



Informatica® RulePoint
6.1.2

Installation and Upgrade Guide

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Preface

The *RulePoint Installation and Upgrade Guide* describes how to install, configure, and upgrade RulePoint using the RulePoint installer. The target audience of this guide is the system administrator who is responsible for installing and upgrading RulePoint. This guide assumes that you have a working knowledge of the application server, database server, and other system requirements to install or upgrade RulePoint.

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CHAPTER 1

Introduction to Informatica RulePoint Installation

This chapter includes the following topics:

- [RulePoint Installation Overview, 8](#)
- [Installation Process, 8](#)

RulePoint Installation Overview

RulePoint is a complex event processing solution that delivers real-time operational business intelligence to users within an enterprise. The RulePoint installation has a topology which functions as the fundamental administrative unit. The topology is a group of application services, system services, nodes, and hosts that you can group into folders based on administrative ownership.

The topology includes a design-time environment and a run-time environment.

Design-time environment

The RulePoint design-time environment enables you to author RulePoint components, configure and administer run-time components, and deploy RulePoint components from design time to runtime.

Run-time environment

The RulePoint run-time environment enables you to process the deployed design-time components.

Installation Process

The RulePoint installation process consists of the following tasks:

1. Complete the preinstallation tasks.

Verify that the system meets the installation requirements.

2. Prepare database schemas.

If you want to use the default schemas created during RulePoint installation, use the **Typical** mode during installation. In a typical installation, configure the RulePoint database user and provide database administrator privileges to this user.

If you do not want to use the default schemas, you can select the **Custom** mode of installation when you run the installer. To use custom schemas, configure the new database schemas and specify the schema names.

3. Install RulePoint.

Run the installer in graphical mode or console mode to install RulePoint.

4. Set up the RulePoint environment variable.

5. Start RulePoint.

Perform the following tasks to start RulePoint:

- a. Start the database.
- b. Start the host agent, topology, and design-time instances.

6. Log in to the RulePoint user interface and validate the installation.

CHAPTER 2

Before You Install RulePoint

This chapter includes the following topics:

- [Verify Installation Requirements, 10](#)
- [Extract the Installer Files, 11](#)
- [Verify License Key, 11](#)
- [Plan the Installation Mode, 12](#)
- [Prepare the Database, 13](#)
- [Set Up the X Window Server, 16](#)

Verify Installation Requirements

Before you install RulePoint, ensure that you meet the minimum system requirements for the installation process, temporary disk space, and databases.

Verify System Requirements

Verify that your system configuration meets the minimum requirements for the installation process.

The following table lists the platforms supported by the RulePoint installer:

Operating Systems	Database Servers	Recommended Hardware Requirements
<ul style="list-style-type: none">- Windows- Linux	<ul style="list-style-type: none">- Oracle- IBM DB2- SQL Server- H2	<ul style="list-style-type: none">- 64-bit Intel or AMD-compatible, Xeon equivalent or better configuration, 4 CPU at 1.7 GHz- 16 GB RAM- 20 GB application disk space- 1 Gbps Network Interface Card

Note: The H2 database is an embedded open source database that is packaged with the RulePoint installer files.

For more information about product requirements and supported platforms, see the Product Availability Matrix on the Informatica My Support Portal:

<https://mysupport.informatica.com/community/my-support/product-availability-matrices>.

Verify Temporary Disk Space Requirements

The installer writes temporary files to the hard disk. Verify that you have enough disk space available on the machine to support the installation.

Ensure that the following requirements are met:

- The /tmp directory has at least 200 MB of disk space.
- The user has write access to the /tmp directory.

Verify System User Permissions

Verify that the system user has read, write, and run permissions on the installer and the files directory on Linux.

Verify Port Requirements

When you install RulePoint, you need to specify the HTTP or HTTPS port number of the Tomcat server to configure the RulePoint topology.

The port number that you specify for the Tomcat port must be unique. To avoid port conflict during installation, verify that the port numbers are available on the machine where you install RulePoint.

The default HTTP port is 8080. The default HTTPS port is 8443.

Extract the Installer Files

The installer files are compressed and distributed as a .zip file.

Use a native tar or GNU tar utility to extract the installer files to a directory on your machine.

You can extract the installer files from the following sources:

Installation DVD

Download the Informatica tar file from the installation DVD to a directory on your machine and then extract the installer files, or extract the installer files directly from the DVD to a directory on your machine.

Informatica Electronic Software Download Site

Download the Informatica installation tar file from the Informatica Electronic Software Download (ESD) site to a directory on your machine and then extract the installer files.

Verify License Key

Before you install the software, verify that you have the license key. You can get the license key in the following ways:

- Installation DVD. If you receive the Informatica installation files in a DVD, the license key file is included in the Informatica License Key CD.

- FTP download. If you download the Informatica installation files from the Informatica Electronic Software Download (ESD) site, the license key is in an email message from Informatica. Copy the license key file to a directory accessible to the user account that installs the product.

Contact Informatica Global Customer Support if you do not have a license key.

Plan the Installation Mode

You must specify the installation mode when you run the RulePoint installer.

Based on the supported databases and the schemas that you can use, the RulePoint installer provides the following installation modes:

- Typical. If you choose the typical installation mode, the RulePoint installer creates the database schemas.
- Custom. If you do not want to use the default schemas provided by the RulePoint installer, you can choose the custom installation mode and use the schemas that you create.

Schemas in a Typical Installation

When you run the RulePoint installer in the typical installation mode, the installer creates the database schemas.

In a typical installation, you can choose one of the following databases to configure the RulePoint components:

- IBM DB2
- Microsoft SQL Server
- Oracle
- H2

The RulePoint installer creates the following schemas in a typical installation:

Design schema

Stores details of design metadata related to application projects, objects, and security configurations. The default schema name is RulePoint_Design.

Topology schema

Stores details of run-time topology, such as host, nodes, run-time components, and run-time configurations. The default schema name is RulePoint_Topology.

RTAM schema

Stores responses for the RTAM tool. The default schema name is RulePoint_RTAM.

Topology State schema

Stores information about the run-time state of the topology. The default schema name is RulePoint_TopologyState.

Activity schema

Stores information about the run-time activity of application objects deployed on the run-time topology. The default schema name is RulePoint_Activity.

When you install RulePoint in the typical installation mode, the RulePoint installer creates the default schemas with the same password as the database user. For example, if the database user password to log in

to the database is "rulepoint," the RulePoint installer creates all the schemas with "rulepoint" as the password. You can change the default password for the database user and the schemas after you install RulePoint.

Schemas in a Custom Installation

If you do not want to use the default schemas provided by the RulePoint installer, you must choose the custom installation mode.

To perform a custom installation, you need to create custom schemas and replace all the default schema names in RulePoint with the custom schema names.

In a custom installation, you can choose one of the following databases:

- IBM DB2
- Microsoft SQL Server
- Oracle

Prepare the Database

If the database is IBM DB2, Microsoft SQL Server, or Oracle, you need to prepare the database to set up repositories for the design-time and the run-time environment and create RulePoint user accounts.

When you run the RulePoint installer, the installer creates the following repositories to store the database schemas:

- Design-time repository. Stores the Design, Topology, and RTAM schemas.
- Run-time repository. Stores the Topology State and Activity schemas.

During installation, you can choose to create the repositories in the same database or in separate databases.

If you plan to create the design-time and run-time repositories in separate databases, ensure that the database types are same. For example, if you plan to use an Oracle database to create the design-time repository, you need to have another Oracle database to create the run-time repository.

Verify Database Size Requirements

Verify that the database has enough disk space based on your requirements.

Use the following guidelines when you plan for disk space:

- The RulePoint installation requires 1 GB free space. The disk space requirement for a single node topology, typically used for small-volume scenarios, is approximately 30 GB.
- In a multinode topology, the disk space requirement depends on the number of incoming events and generated responses. If the number of incoming events for a topic is high, you need to increase the disk space proportionally. By default, the maximum disk space requirement for each topic is 1 GB. For 40 topics, consider increasing the disk space to approximately 50 GB.

