



Informatica Proactive Monitoring for PowerCenter Governance (Version 2.5)

Solutions Guide



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Preface

The *Proactive Monitoring for PowerCenter Governance Solutions Guide* describes the solution provided for proactively monitoring PowerCenter development environment. This guide also contains how to install and configure Proactive Monitoring for PowerCenter Governance.

The target audience of this guide is the Informatica PowerCenter administrator, who is responsible for installing Proactive Monitoring for PowerCenter Governance. This guide assumes that you have a working knowledge of Informatica PowerCenter, the application server, database server, and other system requirements to install and deploy Proactive Monitoring for PowerCenter Governance.

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CHAPTER 1

Proactive Monitoring for PowerCenter Governance Overview

This chapter includes the following topics:

- ◆ Introduction, 1
- ◆ Solution Components, 3
- ◆ Solution Usage, 5

Introduction

Proactive Monitoring for PowerCenter Governance provides advanced monitoring capabilities for PowerCenter development environments.

PowerCenter development environments can have hundreds of developers who create and change artifacts such as workflows, sessions, mappings, and transformations stored in the PowerCenter repository. The solution collects data from the PowerCenter repository databases at regular intervals, checks for anomalies in the metadata of PowerCenter artifacts, and alerts appropriate users. The alert messages contain the required contextual information, such as the artifact name, name of the user who modified the artifact, and cause of the alert. The PowerCenter developers or architects can refer the alert messages to take corrective action effectively.

The solution contains rules that perform a wide range of checks against the PowerCenter artifacts metadata and generates alerts whenever there is a deviation. A simple example is to alert users when a developer does not follow prescribed naming convention for artifacts or saves an artifact without comments. A complex example is to perform detailed checks on artifact metadata, such as to see whether the developer uses the session name to derive the session log file name.

The built-in rules are classified into the following categories:

Best practice violations

Best practices are methodical guidelines to get better run-time performance from PowerCenter in addition to better maintainable artifacts. Proactive enforcement of best practices helps in improving overall efficiency of development, testing, and production phases of a PowerCenter deployment. Proactive monitoring solutions continuously monitor PowerCenter artifact changes to look for deviations from the best practices. For example, the solution has a rule to verify whether you have set the truncate table option in a session or whether all artifacts have descriptions.

Duplicate artifacts

You might copy the artifacts across folders for modifications and possibly leave them with same names. Duplicate artifacts across folders may cause erroneous usage and impact the production runs. The solution

continuously monitors for duplicate artifacts across repository and alerts application architects when it finds a duplicate artifacts.

Artifacts that are not valid

The Proactive Monitoring solution checks for workflows, sessions, and mappings that are not valid, and alerts the users. Proactive alerts enables the application architects to know about the artifacts that are not valid and to take corrective action.

Naming convention violations

An organization can define naming conventions for PowerCenter artifacts. You can customize the Proactive Monitoring solution to detect violations in naming conventions and alert the application architects. This enables organizations to audit compliancy of the guidelines and take appropriate action.

Disabled artifacts

The Proactive Monitoring solution checks for disabled sessions and alerts users. Proactive alerts on disabled artifacts enable application architects to take appropriate action.

Hardcoded values in artifacts

Hardcoded values may cause run-time errors as artifacts move from one environment to another, such as between development to staging and from staging to production. Early detection of hardcoded value prevents errors and saves time in migrating artifacts between environments. The Proactive Monitoring solution looks for hardcoded source parameters, paths in sessions and workflows, and alerts users when it detects an anomaly.

Illegal values in artifacts

A special case of hardcoded values check is the check for illegal values. The Proactive Monitoring solution looks for specified commands that you cannot use in the artifacts and alerts application architects when it detects any deviation.

Frequent changes to artifacts

Frequent changes to artifacts may not be allowed in certain PowerCenter deployments because of the impact they may cause to other artifacts in the repository. The solution allows the users to check whether a session has been modified too frequently in a specific period of time and alert.

Attribute checks for artifacts

You can specify multiple attribute to each PowerCenter artifact. The Proactive Monitoring solution allows you to check for specific attributes on workflows, sessions, and transformations. When it detects a deviation from the defined norm, the Proactive Monitoring solution sends you an alert.

In addition to the built-in rules that detect the mentioned deviations, the Proactive Monitoring solution allows you to create and change rules. You can customize and extend the solution based on the business needs.

A single installation of the solution monitors a single domain and its numerous repository databases.

Proactive monitoring solution provides targeted alerting capabilities. The solution contains predefined personas who receive alerts specific to their function.

The Proactive Monitoring solution contains the following predefined personas:

- ◆ **pcadmin.** Any user who ensures proper functioning of PowerCenter domains, integration, repository, and other services.
- ◆ **apparchitect.** Any user who is responsible for the logic of PowerCenter mappings, mapplets, transforms, sources, and targets.
- ◆ **dataarchitect.** Any user who oversees the data movement with in PowerCenter.
- ◆ **itsecurity.** Any user responsible for dealing with IT security issues, such as sensitive data and malware.

- ◆ pmonitor. Any user who tracks PowerCenter performance. By default, the pmonitor persona receives all alerts.

In a continuous monitoring system, the solution can detect the same anomaly multiple times and send the same alert multiple times. To avoid such a situation, the solution provides the snooze feature. You can use the snooze feature to set a time period before which the solution does not generate any alert on the same anomaly.

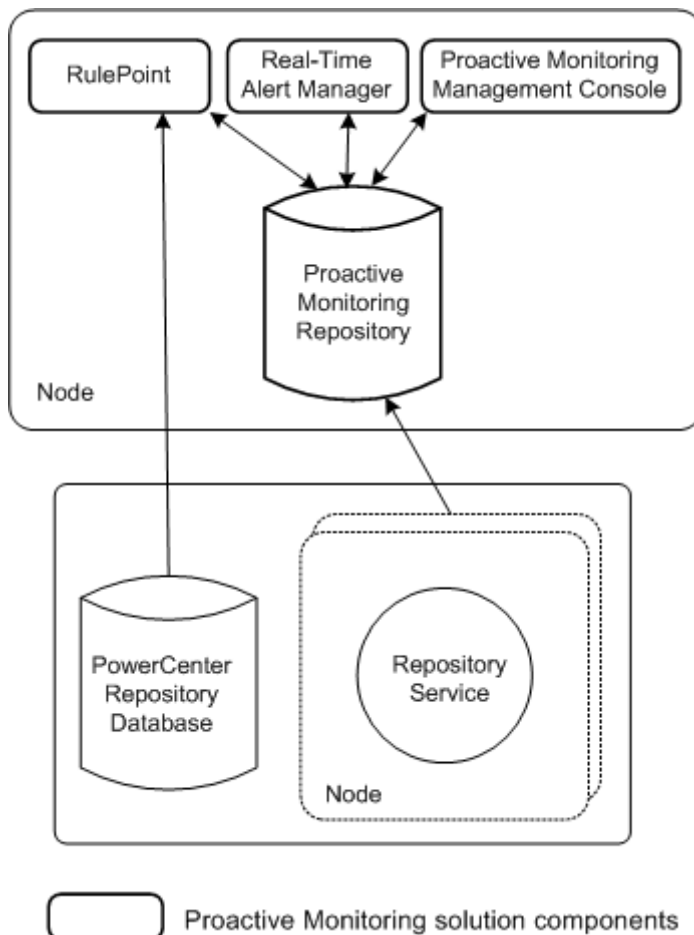
For example, a developer updates a PowerCenter artifact that results in a session processing failure. This could be a planned development activity where the architects would want to stop receiving alerts for a specified period of time.

Solution Components

The Proactive Monitoring solution monitors both large and small PowerCenter domain configurations.

The Proactive Monitoring solution requires the infrastructure for continuous data collection, continuous processing, analysis, and continuous alerting. Informatica RulePoint provides such an infrastructure and programming model. The Proactive Monitoring solution is a RulePoint application. You must install the solution on a Tomcat server. The Tomcat server must be on a separate host from the PowerCenter environment.

The following illustration gives an overview of the various components of the Proactive Monitoring solution and their purpose in the Proactive Monitoring solution context:



Informatica Rulepoint

Informatica RulePoint is a general purpose Complex Event Processing server. You can build an application on RulePoint to process large amounts of data in real time, detect anomalies, and take action.

Informatica RulePoint provides a programming model to build such applications.

The RulePoint programming model consists of the following groups:

- ◆ **Sources.** Sources connect to external systems to fetch data. The sources convert the fetched data into Events. The events are published on Topics.
- ◆ **Rules.** Rules process events on topics. You can use the rule processing language, DRQL to create rules. The rule definition includes information about the topics and the number of events to process, the conditions to check, and the response to generate when there is a deviation. As part of overall rule processing, the rule might call out functions called Analytics. Rules also rely on Watchlists that act as reference data sets during rule processing.
RulePoint also provides an easy way to parameterize rules using templates. Templates are abstract rules that could become a rule when you provide all its parameters. You can create template rules from a template.
- ◆ **Responders.** Responders handle dispatching of alerts to external systems. When a rule condition is matched, the rule processing engine creates a Response which is sent to the specified external system using a conduit called Responder.

The solution ships with a set of sources, topics, rules, templates, analytics, watchlists, responders that are specific for the governance monitoring of PowerCenter. You can manage the solution artifacts with Informatica RulePoint.

Informatica Real-Time Alert Manager

Informatica Real-Time Alert Manager (RTAM) is a web-based dashboard to receive alerts from RulePoint.

You can group the RTAM alerts as channels. Each alert has a priority, subject, and body. RulePoint includes a standard RTAM responder to send alerts to RTAM.

The Proactive Monitoring solution provides two standard modes of alert delivery, through email and RTAM. You can configure the solution to get alerts through email, RTAM, or both. In case of RTAM, you can log in to the RTAM web application and see the alerts on-demand.

Proactive Monitoring Repository

The Proactive Monitoring repository stores all the solution metadata, solution configuration data, and the data collected from PowerCenter repository databases. The repository is also used to store the history of alerts generated by the solution.

