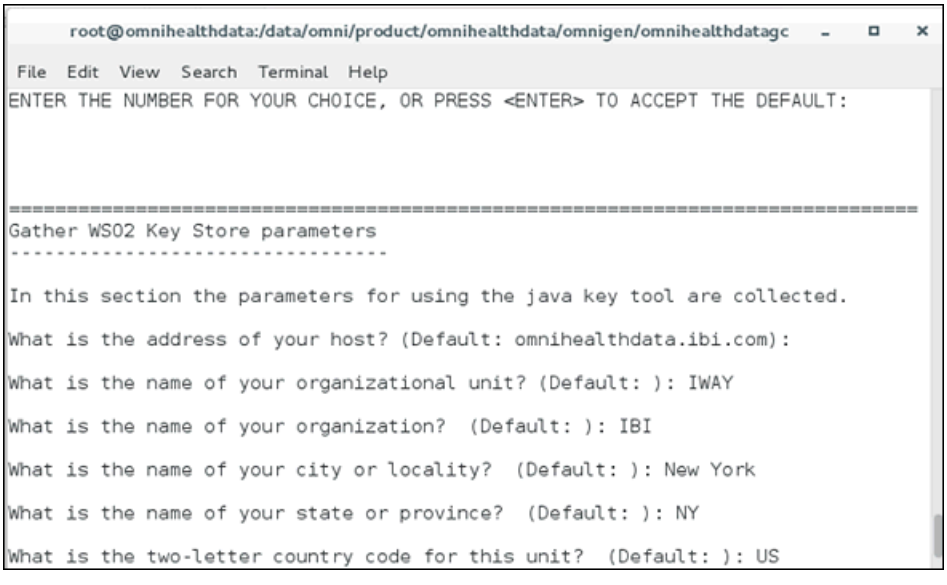
21. Press *Enter* to continue.

The Install User Audit Logging and Install WSO2 pane opens, as shown in the following image.



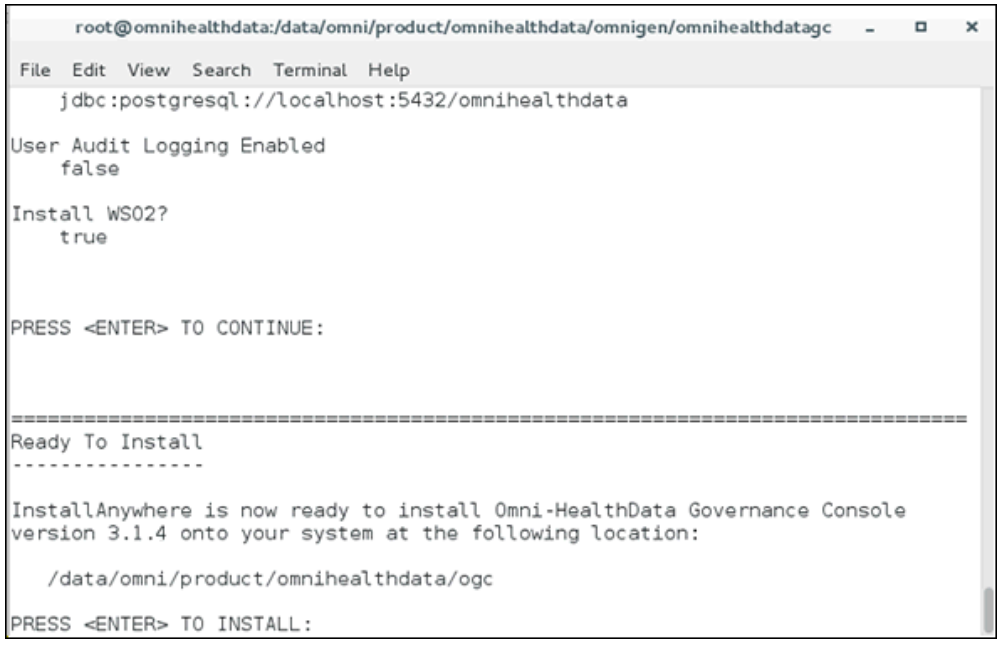
22. Specify *2 - No* where prompted to install User Audit Logging, *1 - Yes* where prompted to install WSO2, and then press *Enter* to continue.

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



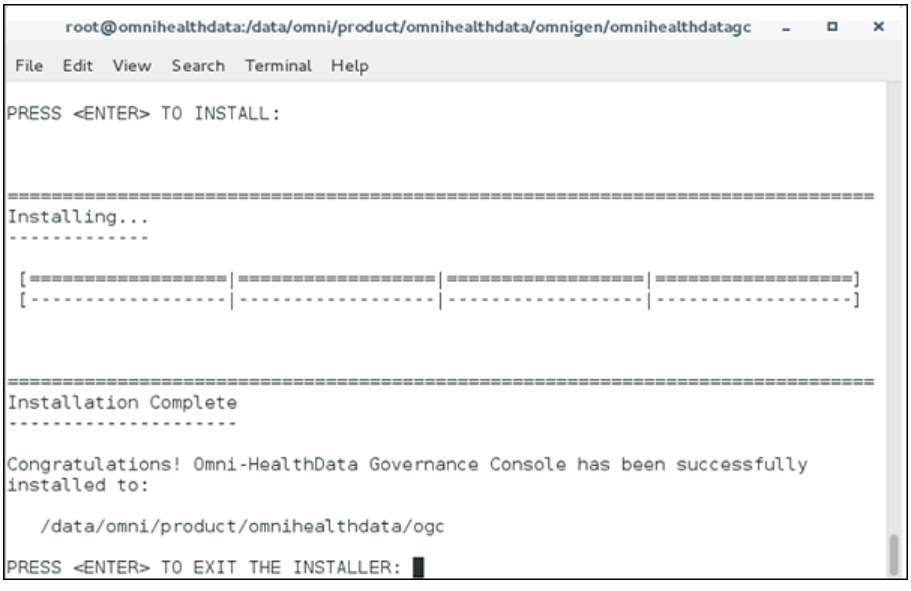
23. Verify the default for the address of the host, populate appropriate entries for the other prompts, and then press *Enter* to continue.

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



24. 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.



25. Press *Enter* to exit the OHDGC installer.
26. Navigate to the *omnigen* home directory that is created.

    For example:

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

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

    For example:

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

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

    ```
    ./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.

29. Press *Enter*.
30. When the startup process has completed, proceed to *Starting the Omni Server and Omni-HealthData Governance Console* on page 85.

Chapter 4

Installing Omni Server and Omni-HealthData Governance Console on IBM AIX Platforms With Db2

This chapter describes how to install the primary components of Omni-HealthData on IBM AIX platforms with Db2.

In this chapter:

Creating Install Directories

This section describes how to create install directories for Omni-HealthData.

Procedure: How to Create Install Directories

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 base install directory that is recommended:

   ```
   /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
omnihealthdata	The folder under which the Omni-HealthData binary package will be unzipped.

Subfolder	Description
omnihealthdata/properties	An externalized folder from the *omnigen* home directory that holds any necessary properties files required for Omni-Health Data.
omnihealthdata/jdbcjars	An externalized folder from the *omnigen* home directory that holds all necessary JDBC .jar files required for Omni-Health Data.

3. Copy the JDBC .jar file (as indicated in step 3 under *Installation Prerequisites* in *Chapter 1, Overview and Prerequisites*), to the /jdbcjars subfolder created above.
4. Verify that the *JAVA HOME* environment variable (for Java Development Kit version 8) is defined properly and that *%JAVA HOME%/bin* is the first element in your PATH.

Installing Omni Server

This section describes how to install Omni server.

Procedure: How to Install Omni Server

1. Download the latest binary package (*ohdbinarypackage*bin.tar*) from the Information Builders Technical Support Center at *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 created *omnigen* home directory.

   For example:

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

4. Navigate to the *sample_configuration* directory and copy the *og_configurations.properties* file to the */data/omni/product/omnihealthdata/properties* subdirectory indicated above.

5. Modify the *og_configuration.properties* file, as described in *Modifying the og_configuration.properties File* on page 81 and update the following additional tuning steps that are required:

   a. The Db2 JDBC URL should include a *traceLevel=0* option during the configuration. For example:

      ```
      ogs.db.url=jdbc:db2://<host>:<port>/omnihealthdata;tracelevel=0
      ```

   b. Set the following properties in the *og_configuration.properties* file:

      - `cfg.server.commandline.max-memory=2048M` (minimally)
      - `server.runtime.http-protocol=http`

      Since Db2 requires higher memory consumption during the deployment phase, you might encounter an *OutOfMemoryError* exception when resetting the environment or deploying, if the memory is not appropriately increased.