- The disk usage for the database schemas of RulePoint components differs based on the sample schema sizes. The following table describes the disk space usage based on a sample sizing in a multinode topology:

Schema	Disk Usage
Design	225 MB for 500 objects.
Topology and Topology State	351 MB for 500 objects.
Activity	22 GB for 2 million events processed using 500 rules, and with a hit ratio of 10%.
RTAM	15 GB for 300,000 RTAM responses.

Contact Informatica Global Customer Support for specific hardware requirements for your use case.

Set Up Database User Accounts

Set up user accounts for the repository databases associated with the RulePoint design-time and run-time environment.

The RulePoint user needs to have access rights to the database and at least 100 connection sessions to the database hosting the design-time repository.

Configure Database Schemas Before a Custom RulePoint Installation

In a custom mode of installation, you need to replace the default RulePoint schema names with the custom schema names.

Ensure that you have created the database schemas before you configure the custom schemas in RulePoint.

Configuring Database Schemas in IBM DB2

1. Launch DB2 Command Line Processor and log in as the database administrator.
2. To create the required schemas, perform the following tasks:
 - a. Navigate to the following location:


```
<installer files directory>\resources\db\schemas_creation\db2
```

 Where, `<installer files directory>` refers to the location where you extracted the RulePoint installation files.
 - b. Edit the `create_users_ddl.sql` script to include the RulePoint user name and the schema names.
 - c. Run the `create_users_ddl.sql` script.
3. To configure the schemas, perform the following tasks for each RulePoint schema:
 - a. Navigate to the following location:


```
<installer files directory>\resources\db\schemas_configuration\<schema_name>\db2
```

 Where, `schema_name` refers to the name of the folder for the Design, Topology, RTAM, Topology State, or Activity schema.
 - b. Replace the schema names with the corresponding schema names that you created.

- c. Run the following script to populate the database tables:
`tables.sql`
4. To grant the required permissions to the RulePoint database users, perform the following tasks:
 - a. Navigate to the following location:
`<installer files directory>\Windows\resources\db\schema_permissions\db2`
 - b. In the `grant_permissions_ddl.sql` script, replace `rp_user` with the RulePoint user name.
 - c. Replace the default schema names with the corresponding schema names that you created.
 - d. Run the `grant_permissions_ddl.sql` script.

Configuring Database Schemas in Microsoft SQL Server

1. Launch Microsoft SQL Server Management Studio.
2. Change the default owner of the database to the administrator.
3. Perform one of the following actions:
 - a. To create the database user, run the following command:

```
USE master
CREATE LOGIN <<rp_user>> WITH PASSWORD='<<password>>',
DEFAULT_DATABASE=<<database_name>>, CHECK_EXPIRATION=OFF, CHECK_POLICY=OFF
USE <<database_name>>
CREATE USER <<rp_user>> FOR LOGIN "<<rp_user>>"
GRANT CREATE SCHEMA, CREATE TABLE, SELECT, INSERT, DELETE, UPDATE TO <<rp_user>>
```

Where:

 - `<rp_user>` is the name of the database user.
 - `<password>` is the associated password for the database user.
 - `<database_name>` is the name of the database that you create.
 - b. To enable Windows authentication mode, run the following command:

```
GRANT CREATE SCHEMA, CREATE TABLE, SELECT, INSERT, DELETE, UPDATE TO <domain_user>
```

Note: `<domain user>` refers to the user name in the domain account.
4. To create the RulePoint Design, Topology, RTAM, Topology State, and Activity schemas, run the following command for each schema:

```
CREATE SCHEMA <<schema_name>> AUTHORIZATION <<rp_user>>
```

Where:

 - `<rp_user>` is the name of the RulePoint database user.
 - `<schema_name>` is the name of the RulePoint schema that you want to configure.
5. Perform the following tasks for each of the RulePoint schemas:
 - a. Click **Open File**, and navigate to the following location:
`<installer files directory>\resources\db\schema_configuration\<schema>\sqlserver`
 - b. Edit the `tables.sql` script to replace the default schema names with the corresponding schema names that you configured.
 - c. Run the `tables.sql` script, and click **Execute** in the menu bar.

Configuring Database Schemas in Oracle

1. Launch SQL*Plus and log in as the database administrator.

2. To create the RulePoint database user and the required schemas, perform the following tasks:
 - a. Navigate to the following location:
`<installer_files_directory>\resources\db\schemas_creation\oracle`
 - b. Edit the `create_users_ddl.sql` script. Provide the RulePoint user name, password, and schema name in the script.
 - c. Run the `create_users_ddl.sql` script.
3. To configure the schemas, perform the following tasks for each of the RulePoint schemas:
 - a. Navigate to the following location:
`<installer_files_directory>\resources\db\schemas_configuration<schema_name>\oracle`
Where, `<schema_name>` refers to folders for the Design, Topology, RTAM, Topology State, or Activity schemas.
 - b. Replace the schema names with the corresponding schema names that you created.
 - c. Run the following script to populate the database tables:
`tables.sql`
4. Perform the following steps for each of the RulePoint schemas:
 - a. Navigate to the following location:
`<installer_files_directory>\resources\db<schema_name>\oracle`
 - b. Run the following script to populate the database tables:
`tables.sql`
5. To grant the required permissions to the RulePoint database users, perform the following tasks:
 - a. Navigate to the following location:
`<installer_files_directory>\Windows\resources\db\schemas_permissions\oracle`
 - b. In the `grant_permissions_ddl.sql` script, replace `rp_user` with the RulePoint user name.
 - c. Replace the default schema names with the corresponding schema names that you created.
 - d. Run the `grant_permissions_ddl.sql` script.

Set Up the X Window Server

When you run the installer in graphical mode, you must use a graphics display server. On UNIX, the graphics display server is typically an X Window server. If you do not have the X Window server installed on the machine where you want to install the product, you can run the installer by using an X Window server installed on another machine. Use the `DISPLAY` variable to redirect output of the X Window server to another UNIX machine.

The following table lists the commands to set the DISPLAY environment variable:

Shell	Command	Example
C	setenv DISPLAY <TCP/IP node of XWindow server>:0	setenv DISPLAY 10.1.50.23:0
Bash/Korn	export DISPLAY="<TCP/IP node of XWindow server>:0"	export DISPLAY="10.1.50.23:0"
Bourne	DISPLAY="<TCP/IP node of XWindow server>:0" export display	DISPLAY="10.1.50.23:0" export display

If you do not know the IP address of a UNIX machine where the X Window server is installed, ask your network administrator. For more information about redirecting the DISPLAY variable, see the documentation from the UNIX vendor.

If the X Window server does not support the font that the installer uses, the installer might display incorrect labels on the buttons.

CHAPTER 3

RulePoint Installation

This chapter includes the following topics:

- [RulePoint Installation Overview, 18](#)
- [Install RulePoint in Graphical Mode, 18](#)
- [Installing RulePoint in Console Mode, 27](#)

RulePoint Installation Overview

You can install RulePoint in graphical or console mode.

Complete the preinstallation tasks to prepare for the installation.

Note: You cannot install more than one RulePoint instance on a host machine.

Install RulePoint in Graphical Mode

You can install RulePoint in graphical mode on Windows or Linux.

When you run the RulePoint installer, you can choose the typical installation mode to use the default schemas created by the RulePoint installer. You can select custom installation mode to replace the default schemas with the schemas that you create.

If you created a Microsoft SQL Server database for the RulePoint components and you also want to enable Windows authentication mode to access the database, you can configure the required settings while you install RulePoint.