The solution includes a set of analytics that use the Proactive Monitoring repository as part of rule processing.

Proactive Monitoring Management Console

Proactive Monitoring Management Console is a web-based application for configuring the Proactive Monitoring solution.

The console allows users to add details of hosts, nodes, grids, and PowerCenter Repository Service for monitoring purposes. The Management Console allows user to change the monitoring solution settings and the mode of alert delivery, whether to use email or RTAM.

RELATED TOPICS:

- ◆ “Proactive Monitoring Configuration” on page 36

Solution Usage

The Proactive Monitoring solution connects to the PowerCenter environment with minimum configuration requirements.

The following steps provide an overview of the solution usage:

Installation

Install the Proactive Monitoring solution and its components on a machine that is separate from the host machines in the PowerCenter domain. Install and configure Apache Tomcat, RulePoint, and RTAM before you install the monitoring solution.

The solution artifacts connect to the PowerCenter repository to gather metadata of all the artifacts that the developers modifies. To fetch data from the tables and views in the PowerCenter repository, the solution requires creation of a read-only user with specific privileges.

See the Installation chapters for pre-requisites and detailed installation instructions.

Configuration and customization

The solution needs to connect to specific services in the PowerCenter domain to start monitoring the domain. This involves configuring the solution through Proactive Monitoring Management Console. After configuration, start the various built-in sources for the events to start flowing in.

When the solution is online, you can customize and extend built-in rules to enhance the monitoring capabilities based on the business needs.

See the installation and configuration chapters for detailed instructions on the post-installation configuration steps.

Receiving alerts

The solution can be configured to send email and RTAM alerts to the personas defined in the solution, namely pccadmin, pcmonitor, dataarchitect, apparchitect, itsecurity. Each of these personas can have an associated RTAM login or email ID. In case of email, the user will start receiving email alerts as and when anomalies are detected by the solution. In case of RTAM, the user needs to login to the RTAM web application to check the alerts on demand.

CHAPTER 2

Monitoring PowerCenter Governance

This chapter includes the following topics:

- ◆ Overview, 6
- ◆ Solution Artifacts, 6

Overview

The Proactive Monitoring solution retrieves modified artifacts information from the PowerCenter repository database at regular intervals to provide the benefit of continuous operational monitoring.

The Proactive Monitoring solution includes various sources, analytics, and responders that connect to PowerCenter services and nodes to collect and process the above data.

Solution Artifacts

The Proactive Monitoring solution uses the RulePoint programming model and includes predefined artifacts which are broadly split into the following categories.

- ◆ Proactive monitoring services
- ◆ Proactive monitoring rules

In addition, the solution also includes scripts to perform the following database operations.

- ◆ Create read-only permissions on tables and views to access data from the PowerCenter repository databases.
- ◆ Create read and write privileges on the Proactive Monitoring repository database.

Proactive Monitoring Services

In the RulePoint programming model, the artifacts that connect to external systems are generally referred to as services. These services are configurable artifacts that can link to other systems, such as email, Real-Time Alert Manager, a database.

The services are broadly classified as source services, analytics, and responder services.

- ◆ Source Services gather information from a system.
- ◆ Analytics analyze data within a system.
- ◆ Responder Services execute a response through a system.

Proactive monitoring includes a set of pre-defined services that connect to PowerCenter services in order to drive rule processing and alerting.

Source Services

The Proactive Monitoring source services connect to PowerCenter services, collect data, and turn this data into events for rule processing.

The sources run against the respective PowerCenter services at a predefined interval and collect incremental data changes. For example, a query to retrieve modified workflows information from the PowerCenter repository runs every six hours. The query selects the modified workflows in the six hours by using the timestamp from the previous run.

The Proactive Monitoring solution contains the following predefined source services:

PMPC SQL Source

The PMPC SQL Source is a custom built SQL source for the Proactive Monitoring solution. The source can connect to multiple repository databases and run SQL queries in parallel. In addition, the PMPC SQL source includes queries relevant for the database types, Oracle, IBM DB2, and Microsoft SQL Server.

All PMPC SQL related services use the repository configuration provided through the Proactive Monitoring Management Console to connect to the PowerCenter repository databases.

The solution includes multiple instances of PMPC SQL Source that run predefined SQL queries against the configured PowerCenter repository databases at regular intervals. The PMPC SQL Sources run the SQL queries to create events and publish these events on the following predefined topics:

- pc_command_tasks
- pc_mappings
- pc_mapplets
- pc_sessions
- pc_transforms
- pc_workflows
- pc_worklets

For example, *PowerCenter Workflows Modified Incremental* is the PMPC SQL Source that connects to the PowerCenter repository, retrieves information about workflows changed in the last six hours, and publishes them as events on the pc_workflows topic.

See appendix for more details on the sources and topics.

The solution also includes instances of other predefined RulePoint source types to manage solution specific internal data, such as cache and purge management.

Analytic Services

The solution contains predefined SQL analytics that are used in rules.

As part of rule processing, the analytics run predefined queries against the Proactive Monitoring repository database or the configured PowerCenter repositories on demand.

For example, the SQL Analytic, `pc_get_session_attribute`, gets value of a specific attribute name for a session. The SQL Analytic, `get_pc_email`, gets the email address for a specified alert recipient from the Proactive monitoring repository.

See appendix for more details on the analytics.

Responder Services

The solution contains predefined responders that dispatch alerts to external systems.

The Proactive Monitoring solution includes the following responders:

- ◆ The email responder sends email alerts to the various personas.
- ◆ The RTAM responder sends RTAM alerts to the various personas.

Proactive Monitoring Rules

The Proactive Monitoring solution contains a large set of predefined rules that detect anomalies across PowerCenter repository.

The Proactive Monitoring solution provides the following categories of rules based on the types of checks:

- ◆ Best practice violations
- ◆ Duplicate artifacts
- ◆ Artifacts that are not valid
- ◆ Naming convention violations
- ◆ Disabled artifacts
- ◆ Hardcoded values in artifacts
- ◆ Illegal values in artifacts
- ◆ Frequent changes to artifacts
- ◆ Attribute checks for artifacts

The Proactive Monitoring solution includes the following types of predefined rules:

- ◆ Templates
- ◆ Advanced rules

Templates

The Proactive Monitoring solution provides predefined rule templates that include built-in checks and customizable parameters.

Templates enable users to leverage the base logic and customize it for many use cases. For example, a template that checks whether a mapping is modified too often in a specific duration includes all the predefined conditions to detect the violation. The template also allows the user to specify the number of times that artifact changed and the duration to trigger an alert.

You can create template rules from templates. The solution includes a set of template rules to illustrate their usage and behavior.

The template, *PC_GMT2 Mapping modified often within a specified duration*, has built-in checks to detect if a mapping is modified often. You can customize the number of changes and the duration of the check.

Advanced Rules

Advanced rules do not provide any parameterization.

For example, a rule that checks for duplicate mappings may not require any parameterization. The Proactive Monitoring solution provides many advanced rules.

CHAPTER 3

Introduction to Installation and Configuration

This chapter includes the following topics:

- ◆ Installation and Configuration Overview, 10
- ◆ Installation Options, 10

Installation and Configuration Overview

You can install the Proactive Monitoring for PowerCenter Governance in graphical or console mode on Windows, Linux, AIX, or Solaris.

The installer creates the staging directory and extracts the Proactive Monitoring for PowerCenter Governance package to the staging directory before deploying it to the target directory on the application server.

Proactive Monitoring for PowerCenter Governance operates in a homogenous database environment for an instance of RulePoint, Real-Time Alert Manager, and PowerCenter. Therefore, use the same database type for both PowerCenter and RulePoint for an instance. For example, if you create a PowerCenter repository on Oracle, you must create the RulePoint repository on Oracle. Differences in the operating system do not affect the functioning of Proactive Monitoring for PowerCenter Governance.

Note: Install PowerCenter and the Proactive Monitoring solution on separate systems.

Installation Options

When you run the Proactive Monitoring for PowerCenter Governance installer, it checks your current environment for previous installations of the Proactive Monitoring solution. The installer then starts one of the following installation processes:

- ◆ Install Proactive Monitoring for PowerCenter Governance 2.5.
- ◆ Install Proactive Monitoring for PowerCenter Governance 2.5 on Proactive Monitoring for PowerCenter Operations 2.5.
- ◆ Upgrade from Proactive Monitoring for PowerCenter Governance 2.0.

CHAPTER 4

First Time Installation

This chapter includes the following topics:

- ◆ First Time Installation Overview, 11
- ◆ Before You Install, 11
- ◆ Installing in Graphical Mode, 13
- ◆ Installing in Console Mode, 15

First Time Installation Overview

You can install Proactive Monitoring for PowerCenter Governance in graphical or console mode on Windows, Linux, AIX, or Solaris. Complete the pre-installation tasks to prepare for the first time installation.

You can install Proactive Monitoring for PowerCenter Governance from a DVD or from the root of the directory where you download the installation files.

Before You Install

Before you install Proactive Monitoring for PowerCenter Governance, set up the machine to meet the requirements to install and run the Proactive Monitoring solution.

Complete the following prerequisites before you install Proactive Monitoring for PowerCenter Governance:

- ◆ Verify the system requirements.
- ◆ Verify permissions.
- ◆ Install RulePoint and Real-Time Alert Manager. RulePoint, Real-Time Alert Manager, and PowerCenter must use the same database type for the repositories.
- ◆ Get the name of the PowerCenter domain that you want to monitor. You can get the PowerCenter domain name from the PowerCenter administrator.
- ◆ Create the Proactive Monitoring user (optional).
- ◆ Set up the X Window server.

Verify System Requirements

Before you install Proactive Monitoring for PowerCenter Governance, ensure to meet the minimum system requirements to install and run the Proactive Monitoring for PowerCenter Governance installer.

