



Informatica® RulePoint  
6.1

# 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 RulePoint Installation

This chapter includes the following topics:

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

## RulePoint Installation Overview

You can install RulePoint in graphical or console mode on Windows and UNIX.

You can install RulePoint from a DVD or from the root of the directory where you download the installation files.

The RulePoint installation consists of the following core components:

### **Design time**

Use the RulePoint design time to author RulePoint components, configure run-time components, administer run-time components, and deploy RulePoint components from design time to run time.

### **Run time**

Use the RulePoint run-time infrastructure to deploy and process the RulePoint design-time components. When you install RulePoint, the run-time environment is set up with a topology unit by default. The topology unit runs all the components on a single physical host.

After you install the RulePoint design-time components and run-time components, start the RulePoint instances. You can log in to the RulePoint user interface to validate the installation.

## Installation Tasks

To install RulePoint, complete the following tasks:

1. Complete the pre-installation tasks. Verify if the system meets the installation requirements and you can successfully run the installer.
2. Set up the X Window Server.



3. Make sure that you clear the tables and schemas if they already exist from earlier RulePoint installations.
4. Consider whether you want to use the custom or the typical installation mode:
  - If you want to use the default schemas created during RulePoint installation, use the typical installation mode. In a typical installation, configure the RulePoint database user and provide the database administrator privileges to this user.
  - If you want to configure custom schemas and use those schemas, use the custom installation mode. In a custom installation, configure the RulePoint database user, create the database schemas, create the database tables under each schema, and provide the appropriate privileges to the schema users.
5. Install RulePoint. Consider whether you want to use the graphical or console mode of installation. Run the installer on Windows or UNIX, based on the operating system you want to use.
6. Start the topology and design-time instances.

**Note:** If you want to configure RulePoint on more than one host, complete the installation on one host, and then copy the RulePoint installation directory to the subsequent host. After you configure the host in the RulePoint topology, you must start the host agent, topology, and design-time instances on one or more hosts. You cannot install multiple instances of RulePoint on the same host machine.

## CHAPTER 2

# RulePoint Pre-Installation Tasks

This chapter includes the following topics:

- [Verify the System Requirements, 10](#)
- [Configure Database Schemas, 11](#)
- [Set Up the X Window Server, 15](#)

## Verify the System Requirements

Before you install RulePoint, ensure to meet the minimum system requirements to install and run the RulePoint installer.

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

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

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>

## System User Permissions

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

## Temporary Disk Space Requirements

The installer writes temporary files to the hard disk. The user must have write access to the /tmp directory.

Verify that the /tmp directory has at least 200 MB of disk space.

## Database Size Requirements

Before you start the installation process, verify that the database has the required disk space based on your requirements.

The RulePoint installation alone will require 1 GB free space. Other disk space requirements depend 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 50 GB.

The disc usage for the database schemas of RulePoint components differs based on the sample sizes. The following table describes the disk space usage based on a sample sizing:

Schema	Disk Usage
Design time (RulePoint_Design)	225 MB for 500 objects.
Run time (RulePoint_TopologyState, RulePoint_Topology)	351 MB for 500 objects.
Activity Manager (RulePoint_Activity)	22 GB for 2 M events processed using 500 rules, and with a Hit Ratio of 10%.
RTAM (RulePoint_RTAM)	15 GB for 300 K RTAM responses.

You can minimise the disk requirement on the database. Consider the following tasks:

- Schedule a purge every 24 hours, or manually purge the data to clean up the growing volume of data in the Activity Manager.
- Event and response tracing is enabled by default. Turn off event tracing and response tracing to minimize the disk requirement.

Refer to the Sizing Guide for specific hardware requirements for your use case, or contact Informatica Global Customer Support.

## Configure Database Schemas

By default, the RulePoint installer creates the schemas during a typical installation. You can, however, configure custom schemas and specify the schema names if you choose the custom installation mode.

If you choose a typical installation, the RulePoint installer creates the following schemas during installation:

### Design schema

Stores details of design metadata of application projects, objects, and security configurations. The default schema name: 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.

## Drop Database Schemas

If you are installing RulePoint for the first time, you do not have to drop the schemas. If schemas exist from a previous RulePoint installation or if your installation fails, you need to drop the schemas before you install RulePoint. If you install RulePoint to upgrade the previous version of RulePoint, you do not have to drop the schemas

Drop the following default schemas or the schemas from the design-time database:

- RulePoint\_Design
- RulePoint\_RTAM
- RulePoint\_Topology

If the following default schemas or the schemas that you specified during the previous RulePoint installation exist in the run-time database, drop the schemas from the database before you install RulePoint:

- RulePoint\_Activity
- RulePoint\_TopologyState

### Dropping Tables from a Database

To drop existing tables from a database, such as Oracle, complete the following steps:

1. Navigate to the following location:  
`<INSTALLER_HOME>\resources\db\<schema_name>\oracle`
2. Run the following script to drop the database tables:  
`drop_tables.sql`
3. Repeat the steps to drop tables for all schemas.