      Please note that while Omni-HealthData ships with HTTPS set by default, only HTTP is supported on AIX platforms.

6. Navigate back to the *omnigen* home directory.
7. Run the following configuration command:

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

8. After the configuration command has completed, navigate back to the omnigen home directory. For example:

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

9. Navigate to the OmniGenData directory, and open the *OmniGenConfiguration.properties* file to verify (or set) the following property to the same value set in the *og_configuration.properties* file:

   ```
   server.commandline.max-memory=2048M
   ```

Installing Omni-HealthData Governance Console

This section describes how to install Omni-HealthData Governance Console (OHDGC).

Procedure: How to Install Omni-HealthData Governance Console

1. Navigate to the *omnigen* home directory.

   For example:

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

2. Navigate to the *omnihealthdatagc* directory.

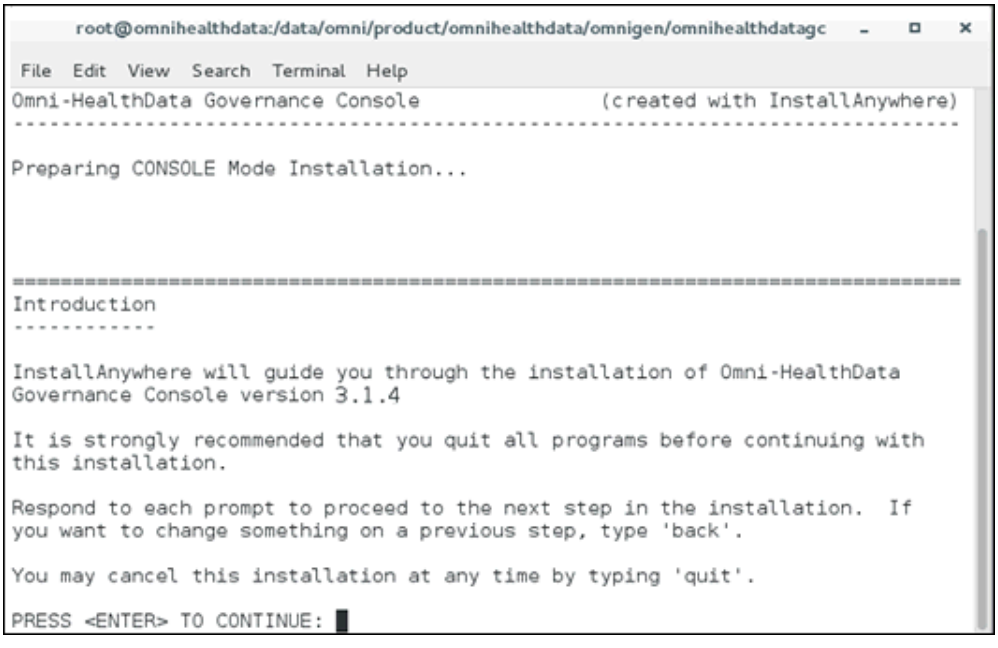
   For example:

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

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

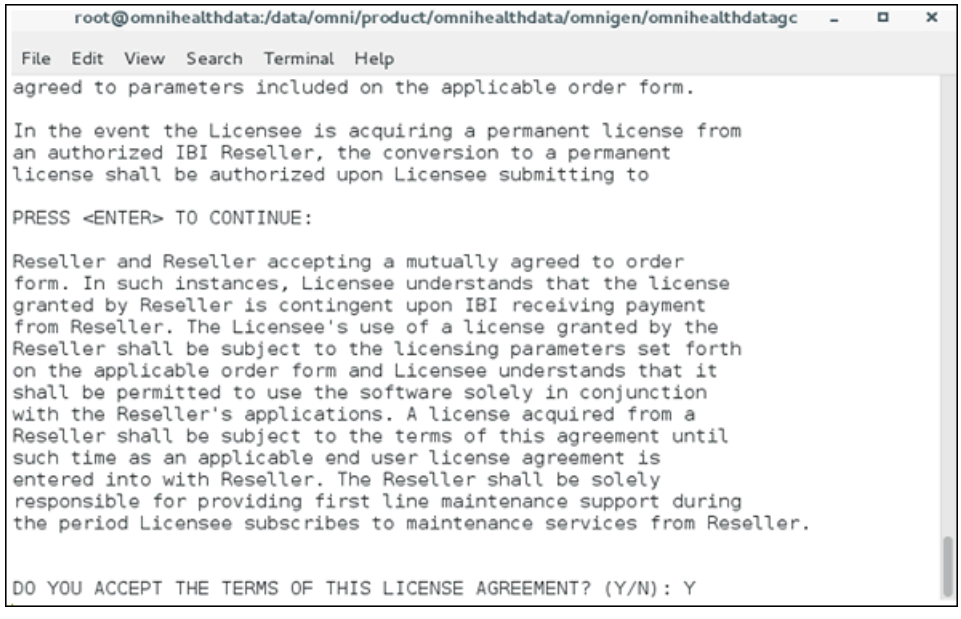
   ```
   ./OHDGCInstallerLinux*.bin
   ```

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



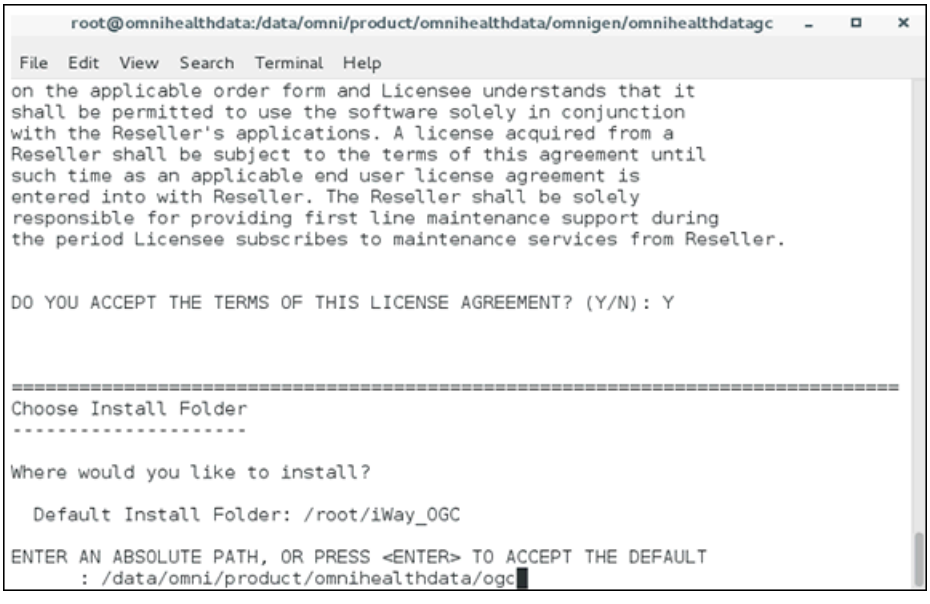
4. Press *Enter* to continue.

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



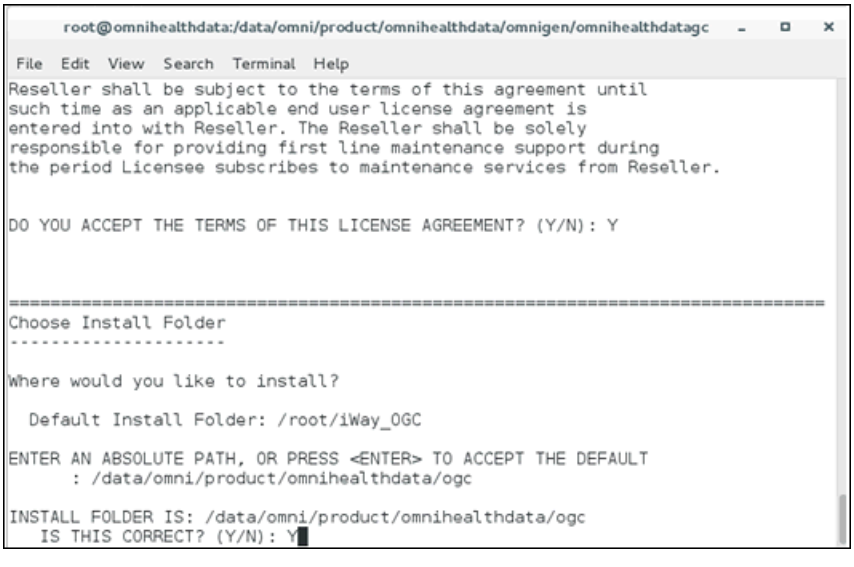
5. Read the terms of the license agreement and continue to press *Enter* until you reach the last section of the license agreement.
6. Enter *Y* to accept the terms of the license agreement and then and press *Enter* to continue.

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



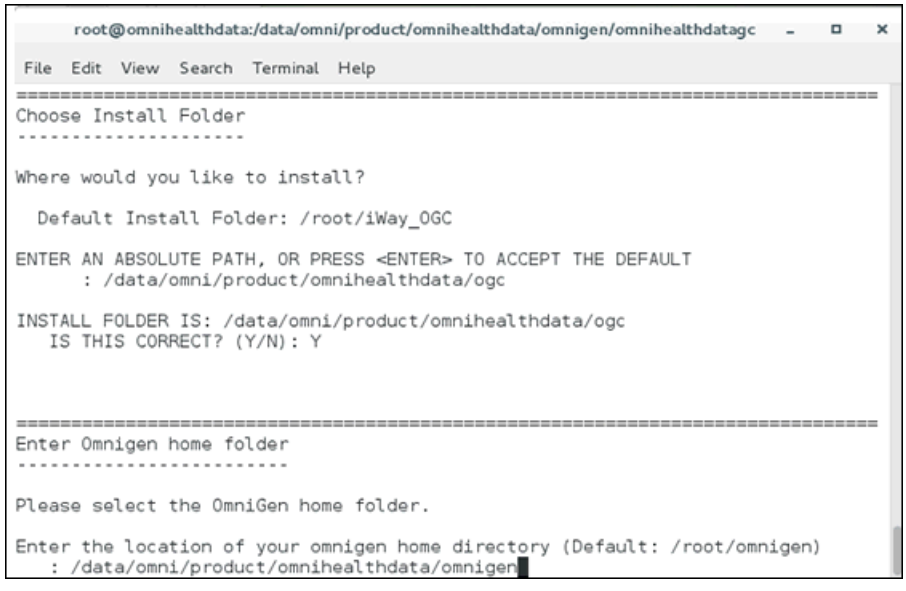
7. Enter the desired installation location (for example, */data/omni/product/omnihealthdata/ohdgc*), and then press *Enter* to continue.

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



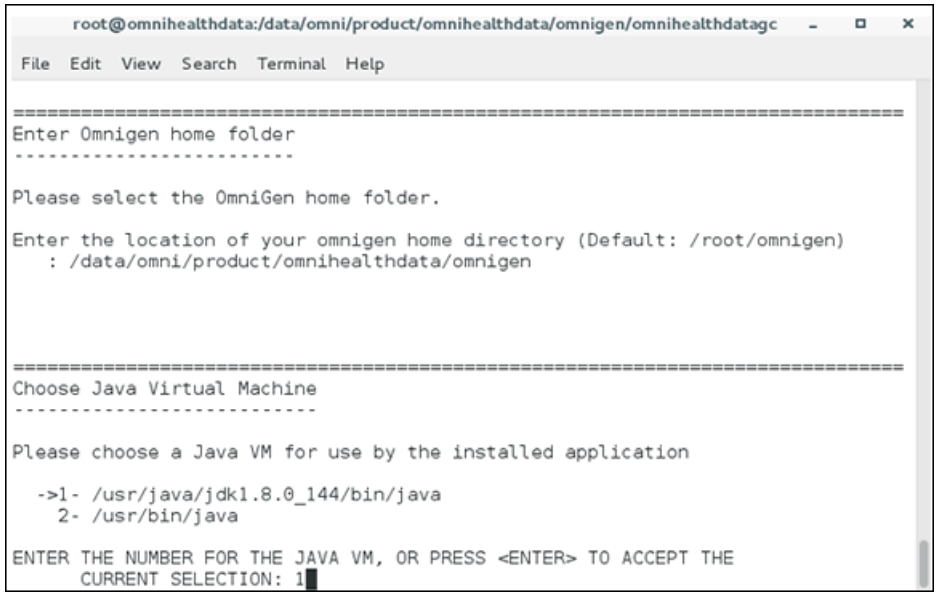
8. Select *Y* to confirm and then press *Enter* to continue.

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



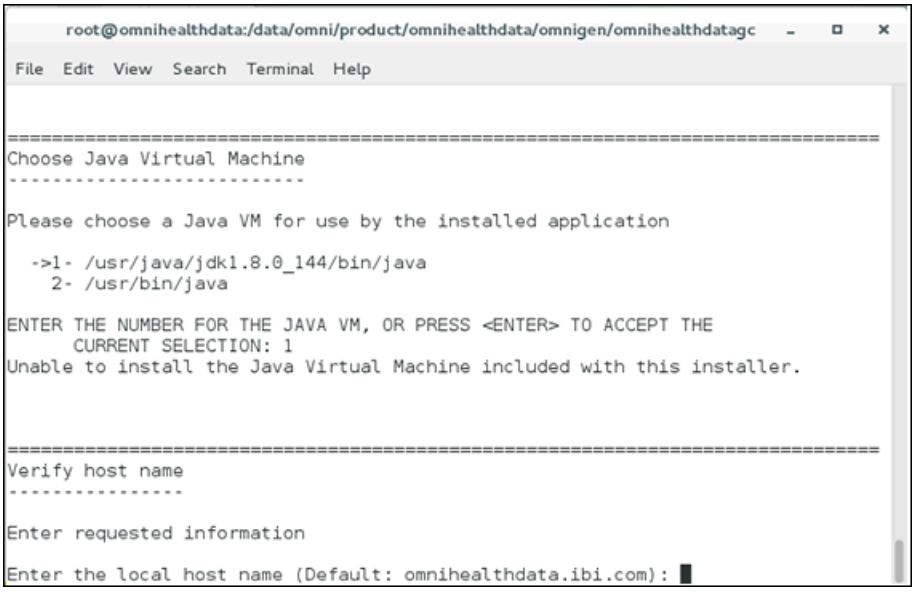