The following table lists the platforms supported by Proactive Monitoring for PowerCenter Governance:

Domain	Supported Platforms
Operating Systems	<ul style="list-style-type: none">- Windows- Linux- AIX- Solaris
Application Servers	Apache Tomcat
Database Servers	<ul style="list-style-type: none">- Oracle- IBM DB2- Microsoft SQL Server
Recommended Hardware Requirements	<ul style="list-style-type: none">- 64-bit Intel or AMD-compatible, Xeon equivalent or better, 1.7 Ghz minimum CPU- 12-16 GB RAM- 5-10 GB application disk space- 1 GB Ethernet network connection
Informatica RulePoint	RulePoint 5.2 HotFix 3
Informatica Real-Time Alert Manager	Real-Time Alert Manager 3.1 HotFix 1
Informatica PowerCenter	<ul style="list-style-type: none">- Informatica PowerCenter 8.6.1- Informatica PowerCenter 9.0.1- Informatica PowerCenter 9.1.0- Informatica PowerCenter 9.5.0

For more information about Proactive Monitoring for PowerCenter Governance support, see the Product Availability Matrix at <https://communities.informatica.com/community/my-support/tools/product-availability-matrices>.

Verify Permissions

On Linux, AIX, or Solaris, the user who runs the installer must have read, write, and execute permissions on the installer and its files directory, and write access to the `/tmp` directory.

The `/tmp` directory must have sufficient space, a minimum of 50 MB, for the installer to perform the install.

Create Proactive Monitoring User (Optional)

By default, the installer chooses the RulePoint repository database to store contents of the Proactive Monitoring repository.

If you want to configure a Proactive Monitoring database that is separate from the RulePoint repository database, create the Proactive Monitoring user, `pc_rp`. The Proactive Monitoring for PowerCenter Governance installer contains a `resources` directory with the database scripts and instructions to create the Proactive Monitoring database user.

You can find the database scripts in the following path of the installer:

- ◆ **Oracle.** ..\resources\dbscripts\rulepoint\oracle\create_rp_user.txt
Run the SQL commands in the `create_rp_user.txt` file to create the Proactive Monitoring database user.
- ◆ **Microsoft SQL Server.** ..\resources\dbscripts\rulepoint\sqlserver\create_rp_user.txt
Follow the steps in the `create_rp_user.txt` file to set up the Microsoft SQL server and create the Proactive Monitoring database user.
- ◆ **IBM DB2.** ..\resources\dbscripts\rulepoint\db2\create_rp_user.txt
Follow the steps in the `create_rp_user.txt` file to set up the IBM DB2 server and create the Proactive Monitoring database user.

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 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=" <code><TCP/IP node of XWindow server>:0</code> "	export DISPLAY="10.1.50.23:0"
Bourne	DISPLAY=" <code><TCP/IP node of XWindow server>:0</code> " 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 can display incorrect labels on the buttons.

Installing in Graphical Mode

You can install Proactive Monitoring for PowerCenter Governance in graphical mode on Windows, Linux, AIX, or Solaris.

1. Run the Proactive Monitoring for PowerCenter Governance installer based on the operating system.
 - ◆ To install on Windows, run `Informatica_PMPC_Governance_2.5.exe` from the root directory.
 - ◆ To install on Linux, AIX, or Solaris, use a shell command line to run `Informatica_PMPC_Governance_2.5.bin` from the root directory with `-i` gui option for graphical mode installation. For example, enter
`Informatica_PMPC_Governance_2.5.bin -i gui`
2. In the **Introduction** page, click **Next**.
The **Choose Staging Folder** page appears.

- Specify the staging directory.

The following table shows the default location of the staging folder:

Operating System	File Path
Windows	C:\PMPC_Governance_2.5
Linux, AIX, and Solaris	/home/PMPC_Governance_2.5

- Click **Next**.

The **RulePoint Deployment Directory** page appears.

- Enter the path to \$SRP_HOME.

Enter the path of the RulePoint directory in the Apache Tomcat server.

```
c:\tomcat\webapps\rulepoint
```

- Click **Next**.

The **Prerequisites** page appears.

- Verify the installation requirements, and click **Next**.

The **PowerCenter Configuration** page appears.

- Enter the PowerCenter domain name.

The domain name is the name of the PowerCenter domain that you want to monitor. You can get the domain information from the Informatica Administrator.

Note: The installer does not validate the domain name. Enter the correct name for the domain that you want to monitor.

- Click **Next**.

The **Proactive Monitoring Database Configuration** page appears.

- Enter the details for the Proactive Monitoring database.

The following table describes the properties that you specify for the Proactive Monitoring database:

Property	Description
Database User Name	Name for the Proactive Monitoring database user account. By default, it is the name of the RulePoint user account. If the Proactive Monitoring database is not same as the RulePoint database, it is the user account information for the pc_rp user that you created through the create_rp_user.txt script.
Database Password	Password for the Proactive Monitoring database user account. The password is same as the password that you provide when you create the Proactive Monitoring database user.
Database Host	Host address of the Proactive Monitoring database.
Database Port	Port number of the Proactive Monitoring database. For example, the default port number is 1521 on Oracle.

Property	Description
Service Name or SID	Service name for Oracle and IBM DB2 databases or database name for Microsoft SQL Server. For example, on Oracle, <code>ServiceName=orcl.informatica.com</code> .
JDBC Parameters	<p>Optional parameters to include in the database connection string. For example, you can use the following optional parameters for an Oracle database:</p> <pre>MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true</pre> <p>Use the parameters to optimize database operations for the configuration database. You can use the default parameters or you can add or change the parameters based on your database requirements.</p> <p>Verify that the parameter string is valid. If not selected, the installer creates the JDBC URL without additional parameters.</p>

If you select **Custom JDBC Connection String for DataDirect Driver**, type the connection string.

For example, you can refer the following JDBC URL for an Oracle database:

```
jdbc:informatica:oracle://localhost:
1521;ServiceName=orcl.informatica.com;MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true
```

11. Click **Test Connection** to verify that you can connect to the database.
12. Click **Next**.
13. Review the pre-installation summary, and click **Install**.
After the installation is complete, the **Install Complete** page appears.
14. Review the post installation tasks.
15. Click **Done** to complete the installation procedure and then exit the installer.

RELATED TOPICS:

- ◆ After You Install

Installing in Console Mode

You can install Proactive Monitoring for PowerCenter Governance in console mode on Windows, Linux, AIX, or Solaris.

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. Shut down the instance of Apache Tomcat application server where RulePoint is deployed.
2. At the command prompt for Windows or on a shell command line for Linux, AIX, and Solaris, run the Proactive Monitoring for PowerCenter Governance installer located in the root directory.
3. Enter the Proactive Monitoring for PowerCenter Governance executable name with the option `-i console`.

- ◆ For Windows, enter `Informatica_PMPC_Governance_2.5.exe -i console`
 - ◆ For Linux, AIX, or Solaris, enter `Informatica_PMPC_Governance_2.5.bin -i console`
4. In the **Introduction** section, press **Enter**.
The **Choose Staging Folder** section appears.
 5. Specify the staging directory.
The following table shows the default location of the staging folder:

Operating System	File Path
Windows	C:\PMPC_Governance_2.5
Linux, AIX, and Solaris	/home/PMPC_Governance_2.5

6. Enter Y to confirm the staging directory path.
The **RulePoint Deployment Directory** section appears.
7. Enter the path to \$SRP_HOME.
Enter the path of the RulePoint directory in the Apache Tomcat server.
`c:\tomcat\webapps\rulepoint`
8. Press **Enter**.
The **Prerequisites** section appears.
9. Verify the installation requirements, and press **Enter**.
The **PowerCenter Configuration** section appears.
10. Enter the PowerCenter domain name.
The domain name is the name of the PowerCenter domain that you want to monitor. You can get the domain information from Informatica Administrator.
Note: The installer does not validate the domain name. Enter the correct name for the domain that you want to monitor.
11. Press **Enter**.
The **Proactive Monitoring Database Configuration** section appears.
12. Enter the details for the Proactive Monitoring database.
The following table describes the properties that you specify for the Proactive Monitoring database:

Property	Description
Database User Name	Name for the Proactive Monitoring database user account. By default, it is the name of the RulePoint user account. If the Proactive Monitoring database is not same as the RulePoint database, it is the user account information for the pc_rp user that you created through the create_rp_user.txt script.
Database Password	Password for the Proactive Monitoring database user account. The password is same as the password that you

Property	Description
	provide when you create the Proactive Monitoring database user.
Database Host	Host address of the Proactive Monitoring database.
Database Port	Port number of the Proactive Monitoring database. For example, the default port number is 1521 on Oracle.
Service Name or SID	Service name for Oracle and IBM DB2 databases or database name for Microsoft SQL Server. For example, on Oracle, <code>ServiceName=orcl.informatica.com</code> .
JDBC Parameters	<p>Optional parameters to include in the database connection string. For example, you can use the following optional parameters for an Oracle database:</p> <pre>MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true</pre> <p>Use the parameters to optimize database operations for the configuration database. You can use the default parameters or you can add or change the parameters based on your database requirements.</p> <p>Verify that the parameter string is valid. If not selected, the installer creates the JDBC URL without additional parameters.</p>

If you are entering the connection information using a **Custom JDBC Connection String for DataDirect Driver**, type the connection string.

For example, you can refer the following JDBC URL for an Oracle database:

```
jdbc:informatica:oracle://localhost:
1521;ServiceName=orcl.informatica.com;MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true
```

13. Press **Enter**.
14. Review the pre-installation summary, and then press **Enter**.
After the installation is complete, the **Install Complete** section appears.
15. Review the post installation tasks.
16. Press **Enter** to complete the installation and exit the installer.

CHAPTER 5

Installing Governance on Proactive Monitoring for PowerCenter Operations

This chapter includes the following topics:

- ◆ Installing Governance on Proactive Monitoring for PowerCenter Operations Overview, 18
- ◆ Before You Install, 18
- ◆ Installing in Graphical Mode, 19
- ◆ Installing in Console Mode, 20

Installing Governance on Proactive Monitoring for PowerCenter Operations Overview

You can install Proactive Monitoring for PowerCenter Governance 2.5 on Proactive Monitoring for PowerCenter Operations 2.5. You can run the installer in graphical or console mode on Windows, Linux, AIX, or Solaris. Complete the pre-installation tasks to prepare for the installation.