### Dropping Schemas from a Database

1. Connect to the database as a database administrative user, and provide the password for the database administrative user.
2. To drop users from a database, for example, Oracle, run the following script:

```
drop user RulePoint_Design CASCADE;
drop user RulePoint_RTAM CASCADE;
drop user RulePoint_Topology CASCADE;
drop user RulePoint_Activity CASCADE;
drop user RulePoint_TopologyState CASCADE;
commit;
```

## Prerequisites for Typical RulePoint Installation

Choose the typical installation mode if you want the RulePoint installer to create the default schemas at the time of installation. Configure the RulePoint database user and provide the database administrator privileges to this user.

The default schema users are created with the same password as that of the database user used during installation. For example, if the database administrator user used during installation in Oracle is rulepoint and the password is rulepoint, the installer creates the six schemas with the same password, rulepoint. You can change the default password for the database user and the schemas, if required.

## Prerequisites for Custom RulePoint Installation

If you do not want to use the default schema names, you must choose the custom installation mode. You need to configure the database schemas and provide the necessary privileges.

### Configure Schemas in Oracle

1. Launch SQL\*Plus, log in as the database administrator user, and perform the rest of the tasks as an administrative user.
2. To create the RulePoint database user and the required schemas, perform the following tasks:
  - a. Navigate to the following directory:  
`[INSTALLER_HOME]\resources\db\schema_creation\oracle`
  - b. Edit the `create_users_ddl.sql` script. Provide the RulePoint user name, password, and schema name in the script.
  - c. Run `create_users_ddl.sql`.
3. To configure the schemas, perform the following tasks for each of the RulePoint schemas:
  - a. Navigate to the following directory:  
`<INSTALLER_HOME>\resources\db\schema_configuration\<schema_name>\oracle`  
where `schema_name` is 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. Perform the following steps for each of the RulePoint schemas:
  - a. Navigate to the following location:  
`<INSTALLER_HOME>\resources\db\<schema_name>\oracle`  
where `schema_name` is the Design, Topology, RTAM, Topology State, or Activity schema name.
  - 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 directory:  
`[INSTALLER_HOME]\Windows\resources\db\schema_permissions\oracle`
  - b. In the `grant_permissions_ddl.sql` script, replace `rp_user` with the RulePoint user.
  - c. Replace the default schema names with the corresponding schema names that you created.
  - d. Run the `grant_permissions_ddl.sql` script.

## Configure Schemas in IBM DB2

1. Launch DB2 Command Line Processor, log in as the database administrator user, and perform the rest of the tasks as an administrative user.
2. To create the required schemas, perform the following tasks:
  - a. Navigate to the following directory:  
`[INSTALLER_HOME]\resources\db\schema_creation\db2`
  - b. Edit the `create_users_ddl.sql` script. Provide the RulePoint user name and the schema names.
  - c. Run `create_users_ddl.sql`.
3. To configure the schemas, perform the following tasks for each RulePoint schema:
  - a. Navigate to the following location:  
`<INSTALLER_HOME>\resources\db\schema_configuration\<schema_name>\db2`  
where `schema_name` is 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 directory:  
`[INSTALLER_HOME]\Windows\resources\db\schema_permissions\db2`
  - b. In the `grant_permissions_ddl.sql` script, replace the `rp_user` with the Rulepoint user.
  - c. Replace the default schema names with the corresponding schema names that you created.
  - d. Run `grant_permissions_ddl.sql`.

## Configure Schemas in Microsoft SQL

1. Launch Microsoft SQL Server Management Studio.
2. Create a database and provide a name for the database.
3. Change the default owner of the database to administrative user.
4. 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 user *rp\_user*.
  - *database name* is the name of the database that you create.
5. To create the RulePoint design time, 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.
- *schemaname* is the name of the RulePoint schema that you want to configure.

6. Perform the following tasks for each of the RulePoint schemas:

a. Click **Open File**, and navigate to the following location:

```
<INSTALLER_HOME>\resources\db\schema_configuration\<schema> sqlserver.
```

where *schema* is the Design, Topology, RTAM, Topology State, or Activity schema.

b. Edit the `tables.sql` script. 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.

**Note:** Repeat steps 6a through 6c for each of the five RulePoint schemas.

## 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	<code>setenv DISPLAY &lt;TCP/IP node of XWindow server&gt;:0</code>	<code>setenv DISPLAY 10.1.50.23:0</code>
Bash/Korn	<code>export DISPLAY="&lt;TCP/IP node of XWindow server&gt;:0"</code>	<code>export DISPLAY="10.1.50.23:0"</code>
Bourne	<code>DISPLAY="&lt;TCP/IP node of XWindow server&gt;:0"</code> <code>export display</code>	<code>DISPLAY="10.1.50.23:0"</code> <code>export display</code>

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:

- [Installing RulePoint in Graphical Mode, 16](#)
- [Installing RulePoint in Console Mode, 19](#)
- [Configuring RulePoint on Multiple Hosts, 23](#)

## Installing RulePoint in Graphical Mode

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

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_6.2.exe` file from the root directory.
  - To install RulePoint on Linux, Solaris, or AIX, from a shell command line, run the `Informatica_RulePoint_6.2.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_6.2
Linux, Solaris, AIX	/userhome/RulePoint_6.2

4. Click **Next**.  
The **Database Configuration Mode** page appears.
5. Specify the database configuration mode:
  - If you want to use the default database schemas that the RulePoint installer creates, select **Typical**.
  - If you want to use the database schemas that you created, select **Custom**.The **Design Database Configuration** page appears.