Perform the following tasks to install RulePoint and configure Windows authentication mode for the Microsoft SQL Server:

1. Install RulePoint in the typical or the custom installation mode with Microsoft SQL Server as the database and specify the custom JDBC connection string for the Windows authentication mode.
2. Configure the settings to enable Windows authentication mode.

Performing a Typical RulePoint Installation

If you want to use the default schemas created by the RulePoint installer, you can install RulePoint in the typical installation mode.

1. Run the RulePoint installer based on the operating system on which you want to install RulePoint:
 - To install RulePoint on Windows, run the `Informatica_RulePoint_6.1.2.exe` file from the root directory.
 - To install RulePoint on Linux, from a shell command line, run the `Informatica_RulePoint_6.1.2.bin -i gui` command from the root directory.

2. On the **Introduction** page, click **Next**.

The **Choose Installation Folder** page appears.

3. Select the installation directory in which you want to install and configure the RulePoint application files.
The following table shows the default location of the installation directory:

Operating System	File Path
Windows	C:\RulePoint_6.1.2
Linux	/userhome/RulePoint_6.1.2

4. Click **Next**.

The **Database Configuration Mode** page appears.

5. Select **Typical**.

The **Design Database Configuration** page appears.

6. Select a database type from the following list:

- Oracle
- IBM-DB2
- MS-SQL
- H2

7. Enter the database connection information for the repository in which you want to configure the RulePoint design-time components.

The following table describes the connection properties that you specify for the design-time repository if you select Oracle, IBM-DB2, or MS-SQL as the database type:

Property	Description
Database Type	Type of database for the design-time repository.
Database User Name	User name for the database user account.
Database Password	Password for the database user account.
Database Host	Host name of the database.

Property	Description
Database Port	Port number of the database.
Service Name/SID Name	Service name or SID name of the IBM DB2, Microsoft SQL Server, or Oracle database.
JDBC Parameters	Optional. JDBC parameters to include in the JDBC URL. Optionally, you can specify additional JDBC parameters to include in the JDBC URL.
Custom JDBC Connection String for DataDirect driver	<p>Optional. Connection string to connect to the database. To provide a customized connection string, select this option and enter the custom connection string.</p> <p>If there are multiple named instances of Microsoft SQL Server running concurrently on the same server, you must enter the custom connection string in the following format to connect to a named instance:</p> <pre>jdbc:informatica:sqlserver://<SERVER_NAME> \<INSTANCE_NAME>;DatabaseName=<DATABASE_NAME></pre> <p>For example, <code>jdbc:informatica:sqlserver://Server1\Instance2;DatabaseName=mySQL1</code></p>

Note: If you select the database type as H2, only the **Database Host** and **Database Port** lists appear.

8. If you selected **MS-SQL** and want to configure the Windows authentication mode to access the database, perform the following steps:

- a. Select **Custom JDBC Connection String for DataDirect driver** and enter the database user name and password.

You can enter any value for the database password to proceed with the installation.

- b. Copy the `DDJDBCx64Auth05.dll` file from the `<installer files directory>\bin\common\ddl` directory to any location, such as `E:\Installs`.

Note: The absolute path to the `DDJDBCx64Auth05.dll` file, such as `E:\Installs`, needs to be available whenever RulePoint is running.

- c. On the **Database Configuration** page, enter the custom JDBC connection string in the following format:

```
jdbc:informatica:sqlserver://
<HOST>:<PORT>;DatabaseName=<DATABASE_NAME>;AuthenticationMethod=ntlm;LoadLibraryPath=
<DLL_PATH>;
```

Where, `<DLL_PATH>` is the absolute path of the directory to which you had copied the `DDJDBCx64Auth05.dll` file.

For example, `jdbc:informatica:sqlserver://LOCALHOST:`

```
1433;databaseName=rulepoint61;AuthenticationMethod=ntlm;LoadLibraryPath=E:\Installs.
```

In this example, `E:\Installs` refers to the absolute path where you had copied the `DDJDBCx64Auth05.dll` file.

9. Click **Test Connection** to verify that you can connect to the database.

Important: You must test the database connection parameters before you configure the run-time database to verify whether the user input is correct.

The success message appears if the connection to the database is successful. The installer creates the following schemas in the design-time database:

- RulePoint_Design

- RulePoint_RTAM
- RulePoint_Topology

10. Click **Next**.

The **Select an Option** dialog box appears.

11. Perform one of the following actions to configure the RulePoint run-time environment:

- To use the same RulePoint design-time database to configure the RulePoint run-time environment, click **Yes**.
- To use a different database for the RulePoint run-time environment, click **No**.

The installer creates the RulePoint_Activity and RulePoint_TopologyState schemas in the run-time database.

12. Click **Next**.

The **Topology Configuration** page appears.

13. Enter the topology details.

A topology name refers to the group of all the services, nodes, and hosts of the RulePoint run-time environment.

The following table describes the topology configuration details:

Property	Description
Topology Name	Name for the topology. The default topology name is Default.
Topology Host IP	IP address of the server on which you install RulePoint.
Tomcat Port	HTTP port number of the Tomcat server. The default port is 8080.

14. If you want to enable a secure connection to access RulePoint, perform the following steps, and then click **Next**:

- Select **Enable HTTPS for RulePoint Design**.
- Enter the port number. The default port number is 8443.
- Either select a keystore generated by the installer or use an existing keystore, and click **Next**.
- If you use an existing keystore, enter the keystore password and the name of the keystore file.

The **Notification Settings** page appears.

15. Specify the email notification configuration option to receive alerts on events that occur in the RulePoint run-time components.

- To configure email notifications, click **Yes** and then configure the following email notification settings:

Property	Description
SMTP Host	The fully qualified domain name of the SMTP server that you use to send outbound email from RulePoint. For example, mail.mycompany.com
Port	Port number of the SMTP server.
From	Sender email address from which you send outbound emails.
To	Email recipient address to which you send notifications.
Priority	Email messages with the priority that you want to receive. Select from the following options: <ul style="list-style-type: none"> - Critical - High - Medium - Low For example, select Critical to receive email messages that have the priority as Critical. When the default node fails, you receive an email alert of critical priority with the message that the default node has failed.
Verbosity	Verbosity of the email notification. Select from the following options: <ul style="list-style-type: none"> - More - Less For example, select Less to receive email messages with brief information of the alert.
User Name	Optional. The user account name of the SMTP server.
Password	Optional. The user account password of the SMTP server.

- If you do not want to configure email notifications during installation, click **No**.

The **Pre-installation Summary** page appears.

16. Verify the installation summary, and then click **Install**.

The **Installing RulePoint 6.1.2** page appears and displays the installation progress.

17. If you are using Windows, perform one of the following tasks when a message prompts you to register Windows services for RulePoint components:

- If you want to create Windows services for the RulePoint components, click **Yes**.
The RulePoint Design Time and RulePoint Topology services are created in the Windows services. You can use these services to start or stop the RulePoint instances after you complete the installation.

If you selected H2 as the database for installation, the H2 services are also registered on Windows services. You can use the RulePoint H2 database service to start or stop the H2 database.

- If you do not want to register Windows services for RulePoint components, click **No**.

18. Click **Done** to complete the installation procedure, and then exit the installer.

Note: If you had specified the custom JDBC connection string in step 8 to access the Microsoft SQL Server database using Windows authentication mode, you need to configure the settings to enable the Windows authentication mode.

Performing a Custom RulePoint Installation

If you do not want to use the default schemas created by the RulePoint installer, you can install RulePoint in the custom installation mode and specify the schemas that you want to use.

1. Run the RulePoint installer based on the operating system on which you want to install RulePoint:
 - To install RulePoint on Windows, run the `Informatica_RulePoint_6.1.2.exe` file from the root directory.
 - To install RulePoint on Linux, from a shell command line, run the `Informatica_RulePoint_6.1.2.bin -i gui` command from the root directory.

2. In the **Introduction** page, click **Next**.

The **Choose Installation Folder** page appears.