You can install Proactive Monitoring for PowerCenter Governance 2.5 from a DVD or from the root of the directory where you download the installation files.

Before You Install

Complete the following prerequisite before you install Proactive Monitoring for PowerCenter Governance 2.5 on an instance of Proactive Monitoring for PowerCenter Operations2.5:

On Linux, the user who runs the installer must have read, write, and execute permissions on the installer and its files directory, and write access to the `/tmp` directory. The `/tmp` directory must have sufficient space, a minimum of 50 MB, for the installer to perform the installation.

Installing in Graphical Mode

You can install Proactive Monitoring for PowerCenter Governance 2.5 on an instance of Proactive Monitoring for PowerCenter Operations 2.5 in graphical mode on Windows, Linux, AIX, or Solaris.

1. Shut down the instance of Apache Tomcat application server where RulePoint is deployed.
2. Run the Proactive Monitoring for PowerCenter Governance installer based on the operating system.
 - ◆ To install on Windows, run `Informativa_PMPC_Governance_2.5.exe` from the root directory.
 - ◆ To install on Linux, AIX, or Solaris, use a shell command line to run `Informativa_PMPC_Governance_2.5.bin` from the root directory with `-i gui` option for graphical mode installation. For example, enter
`Informativa_PMPC_Governance_2.5.bin -i gui`

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

The **Choose Staging Folder** page appears.

4. Specify the staging directory.

The following table shows the default location of the staging folder:

Operating System	File Path
Windows	C:\PMPC_Governance_2.5
Linux, AIX, and Solaris	/home/PMPC_Governance_2.5

5. Click **Next**.

The **RulePoint Deployment Directory** page appears.

6. Enter the path to `$SRP_HOME`.

Enter the path of the RulePoint directory in the Apache Tomcat server.

```
c:\tomcat\webapps\rulepoint
```

7. Click **Next**.

The **Installation Type** page appears.

8. Verify the installation requirements, and click **Next**.

The **PowerCenter Configuration** page appears.

9. Verify the PowerCenter domain name.

The domain name is the name of the PowerCenter domain that you want to monitor. Input for the domain name is taken from the existing Proactive Monitoring for PowerCenter Operations installation. You cannot change the domain name.

10. Click **Next**.

The **Proactive Monitoring Database Configuration** page appears.

11. Enter the password for the Proactive Monitoring database user account.

The installer gets the inputs for the other fields from the existing Proactive Monitoring for PowerCenter Operations installation.

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

13. Click **Next**.

14. Review the pre-installation summary, and click **Install**.

After the installation is complete, the **Install Complete** page appears.

15. Review the post installation tasks.
16. Click **Done** to complete the installation procedure and then exit the installer.

Installing in Console Mode

You can install Proactive Monitoring for PowerCenter Governance 2.5 on an instance of Proactive Monitoring for PowerCenter Operations 2.5 in console mode on Windows, Linux, AIX, or Solaris.

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. Shut down the instance of Apache Tomcat application server where RulePoint is deployed.
2. At the command prompt for Windows or on a shell command line for Linux, AIX, and Solaris, run the Proactive Monitoring for PowerCenter Governance installer located in the root directory.
3. Enter the Proactive Monitoring for PowerCenter Governance executable name with the option `-i console`.
 - ◆ For Windows, enter `Informatica_PMPC_Governance_2.5.exe -i console`
 - ◆ For Linux, AIX, or Solaris, enter `Informatica_PMPC_Governance_2.5.bin -i console`
4. In the **Introduction** section, press **Enter**.
The **Choose Staging Folder** section appears.
5. Specify the staging directory.

The following table shows the default location of the staging folder:

Operating System	File Path
Windows	C:\PMPC_Governance_2.5
Linux, AIX, and Solaris	/home/PMPC_Governance_2.5

6. Enter Y to confirm the staging directory path.
The **RulePoint Deployment Directory** section appears.
7. Enter the path to `$RP_HOME`.
Enter the path of the RulePoint directory in the Apache Tomcat server.
`c:\tomcat\webapps\rulepoint`
8. Press **Enter**.
The **Installation Type** section appears.
9. Verify the installation requirements, and press **Enter**.
The **PowerCenter Configuration** section appears.
10. Verify the PowerCenter domain name.
The domain name is the name of the PowerCenter domain that you want to monitor. Input for the domain name is taken from the existing Proactive Monitoring for PowerCenter Operations install. You cannot change the domain name.
11. Press **Enter**.
The **Proactive Monitoring Database Configuration** section appears.

12. Enter the password for the Proactive Monitoring database user account.
The installer gets the inputs for the other fields from the existing Proactive Monitoring for PowerCenter Operations installation.
13. Press **Enter**.
14. Review the pre-installation summary, and then press **Enter**.
After the installation is complete, the **Install Complete** section appears.
15. Review the post installation tasks.
16. Press **Enter** to complete the installation and exit the installer.

CHAPTER 6

After You Install

This chapter includes the following topics:

- ◆ Post-Installation Tasks, 22
- ◆ Restart RulePoint, 22
- ◆ Create Users and Groups in RulePoint, 22
- ◆ Configure Alerts, 23
- ◆ Create PowerCenter Read-Only Users, 24
- ◆ Grant Permissions to PowerCenter Read-Only User, 24
- ◆ Configure the Proactive Monitoring Solution, 24
- ◆ Configure the RulePoint Components, 25
- ◆ Validate the Installation, 27

Post-Installation Tasks

After installation, perform the post-installation tasks to ensure that the services for Proactive Monitoring for PowerCenter Governance run properly.

Restart RulePoint

Restart the Tomcat server instance that hosts RulePoint and Real-Time Alert Manager.

After you restart the Tomcat server, log in to RulePoint and Real-Time Alert Manager to ensure that the solution is correctly installed.

Create Users and Groups in RulePoint

Create users and groups in RulePoint based on the authentication mechanism.

The authentication mechanisms are LDAP, Active Directory, or RulePoint database authentication.

LDAP or Active Directory authentication.

You can use the scripts provided in the following location of the staging directory to create the LDAP or Active Directory users:

```
<Staging_folder>\Operations_2.5\exports\ldap
```

The Idif files provided in the ldap folder are for your reference. You must change the Idif files based on the Active Directory or LDAP configuration of your organization.

Create the users and add them to the rulepoint_users group. You must create the group as part of the Rulepoint configuration on LDAP or Active Directory.

1. Create the users.
Refer the following Idif scripts when you create the users or personas on LDAP or Active Directory:
 - ◆ pcmonitor. exports\ldap\pcmonitor.ldif
 - ◆ padmin. exports\ldap\padmin.ldif
 - ◆ apparchitect. exports\ldap\apparchitect.ldif
 - ◆ dataarchitect. exports\ldap\dataarchitect.ldif
 - ◆ itsecurity. exports\ldap\itsecurity.ldif
2. Add the users to the rulepoint_users group.

RulePoint database authentication.

To create RulePoint users, add users from the RulePoint administration menu.

1. Log in to RulePoint as the administrator.
The administrator owns all imported objects in RulePoint.
2. Add users pcmonitor, padmin, apparchitect, dataarchitect, and itsecurity.
Role is ROLE_USER for each RulePoint user.

Configure Alerts

Configure the users or personas to receive alerts through email, Real-Time Alert Manager, or both.

1. Configure Real-Time Alert Manager to receive alerts for the users.

After you create the users, log in to Real-Time Alert Manager with each of the five user IDs. You log in with the IDs to configure Real-Time Alert Manager to receive alerts for each of the users.

2. Configure the alert recipients for personas.

You can configure the delivery of alerts to personas using the **Alert Recipients** settings tab in the Proactive Monitoring Management Console. Edit the alerts recipients for each repository, workflow, or folder to monitor. For more information, see “Alert Recipients Parameters” on page 42.

Create PowerCenter Read-Only Users

Create the database user, `pcrs_readonly`, with read-only permissions to access each PowerCenter repository database.

Important: You must create the PowerCenter read-only user to enable the Proactive Monitoring solution to monitor the PowerCenter Repository Service.

The installer saves the text files to the staging directory. The text files contain the database scripts and instructions to create the PowerCenter read-only user with required privileges for the databases.

You can find the database scripts in the following path of the staging directory:

- ◆ **Oracle.** `..\<product_name>\ddl\powercenter\oracle\create_pc_user.txt`
 1. Log in as `sys`. Run the SQL commands in the `create_pc_user.txt` file to create the PowerCenter repository read-only user.
 2. Log in as the PowerCenter repository read-only user and run the `pcrs_readonly.ddl.sql` script.
- ◆ **Microsoft SQL Server.** `..\<product_name>\ddl\powercenter\mssql\create_pc_user.txt`
 1. Follow the steps in the `create_pc_user.txt` file to create the PowerCenter repository read-only user. Grant `SELECT` permission to `pcrs_readonly` on table, `sys.database_files`.
 2. Log in as the PowerCenter repository read-only user and follow the instructions in the `pcrs_readonly.ddl.sql` script.
- ◆ **IBM DB2.** `..\<product_name>\ddl\powercenter\db2\create_pc_user.txt`
 1. Follow the steps in the `create_pc_user.txt` file to create the PowerCenter repository read-only user.
 2. Log in as the PowerCenter repository read-only user and follow the instructions in the `pcrs_readonly.ddl.sql` script.

Note: `<product_name>` is either the `Operations_2.5` or `Governance_2.5` folder based on the installation.

Grant Permissions to PowerCenter Read-Only User

In Microsoft SQL Server, grant execute permissions to the PowerCenter read-only user on the functions, `TO_DATE_MMDDYYYYHHMI` and `TO_DATE_MMDDYYYYHHMISS`.

Detailed instructions on how to grant permissions to `pcrs_readonly` are available in the `create_pc_user.txt` file in the following directory of the installer:

```
..\resources\dbscripts\powercenter\sqlserver
```

Configure the Proactive Monitoring Solution

In the Proactive Monitoring Management Console, provide details of the nodes and application services you want to monitor.