6. Select the database type from the displayed list:

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

**Note:** Use the H2 option if you want to use the embedded open source database that the RulePoint installer provides. The H2 option appears if you choose Typical as the database configuration mode.

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

You must have database administrator privileges on the repository in which you want to configure the 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. The user must have the database administrator privileges on the database and at least 100 connection sessions to the database.
Database Password	Password for the database user account.
Database Host	Hostname of the database.
Database Port	Port number of the database.
Service Name/SID Name	Service name or SID name for Oracle, IBM DB2, or Microsoft SQL Server 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 Connection String for DataDirect driver	Optional. Connection string to connect to the database. To provide a customized connection string, select this option and enter the custom connection string.

**Note:** If you select the database type as H2, the default hostname and port details for the database are displayed. Click **Next**, and proceed to Step [13](#) to enter the topology configuration details.

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

The success message appears if the connection to the database is successful. If you had selected typical database configuration mode, the installer creates the following schemas in the design-time database:

- RulePoint\_Design
- RulePoint\_RTAM
- RulePoint\_Topology

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

9. Click **Next**.

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

10. To use the same RulePoint design-time database to configure the RulePoint run-time, click **Yes**.  
The **Topology Configuration** page appears. Skip to step [13](#) to enter the topology configuration details.
11. To use another database for the RulePoint run time, click **No**, and then enter the database connection information based on the selected configuration mode:
  - If you selected typical database configuration mode, the installer creates the RulePoint\_Activity and RulePoint\_TopologyState schemas in the run-time database, and the **Topology Configuration** page appears. Skip to [13](#) to enter the topology configuration details.
  - If you selected custom database configuration mode, 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. 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. 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. By default, the port number is 8443.
  - c. Select either 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.

Property	Description
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"> <li>- Critical</li> <li>- High</li> <li>- Medium</li> <li>- Low</li> </ul> For example, select <b>Critical</b> 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"> <li>- More</li> <li>- Less</li> </ul> For example, select <b>Less</b> 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 6.2** page appears and displays the installation progress.

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

- 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 DB service from the Windows services 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 have installed RulePoint on UNIX, and if you have both the 32-bit and 64-bit libstdc++ on your machine, make sure that you include libstdc++ 64-bit in the LD\_LIBRARY\_PATH.

## Installing RulePoint in Console Mode

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

**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 of the extracted 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_6.2.exe`.
  - For Linux, Solaris, or AIX, enter `Informatica_RulePoint_6.2.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.

**Note:** Use the H2 option if you want to use the embedded open source database that the RulePoint installer provides. The H2 option appears if you choose Typical as the database configuration mode.
7. Enter the user name for the database user account, and then press **Enter**. The user must have the database administrator privileges on the database and at least 100 connection sessions to the database.
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.

Property	Description
Service Name/SID Name	Service name or SID name for Oracle, IBM DB2, or Microsoft SQL Server 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 hostname and port details for the database are displayed. Press **Enter**, and proceed to Step [13](#) to enter the topology configuration details.

If you had selected typical database configuration mode, the installer creates the following schemas in the design-time database:

- RulePoint\_Design
- RulePoint\_RTAM
- RulePoint\_Topology

The **Select an Option** section appears.

- Specify an option to configure the RulePoint run-time database, and then press **Enter** to use the default hostname and port number.
  - To use the same RulePoint design-time database for RulePoint run time, enter **1**.
  - To use an another database for RulePoint run time, enter **2**, and then specify the database connection information.
- Perform one of the following tasks based on the selected configuration mode:
  - If you selected typical database configuration mode, the installer creates the RulePoint\_Activity and RulePoint\_TopologyState schemas in the run-time database and the **Topology Configuration** section appears. Skip to [13](#) to enter the topology configuration details.
  - If you selected custom database configuration mode, the **Schema Configuration** section appears. Proceed to the next step.
- Enter the schema names that you configured for RulePoint run time, and then press **Enter**.  
The **Topology Configuration** section appears.
- 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. 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. The default port number is 8080.

- Specify the connection details to the RulePoint design.
  - Select whether to set up a secure connection for the RulePoint design time:

The following table describes the options available to create or disable a secure connection to RulePoint Design:

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

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

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

Option	Description
Port	Port number for the HTTPS connection.
Keystore file	Select the following option to use a keystore file generated by the installer or a keystore file 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.

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

- To configure email notifications, enter **1**, and then configure email notification settings.  
The following tables 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 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: 1 - Critical 2 - High 3 - Medium 4 - Low  For example, enter <b>1</b> 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: 1 - More 2 - Less  For example, enter <b>1</b> 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.

16. Verify the installation summary and then press **Enter**.

The **Installing** section appears and displays the installation progress.