3. Select the installation directory in which you want to install and configure the RulePoint application files.

The following table shows the default location of the installation directory:

Operating System	File Path
Windows	C:\RulePoint_6.1.2
Linux	/userhome/RulePoint_6.1.2

4. Click **Next**.

The **Database Configuration Mode** page appears.

5. Select **Custom**.

The **Design Database Configuration** page appears.

6. Select a database type from the following list:

- Oracle
- IBM-DB2
- MS-SQL

7. Enter the database connection information for the repository in which you want to configure the RulePoint design-time components.

The following table describes the connection properties that you specify for the design-time repository:

Property	Description
Database Type	Type of database for the design-time repository.
Database User Name	User name for the database user account.
Database Password	Password for the database user account.
Database Host	Host name of the database.
Database Port	Port number of the database.

Property	Description
Service Name/SID Name	Service name or SID name of the IBM DB2, Microsoft SQL Server, or Oracle database.
JDBC Parameters	Optional. JDBC parameters to include in the JDBC URL. Optionally, you can specify additional JDBC parameters to include in the JDBC URL.
Custom JDBC Connection String for DataDirect driver	<p>Optional. Connection string to connect to the database. To provide a customized connection string, select this option and enter the custom connection string.</p> <p>If there are multiple named instances of Microsoft SQL Server running concurrently on the same server, you must enter the custom connection string in the following format to connect to a named instance:</p> <pre>jdbc:informatica:sqlserver://<SERVER_NAME> \<INSTANCE_NAME>;DatabaseName=<DATABASE_NAME></pre> <p>For example, <code>jdbc:informatica:sqlserver://Server1\Instance2;DatabaseName=mySQL1</code></p>

8. If you selected **MS-SQL** and want to configure the Windows authentication mode to access the database, perform the following steps:
 - a. Select **Custom JDBC Connection String for DataDirect driver** and enter the database user name and password.
You can enter any value for the database password to proceed with the installation.
 - b. Copy the `DDJDBCx64Auth05.dll` file from the `<installer files directory>\bin\common\ddl` directory to any location, such as `E:\Installs`.
Note: The absolute path to the `DDJDBCx64Auth05.dll` file, such as `E:\Installs`, needs to be available whenever RulePoint is running.
 - c. On the **Database Configuration** page, enter the custom JDBC connection string in the following format:

```
jdbc:informatica:sqlserver://
<HOST>:<PORT>;DatabaseName=<DATABASE_NAME>;AuthenticationMethod=ntlm;LoadLibraryPath=
<DLL_PATH>;
```


Where, `<DLL_PATH>` is the absolute path of the directory to which you had copied the `DDJDBCx64Auth05.dll` file.
For example, `jdbc:informatica:sqlserver://localhost:
1433;databaseName=rulepoint61;AuthenticationMethod=ntlm;LoadLibraryPath=E:\Installs.`
In this example, `E:\Installs` refers to the absolute path where you had copied the `DDJDBCx64Auth05.dll` file.
9. Click **Test Connection** to ensure that you can connect to the database.
Important: You must test the database connection parameters before you configure the run-time database to verify whether the user input is correct.
The success message appears if the connection to the database is successful.
10. Click **Next**.
The **Select an Option** dialog box appears.
11. Perform one of the following actions to configure the RulePoint run-time environment:
 - To use the same RulePoint design-time database to configure the RulePoint run-time environment, click **Yes**.

- To use a different database for the RulePoint run-time environment, click **No**.

The **Schema Configuration** page appears.

12. Enter the schema names that you configured for RulePoint design-time and run-time databases, and then click **Next**.

The **Topology Configuration** page appears.

13. Enter the topology details.

A topology name refers to the group of all the services, nodes, and hosts of the RulePoint run-time environment.

The following table describes the topology configuration details:

Property	Description
Topology Name	Name for the topology. The default topology name is Default.
Topology Host IP	IP address of the server on which you install RulePoint.
Tomcat Port	HTTP port number of the Tomcat server. The default port is 8080.

14. If you want to enable a secure connection to access RulePoint, perform the following steps, and then click **Next**:

- a. Select **Enable HTTPS for RulePoint Design**.
- b. Enter the port number. The default port number is 8443.
- c. Either select a keystore generated by the installer or use an existing keystore, and click **Next**.
- d. If you use an existing keystore, enter the keystore password and the name of the keystore file.

The **Notification Settings** page appears.

15. Specify the email notification configuration option to receive alerts on events that occur in the RulePoint run-time components.

- To configure email notifications, click **Yes** and then configure the following email notification settings:

Property	Description
SMTP Host	The fully qualified domain name of the SMTP server that you use to send outbound email from RulePoint. For example, mail.mycompany.com
Port	Port number of the SMTP server.
From	Sender email address from which you send outbound emails.
To	Email recipient address to which you send notifications.

Property	Description
Priority	Email messages with the priority that you want to receive. Select from the following options: <ul style="list-style-type: none"> - Critical - High - Medium - Low For example, select Critical to receive email messages that have the priority as Critical. When the default node fails, you receive an email alert of critical priority with the message that the default node has failed.
Verbosity	Verbosity of the email notification. Select from the following options: <ul style="list-style-type: none"> - More - Less For example, select Less to receive email messages with brief information of the alert.
User Name	Optional. The user account name of the SMTP server.
Password	Optional. The user account password of the SMTP server.

- If you do not want to configure email notifications during installation, click **No**

The **Pre-installation Summary** page appears.

16. Verify the installation summary, and then click **Install**.

The **Installing RulePoint 6.1.2** page appears and displays the installation progress.

17. If you are using Windows, perform one of the following tasks when a message prompts you to register Windows services for RulePoint components:

- If you want to create Windows services for the RulePoint components, click **Yes**.
The RulePoint Design Time and RulePoint Topology services are created in the Windows services. You can use these services to start or stop the RulePoint instances after you complete the installation.
- If you do not want to register Windows services for RulePoint components, click **No**.

18. Click **Done** to complete the installation procedure, and then exit the installer.

Note: If you had specified the custom JDBC connection string in step 8 to access the Microsoft SQL Server database using Windows authentication mode, you need to configure the settings to enable the Windows authentication mode.

Configuring Windows Authentication Mode for the Microsoft SQL Server

You can use the Windows authentication mode to connect to an instance of the Microsoft SQL Server through the Windows user account.

Before you configure the settings, you must have specified the custom JDBC connection string for the Windows authentication mode when you installed RulePoint.

1. Create a directory named `endorsed` in the following locations:

- `<RulePoint installation directory>/design`

Where, `<RulePoint installation directory>` refers to the installation folder that the RulePoint installer creates during the installation phase to install the RulePoint components.

- <RulePoint installation directory>/system/java/lib
2. Copy the dwsqserver.jar file from <RulePoint installation directory>/design/webapps/rulepoint/web-inf/lib and save the file in the following locations:
 - <RulePoint installation directory>/design/endorsed
 - <RulePoint installation directory>/system/java/lib/endorsed
 3. Delete the dwsqserver.jar file from the following locations:
 - <RulePoint installation directory>/design/webapps/rulepoint/web-inf/lib
 - <RulePoint installation directory>/design/webapps/RTAM/web-inf/lib
 - <RulePoint installation directory>/lib
 4. Verify the location of the dwsqserver.jar and the DDJDBCx64Auth05.dll files.
 The dwsqserver.jar file should be available only under the following locations:
 - <RulePoint installation directory>/design/endorsed
 - <RulePoint installation directory>/system/java/lib/endorsed
 5. Copy the DDJDBCx64Auth05.dll file from the <installer files directory>\bin\common\dll directory to <DLL_PATH>.
 Where, <DLL_PATH> is the absolute path of the directory to which you had copied the DDJDBCx64Auth05.dll file when you specified the custom JDBC connection string during RulePoint installation.
 For example, in the following JDBC connection string, E:\\Installs refers to the absolute path of the directory where you had copied the DDJDBCx64Auth05.dll file:


```
jdbc:informatica:sqlserver://LOCALHOST:1433;databaseName=rulepoint61;AuthenticationMethod=ntlm;LoadLibraryPath=E:\\Installs
```
 6. If you configured Windows Services for the RulePoint components during RulePoint installation, perform the following steps to change the access permissions for the services:
 - a. Click **Start**, type `services.msc` in the **Search** box, and then press **Enter**.
 - b. In the **Services** window, right-click **RulePoint Design Time** and select **Properties**.
 - c. In the **Properties** window, click the **Log On** tab.
 - d. Select **This account**, specify the Windows authentication user, and set the password.
 - e. Click **OK**.
 - f. Repeat step b through step e to change the access permissions for the **RulePoint HostAgent** service.