You can access the Proactive Monitoring Management Console through a web browser.

```
http://<host>:<port>/pmpc
```


Replace <host> with the host name or IP address of the server where you install the Proactive Monitoring solution. Replace <port> with the HTTP port number of the Apache Tomcat server. Default is 8080.

RELATED TOPICS:

- ◆ “Logging In to the Management Console” on page 38

Configure the RulePoint Components

Configure the RulePoint components to work with the rules and services of Proactive Monitoring for PowerCenter Governance.

Determine the Frequency of Source Services

Determine the frequency of SQL source services and PMPC SQL Source services.

The alerting frequency of the sources must not be too high or too low. Each SQL Source can have a different schedule based on your requirements.

You can set the frequency for the SQL source services in the schedules. By default, schedules of all SQL source services are disabled. Activate the schedules of all the source services manually to start monitoring the PowerCenter artifacts.

You can set the frequency of the PMPC SQL Source services in the source configuration.

Edit Watchlists

Watchlists contains the items that you store as a single object with a unique name that you define. You can reference this name in a rule so that it can use the data stored in the object.

Watchlists are useful because you can change the items within the watchlist at any time, and any rule referencing that watchlist automatically uses those new items. Start modifying a small watchlist, and progressively add to it after you have a good understanding of the solution and the various configuration options.

1. Go to **Watchlists > Show Watchlists**.
2. Click the watchlist you want to edit.
3. In **View Watchlist: <watchlist name>** tab, click **Edit**.
4. Edit and save the changes.

For example, for the *PowerCenter Monitored Folders* watchlist, you can replace the entries with the list of folders in the repository that you want to monitor.

Configure Email Host

In RulePoint, edit the *PowerCenter Email Responder* service to add information about the email host server and its authentication credentials of the organization.

Real-Time Alert Manager is the default notification mode to receive alerts. You can set the default notification mode to email, Real-Time Alert Manager, or both through the Proactive Monitoring Management Console. You can configure the alert recipients for the personas through the Management Console.

1. Go to **Services > Show Services**.
2. In the **Services** tab, select **Class** as **Responders** and **Type** as **Email**.

3. Click the **PowerCenter Email Responder** service.
4. In **View Service: PowerCenter Email Responder** tab, click **Edit**.
5. Enter the required details for the email service and save the changes.

Configure Real-Time Alert Manager Responder Services

Configure the responder services of the Real-Time Alert Manager.

1. Go to **Services > Show Services**.
2. In the **Services** tab, select **Class** as `Responders` and **Type** as `RTAM`.
3. Click **RTAM** service.
4. In **View Service: RTAM** tab, click **Edit**.
5. Edit the connection URL field, `tcp://localhost:[port]` with the port number configured for Real-Time Alert Manager.

This value is available in the `activemq.xml`. For example, you can find the `activemq.xml` file in the following location of Tomcat server:

```
c:\tomcat\webapps\RTAM\WEB-INF\classes\activemq.xml
```

Information in the `amq:transportConnector` tag is the input for this field.

6. Enter the required details for the responder service and save the changes.

Start Source Services

Start all PMPC SQL source and Interval based SQL services.

You can use the *PMPC SQL source* service to connect to a database and run SQL queries or commands to create RulePoint events. The service waits for a configured period after the previous task has completed before running again. You can configure the time interval to wait between the task processing.

1. Log in to RulePoint.
2. Start all the relevant PMPC SQL Source services for Proactive Monitoring for PowerCenter Governance based on the monitoring requirements.
 - a. Go to **Services > Show Services**.
 - b. Click the particular PMPC SQL source services.
 - c. Go to **View Service**.
 - d. Click **Edit** and change the duration based on your requirements.
 - e. Click **Start** to start the service.

By default, the startup type is manual for the PMPC SQL Sources. You can change the startup type to automatic.

For example, *PowerCenter Sessions Modified Incremental* is a PMPC SQL source service. This service connects to the PowerCenter Repository Service and the status is *active* by default. The recommended schedule frequency for this service is 21600 seconds.

Start the Interval based SQL services

- ▶ Start all the relevant Interval based SQL services for Proactive Monitoring for PowerCenter Governance based on the monitoring requirements.
 - a. Go to **Services > Show Services**.
 - b. Click the particular Interval based SQL services.
 - c. Go to **View Service**.
 - d. Click **Edit** and change the duration based on your requirements.
 - e. Click **Start** to start the service.

By default, the startup type is manual for the Interval based SQL services. You can change the startup type to automatic.

Enable Source Schedules

Enable the schedules for all other source services.

1. Log in to RulePoint.
2. Enable the other source services for Proactive Monitoring for PowerCenter Governance.
 - a. Go to **Services > Show Services**.
 - b. Click the particular SQL source service.
 - c. Go to **PowerCenter Daily Alert History Purge Requestor > Status**.
 - d. Change the status to *active*.
 - e. Repeat step a to step e for all other source services.

Validate the Installation

After you complete installation, configure the Proactive Monitoring solution, and enable the Proactive Monitoring schedules and services, you can see that the events are generated.

When the events are generated, you receive alerts in the Real-Time Alert Manager dashboard or through the configured email. Log in to Real-Time Alert Manager to check alert generation. This verifies that the installation is successful.

For example, create a mapping in PowerCenter Designer. When you save the mapping, you get an email or Real-Time Alert manager alert if the mapping is not valid.

CHAPTER 7

Upgrading Proactive Monitoring for PowerCenter Governance

This chapter includes the following topics:

- ◆ Upgrading Proactive Monitoring for PowerCenter Governance Overview, 28
- ◆ Before You Upgrade, 28
- ◆ Upgrading in Graphical Mode, 29
- ◆ Upgrading in Console Mode, 31
- ◆ After You Upgrade, 32

Upgrading Proactive Monitoring for PowerCenter Governance Overview

You can upgrade Proactive Monitoring for PowerCenter Governance 2.0 to 2.5 on Windows, Linux, or AIX. You can run the upgrade installer in graphical or console mode. Complete the pre-upgrade tasks to prepare for the upgrade.

You can upgrade to Proactive Monitoring for PowerCenter Governance to 2.5 from a DVD or from the root of the directory where you download the installation files. When you run the installer for upgrade, provide the correct location for `$RP_HOME`.

You must use the Proactive Monitoring Management Console to provide details of the PowerCenter domain that you want to monitor.

Before You Upgrade

Before you upgrade Proactive Monitoring for PowerCenter Governance, set up the machine to meet the requirements to install and run the Proactive Monitoring solution.

Complete the following prerequisites before you upgrade to Proactive Monitoring for PowerCenter Governance 2.5:

1. Ensure that Proactive Monitoring for PowerCenter Governance 2.0 is installed on the current system.

- On Linux, the user who runs the installer must have read, write, and execute permissions on the installer and its files directory, and write access to the `/tmp` directory. The `/tmp` directory must have sufficient space, a minimum of 50 MB, for the installer to perform the upgrade.

Upgrading in Graphical Mode

You can upgrade in graphical mode on Windows, Linux, or AIX.

- Shut down the instance of Apache Tomcat application server where RulePoint is deployed.
- Run the Proactive Monitoring for PowerCenter Governance installer based on the operating system.
 - ◆ To upgrade on Windows, run `Informatica_PMPC_Governance_2.5.exe` from the root directory.
 - ◆ To upgrade on Linux or AIX, use a shell command line to run `Informatica_PMPC_Governance_2.5.bin` from the root directory with `-i gui` option for graphical mode installation. For example, enter


```
Informatica_PMPC_Governance_2.5.bin -i gui
```

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

The **Choose Staging Folder** page appears.

- Specify the staging directory.

The following table shows the default location of the staging folder:

Operating System	File Path
Windows	<code>C:\PMPC_Governance_2.5</code>
Linux and AIX	<code>/home/PMPC_Governance_2.5</code>

- Click **Next**.

The **RulePoint Deployment Directory** page appears.

- Enter the path to `$RP_HOME`.

Enter the path of the RulePoint directory in the Apache Tomcat server.

```
c:\tomcat\webapps\rulepoint
```

- Click **Next**.

The **Installation Type** page appears.

- Verify the installation requirements, and click **Next**.

The **Proactive Monitoring Database Configuration** page appears.

- Enter the details for the Proactive Monitoring database.

The following table describes the properties that you specify for the Proactive Monitoring database:

Property	Description
Database User Name	Name for the Proactive Monitoring database user account. By default, it is the name of the RulePoint user account.

Property	Description
	If the Proactive Monitoring database is not same as the RulePoint database, it is the user account information for the pc_rp user that you created through the create_rp_user.txt script.
Database Password	Password for the Proactive Monitoring database user account. The password is same as the password that you provide when you create the Proactive Monitoring database user.
Database Host	Host address of the Proactive Monitoring database.
Database Port	Port number of the Proactive Monitoring database. For example, the default port number is 1521 on Oracle.
Service Name or SID	Service name for Oracle and IBM DB2 databases or database name for Microsoft SQL Server. For example, on Oracle, <code>ServiceName=orcl.informatica.com</code> .
JDBC Parameters	<p>Optional parameters to include in the database connection string. For example, you can use the following optional parameters for an Oracle database:</p> <pre>MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true</pre> <p>Use the parameters to optimize database operations for the configuration database. You can use the default parameters or you can add or change the parameters based on your database requirements.</p> <p>Verify that the parameter string is valid. If not selected, the installer creates the JDBC URL without additional parameters.</p>

If you select **Custom JDBC Connection String for DataDirect Driver**, type the connection string. For example, you can refer the following JDBC URL for an Oracle database:

```
jdbc:informatica:oracle://localhost:
1521;ServiceName=orcl.informatica.com;MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true
```

10. Click **Test Connection** to verify that you can connect to the database.
11. Click **Next**.
12. Review the pre-installation summary, and click **Install**.
After the installation is complete, the **Install Complete** page appears.
13. Review the post installation tasks.
14. Click **Done** to complete the installation procedure and then exit the installer.