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

- If you want to register Windows services for the RulePoint components, enter **2**.  
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 DB service from the Windows services to start or stop the H2 database.

- If you do not want to register Windows services for RulePoint components, enter **1**.

18. Press **Enter** to complete the installation and exit the installer.

**Note:** If you have installed RulePoint on UNIX, and if you have both the 32-bit and 64-bit libstdc++ on your machine, make sure that you include libstdc++ 64-bit in the LD\_LIBRARY\_PATH.

## Configuring RulePoint on Multiple Hosts

The RulePoint topology can consist of multiple hosts. You can install RulePoint on multiple hosts.

Consider the following options to install RulePoint on multiple hosts:

- If you have a shared file system that is accessible to all the physical hosts, install RulePoint on the shared file system.

- Install RulePoint on a host and then copy the RulePoint installation directory to the subsequent hosts. For example, if the RulePoint installation directory on a host in Windows is `C:\RulePoint_6.2`, copy the `RulePoint_6.2` directory to all other subsequent hosts. On Linux, copy the `RulePoint_6.2` directory from `/home/RulePoint_6.2` to all the other hosts.

**Note:** After you copy the RulePoint installation directory to subsequent hosts, do not run the installer to install on the subsequent hosts.

- If you have configured custom services, you need to copy the libraries into the custom service directories of all the hosts in the topology. If the secondary host does not have the custom libraries when there is a failover of primary host to the secondary host, the objects that were deployed for the service in the primary host will fail to run in the secondary host.



## CHAPTER 4

# Upgrading RulePoint

This chapter includes the following topics:

- [Upgrading RulePoint Overview, 25](#)
- [Pre-Upgrade Tasks, 25](#)
- [Upgrade RulePoint in Graphical Mode, 26](#)
- [Upgrade RulePoint in Console Mode, 27](#)
- [Upgrade RulePoint on Multiple Hosts, 27](#)

## Upgrading RulePoint Overview

You can upgrade RulePoint versions starting from 6.0 to 6.1 in both Windows and UNIX.

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_HOME/backup` directory before the upgrade. The installer then updates the existing configuration to the latest version.

## Pre-Upgrade Tasks

Before you start the upgrade, perform the following tasks:

1. If the selected installation mode is Typical, you can continue with the upgrade.
2. If the selected installation mode is Custom, you need to update the database tables and provide the required permissions. To do this, perform the following tasks:
  - a. Launch SQL\*Plus, and log in as the database administrator user.
  - b. To update the database tables, go to `<INSTALLER_HOME>\resources\db\schema_configuration\<schema_name>\db_type` where *schema\_name* is the Design, Topology, RTAM, Topology State, or Activity schema.
  - c. Replace the schema names with the corresponding schema names that you created.
  - d. Run the following script to update the database tables:

```
upgrade_6.0.1_6.1.sql
```

3. To grant the required permissions to the RulePoint database users, perform the following tasks:
  - a. Navigate to the following directory:  
`[INSTALLER_HOME]\Windows\resources\db\schema_permissions\oracle`
  - b. In the `grant_permissions_ddl.sql` script, replace `rp_user` with the RulePoint user.
  - c. Replace the default schema names with the corresponding schema names that you created.
  - d. Run the following script:  
`grant_permissions_ddl.sql`
4. You must stop the design-time and the run-time instances.
5. If you have installed Windows services, you must stop the RulePoint Design Time, RulePoint HostAgent, and RulePoint Topology services.

## Upgrade RulePoint in Graphical Mode

You can upgrade RulePoint in graphical mode on Windows or UNIX.

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	<code>C:\RulePoint_version_number</code>
Linux	<code>/home/RulePoint_version_number</code>

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 pre-installation 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.

# Upgrade RulePoint in Console Mode

You can upgrade RulePoint in console mode on Windows or UNIX.

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 displays 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.

# Upgrade RulePoint on Multiple Hosts

If you have installed RulePoint versions 6.0 or 6.0.1 on multiple hosts, perform the following tasks to upgrade RulePoint to the later version:

1. Back up the installation folder of the previous version on the other hosts.
2. Copy the upgraded RulePoint installation folder to the other hosts.

## CHAPTER 5

# Starting RulePoint

This chapter includes the following topics:

- [Starting RulePoint Overview, 28](#)
- [Starting RulePoint Using Windows Services , 29](#)
- [Setting Up RULEPOINT\\_HOME Environment Variable, 30](#)
- [Starting and Stopping the H2 Database, 30](#)
- [Starting and Stopping RulePoint Topology Instance, 31](#)
- [Starting and Stopping RulePoint Design-Time Instance, 32](#)
- [Starting and Stopping the RulePoint Host Agent Instance, 33](#)
- [Setting Up RulePoint in AIX, 34](#)
- [Setting the Ulimit Calculator for UMP Store, 35](#)
- [Logging In to RulePoint, 35](#)
- [Validating the RulePoint Installation, 36](#)
- [Decommissioning the RulePoint System, 37](#)

## Starting RulePoint Overview

After you successfully install RulePoint, you must start each RulePoint instance. The default topology on installing RulePoint consists of a single host and node, which hosts the application and system services.