Installing RulePoint in Console Mode

You can install RulePoint in console mode on Windows or Linux.

Note: When you run the installer in console mode, the words `Quit` and `Back` are reserved words. You cannot use the reserved words as input text during installation.

1. Navigate to the root directory where you extracted the installer files.
2. At the command prompt for Windows or on a shell command line for Linux, run the RulePoint executable with the option `-i console`.

- For Windows, enter `Informatica_RulePoint_6.1.2.exe`.
 - For Linux, enter `Informatica_RulePoint_6.1.2.bin`.
3. In the **Introduction** section, press **Enter**.
The **Choose Installation Folder** section appears.
 4. Enter the installation directory in which you want to install the RulePoint application files, and then press **Enter**.
The **Database Configuration Mode** section appears.
 5. Specify the database configuration mode, and then press **Enter**.
 - To run the **Typical** mode and create the required database schemas with the default names, enter **1**.
 - To run the **Custom** mode and use the database schemas that you created, enter **2**.
 The **Design Database Configuration** section appears.
 6. Select the database type in which you want to configure the RulePoint design-time components, and then press **Enter**.
 - Enter **1** to select Oracle.
 - Enter **2** to select IBM DB2.
 - Enter **3** to select Microsoft SQL Server.
 - Enter **4** to select H2.
 7. Enter the user name for the database user account, and then press **Enter**.
 8. Enter the password for the database user account, and then press **Enter**.
 9. Specify an option to use custom JDBC connection string, and then press **Enter**.
 - To use a custom JDBC connection string to enter the JDBC connection information, press **Y**. Enter the connection string and verify that the connection string contains all the connection parameters.
 - If you do not want to use the custom JDBC connection string to enter the JDBC connection information, press **N**, and then enter the database connection information.
The following table describes the connection properties that you specify for the design-time repository:

Property	Description
Database Host	Host name for the database.
Database Port	Port number for the database.
Service Name/SID Name	Service name or SID name of the IBM DB2, Microsoft SQL Server, or Oracle database.
JDBC Parameters	Optional. JDBC parameters to include in the JDBC URL. Optionally, you can specify additional JDBC parameters to include in the JDBC URL.

- Note:** If you select the database type as H2, the host name and port details for the database appear.
10. Press **Enter**.
 11. If the database is H2, go to step 14 to enter the topology configuration details.
 12. In the **Select an Option** section, specify an option to configure the RulePoint run-time database, and then press **Enter** to use the default host name and port number.

- To use the same RulePoint design-time database for RulePoint run-time repository, enter **1**.
 - To use a different database for RulePoint run time, enter **2**, and then specify the database connection information.
13. If you selected custom installation mode, the **Schema Configuration** section appears. Enter the schema names that you configured for the RulePoint design-time and run-time environment, and then press **Enter**.

Note: If you selected **Typical** database configuration mode, the installer creates the RulePoint_Activity and RulePoint_TopologyState schemas in the run-time database.

The **Topology Configuration** section appears.

14. Enter the topology configuration details, and then press **Enter**.

A topology name refers to the group of all the services, nodes, and hosts of the RulePoint run-time environment.

The following table describes the topology configuration details:

Property	Description
Topology Name	Name for the topology. The default topology name is Default.
Topology Host IP	IP address of the server where you install RulePoint.
Tomcat Port	HTTP port number of the Tomcat server. Default is 8080.

15. Perform the following steps to configure the connection details for the RulePoint design-time environment:
- a. Specify whether you want to set up a secure connection for the RulePoint design-time environment:
- The following table describes the options available to create or disable a secure connection to the RulePoint design environment:

Option	Description
Y - Enable HTTPS for RulePoint Design	Set up a secure connection to RulePoint design-time environment.
N - Disable HTTPS	Do not set up a secure connection to RulePoint design-time environment.

- b. If you are enabling HTTPS, enter the configuration details, and then press **Enter**.

The following table describes the HTTPS connection information that you must enter if you enable HTTPS:

Option	Description
Port	Port number for the HTTPS connection. Default is 8443.
Keystore file	File that stores the SSL key for the HTTPS connection. Select the following option to use a keystore file generated by the installer or a keystore file that you create: 1 - Use a keystore generated by the installer. 2 - Use an existing keystore.

- c. If you use an existing keystore, enter the password and location of the keystore file.

The **Notification Settings** section appears.

16. Specify the email notification configuration option, and then press **Enter**.

- To configure email notifications, enter **1**, and then configure email notification settings.

The following table describes the email notification settings:

Property	Description
SMTP Host	The fully qualified domain name of the SMTP server that you use to send outbound email from RulePoint. For example, mail.mycompany.com
Port	Port number of the SMTP server.
From	Sender email address from which you send outbound email notifications.
To	Email recipient address to which you send email notifications.
Priority	Email messages with the priority that you want to receive. Select one of the following options: 1 - Critical 2 - High 3 - Medium 4 - Low For example, enter 1 to receive email messages that have the priority as critical. When the default node fails, you receive an email alert of critical priority stating that the default node failed.
Verbosity	Verbosity of the email notification. Select one of the following options: 1 - More 2 - Less For example, enter 1 to receive email messages with detailed alert information.
User Name	Optional. The user account name of the SMTP server.
Password	Optional. The user account password of the SMTP server.

- If you do not want to configure email notifications during installation, enter **2**.

The **Pre-installation Summary** section appears.

17. Verify the installation summary and then press **Enter**.
The **Installing** section appears and displays the installation progress.
18. If you are using Windows, perform one of the following tasks when a message prompts you to register Windows services for RulePoint components:
 - If you do not want to register Windows services for RulePoint components, enter **1**.
 - If you want to register Windows services for the RulePoint components, enter **2**.
The RulePoint Design Time and RulePoint Topology services are registered in Windows services. You can use these services to start or stop the RulePoint instances after you complete the installation.
If you selected H2 as the database, the H2 database services are also registered in Windows services. You can use the RulePoint H2 database service from the Windows services to start or stop the H2 database.
19. Press **Enter** to complete the installation and exit the installer.

CHAPTER 4

After You Install RulePoint

This chapter includes the following topics:

- [Set Up the RulePoint Environment Variable, 32](#)
- [Set Up the Library Path Environment Variable, 32](#)
- [Install the License Key, 32](#)

Set Up the RulePoint Environment Variable

Before you start Rulepoint, create the RULEPOINT_HOME environment variable. Set the RULEPOINT_HOME variable to point to the location of the RulePoint 6.1.2 installation folder.

The default location of the RulePoint installation directory is as follows:

- Windows: C:\RulePoint_6.1.2
- Linux: <RulePoint installation directory>/RulePoint_6.1.2

Set Up the Library Path Environment Variable

If you installed RulePoint on Linux, and if you have both the 32-bit and 64-bit libstdc++ on the machine, ensure that you include libstdc++ 64-bit in the LD_LIBRARY_PATH variable.