Upgrading in Console Mode

You can upgrade in console mode on Windows, Linux, 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. Shut down the instance of Apache Tomcat application server where RulePoint is deployed.
2. At the command prompt for Windows or on shell command line for Linux and AIX, run the Proactive Monitoring for PowerCenter Governance installer located in the root directory.
3. Enter the Proactive Monitoring for PowerCenter Governance executable name with the option -i console.
 - ◆ For Windows, enter `Informativa_PMPC_Governance_2.5.exe -i console`.
 - ◆ For Linux or AIX, enter `Informativa_PMPC_Governance_2.5.bin -i console`.
4. In the **Introduction** section, press **Enter**.
The **Choose Staging Folder** section appears.
5. Specify the staging directory.

The following table shows the default location of the staging folder:

Operating System	File Path
Windows	C:\PMPC_Governance_2.5
Linux and AIX	/home/PMPC_Governance_2.5

6. Enter Y to confirm the staging directory path.
The **RulePoint Deployment Directory** section appears.
7. Enter the path to \$SRP_HOME.
Enter the path of the RulePoint directory in the Apache Tomcat server.
`c:\tomcat\webapps\rulepoint`
8. Press **Enter**.
The **Installation Type** section appears.
9. Verify the installation requirements, and click **Next**.
The **Proactive Monitoring Database Configuration** section appears.
10. Enter the details for the Proactive Monitoring database.
The following table describes the properties that you specify for the Proactive Monitoring database:

Property	Description
Database User Name	Name for the Proactive Monitoring database user account. By default, it is the name of the RulePoint user account. If the Proactive Monitoring database is not same as the RulePoint database, it is the user account information for

Property	Description
	the pc_rp user that you created through the create_rp_user.txt script.
Database Password	Password for the Proactive Monitoring database user account. The password is same as the password that you provide when you create the Proactive Monitoring database user.
Database Host	Host address of the Proactive Monitoring database.
Database Port	Port number of the Proactive Monitoring database. For example, the default port number is 1521 on Oracle.
Service Name or SID	Service name for Oracle and IBM DB2 databases or database name for Microsoft SQL Server. For example, on Oracle, ServiceName=orcl.informatica.com.
JDBC Parameters	<p>Optional parameters to include in the database connection string. For example, you can use the following optional parameters for an Oracle database:</p> <pre>MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true</pre> <p>Use the parameters to optimize database operations for the configuration database. You can use the default parameters or you can add or change the parameters based on your database requirements.</p> <p>Verify that the parameter string is valid. If not selected, the installer creates the JDBC URL without additional parameters.</p>

If you select **Custom JDBC Connection String for DataDirect Driver**, type the connection string. For example, you can refer the following JDBC URL for an Oracle database:

```
jdbc:informatica:oracle://localhost:1521;ServiceName=orcl.informatica.com;MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true
```

11. Press **Enter**.
12. Review the pre-installation summary, and then press **Enter**.
After the installation is complete, the **Install Complete** section appears.
13. Review the post installation tasks.
14. Press **Enter** to complete the installation and exit the installer.

After You Upgrade

After you upgrade, perform the post-installation tasks to ensure that the services for Proactive Monitoring for PowerCenter Governance run properly.

1. Restart the Apache Tomcat instance that hosts RulePoint and Real-Time Alert Manager.

2. Run the cleanup tool to remove the obsolete templates, advanced rules, and associated template rules from previous versions of Proactive Monitoring for PowerCenter Governance.

For more information, see “Cleanup Tool” on page 33.

3. In the Proactive Monitoring Management Console, provide details of the nodes and application services that you want to monitor.

Launch Proactive Monitoring Management Console to configure the solution. You can access the Proactive Monitoring Management Console through a web browser.

```
http://<host>:<port>/pmpc
```

Replace <host> with the host name or IP address of the server where you install the Proactive Monitoring solution. Replace <port> with the HTTP port number of the Apache Tomcat server. Default is 8080.

4. In RulePoint, enable schedules for the SQL sources and start Rulepoint services based on the monitoring requirements.

Cleanup Tool

After upgrading, use the cleanup utility to remove obsolete rules and templates from the previous release.

Upgrading Proactive Monitoring for PowerCenter Governance 2.0 to 2.5 creates some rules and templates with new names. The rules and templates configured for Proactive Monitoring for PowerCenter Governance 2.5 install are also available. You can use the cleanup utility to remove the rule and templates with the old names.

The cleanup utility tool does not delete any new template rules and its associated template that you might have created or customized in Proactive Monitoring for PowerCenter Governance 2.0.

Important: Ensure to export all XML files from RulePoint to back up the XML files before you run the cleanup utility. You have to perform the customizations that you might have done for any advanced rule, template, or template rules. Do not change the standard rules that are part of the solution. You can create new advanced rules or template rules instead.

After you install Proactive Monitoring for PowerCenter Governance 2.5, use the `input_pmpc_2.1_gov.xml` to remove the old rules.

The input XML files for the cleanup utility are available in the `$RP_HOME\Solutions\PCPM\tools\bin` directory.

Usage

```
cleanup.sh -c <URL> -u username -p password -i <input.xml> -o <output.xml> -dbuser <user_name> -dbpass <password> -z
```

- ◆ The `-z` option deletes the rules and templates. If you do not specify `-z`, the delete does not occur. You can review the `output.xml` to see if you have selected the correct set of rules to delete. Use the `-z` option to finalize the delete.
- ◆ The `-o` option logs in to the specified `output.xml`.

The following table describes the parameters used by the cleanup tool:

Parameters	Description	Mandatory
<code>-c <url></code> , <code>-connect <url></code>	Proactive Monitoring connection URL	Yes
<code>-u <username></code> , <code>-uname <username></code>	Proactive Monitoring user name	Yes
<code>-p <password></code> , <code>-password <password></code>	Proactive Monitoring password	Yes

Parameters	Description	Mandatory
-du <username>, -dbuser <username>	Proactive Monitoring repository database user name	Yes
-dp <password>, -dbpass <password>	Proactive Monitoring repository database password	Yes
-i <input file path>, -input <input file path>	Path of the input XML file	Yes
-o <output file path>, -output <output file path>	Path of the output XML file	No
-z, -finalize	Finalize the modifications	Yes

CHAPTER 8

Troubleshooting the Proactive Monitoring Installation

This chapter includes the following topic:

- ◆ Troubleshooting Real-Time Alert Manager to Receive Alerts, 35

Troubleshooting Real-Time Alert Manager to Receive Alerts

Alerts do not show up in the Real-Time Alert Manager dashboard even when you start all the services after installation.

1. Ensure that you create the personas or users required by Proactive Monitoring for PowerCenter Governance, such as pcmonitor, dataarchitect, padmin, apparchitect, and itsecurity.
2. Log in to Real-Time Alert Manager with these user IDs.
3. Check the Proactive Monitoring Management Console for the correct details of PowerCenter domain, PowerCenter repository service, personas, email, and Real-Time Alert Manager users.
4. Check the global settings for the Proactive Monitoring user through the Proactive Monitoring Management Console. Ensure that the default entries for Real-Time Alert Manager are available.
5. Ensure that all responders are active. System errors disable rules and responders.
6. Check the pc_notification events created under the **Events** tab in RulePoint.
7. Ensure that all the sources are running.
8. For SQL sources, ensure that the schedules are active.
9. Review the rulepoint.log file and resolve any exceptions.

CHAPTER 9

Proactive Monitoring Configuration

This chapter includes the following topics:

- ◆ Proactive Monitoring Configuration Overview, 36
- ◆ Proactive Monitoring Management Console, 36
- ◆ Logging In to the Management Console, 38
- ◆ Setup Configuration, 38
- ◆ Host Properties, 39
- ◆ Node Properties, 40
- ◆ Monitoring a PowerCenter Repository Service, 40
- ◆ Settings Configuration, 41
- ◆ Global Settings Parameters, 41
- ◆ Alert Recipients Parameters, 42
- ◆ Source Timestamp Configuration, 44

Proactive Monitoring Configuration Overview

Configure the Proactive Monitoring solution to connect to the PowerCenter domain that you want to monitor.

A PowerCenter domain can contain multiple repository services, repository databases, PowerCenter Integration Service, and Web Services Hub running on multiple physical or virtual machines.

To monitor PowerCenter best practices, the Proactive Monitoring solution collects data from the PowerCenter repository databases at regular intervals. The Proactive Monitoring solution uses the collected information to check for anomalies in the metadata of PowerCenter artifacts, and alert appropriate users. The alert messages contain required contextual information, such as the PowerCenter artifact name and the cause of the alert.

You can use the Proactive Monitoring Management Console to configure the Proactive Monitoring solution.

Proactive Monitoring Management Console

The Proactive Monitoring Management Console is a web application that you can use to configure the Proactive Monitoring solution to monitor the PowerCenter domain.

You can use the Management Console to add details of PowerCenter hosts, nodes, grids, and the application services that you want to monitor. The application services include the PowerCenter Repository Service, the PowerCenter Integration Service, and the Web Services Hub. You can use the Management Console to change the monitoring solution settings and the mode of alert delivery, whether to use email or RTAM.