9. Enter the location of your *omnigen* home directory (for example, */data/omni/product/omnihealthdata/omnigen*), and then press *Enter* to continue.

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



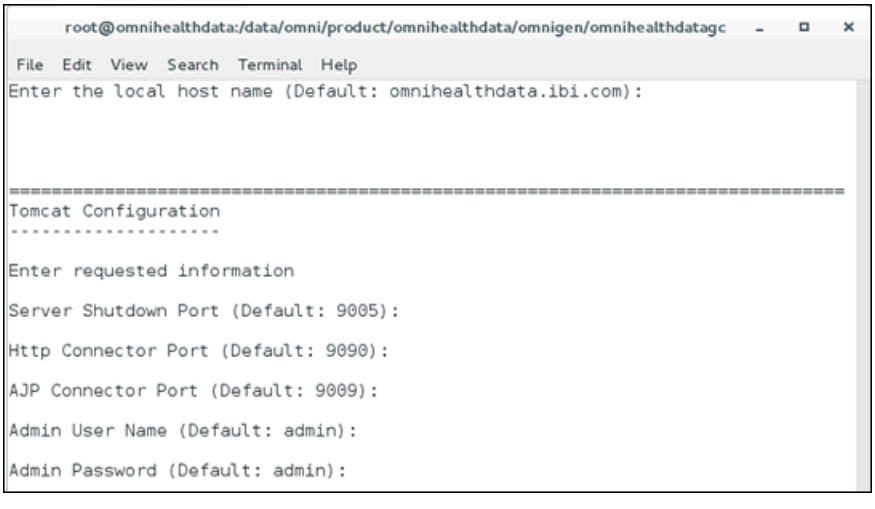
10. Ensure that the Java version located is version 1.8 or higher, and then press *Enter* to continue.

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



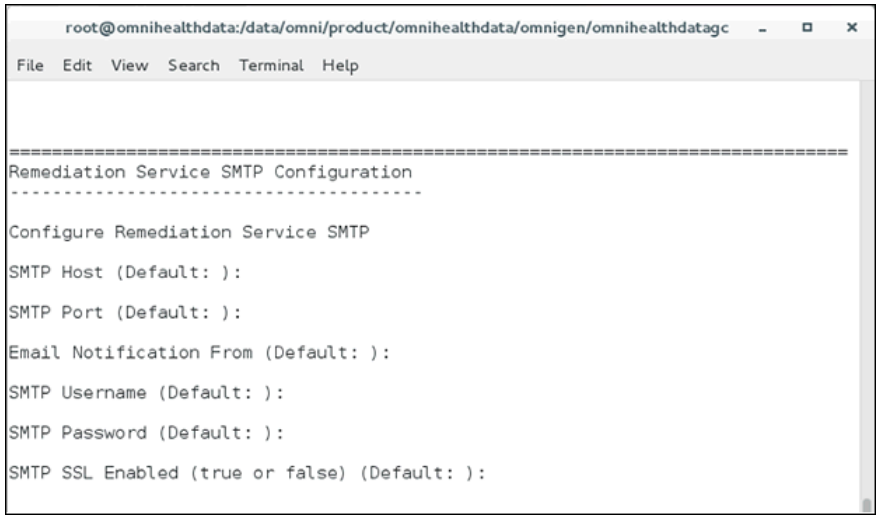
11. Change the local host name or accept the default value specified in the *og_configuration.properties* file, and then press *Enter* to continue.

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



12. Verify the default ports, user name, and password, or modify the parameters accordingly. 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.

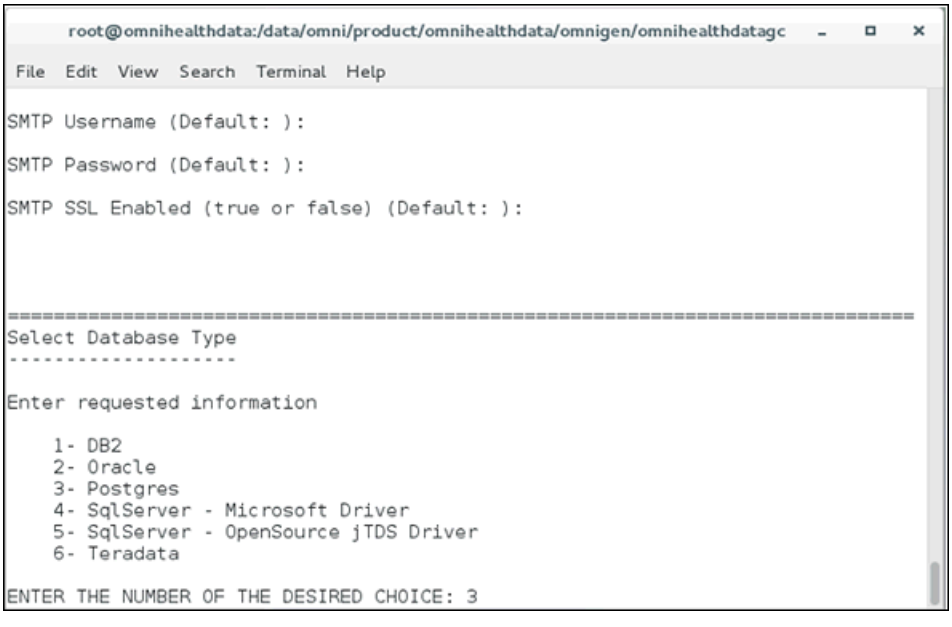
    b. Press *Enter* to continue.

In addition, each user who will receive email notifications must have a valid email address in their WSO2 Identity Server (WSO2 IS) user profile.

- Each LDAP user with the *Data Steward* or *Data Supervisor* role, and who will receive Assignment e-mails, must have a valid e-mail address in their Active Directory profile. When it makes the LDAP connection, WSO2 IS will bring back those email addresses to its *Local User Store* profile of the user.
- Each hardcoded user in the WSO2 IS *Primary* domain must have an email in their WSO2 IS user profile.

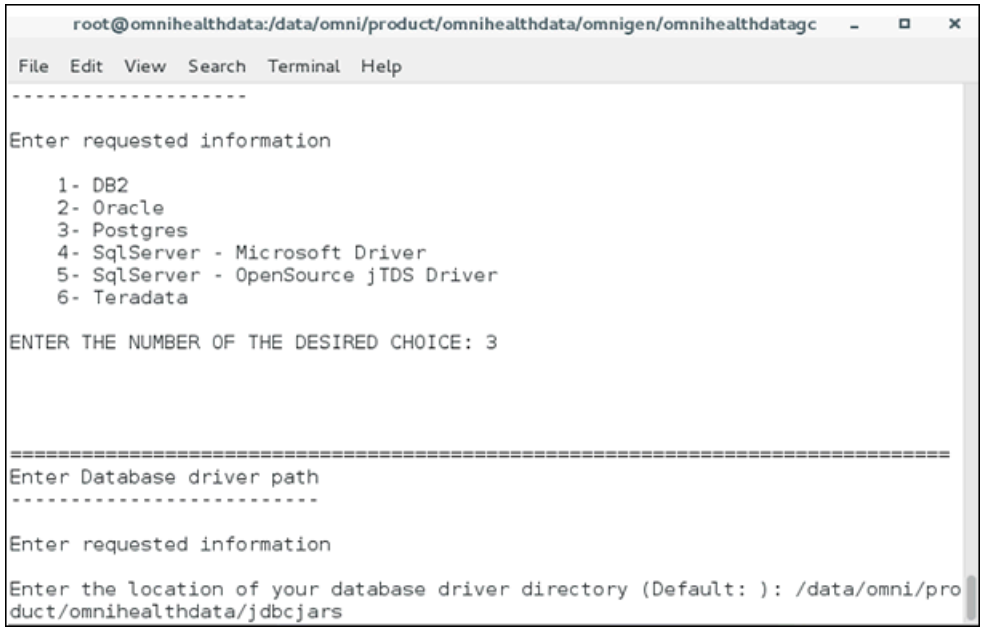
14. Press *Enter* to continue.

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



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

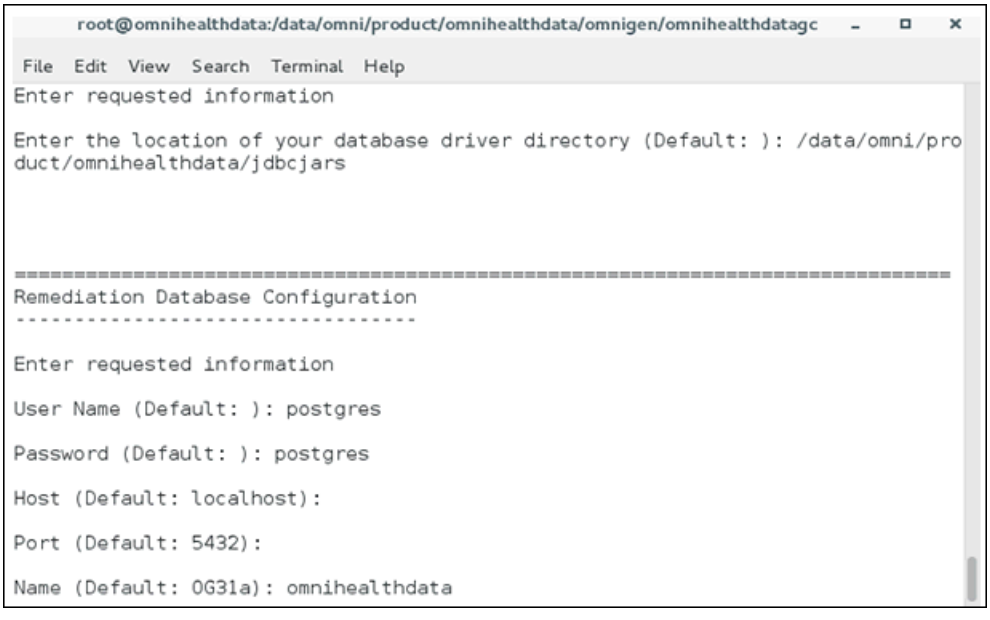
The Enter Database driver path pane opens, as shown in the following image.



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

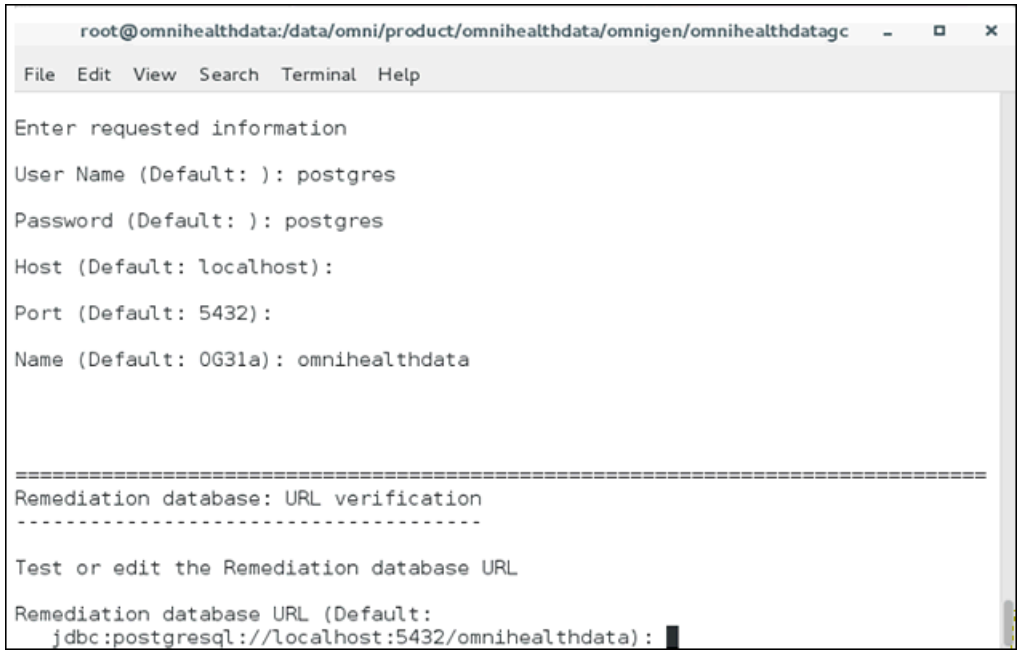
    For more information on the location of your JDBC .jar files, see *Creating Install Directories* on page 43.

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



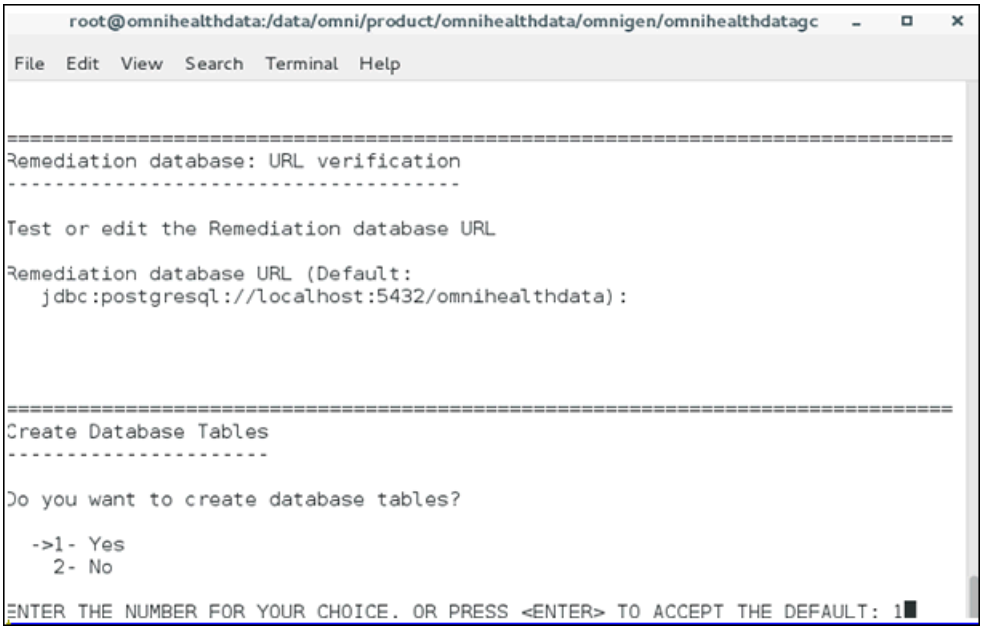
17. Review the information to ensure it matches the corresponding *ogs.db.** entries in the *og_configration.properties* file, and then press *Enter* to continue.