Install the License Key

Copy the license.dat file to the following location:

<RulePoint installation directory>\conf

The default location of the RulePoint installation folder on Windows is C:\RulePoint_6.1.2. The default location of the RulePoint installation folder on Linux is /userhome/RulePoint_6.1.2.

CHAPTER 5

Start RulePoint

This chapter includes the following topics:

- [Start RulePoint Overview, 33](#)
- [Start and Stop the Database, 33](#)
- [Start and Stop RulePoint Instances, 34](#)
- [Logging In to RulePoint, 36](#)
- [Validating the RulePoint Installation, 37](#)

Start RulePoint Overview

After you successfully install RulePoint, you need to start each RulePoint instance before you log in to the RulePoint user interface. The default topology created during installation consists of a single host and node, which hosts the application and system services.

To start a default topology, you must start the RulePoint instances in the following order:

1. Host agent
2. Topology
3. Design-time

Start and Stop the Database

Before you start the RulePoint instances, you need to start the database.

If the database is H2, you need to start the database from the Control Panel using Windows services or from the command prompt.

Starting and Stopping the H2 Database on Linux

On Linux, you can run `startDB.sh` and `stopDB.sh` to start and stop the H2 database.

1. Go to the directory where the `startDB.sh` file is located.

Note: By default, RulePoint installs the `startDB.sh` file in the `/userhome/RulePoint_6.1.2/bin` directory.

2. Run the following command to start the H2 database:

```
startDB.sh
```

For example, `/userhome/RulePoint_6.1.2/bin>startDB.sh`

Run the following command to stop the H2 database:

```
stopDB.sh
```

For example, `/userhome/RulePoint_6.1.2/bin>stopDB.sh`

Start and Stop the H2 Database on Windows

You can use the Windows Services in the Control Panel or a command prompt to start or stop the H2 database.

Starting and Stopping the H2 Database from the Control Panel

You can use Windows Services in the Control Panel to start or stop the H2 database if you registered for Windows services while installing RulePoint.

1. Click **Start > Control Panel > System and Security > Administrative Tools**, and then double-click **Services**.
2. Under the **Name** column, right-click **RulePoint H2 DB**, and then click **Start**.
To stop the H2 database, right-click **RulePoint H2 DB**, and then click **Stop**.

Starting and Stopping the H2 Database from a Command Prompt

You can run the `startDB.bat` and `stopDB.bat` commands on Windows to start or stop the H2 database.

1. From the Windows command prompt, go to the directory where the `startDB.bat` file is located.

Note: By default, RulePoint installs the `startDB.bat` file in the `<RulePoint installation Directory>/bin` directory.

2. Enter the following command to start the H2 database:

```
startDB.bat
```

For example, `c:\RulePoint_6.1.2\bin>startDB.bat`

Enter the following command to stop the H2 database:

```
stopDB.bat
```

For example, `c:\RulePoint_6.1.2\bin>stopDB.bat`

Start and Stop RulePoint Instances

Before you log in to RulePoint, you need to start the RulePoint instances.

To start RulePoint, you first start the RulePoint host agent instance, the RulePoint topology instance, and then start the RulePoint design-time instance. You can start or stop the RulePoint instances using Windows services or from the command prompt on Windows or Linux.

Ensure that you start the design-time and run-time databases before you start the RulePoint instances.

Starting and Stopping RulePoint on Linux

On Linux, run `startHostAgent.sh`, `topology.sh`, and `design.sh` to start the RulePoint instances.

1. Enter the following command to start the RulePoint host-agent instance:

```
startHostAgent.sh -h <ip_address> -p <port_number>
```

For example, `/userhome/RulePoint_6.1.2/bin>startHostAgent.sh -h 10.10.10.10 -p 19000`

Enter the following command to stop the RulePoint host-agent instance:

```
stopHostAgent.sh -h <ip_address> -p <port_number>
```

For example, `/userhome/RulePoint_6.1.2/bin>stopHostAgent.sh -h 10.10.10.10 -p 19000`

2. Perform the following steps to start the RulePoint topology instance:

- a. Clear the `\tmp` directory.

- b. Enter the following command to start the RulePoint topology instance:

```
topology.sh start <TopologyName>
```

For example, `/userhome/RulePoint_6.1.2/bin>topology.sh start Default`

Enter the following command to stop the RulePoint topology instance:

```
topology.sh shutdown <TopologyName>
```

For example, `/userhome/RulePoint_6.1.2/bin>topology.sh shutdown Default`

3. Enter the following command to start the RulePoint design-time instance:

```
design.sh start
```

For example, `/userhome/RulePoint_6.1.2/bin>design.sh start`

Enter the following command to stop the RulePoint design-time instance:

```
design.sh stop
```

For example, `/userhome/RulePoint_6.1.2/bin>design.sh stop`

Start and Stop RulePoint on Windows

You can use Windows Services in the Control Panel or a command prompt to start or stop the RulePoint instances.

Starting and Stopping RulePoint from the Control Panel

If you registered for Windows services while installing RulePoint, you can use the Windows Services to start or stop the RulePoint instances.

1. To start the RulePoint host-agent instance, right-click the **RulePoint HostAgent** service in the **Services** window, and select **Start**.

To stop the host-agent instance, right-click the **RulePoint HostAgent** service, and select **Stop**.

2. Start the RulePoint topology instance.

- a. Click **Start > Control Panel > System and Security > Administrative Tools**, and then double-click **Services**.

- b. In the **Services** window, right-click the **RulePoint Topology** service, and select **Start**.

To stop the topology instance, right-click the **RulePoint Topology** service, and select **Stop**.

3. To start the RulePoint design-time instance, right-click the **RulePoint Design Time** service in the **Services** window, and select **Start**.

To stop the design-time instance, right-click the **RulePoint Design Time** service, and select **Stop**.

Starting and Stopping RulePoint from a Command Prompt

You can run startHostAgent.bat, topology.bat, and design.bat from the command line to start the RulePoint instances.

1. Enter the following command to start the RulePoint host-agent instance:

```
startHostAgent.bat
```

For example, c:\RulePoint_6.1.2\bin>startHostAgent.bat -h 10.10.10.10 -p 19000

Enter the following command to stop the RulePoint host-agent instance:

```
stopHostAgent.bat
```

For example, c:\RulePoint_6.1.2\bin>stopHostAgent.bat -h 10.10.10.10 -p 19000

2. Start the RulePoint topology instance.

- a. Clear the \temp directory.

- b. Enter the following command to start the RulePoint topology instance:

```
topology.bat start <TopologyName>
```

For example, c:\RulePoint_6.1.2\bin>topology.bat start Default

Enter the following command to stop the RulePoint topology instance:

```
topology.bat shutdown <TopologyName>
```

For example, c:\RulePoint_6.1.2\bin>topology.bat shutdown Default

3. Enter the following command to start the RulePoint design-time instance:

```
design.bat start
```

For example, c:\RulePoint_6.1.2\bin>design.bat start

Enter the following command to stop the RulePoint design-time instance:

```
design.bat stop
```

For example, c:\RulePoint_6.1.2\bin>design.bat stop

Logging In to RulePoint

Ensure that the RulePoint instances are running before you log in to the RulePoint user interface.

1. Start a web browser.

2. In the **Address** field, enter the URL for the RulePoint user interface:

- If the RulePoint installation is not configured to use a secured connection, enter the following URL:

```
http://host:port/rulepoint
```

Where:

- **host** refers to the host name, the fully qualified domain name, or the IP address of the machine on which you install RulePoint.

- **port** refers to the HTTP port number of the Tomcat server. The default port number is 8080.

For example, http://10.10.10.10:8080/rulepoint

- If the RulePoint installation is configured to use a secured connection, enter the following URL:

```
https://host:port/rulepoint
```

The RulePoint login page appears.

3. Enter the RulePoint login credentials.

By default, the user name is Administrator and the password is Administrator1.

Note: Ensure that you change the password immediately after you log in.