Use the command prompt or Windows services to start or stop the RulePoint instances.

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

1. Topology
2. Design time

If you scale the default topology by adding more nodes and hosts, you must start the RulePoint instances in the following order:

1. Host agent
2. Topology
3. Design time

If you selected the database as H2 during installation, you need to start the H2 database. You can use the command prompt to start the database. If you register for the Windows services during RulePoint installation on Windows, you can start the RulePoint H2 DB service from the Windows services.

**Note:** If the version that you upgraded RulePoint is from a single host and single node default setup, you must start only the topology and design-time instances. If you perform an upgrade from a multinode topology, you must start the host agent, topology, and design time instances.

## Starting RulePoint Using Windows Services

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

### Starting RulePoint in a Default Topology

For a single node, single host default topology, start the following services from the Windows Explorer in the order specified:

- RulePoint Topology
- RulePoint Design Time

### Starting RulePoint in a Multinode Topology

If you configure a multinode topology on Windows, you must complete the prerequisites for the host agent and the topology before you start the RulePoint services. Complete step 1 and 2, and then start the services in the order specified:

- RulePoint HostAgent
- RulePoint Topology (start as scheduled task)
- RulePoint Design Time

### Step 1. Register the Host Agent Service

After you copy the RulePoint installation folder to the registered host in the topology, manually register the host agent service and then start the host agent service.

1. To register the host agent, perform the following tasks:
  - a. Edit the following code in the `hostagent.xml` file located at `<RULEPOINT_HOME>/bin/services:`

```
<env name="HOST_ADDR" value="ip address"/>
```

Replace the IP address with the IP address of the host machine on which you copied the RulePoint folder.

  - b. To install the RulePoint HostAgent as a service, run the following command as administrator from the command prompt of the host machine:

```
hostagent.exe install
```

  - c. Start RulePoint HostAgent.

### Step 2. Create a Scheduled Task for the Topology Service

Do not use the Windows services to start the topology service when you have multiple hosts configured. You must start the topology on the host where the grid manager is running. If you registered the topology

instance as a Windows service during installation, disable that service. You must instead create a scheduled task for the `topology.bat` file from the Task Scheduler.

1. To create a scheduled task on the scheduled host on which you plan to bring up the topology, perform the following steps:
  - a. In the **Administrator Tools** in Windows, click the **Task Scheduler**, and create a scheduled task for the `topology.bat` file.
  - b. Provide a name for the task.
  - c. In the **Edit Trigger** dialog box, select **On a schedule**, specify the start time, and enable the settings.
  - d. Click **Start a Program**, and click **Next**.
  - e. Provide the following location of the batch file you want to run:  
`<RULEPOINT_HOME>/bin/topology.bat`
  - f. Provide the parameter argument **start <topology name>**.
  - g. Click **Finish** to create the task.

## Setting Up RULEPOINT\_HOME Environment Variable

Before you start the RulePoint instances using the command prompt, create the `RULEPOINT_HOME` environment variable. Set `RULEPOINT_HOME` to the location of the RulePoint installation directory.

The following file path is the default location of the RulePoint installation directory on the supported platforms:

- Windows. `C:\RulePoint_6.2.`
- Linux. `<RulePointInstallationDir>/RulePoint_6.2.`
- Solaris. `<RulePointInstallationDir>/RulePoint_6.2.`
- AIX. `<RulePointInstallationDir>/RulePoint_6.2.`

## Starting and Stopping the H2 Database

During installation, if you select the database type as H2 for the design-time and run-time repository, you need to start the H2 database before you start the RulePoint instances.

### Starting and Stopping the H2 Database on Windows

Use the `startDB.bat` command to start the H2 database on Windows.

**Note:** If you have registered services for H2, you can use the RulePoint H2 DB service from the Windows services to start or stop the database.

RulePoint installs `startDB.bat` in the following directory by default:

`<RULEPOINT_HOME>/bin`

1. Go to the directory where `startDB.bat` is located.

2. Open the command prompt as an administrator or user with all the required permissions. Run the following command to start the H2 database:

```
startDB.bat
```

Enter the following command to stop the H2 database:

```
stopDB.bat
```

## Starting and Stopping the H2 Database on Unix

You can use the `startDB.sh` command to start the H2 database on Unix.

**Note:** If you have registered services for H2, you can use the RulePoint H2 DB service from the Windows services to start or stop the database.

RulePoint installs `startDB.sh` in the following directory by default:

```
<RULEPOINT_HOME>/bin
```

1. Go to the directory where `startDB.sh` is located.
2. Open the command prompt as an administrator or user with all the required permissions. Run the following command to start the H2 database:

```
startDB.sh
```

Enter the following command to stop the H2 database:

```
stopDB.sh
```

## Starting and Stopping RulePoint Topology Instance

RulePoint topology instance starts the run-time components of RulePoint. Use the RulePoint topology to deploy and process the design-time objects.

**Note:** If you have registered Windows services for the RulePoint components during installation, you can stop or start the topology instance from RulePoint Topology service in Windows services.