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



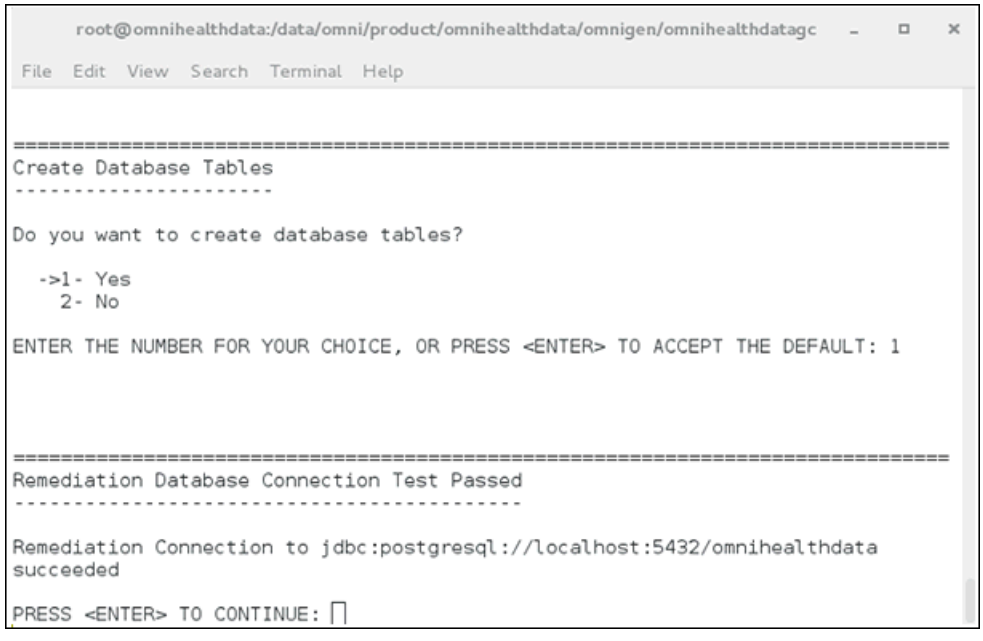
18. Ensure that the Remediation database URL string matches the corresponding entry in the *og_configration.properties* file.
19. Press *Enter* to continue.

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



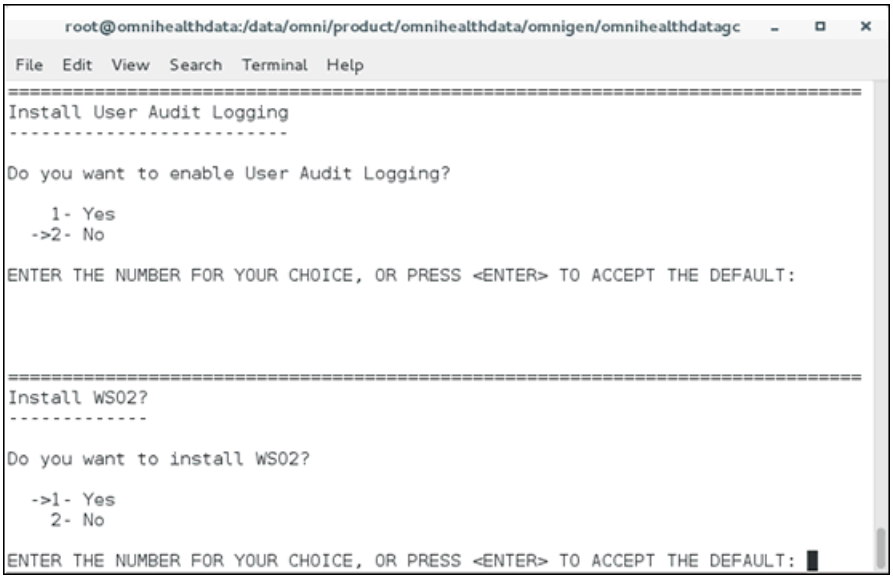
20. Specify *Yes* to create the tables for the Remediation database, and then press *Enter* to continue.

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



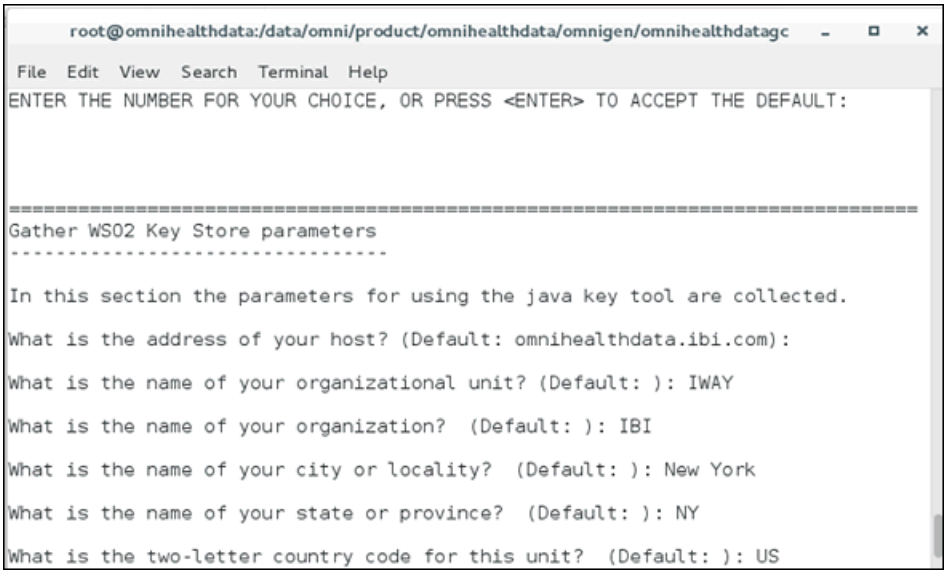
21. Press *Enter* to continue.

The Install User Audit Logging and Install WSO2 pane opens, as shown in the following image.



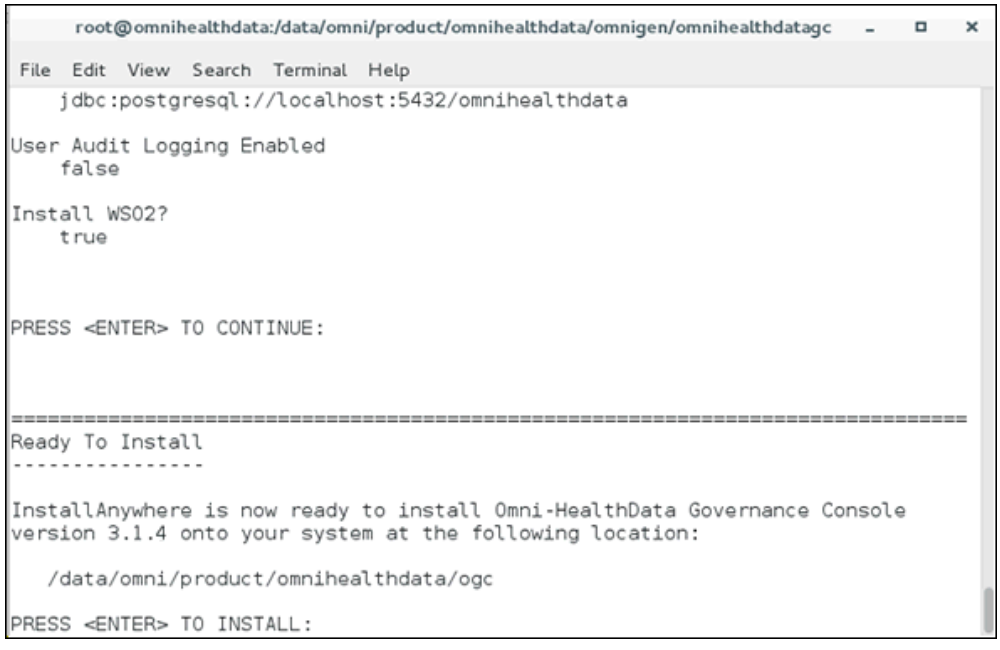
22. Specify *2 - No* where prompted to install User Audit Logging, *1 - Yes* where prompted to install WSO2, and then press *Enter* to continue.

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



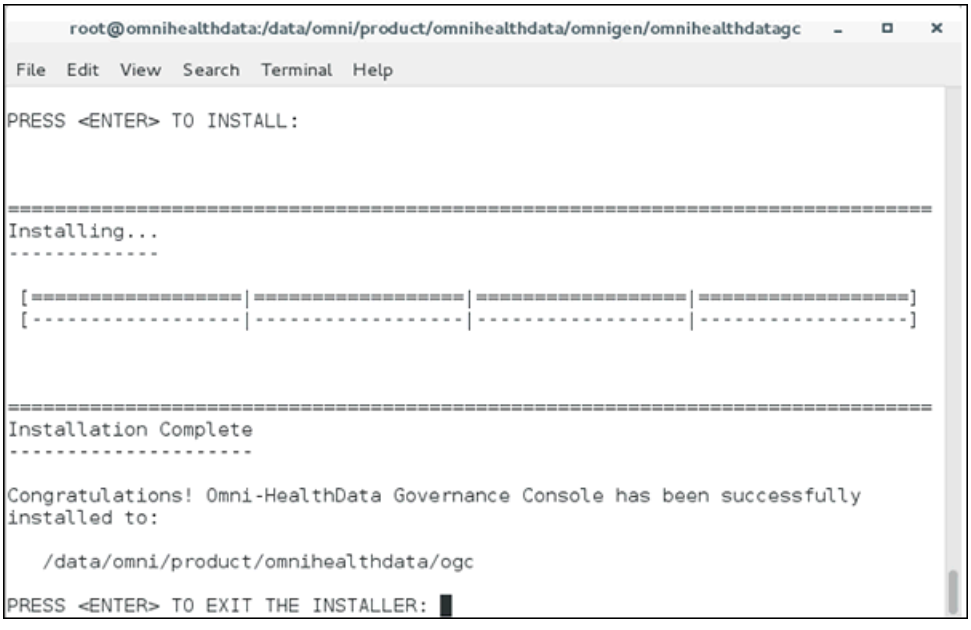
23. Verify the default for the address of the host, populate appropriate entries for the other prompts, and then press *Enter* to continue.

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



24. 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.



25. Press *Enter* to exit the OHDGC installer.
26. Navigate to the *OHDGC* installation directory. For example:

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

27. Navigate to the location of the *context.xml* file. For example:

    ```
    /data/omni/product/omnihealthdata/ohdgc/ogc/data/cfg/tomcat/conf
    ```

28. Edit the *context.xml* file to verify (or set) the following URLs to use HTTP. For example:

    ```
    <!-- Omni controller -->
    <Environment name="omnicontroller/url" override="true"
    type="java.lang.String" value="http://omnihealthdata.ibi.com:9500"/>

    <!-- Omni server -->
    <Environment name="omniserver/url" override="true"
    type="java.lang.String" value="http://omnihealthdata.ibi.com:9512"/>
    ```

29. Navigate to the location of the *remediation.properties* file. For example:

    ```
    /data/omni/product/omnihealthdata/ohdgc/ogc/data/remediation/
    ```

30. Edit the *remediation.properties* file to verify (or set) the following URLs to use HTTP. For example:

```
action.ActionSubmitMatching.url=http://omnihealthdata.ibi.com:9512/
server/api/v1/remediation/MatchOverride
action.ActionSubmitCleansing.url= http://omnihealthdata.ibi.com:9512/
server/api/v1/remediation/PropertyOverride
action.ActionSubmitValidateExt.url= http:://omnihealthdata.ibi.com:9512/
server/api/v1/remediation/ValidateOverride
action.integrationService.url= http:://omnihealthdata.ibi.com:9512
action.SubmitNewDocumentExt.url= http:://omnihealthdata.ibi.com:8999
```

31. Navigate to the location of the WSO2 *Owasp.CsrfGuard.Carbon.properties* file. For example:

```
/data/omni/product/omnihealthdata/ohdgc/ogc/bin/tools/wso2_is/
repository/conf/security/
```

32. Edit the *Owasp.CsrfGuard.Carbon.properties* file to verify (or set) the pseudo-random number generator provider for WSO2. For example:

```
org.owasp.csrfguard.PRNG.Provider=IBMJCE
```

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

```
./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.

34. Press *Enter*.
35. When the startup process has completed, proceed to *Starting the Omni Server and Omni-HealthData Governance Console* on page 85.

Chapter 5

Modifying the og_configuration.properties File

This chapter describes how to apply implementation-specific changes to the *og_configuration.properties* file.