4. Click **Log In**.

The **Informatica RulePoint** home page appears.

Validating the RulePoint Installation

After you start RulePoint, you can log in to the RulePoint user interface and view the status of the run-time components and verify whether the Java processes for the design-time environment and the grid manager are running.

1. Log in to RulePoint as an administrator and then verify the status of the following components on the **Dashboard** tab:

- Source controller
- Event processor
- Responder controller

2. On the **Administration** tab of the RulePoint user interface, click **Topology** and then verify whether the following run-time components and their corresponding port numbers appear:

Host

The machine where you installed RulePoint hosts the run-time components. The default port number of the host machine is 19000.

Node

The node runs the application services. The default port number of the node is 19020.

Grid Manager

The grid manager manages the RulePoint runtime. The default port number of the grid manager is 19010.

3. Verify that the following processes are running on the machine where you installed RulePoint:
 - Java process for design time
 - Java process for grid manager that runs on the corresponding host and associates with port 19010
4. On the **Rules** view of the **Design** tab, create an advanced rule, and then verify whether you can see the **View Samples** link. When you click **View Samples**, you can view the DRQL samples. You can get started by creating a project and using the DRQL samples in the advanced rule.

CHAPTER 6

Upgrade RulePoint

This chapter includes the following topics:

- [Upgrade RulePoint Overview, 38](#)
- [Upgrade Process, 38](#)
- [Step 1. Decommission the Topology and Schemas, 39](#)
- [Step 2. Run the RulePoint Installer, 40](#)
- [After You Upgrade, 41](#)

Upgrade RulePoint Overview

You can upgrade RulePoint on both Windows and Linux.

When you upgrade RulePoint, you specify the directory that contains the previous version. The installer backs up the previous version of RulePoint and the RTAM applications in the `<RulePoint installation directory>/backup` directory before the upgrade.

The installer then updates the existing configuration to the latest version.

Upgrade Process

If you want to upgrade from RulePoint version 6.1 to version 6.1.2, you must first apply the RulePoint version 6.1.1 patch, and then run the RulePoint 6.1.2 installer.

To upgrade from RulePoint version 6.1.1 to 6.1.2, perform the following tasks:

1. Decommission the topology instance and schemas.
2. Run the RulePoint 6.1.2 installer.

Step 1. Decommission the Topology and Schemas

Before you upgrade from RulePoint version 6.1.1 to version 6.1.2, you need to decommission the topology instance and the schemas to prepare for the installation.

1. Decommission the topology instance.

- On Windows command prompt, run the following command from the <RulePoint installation directory>/bin directory:

```
topology.bat decommission <Topology_Name>
```

For example, c:\RulePoint_6.1.1\bin>topology.bat decommission Default

- On Linux, run the following command:

```
topology.sh decommission <Topology_Name>
```

For example, /userhome/RulePoint_6.1.1/bin>topology.sh decommission Default

2. Stop the RulePoint host-agent instance.

- On Windows command prompt, run the following command from the <RulePoint installation directory>/bin directory:

```
stopHostAgent.bat -h <host_ip_address> -p <port_number>
```

For example, c:\RulePoint_6.1.1\bin>stopHostAgent.bat -h 10.10.10.10 -p 19000

- On Linux, run the following command:

```
stopHostAgent.sh -h <host_ip_address> -p <port_number>
```

For example, /userhome/RulePoint_6.1.1/bin>stopHostAgent.sh -h 10.10.10.10 -p 19000

3. Stop the RulePoint design-time instance.

- On Windows command prompt, run the following command from the <RulePoint installation directory>/bin directory:

```
design.bat stop
```

For example, c:\RulePoint_6.1.1\bin>design.bat stop

- On Linux, run the following command:

```
design.sh stop
```

For example, /userhome/RulePoint_6.1.1/bin>design.sh stop

4. Run the following SQL commands to decommission the RulePoint schemas:

```
delete from RULEPOINT_ACTIVITY.T_AM_ARTIFACT; delete from
RULEPOINT_ACTIVITY.T_AM_ARTIFACT_HISTORY;
delete from RULEPOINT_ACTIVITY.T_AM_EVENT; delete from
RULEPOINT_ACTIVITY.T_AM_RESPONSE_EXECUTION_STATS;
delete from RULEPOINT_ACTIVITY.T_AM_RULE_EXECUTION_STATS;
delete from RULEPOINT_ACTIVITY.T_AM_RULE_TRACE;
delete from RULEPOINT_ACTIVITY.T_AM_SOURCE_EXECUTION_STATS;
delete from RULEPOINT_ACTIVITY.T_AM_TOPIC_STATS;
```

```
delete from RulePoint_Design.DEPLOYPLAN_GROUPNAMES;
delete from RulePoint_Design.DeploymentPlan; update RulePoint_Design.Artifact SET
deployState = 0;
```

```
delete from RulePoint_TopologyState.HA_SOURCE_STATE;
delete from RulePoint_TopologyState.MARKER_SOURCE_STATE;
delete from RulePoint_TopologyState.T_RPSERVER_DEPLOYMENT_PACKAGE;
delete from RulePoint_TopologyState.T_RPSERVER_DEPLOY_SEQUENCE;
delete from RulePoint_TopologyState.T_RPSERVER_FAILOVER;
delete from RulePoint_TopologyState.T_RPSERVER_ARTIFACT_DEPLOY_LOC;
delete from RulePoint_TopologyState.T_RPSERVER_ARTIFACT_REFERENCES;
```

```

delete from RulePoint_TopologyState.T_RPSERVER_ARTIFACT;
delete from RulePoint_TopologyState.T_RPSERVER_ARTIFACT_SHADOW;
delete from RulePoint_TopologyState.T_RPSERVER_CONTROLLERS;
delete from RulePoint_TopologyState.T_RPSERVER_GROUP_DETAILS;
delete from RulePoint_TopologyState.T_RPSERVER_LEADER;
delete from RulePoint_TopologyState.T_RPSERVER_CEPEU;
delete from RulePoint_TopologyState.T_RPSERVER_UM_LBMRD;
delete from RulePoint_TopologyState.T_RPSERVER_UM_STORES;
delete from RulePoint_TopologyState.T_RPSERVER_SERVERS;
delete from RulePoint_TopologyState.T_RPSERVER_NODE;
delete from RulePoint_TopologyState.T_RPSERVER_TOPOLOGY;
delete from RulePoint_TopologyState.HA_ENGINE_STATE;

```

5. Delete the following folders from the RulePoint 6.1.1 installation directory:

- stored.Default_UM-Store
- lbmrd.Default_UM-Lbmrdr
- nodeagent_*
- logs
- felixcache_*

Step 2. Run the RulePoint Installer

You can run the RulePoint 6.1.2 installer in graphical mode or console mode on Windows and Linux.

Before you run the RulePoint installer, ensure that you have completed the following tasks:

- If you are upgrading from RulePoint version 6.1, you need to apply the RulePoint version 6.1.1 patch.
- Set the environment variable RULEPOINT_HOME to the location of the RulePoint 6.1.2 installation directory.

Upgrading RulePoint in Graphical Mode

1. Run the RulePoint installer based on the operating system on which you want to install RulePoint.
 - To install RulePoint on Windows, run the latest `Informatica_RulePoint_version_number.exe` file from the root directory.
 - To install RulePoint on Linux, from the command line, run the latest `Informatica_RulePoint_version_number.bin -i gui` command from the root directory.
2. In the **Introduction** page, click **Next**.
The **Choose Installation Folder** page appears.
3. Select the installation directory in which you have installed the older version of RulePoint and click **Next**.
The following table shows the default location of the installation directory:

Operating System	File Path
Windows	C:\RulePoint_version_number
Linux	/userhome/RulePoint_version_number

The **Installation Mode** page appears and displays that the older version of the RulePoint installation will be upgraded to the latest version.