Complete the following tasks before you start the topology instance:

- Ensure that a valid license is available in the `<RULEPOINT_HOME>\conf` directory.
- Ensure that you clear the `\temp` directory.

## Starting and Stopping RulePoint Topology Instance on Windows

You can use the `topology.bat` command to start the RulePoint topology instance on Windows.

RulePoint installs `topology.bat` in the following directory by default:

```
<RULEPOINT_HOME>/bin
```

1. Go to the directory where `topology.bat` is located.

The topology command has the following syntax:

```
topology start|shutdown <TopologyName>
```

2. At the command prompt, enter the following command to start the RulePoint topology instance:

```
topology start <TopologyName>
```

Enter the following command to stop the RulePoint topology instance:

```
topology shutdown <TopologyName>
```

## Starting and Stopping RulePoint Topology Instance on UNIX

You can use the `topology.sh` command to start the RulePoint topology instance on UNIX.

RulePoint installs `topology.sh` in the following directory by default:

```
<RULEPOINT_HOME>/bin
```

1. Go to the directory where `topology.sh` is located.

The `topology.sh` command has the following syntax:

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

2. At the command prompt, enter the following command to start the RulePoint topology instance:

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

Enter the following command to stop the RulePoint topology instance:

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

## Starting and Stopping RulePoint Design-Time Instance

The RulePoint design-time instance runs on a Tomcat web container. Use the design-time user interface to author objects, configure, and administer the RulePoint run time.

You need to consider the following tasks:

- After you start the host agent instance and topology instance, start the RulePoint design-time instance. You can manually start and stop the design-time instance.
- Clear the `\temp` directory.
- If you want to start the design-time instance of RulePoint on Suse Linux 10, make sure that the glibc version is 2.6 or later.

**Note:** If you have registered Windows services for the RulePoint components during installation, you can stop or start the design-time instance from the `RulePoint Design Time` service in Windows services.

## Starting and Stopping RulePoint Design-Time Instance on Windows

You can use the `design.bat` command to start the RulePoint design-time instance on Windows.

RulePoint installs `design.bat` in the following directory by default:

```
<RULEPOINT_HOME>/bin
```

1. Go to the directory where `design.bat` is located.
2. At the command prompt, enter the following command to start the RulePoint design-time instance:

```
design start
```

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

```
design stop
```



## Starting and Stopping RulePoint Design-Time Instance on UNIX

You can use the `design.sh` command to start the RulePoint design-time instance on UNIX.

RulePoint installs `design.sh` in the following directory by default:

```
<RULEPOINT_HOME>/bin
```

1. Go to the directory where `design.sh` is located.
2. At the command prompt, enter the following command to start the RulePoint design-time instance:

```
design.sh start
```

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

```
design.sh stop
```

## Starting and Stopping the RulePoint Host Agent Instance

If you add more hosts to a default topology, RulePoint requires the host agent instance to run on all individual hosts configured in a topology. Start the host agent to start all the required processes and collect the statistics. Each host agent communicates with the grid manager within the topology.

You can use the `startHostAgent` command to start the RulePoint host agent instance.

**Note:** You need to start the host agent only if you configure more than one host in the topology. In a default topology, you do not require to start the host agent instance.

The `startHostAgent` command has the following options:

```
startHostAgent
<-h> ip_address
<-help> help
<-p> port_number
```

The following table describes `startHostAgent` options and arguments:

Option	Argument	Description
-h	ip_address	IP address to bind the host agent.
-help	help	Usage of the <code>startHostAgent</code> command.
-p	port_number	Port number of the host agent service. The default port number is 19000.

You can use the `stopHostAgent` command to stop the RulePoint host agent instance. The `stopHostAgent` command has the following options:

```
stopHostAgent
<-h> ip_address
<-help> help
<-p> port_number
```

The following table describes the stopHostAgent options and arguments:

Option	Argument	Description
-h	ip_address	IP address of the host.
-help	help	Usage of the stopHostAgent command.
-p	port_number	Port number of the host agent service. The default port number is 19000.

**Note:** If you have registered Windows services for the RulePoint components during installation, you can stop or start the host agent instance from the RulePoint HostAgent service in Windows services.

## Starting and Stopping the RulePoint Host Agent Instance on Windows

You can use the startHostAgent.bat command to start the RulePoint host agent instance on Windows.

RulePoint installs startHostAgent.bat in the following directory by default:

```
<RULEPOINT_HOME>/bin
```

1. Go to the directory where startHostAgent.bat is located.
2. At the command prompt, enter the following command to start the RulePoint host agent instance:

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

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

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

## Starting and Stopping the RulePoint Host Agent Instance on UNIX

You can use the startHostAgent.sh command to start the RulePoint host agent instance on UNIX.

RulePoint installs startHostAgent.sh in the following directory by default:

```
<RULEPOINT_HOME>/bin
```

1. Go to the directory where startHostAgent.sh is located.
2. At the command prompt, enter the following command to start the RulePoint host agent instance:

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

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

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

## Setting Up RulePoint in AIX

If you have installed RulePoint on AIX on multiple hosts, you must configure the umestore and lbmrd on Linux.