In this chapter:

Modifying the og_configuration.properties File

Prior to starting Omni-HealthData, the *og_configuration.properties* file must be configured to identify all of the recommended ports and site-specific details.

This properties file provides an externalized configuration that is used by Omni-HealthData components during run time. You must carefully review this file and provide any required parameter values within this file before proceeding with any further configuration. This file is used as the basis of other component-specific configuration files within the system.

Open the *og_configuration.properties* file, which is located in the following directory:

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

Edit the areas in bold based on your environment.

```
# These properties are loaded by configure.xml

# To override the properties below in your configuration properties
# specified by omnigen, configure
# -Dconfiguration.properties=<your config file>

# Specify the location of the JDBC jars. Modify according
# to the installation
# Note that some products like Db2 require more than one jar
# UNIX example
# jdbc.lib.dir=/home/userid/jdbcjars
# The following is an example for Windows installation
jdbc.lib.dir=/data/omni/product/omnihealthdata/jdbcjars

##############################################
# bootstrap.properties/OmniGenConfiguration.properties
# specify the db type - sqlserver, postgres, oracle or db2
ogs.db.type=postgres
ogs.db.driver=org.postgresql.Driver
ogs.db.url=jdbc:postgresql://localhost:5432/omnihealthdata
ogs.db.username=postgres
ogs.db.password=postgres
max.db.identifier.length=63
```

```
# Used in mastering/local_config/local.runtimeConfig
dq.db.type=postgres
dq.db.driver=org.postgresql.Driver
dq.db.url=jdbc:postgresql://localhost:5432/omnirepo
dq.db.username=postgres
dq.db.password=postgres


# Drivers and sample urls
# Sqlserver
#ogs.db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
#ogs.db.url=jdbc:sqlserver://<host>/<dbname>;
#sendStringParametersAsUnicode=false
#max.db.identifier.length = 100
# Db2
#ogs.db.driver=com.ibm.db2.jcc.DB2Driver
#ogs.db.url=jdbc:db2://<host>:<port>/<dbname>
#max.db.identifier.length = 100
#max.db.identifier.length can vary for db2
# Postgres
#ogs.db.driver=org.postgresql.Driver
#ogs.db.url=jdbc:postgresql://localhost:5432/<omni gen dbname>
#max.db.identifier.length = 63
# Oracle
#ogs.db.driver=oracle.jdbc.OracleDriver
#ogs.db.url=jdbc:oracle:<drivertype>:@<database>
#ogs.db.url=jdbc:oracle:thin:@<hostName>:<portNumber>:<sid>;
#(if you have sid)
#ogs.db.url=jdbc:oracle:thin:@//<hostName>:<portNumber>/serviceName;
#(if you have oracle service name)
#max.db.identifier.length = 30
# Database property (default value)

###############################################
# Elasticsearch properties
# Ports elasticsearch will listen on
ogs.server.elasticsearch.http-port=9516
ogs.server.elasticsearch.api-port=9517

###############################################
# Protocols
# default protocol is https
server.runtime.http-protocol=https
# change protocol to http if no ssl
#server.runtime.http-protocol=http

###############################################
# Server ports: Console, Controller, and Server
ogs.controller.http.port=9500
ogs.server.http.port=9512
```

```
##############################################
# https and ssl related properties
ssl.server.http.redirect=false
ssl.server.ssl.enabled=true
ssl.server.ssl.key-store = omnigenstore.p12
ssl.server.ssl.key-store-password = omnigen
ssl.server.ssl.keyAlias = boot

##############################################
# any property for Omni-Gen configuration may be specified
# by adding prefix "cfg." to its name
# for example these jvm properties:
cfg.server.controller.max-memory=1024M
cfg.server.console.max-memory=1024M
cfg.server.omni-server.max-memory=4096M
cfg.server.commandline.max-memory=1024M
cfg.server.dq.cleansing.max-memory=1024M
cfg.server.dq.merging.max-memory=1024M
cfg.server.dq.matching.max-memory=1024M
cfg.server.dq.remediation.max-memory=1024M
cfg.server.elasticsearch.max-memory=2048M

#uncomment and set or install will fails
hostname=omnihealthdata
hostdomain=ibi.com

########################################
# Omni Governance Console configuration
cfg.ogc.install-directory=/data/omni/product/omnihealthdata/ogc
cfg.ogc.hostname=localhost
cfg.ogc.http.port=9090
cfg.ogc.admin.username=admin
cfg.ogc.admin.password=admin


########################################
# HealthViews connection used for CohortBuilder healthviews/cohort schemas
hv.db.type=postgres
hv.db.driver=org.postgresql.Driver
hv.db.url=jdbc:postgresql://localhost:5432/omnihealthviews
hv.db.username=postgres
hv.db.password=postgres
# schema names must NOT be modified
hv.db.cohort.schema=cohort
hv.db.healthviews.schema=healthviews
```

Chapter 6

Starting the Omni Server and Omni-HealthData Governance Console

This chapter describes how to apply the appropriate metadata to start Omni Server (OS) and Omni-HealthData Governance Console (OHDGC) on all platforms.

In this chapter:

Starting Omni Server

This section describes how to start Omni Server.

Procedure: How to Start Omni Server

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

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

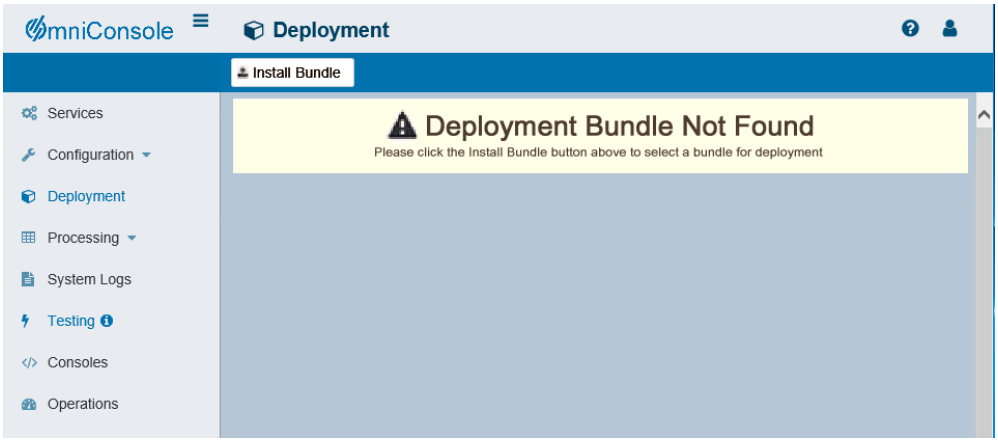
   For example:

   `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*.

   The Open dialog is displayed.

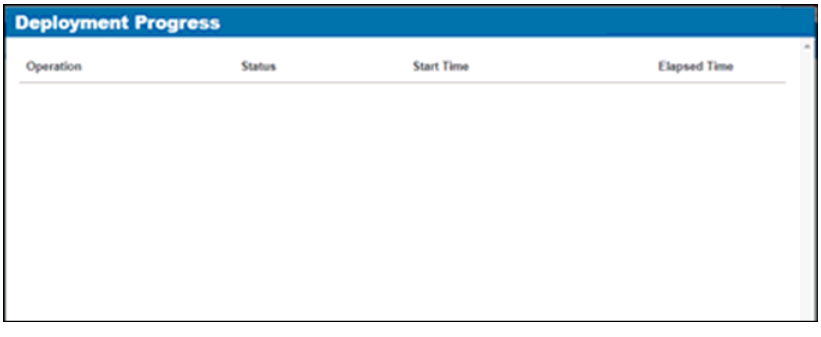
5. Navigate to the location of your deployment bundle file.