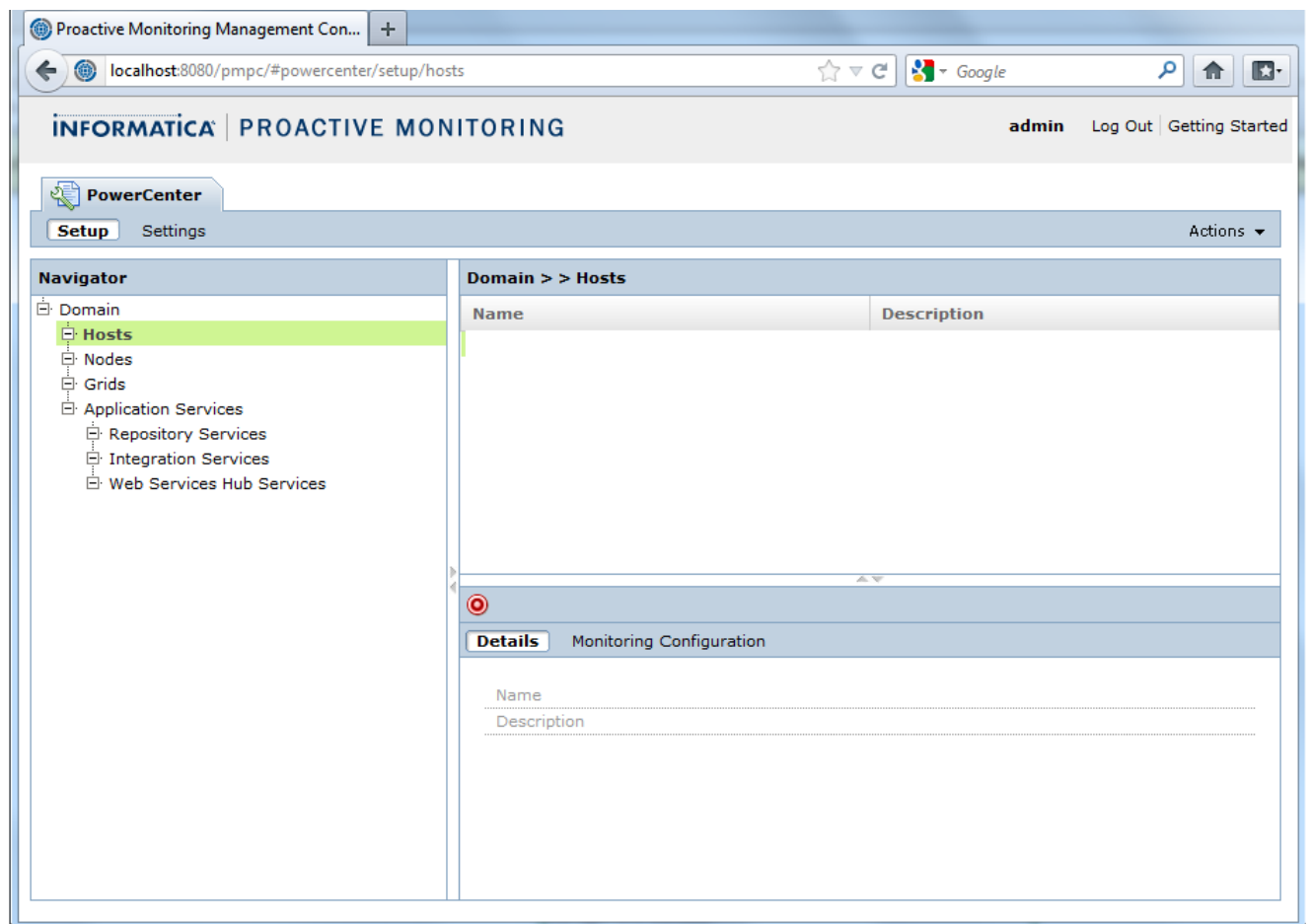
A single installation of the Proactive Monitoring solution can monitor a single domain, with its multiple PowerCenter repository databases, application services, and hosts.

Proactive Monitoring for PowerCenter Governance connects to the PowerCenter repository to monitor the coding violations. You can connect the Proactive Monitoring solution to the PowerCenter Repository Service through the Management console.

Proactive Monitoring Management Console Interface

The Proactive Monitoring Management Console includes a Setup and Settings tab.

The following illustration shows the Proactive Monitoring Management Console:



Setup Tab

You can use the Setup tab to configure the PowerCenter domain to monitor. You can provide details about the hosts, nodes, and the application services of the domain in the Setup tab.

Settings Tab

You can use the Settings tab to configure the default global settings to receive alerts and the default alert recipients. You can also configure the source timestamp for each workflow from its startup time.

Logging In to the Management Console

To log in to the Proactive Monitoring Management Console, you must have a RulePoint administrator account.

1. Open Microsoft Internet Explorer or Mozilla Firefox.
2. In the address field, enter the following URL for the Informatica Proactive Monitoring login page:

```
http://<host>:<port>/pmpc
```

Replace <host> with the host name or IP address of the server where you install the Proactive Monitoring solution. Replace <port> with the HTTP port number of the Apache Tomcat server. Default is 8080.

If you configure the Apache Tomcat server with SSL, enter the following URL for the Informatica Proactive Monitoring login page:

```
https://<host>:<port>/pmpc
```

The **Informatica Proactive Monitoring** login page appears.

3. Enter the user name and password.
The default user name and password is the administrator credentials of RulePoint.
4. Click **Log In**.

RELATED TOPICS:

- ◆ “Configure the Proactive Monitoring Solution” on page 24

Setup Configuration

You can use the Proactive Monitoring Management Console to provide details about the hosts, nodes, and the application services that you want to monitor in the PowerCenter domain.

1. In the navigator, select the type of object that you want to add to the Management Console.
2. From the **Actions** menu, click **New**.
You can edit and delete an existing configuration.
3. Configure the object properties.

Steps to configure the Proactive Monitoring solution to monitor a PowerCenter domain

1. Provide details of hosts that you want to monitor.
See “Host Properties” on page 39.
2. Provide details of nodes that you want to monitor.

- See “Node Properties” on page 40.
3. Provide details of PowerCenter Repository Services that you want to monitor.
See “Monitoring a PowerCenter Repository Service” on page 40.
 4. Configure global settings.
See “Global Settings Parameters” on page 41.
 5. Configure alert recipients.
See “Alert Recipients Parameters” on page 42.
 6. Configure source timestamps.
See “Source Timestamp Configuration” on page 44.

Host Properties

The following table describes the host properties that you need to enter:

Property	Description
Name	Host name of the machine that you want to monitor. The host name must be the same that you specify when you define a PowerCenter node.
Description	Description of the host. The description cannot exceed 200 characters.
Top CPU stats	Number of the highest CPU consumers that you want to record from the host. Use this property for Proactive Monitoring for PowerCenter Operations. Retain the default value for Proactive Monitoring for PowerCenter Governance.
Top Memory stats	Number of the highest memory consumers that you want to record from the host. Use this property for Proactive Monitoring for PowerCenter Operations. Retain the default value for Proactive Monitoring for PowerCenter Governance.
Frequency	The time interval at which the node agent collects the memory and CPU statistics from the host. Use this property for Proactive Monitoring for PowerCenter Operations. Retain the default value for Proactive Monitoring for PowerCenter Governance.
Processes	List of specified process names that you want to monitor. Enter the process names separated by comma. You can monitor any process running in the host. For example, you can monitor PowerCenter processes, such as pmdtm, pmreagent, or pmsserver. Use this property for Proactive Monitoring for PowerCenter Operations. Retain the default value for Proactive Monitoring for PowerCenter Governance.

Node Properties

The following table describes the node properties that you need to enter:

Property	Description
Name	Name of the node associated with the host.
Description	Description of the node. The description cannot exceed 200 characters.
Host	Host name of the node.

Monitoring a PowerCenter Repository Service

You can use the Proactive Monitoring Management Console to provide details of the PowerCenter Repository Service that you want to monitor.

The following table describes the PowerCenter Repository Service properties that you need to enter:

Property	Description
Monitor Option	You can choose from the following options: <ul style="list-style-type: none">- Operations. You want to monitor the run-time environment.- Governance. You want to monitor the design-time environment.- Both. You want to monitor the run-time and design-time environments.
Name	Name of the PowerCenter Repository Service.
Description	Description of the PowerCenter Repository Service. The description cannot exceed 200 characters.
Deploy Type	You can choose one of the following options: <ul style="list-style-type: none">- Standalone. You want to monitor the PowerCenter Repository Service that runs on a single node.- High Availability. You want to monitor the PowerCenter Integration Service that runs on primary and backup nodes configured for high availability.
Primary Node	The primary node on which the PowerCenter Repository Service runs on.
Backup Node	The backup nodes configured for the PowerCenter Repository Service in a highly available domain.
Connection URL	The DataDirect JDBC connection string used to connect to the repository database.

Property	Description
	<p>The following list shows the sample connection string for the databases:</p> <ul style="list-style-type: none"> - Oracle. <pre>oracle.database.url=jdbc:informatica:oracle:// <host>:<port>;databaseName=<SID></pre> - IBM DB2. db2.database.url=jdbc:informatica:db2:// <pre><host>:<port>;databaseName=<SID></pre> - Microsoft SQL Server. <pre>mssql.database.url=jdbc:informatica:sqlserver:// <host>:<port>;databaseName=<SID></pre> <p>Note: The connection URL validates the database connectivity while saving the configuration. Provide valid connection information to save the PowerCenter Repository Service configuration.</p>
Read-Only User Name	<p>Database user name with read-only permissions to access PowerCenter repository.</p> <p>The staging directory of the solution has a ddl folder that has the files with the database scripts and the instructions to create the PowerCenter read-only user with the required privileges.</p>
Read-Only Password	<p>Password for the PowerCenter read-only user.</p>
State	<p>You can choose one of the following options:</p> <ul style="list-style-type: none"> - Enabled. You want to monitor the PowerCenter Repository Service and receive alerts. - Disabled. You do not want to monitor the PowerCenter Repository Service.

Settings Configuration

You can use the Proactive Monitoring Management Console to configure the global settings, alert recipients, and the source timestamp parameters.

1. In the navigator, select the type of object that you want to configure in the Management Console.
2. From the **Actions** menu, click **New** or **Edit**.

You can edit the global settings and the source timestamp configurations. You can add, edit, and delete the alert recipients configurations.

3. Provide details of the object properties.

Global Settings Parameters

You can change the default response delivery method for alerts. Use the **Global Settings** option in the Management Console to change the global settings for response delivery, configure the notification framework and shadow table framework.

Every template and advanced rule in the Proactive Monitoring solution that is responsible for sending alerts uses a single response, PowerCenter Notification Response. The predefined response uses Real-Time Alert Manager alerts as the default delivery mechanism.

The Proactive Monitoring Management Console contains the default values of the global setting parameters. You can edit the parameters based on the requirements.