1. Set up the RULEPOINT\_HOME environment variable.

The file path <RulePointInstallationDir>/RulePoint\_6.2 is the default location of the RulePoint installation directory on Linux.

2. Copy the installation directory to Linux where you want to configure umestore and lbmrd.
3. Provide the IP address of the AIX box in the `um.multicast.interface` property of the `rtam-config.properties` file located at the following directory:  
`RULEPOINT_HOME/design/webapps/RTAM/WEB-INF/classes`
4. Unzip the UM related files, `Linux.zip`, from the following location to configure the UM store and lbmrd.  
`Installer home\resources\rulepoint\extras\UM`
5. Delete the contents of the UM folder from the following location:  
`RulePoint_6.2/system/UM`
6. Copy the unzipped files to the following location on Linux where you copied the RulePoint directory.  
`RulePoint_6.2/system/UM`
7. Unzip the java-related files, `Linux.zip` from the following location where you want to configure java for the UM store.  
`Installer home\resources\extras\rulepoint\Java`
8. Create a file named `java`, and copy the unzipped files to the following location on Linux where you copied the RulePoint directory.  
`RulePoint_6.2/system/java`  

**Note:** You need to also copy the `jaxp-ri-1.4.5.jar` and `xml-apis-2.0.2.jar` from the `<RULEPOINT_HOME>/extras` directory to `<RULEPOINT_HOME>/lib` and `<RULEPOINT_HOME>/design/webapps/rulepoint/WEB-INF/lib`. You need to do this because the Web Service source, responder, and analytic do not run properly as `saaj-impl-1.3.x.jar` uses some of the Sun SDK libraries that are not present in the Java SDK.
9. Start the Design Time instance, and log in to RulePoint.
10. In the **Administration** view of the **Topology** tab, add a host with the IP address of the Linux machine where you want to configure UM store .
11. Edit the UM store and UM lbmrd services to point to the Linux host.
12. Start the RulePoint Host Agent instance and then start the RulePoint Topology instance.

## Setting the Ulimit Calculator for UMP Store

In a topology with multiple nodes, make sure that the environment in which the UMP store daemon (umestore) starts has sufficient file descriptors (open files) for the number of sources in your environment.

Ultra Messaging uses a minimum of two file descriptors for a UM source in addition to normal UM file descriptors for transports and other objects. You can use `ulimit` in Linux and Process Explorer on Windows to monitor file handles.

## Logging In to RulePoint

After you start the RulePoint instances, log in to the RulePoint user interface to validate the RulePoint installation.

Before you begin, verify that you clear the browser cache, and later refresh the screen.

1. Launch a web browser and enter the following URL:

`http://host:port/rulepoint`

The host represents the host name, the fully qualified domain name, or the IP address of the machine where you install RulePoint. The port is the HTTP port number of the Tomcat server. The default is 8080.

**Note:** If you enable secure connection during installation, use the URL, `https://host:port/rulepoint`

The RulePoint login page appears.

2. Enter the RulePoint login credentials.

By default, the user name and password is Administrator/Administrator1. Change the password immediately after logging in.

3. Click **Log In**.

The **Informatica RulePoint** home page appears.

## Validating the RulePoint Installation

After you install RulePoint and start the RulePoint instance, you can validate the RulePoint installation.

Perform the following tasks to validate the RulePoint installation:

1. Log in to RulePoint with the administrator account user name and password and then verify the status of the following components from the **Dashboard** tab:

- Source controller
- Event processor
- Responder controller

2. From the **Administration** tab of the RulePoint user interface, select the **Topology** menu and then verify that the following run-time components and their corresponding port numbers appear:

### Host

The host abstracts the local machine and hosts the RulePoint run time. The default port number of the host 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 run time. 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 a new advanced rule, and verify if you can see **View Samples**. 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.

# Decommissioning the RulePoint System

Run the decommission scripts if you want to reset the run-time system. All the deployed objects are undeployed and removed from the run-time environment. The database cleanup scripts update the status of the objects from deployed to draft state. Decommissioning removes all run-time data from the database tables and flushes the messaging infrastructure.

**Caution:** Employ caution when you plan to decommission the RulePoint system. Decommissioning results in permanent loss of events and messages that are still in the messaging queues. Before you begin to decommission, ensure that you keep the event rate flow to a minimum to prevent event loss.

1. Stop the design-time instance.
2. To decommission the topology, run the following script from the command line based on the platform, from the `<RULEPOINT_HOME>/bin` directory:

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

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

3. To reset the RulePoint database, run the following SQL commands as an administrator of the database where the RulePoint schemas are present:

```
<RULEPOINT_HOME>\db\decommissionScripts\design
<RULEPOINT_HOME>\db\decommissionScripts\activitymanager
```

If you have used the custom mode of installation, replace the default schema names in the above SQL scripts with the schemas that you have created.

If you are using Oracle, run `commit` after running the decommission scripts so that the values are reflected in the database server.