4. In the **Design Database Configuration** page, provide the database password, and click **Next**.
The **Pre-installation Summary** page appears.
5. Verify the preinstallation summary, and then click **Install**.
The **Installing RulePoint <version_number>** page appears and displays the installation progress.
6. Click **Done** to complete the installation procedure, and then exit the installer.

Upgrading RulePoint in Console Mode

1. Navigate to the root directory of the extracted installer files.
2. At the command prompt for Windows or on a shell command line for Linux, run the RulePoint version with the option `-i console`.
 - For Windows, enter `Informatica_RulePoint_version_number.exe -i console`
 - For Linux, enter `Informatica_RulePoint_version_number.bin -i console`
3. In the **Introduction** section, press **Enter**.
The **Choose Installation Folder** section appears.
4. Enter the installation directory in which you have installed the older version of the RulePoint application files, and then press **Enter**.
The **Installation Mode** section appears and informs that the older version of the RulePoint installation will be upgraded to the latest version.
5. In the **Design Database Configuration** page, provide the database password, and press **Enter**.
The **Pre-installation Summary** section appears.
6. Verify the pre-installation summary, and then press **Enter**.
The **Installing RulePoint <version>** section appears and displays the installation progress.
7. Press **Enter** to complete the installation and exit the installer.

After You Upgrade

Perform the following tasks if the version that you upgraded RulePoint from is a single-host and single-node default setup:

1. Start the host agent.
 - To start the host agent on Windows, run the `startHostAgent -h <ip_address> -p <port_number>` command.
For example, `c:\RulePoint_6.1.2\bin>startHostAgent -h 10.10.10.10 -p 19000`
 - To start the host agent on Linux, run the `startHostAgent.sh -h <ip_address> -p <port_number>` command.
For example, `/userhome/RulePoint_6.1.2/bin/startHostAgent.sh -h 10.10.10.10 -p 19000`

2. Start the topology.
 - To start the topology on Windows, run the `topology.bat start <TopologyName>` command.
For example, `c:\RulePoint_6.1.2\bin>topology.bat start Default`
 - To start the topology on Linux, run the `topology.sh start <TopologyName>` command.
For example, `/userhome/RulePoint_6.1.2/bin/topology.sh start Default`
3. Start the design time.
 - To run the design time on Windows, enter the `design.bat start` command.
For example, `c:\RulePoint_6.1.2\bin>design.bat start`
 - To run the design time on Linux, enter the `design.sh start` command.
For example, `/userhome/RulePoint_6.1.2/bin>design.sh start`
4. Verify that the following processes are running on the machine on which you upgraded RulePoint:
 - Java process for design time.
 - Java process for grid manager that runs on the corresponding host and associates with port 19010.
5. If the database is H2, perform the following tasks:
 - a. Shut down the H2 database.
 - To shut down the H2 database on Windows, run the `stopDB.bat` command.
For example, `c:\RulePoint_6.1.2\bin\stopDB.bat`
 - To shut down the H2 database on Linux, run the `stopDB.sh` command.
For example, `/userhome/RulePoint_6.1.2/bin/stopDB.sh`
 - b. Delete the `lib` folder located at `<RulePoint installation directory>`
 - c. Copy the `lib` folder from `<installer files directory>/bin/packs/RulePoint_6.1.2.zip` to `<RulePoint installation directory>`
 - d. Copy `h2-1.4.181.jar` from `<installer files directory>/bin/common/drivers` to the following locations:
 - `<RulePoint installation directory>/lib`
 - `<RulePoint installation directory>/design/webapps/rulepoint/WEB-INF/lib`
 - `<RulePoint installation directory>/design/webapps/RTAM/WEB-INF/lib`
 - e. If you have changed the `um.multicast.interface` property value in the `rtam-config.properties` file located at `<RulePoint installation directory>/design/webapps/RTAM/WEB-INF/classes` before the upgrade, you must manually update the value in the property after the upgrade.
 - f. Restart the H2 database.
 - To start the H2 database on Windows, run the `startDB.bat` command.
For example, `c:\RulePoint_6.1.2\bin\startDB.bat`
 - To start the H2 database on Linux, run the `startDB.sh` command.
For example, `/userhome/RulePoint_6.1.2/bin/startDB.sh`

APPENDIX A

Switch from SQL Database Server Authentication Mode to Windows Authentication Mode

This appendix includes the following topics:

- [Switch from SQL Database Server Authentication Mode to Windows Authentication Mode Overview, 43](#)
- [Switching to Windows Authentication Mode, 43](#)

Switch from SQL Database Server Authentication Mode to Windows Authentication Mode Overview

If the RulePoint installation is configured for the Microsoft SQL database server authentication mode, you can change the authentication mode to Windows authentication mode.

Switching to Windows Authentication Mode

You need to change the RulePoint installation settings to switch from the Microsoft SQL database server authentication mode to the Windows authentication mode.

1. Copy the `DDJDBCx64Auth05.dll` file from the `<installer files directory>\bin\common\ddl` directory to any location, such as `E:\\Installs`.

Note: The absolute path to this location, such as `E:\\Installs`, must be available whenever RulePoint is running.

2. Create a directory named `endorsed` in the following locations:

- `<RulePoint installation directory>/design`
- `<RulePoint installation directory>/system/java/lib`

3. Copy `dwsqlserver.jar` from `<RulePoint installation directory>/design/webapps/rulepoint/web-inf/lib` and save the file in the following locations:
 - `<RulePoint installation directory>/design/endorsed`
 - `<RulePoint installation directory>/system/java/lib/endorsed`
4. Delete `dwsqlserver.jar` from the following locations:
 - `<RulePoint installation directory>/design/webapps/rulepoint/web-inf/lib`
 - `<RulePoint installation directory>/design/webapps/RTAM/web-inf/lib`
 - `<RulePoint installation directory>/lib`
5. Update the database URL for Windows authentication mode in the following files:
 - `cs.properties` and `rpagent.properties` located at `<RulePoint installation directory>\conf`
 - `cs.properties`, `jdbc.dashboard.properties`, and `jdbc.properties` located at `<RulePoint installation directory>\design\webapps\RTAM\WEB-INF\classes`
 - `cs.properties` and `rtam-config.properties` located at `<RulePoint installation directory>\design\webapps\RTAM\WEB-INF\classes`

Use the following format to update the database URL for Windows authentication mode:

```
jdbc:informatica:sqlserver://
<HOST>:<PORT>;DatabaseName=<DATABASE_NAME>;AuthenticationMethod=ntlm;LoadLibraryPath=<DLL
_PATH>;
```

Where, `<DLL_PATH>` is the absolute path where the `DDJDBCx64Auth05.dll` file was copied.

For example, `jdbc:informatica:sqlserver://`
`invr28cep64:1433;databaseName=rp_dbase;AuthenticationMethod=ntlm;LoadLibraryPath=E:\`
`\Installs`

6. Update the RulePoint topology to include the appropriate database URL:
 - a. Log in to RulePoint.
 - b. Navigate to **Administration > Topology**.
 - c. Select **Topology** from the tree in the left pane, and then select **Edit Topology**.
 The **Edit Topology** window appears.
 - d. In the **Properties** section, update the database URL in the `jdbcString` property.
Note: To update the database URL in the `jdbcString` property, you need to use the database URL that you defined in the `.properties` files in step 5.
 - e. Click **Save** to save the updated database URL.
7. If you have configured Windows Services for the RulePoint components, perform the following steps to change the access permissions for the services:
 - a. Click **Start**, type `services.msc` in the **Search** box, and then press **Enter**.
 - b. In the **Services** window, right-click **RulePoint Design Time** and select **Properties**.
 - c. In the **Properties** window, click the **Log On** tab.
 - d. Select **This account**, specify the Windows authentication user, and set the password.
 - e. Click **OK**.
 - f. Repeat step b through step e to change the access permissions for the **RulePoint HostAgent** service.

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