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

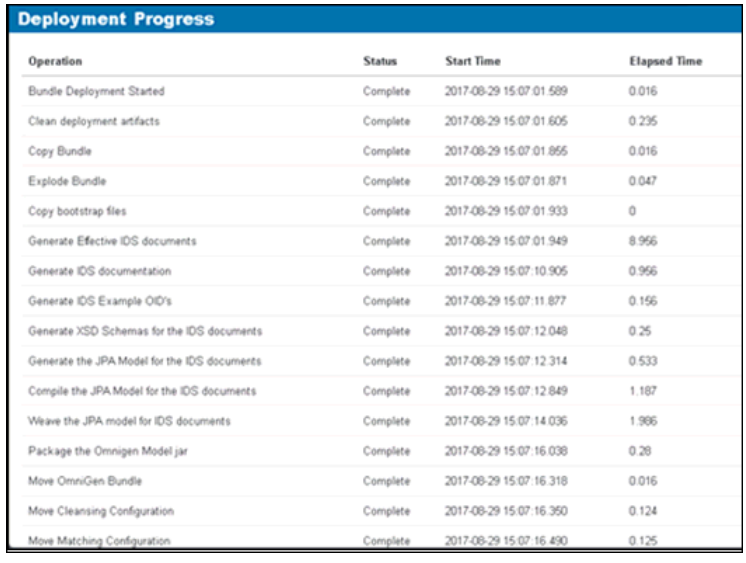
   `\data\omni\product\omnihealthdata\omnigen\`**`omnihealthdatabundle`**

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

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



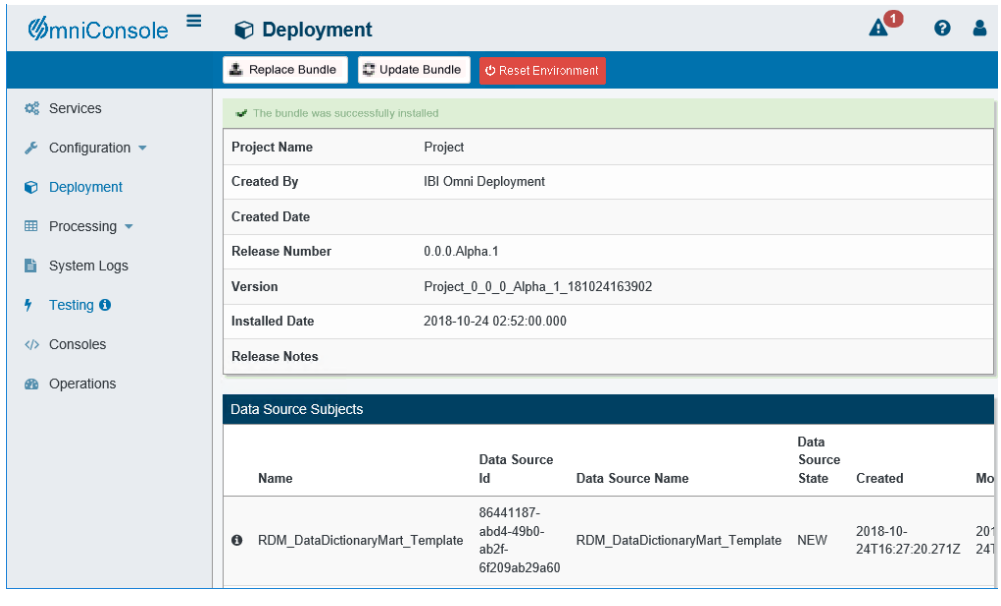
The Deployment Progress window will start to display information and progress during the whole deployment process, as shown in the following image.



Deployment Progress

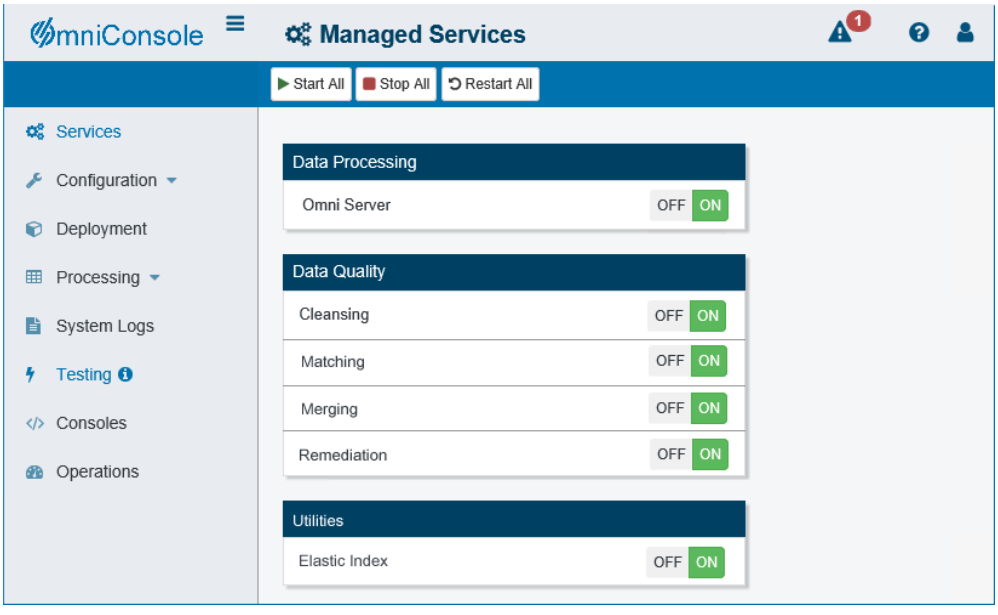
Operation	Status	Start Time	Elapsed Time
Bundle Deployment Started	Complete	2017-08-29 15:07:01.589	0.016
Clean deployment artifacts	Complete	2017-08-29 15:07:01.605	0.235
Copy Bundle	Complete	2017-08-29 15:07:01.855	0.016
Explode Bundle	Complete	2017-08-29 15:07:01.871	0.047
Copy bootstrap files	Complete	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.



7. 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. Start from the Utilities section and work upwards, as shown in the following image.



8. 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`

Starting Omni-HealthData Governance Console

This section describes how to start Omni-HealthData Governance Console (OHDGC).

Procedure: How to Start Omni-HealthData Governance Console

1. Navigate to the following directory:

   - **On Windows:**

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

- **On Linux:**

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

2. Type the following command in a terminal window:

   On Windows:

   ```
   ogcstart.exe
   ```

   On Linux:

   ```
   ./ogcstart.sh
   ```

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

   For example:

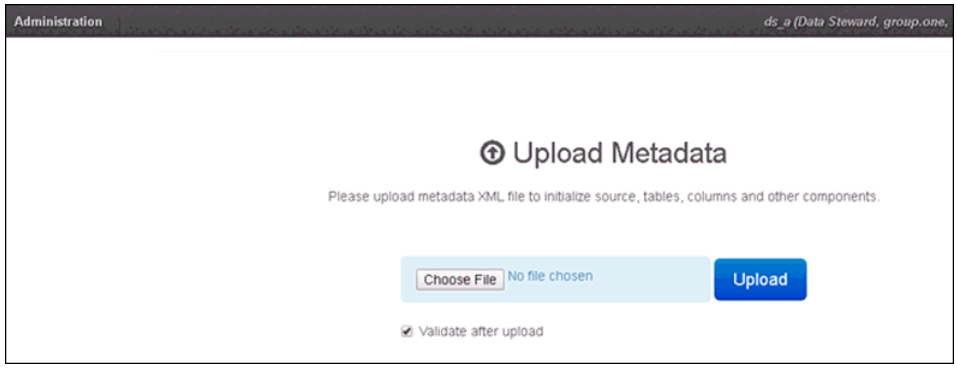
   ```
   http://omnihealthdata.ibi.com:9090/ogc
   ```

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



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

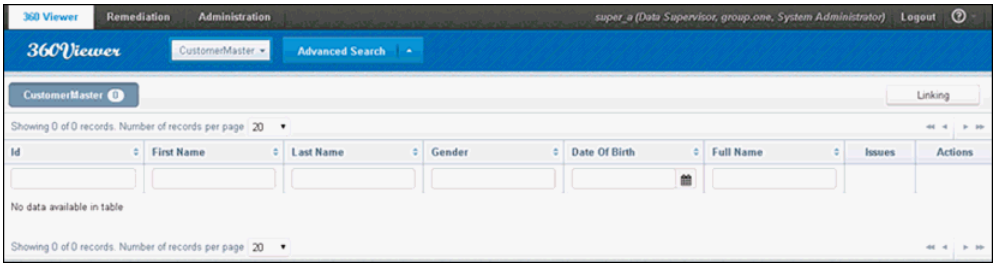
   ```
   <OHDGCInstall_Dir>\ogc\bin\ibi\mdata
   ```

   For example:

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

6. Select the *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 installed and ready for use.

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iWay

Omni-HealthData™ Installer User's Guide

Version 3.1

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Information Builders, Inc.
Two Penn Plaza
New York, NY 10121-2898