4. Restart the design-time instance.
5. Restart the topology instance.
6. Navigate to the **Design** tab, refresh the browser, and check if the objects are in Draft state. Deploy the objects.

# APPENDIX A

## Design-Time High Availability

This appendix includes the following topics:

- [Design-Time High Availability Overview, 38](#)
- [Configuring Design-Time High Availability, 38](#)

### Design-Time High Availability Overview

You can configure the Apache Tomcat server instance on another host for high availability of the RulePoint design-time instance. The Tomcat servers connect to the Apache server to ensure that the design-time instance is always running.

### Configuring Design-Time High Availability

After installing RulePoint, perform the following steps to configure high availability for the design time:

1. Download and install Apache Http Server version 2.2 or later.
2. Start the Apache Http Server and verify that it runs.
3. Download the version of the mod\_jk binaries that is compatible with the operating system of the RulePoint Server and the installed Apache Http Server.

The binary file is single .so file.

4. Copy the downloaded file `mod_jk.so` to the `<Apache_base_dir>/modules` directory.
5. Stop the Apache Server.
6. Add the following lines in the `httpd.conf` file located at the `<Apache_Home>/conf` directory:

```
# Load mod_jk module
LoadModule      jk_module      modules/mod_jk.so
# Declare the module for <IfModule directive> (remove this line on Apache 2.x)
#AddModule      mod_jk.c
# Where to find workers.properties
JkWorkersFile   conf/worker.properties
# Where to put jk shared memory
JkShmFile       ./mod_jk.shm
# Where to put jk logs
JkLogFile       logs/mod_jk.log
# Set the jk log level [debug/error/info]
JkLogLevel      info
```

```

# Select the timestamp log format
JkLogStampFormat "[%a %b %d %H:%M:%S %Y] "
# Send servlet for context /examples to worker named worker1
JkMount /rulepoint* router
        JkMount /RTAM* router
# Send JSPs for context /examples to worker named worker1
#JkMount /examples/*.jsp worker1

```

The mod\_jk module is loaded to the server.

7. Create a file named `worker.properties` with the following entries:

```

# The advanced router LB worker
worker.list=router
worker.router.type=lb
worker.router.balance_workers=worker1,worker2

# Define the first member worker
worker.worker1.type=ajp13
worker.worker1.host=<<primary_host>>
worker.worker1.port=<<ajp13_port>>
# Define preferred failover node for worker1
worker.worker1.redirect=worker2

# Define the second member worker
worker.worker2.type=ajp13
worker.worker2.host=<<secondary_host>>
worker.worker2.port=<<ajp13_port>>
# Disable worker2 for all requests except failover
worker.worker2.activation=disabled

```

where you must replace the following values:

- Replace the value of `<primary_host>` with the host name of the machine that hosts the primary environment of the RulePoint design time.
- Replace the value of `<secondary_host>` with the host name of the machine that hosts the secondary environment of the RulePoint design time.
- Replace the value for `<ajp13_port>` with the following value of the Connector Port available in the `server.xml` of the `TOMCAT_HOME/conf` directory:

```

<Connector port="8010" protocol="AJP/1.3"
redirectPort="8444" />

```

8. Start both the RulePoint design-time instances and verify that they are up and running.

**Note:** If you enable high availability on the same machine, verify that you have resolved all port conflicts. To do this, you must change the port numbers on the secondary design-time environment.

9. Restart the Apache Http Server.

## APPENDIX B

# Windows Authentication Mode

This appendix includes the following topics:

- [Windows Authentication Mode Overview, 40](#)
- [Enable Windows Authentication Mode, 40](#)

## Windows Authentication Mode Overview

Users can connect to RulePoint installed on an instance of SQL Server using Windows Authentication. Windows Authentication mode allows a user to connect through the Microsoft Windows user account.

## Enable Windows Authentication Mode

Perform the following steps to enable authentication mode in Windows.

1. Copy the .dll file from <INSTALLER\_HOME>\bin\common\dll directory to a specific location.
2. When you install RulePoint, use the below format for the custom JDBC connection string for the DataDirect driver:

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

where DLL\_PATH is the path where the dll file is copied to.

You must use double slash - \\ to separate the path. For

**example**,db.url=jdbc:informatica:sqlserver://LOCALHOST:  
1433;databaseName=rulepoint61;AuthenticationMethod=ntlm;LoadLibraryPath=E:\\Installs

3. Create a directory named endorsed in <RULEPOINT\_HOME>/design and <RULEPOINT\_HOME>/system/java/lib.
4. Copy dwsqserver.jar from <RULEPOINT\_HOME>/design/webapps/rulepoint/web-inf/lib to <RULEPOINT\_HOME>/design/endorsed and <RULEPOINT\_HOME>/system/java/lib.
5. Delete dwsqserver.jar from <RULEPOINT\_HOME>/design/webapps/rulepoint/web-inf/lib and <RULEPOINT\_HOME>/design/webapps/RTAM/web-inf/lib.
6. Copy dwsqserver.jar from <RULEPOINT\_HOME>/design/webapps/rulepoint/web-inf/lib to <RULEPOINT\_HOME>/design/endorsed.



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