The following table lists the attributes that you can configure using the Global Settings option:

Attribute	Description
Do Not Disturb	Settings to temporarily stop alerts. For example, set this value to Yes if the monitored PowerCenter instance is down for maintenance. Proactive Monitoring does not send out alerts during the maintenance period. After the maintenance is over, you can reset the value to No . Default is No.
Alert Purge Frequency	Alert history purge duration specifies the time to retain alert history. The Proactive Monitoring solution database tables contains the alert history. These tables grow with time, and it is a good practice to archive and purge these tables. This attribute specifies the time, in days, to retain the history. All alerts older than this time are archived and purged. Default is 60 days.
Default Notification	Default notification method. You can set the default notification method to RTAM or email, or both. Default is RTAM.
Alert Hyperlink	Alert hyperlink URL included in each Real-Time Alert Manager alert or email alert that the Proactive Monitoring solution sends. You can set this URL to an intranet web page, email ID, or a distribution list. The Proactive Monitoring solution includes a default hyperlink with every notification that points to a landing page. This landing page contains information about the PowerCenter Monitoring project of the organization with contact information. Default is https://community.informatica.com/solutions/1514 .
Workflows and Sessions Persisted	Sets the number of records to persist in the shadow table. The number of records persisted is twice the number of the value entered for this attribute. For example, if the number of workflows and sessions persisted is five, the Proactive Monitoring solution retains the last 10 records in the shadow tables. The shadow tables of <i>pc_completed_workflows</i> and <i>pc_completed_sessions</i> retains these last 10 records. Default is 5. Note: This setting is not applicable for Proactive Monitoring for PowerCenter Governance.

Alert Recipients Parameters

You can use the Alert Recipients option of the Proactive Monitoring Management Console to configure the default alert recipients.

When an event occurs, the alert recipients get alerts through email, Real-Time Alert Manager, or both. The alert recipients get the alerts based on the value specified in the default notification global setting.

The following table lists the attributes that you can configure for the Alert Recipients:

Property	Description
Domain	Domain name of the PowerCenter Repository Service.
Repository Service	Name of the PowerCenter Repository Service for which you want to receive alerts. Leave it blank if you want to use the configuration for all PowerCenter Repository Services in the domain.
Folder	Name of the folder for which you want to receive alerts. Leave it blank if you want to use the configuration for all the folders of the PowerCenter repository. The configuration for the folder name will not be used if the PowerCenter Repository Service name is blank.
Workflow	Name of the workflow for which you want to receive alerts. Leave it blank if you want to use the configuration for all the workflows of the PowerCenter Repository Service. The configuration for the folder name will not be used if the Repository Service name or the Folder name is blank.
pcmonitor RTAM List	Real-Time Alert Manager IDs of the users that you want to associate with the pmonitor persona. Enter the IDs separated by semicolon.
pcmonitor Email List	Email IDs of the users that you want to associate with pmonitor persona list. Enter the IDs separated by comma.
pcadmin RTAM List	Real-Time Alert Manager IDs of the users that you want to associate with pcadmin persona list. Enter the IDs separated by semicolon.
pcadmin Email List	Email IDs of the users that you want to associate with pcadmin persona list. Enter the IDs separated by comma.
apparchitect RTAM List	Real-Time Alert Manager IDs of the users that you want to associate with apparchitect persona list. Enter the IDs separated by semicolon.
apparchitect Email List	Email IDs of the users that you want to associate with apparchitect persona list. Enter the IDs separated by comma.
dataarchitect RTAM List	Real-Time Alert Manager IDs of the users that you want to associate with dataarchitect persona list. Enter the IDs separated by semicolon.
dataarchitect Email List	Email IDs of the users that you want to associate with dataarchitect persona list. Enter the IDs separated by comma.
itsecurity RTAM List	Real-Time Alert Manager IDs of the users that you want to associate with itsecurity persona list. Enter the IDs separated by semicolon.
itsecurity Email List	Email IDs of the users that you want to associate with itsecurity persona list. Enter the IDs separated by comma.

Note: The Management Console does not validate the configuration information provided for alert recipients. Provide valid values for every field before you save the configuration.

After you save the alert recipient configuration, you cannot change the values in the Repository Service, Folder, and Workflow fields. You can change the email and RTAM values. To change the values for Repository Service, Folder, or Workflow, you must delete the existing alert recipient configuration and create again.

Source Timestamp Configuration

The Proactive Monitoring installer updates the value of the `tstamp` parameter for source services to that of the system time. You can leave this value as it is, the monitoring of the PowerCenter artifacts will start from the time defined in the `tstamp` parameter. The PMPC SQL source service updates the `tstamp` each time the service runs.

You can update the `tstamp` parameter to have the PMPC SQL Source fetch older events. The `tstamp` parameter value must not be too old or a future value. If you set the `tstamp` to a past time that is too old, you might receive unwanted alerts. If you set the `tstamp` to a future time, you will not receive any alerts.

The installer updates the following services with the `tstamp` value:

- PowerCenter Command Tasks
- PowerCenter Mappings Modified Incremental
- PowerCenter Mapplets Modified Incremental
- PowerCenter Sessions Modified Incremental
- PowerCenter Transforms Modified Incremental
- PowerCenter Workflows Modified Incremental
- PowerCenter Worklets Modified Incremental

Configuring Source Timestamp

You can use the Proactive Monitoring Management Console to change the source timestamp.

1. On the **Settings** tab, click **Source Timestamp**.
2. Select a source for an appropriate repository service.
3. From the **Actions** menu, click **Edit**.
The **Source Timestamp Configuration** page appears.
4. Enter the timestamp parameter values for the source.
Do not change default time format.
5. Click **Save**.

CHAPTER 10

Proactive Monitoring Watchlists

This chapter includes the following topic:

- ◆ Proactive Monitoring Watchlists, 45

Proactive Monitoring Watchlists

The following table lists the predefined watchlists that are available by default upon installing Proactive Monitoring for PowerCenter Governance:

Watchlists Name	Description
PowerCenter Workflow Attributes	The list of PowerCenter workflow attributes.
PowerCenter Transformation Attributes	The list of PowerCenter transformation attributes.
PowerCenter Monitored Folders	The list of PowerCenter folders that are monitored. To receive notifications add your folder names to this watchlist. If the folder is same for multiple PowerCenter repositories, you receive this notification for all configured repositories.
PowerCenter Session Attributes	The list of PowerCenter session attributes.
PowerCenter Default Transformation Names	The list of default names which should be renamed while creating PowerCenter transformations. Notifications will be sent if the transformation names specified in the list are used.
PowerCenter CLI commands Watchlists	The list of CLI commands which should not be used in PowerCenter tasks of type Command.

CHAPTER 11

Proactive Monitoring Topics

This chapter includes the following topic:

- ◆ Proactive Monitoring Topics, 46

Proactive Monitoring Topics

The following table lists the predefined topics that are available by default upon installing Proactive Monitoring for PowerCenter Governance:

Topic Name	Description
pc_notifications	This topic contains event properties associated with the proactive monitoring notification framework.
pc_alert_history_purge_request	This topic contains event properties associated with the alert history purge request. Source: PowerCenter Daily Alert History Purge Requestor
pc_pmpc_global_settings	This topic contains event properties associated with global settings framework. Source: PowerCenter Load PMPC Global Settings from Database
pc_sessions	This topic contains event properties associated with PowerCenter sessions. Source: PowerCenter Sessions Modified Incremental
pc_mapplets	This topic contains event properties associated with PowerCenter mapplets. Source: PowerCenter Mapplets Modified Incremental
pc_worklets	This topic contains event properties associated with the PowerCenter worklets. Source: PowerCenter Worklets Modified Incremental
pc_transforms	This topic contains event properties associated with PowerCenter transformations. Source: PowerCenter Transforms Modified Incremental

Topic Name	Description
pc_mappings	<p>This topic contains event properties associated with PowerCenter mappings.</p> <p>Source: PowerCenter Mappings Modified Incremental</p>
pc_workflows	<p>This topic contains event properties associated with the PowerCenter workflows.</p> <p>Source: PowerCenter Workflows Modified Incremental</p>
pc_command_tasks	<p>This topic contains event properties associated with Command task type used in PowerCenter workflows.</p> <p>Source: PowerCenter Command Tasks</p>

CHAPTER 12

Proactive Monitoring Services

This chapter includes the following topics:

- ◆ Source Services, 48
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Source Services

The source services fetch data from PowerCenter repositories and run-time instances which are used for rule evaluation.

The following table lists the predefined source services that are available by default after installing Proactive Monitoring for PowerCenter Governance:

Source Service Name	Description	Properties
PowerCenter Command Tasks	Retrieve the details of "Command" task type used in PowerCenter workflows.	<ul style="list-style-type: none">- Type: PMPC SQL Source- Topic: pc_command_tasks- Connected to: PowerCenter Repository (pcrs_readonly)- Default interval: 21600 seconds
PowerCenter Daily Alert History Purge Requestor	Retrieve alert history purge frequency from the global settings framework. The frequency is used for purging the alert history.	<ul style="list-style-type: none">- Type: SQL- Topic: pc_alert_history_purge_request- Connected to: Rulepoint Repository (pc_rp)- Default interval: Daily
PowerCenter Load PMPC Global Settings from Database	Retrieve Proactive Monitoring global settings from the RulePoint database.	<ul style="list-style-type: none">- Type: SQL- Topic: pc_pmpc_global_settings- Connected to: Rulepoint Repository (pc_rp)- Default interval: 21600 seconds
PowerCenter Mappings Modified Incremental	Retrieve the details of the PowerCenter mappings modified since the last run.	<ul style="list-style-type: none">- Type: PMPC SQL Source- Topic: pc_mappings- Connected to: PowerCenter Repository (pcrs_readonly)- Default interval: 21600 seconds

Source Service Name	Description	Properties
PowerCenter Mapplets Modified Incremental	Retrieve the details of the PowerCenter mapplets modified since the last run.	<ul style="list-style-type: none"> - Type: PMPC SQL Source - Topic: pc_mapplets - Connected to: PowerCenter Repository (pcrs_readonly) - Default interval: 21600 seconds
PowerCenter Sessions Modified Incremental	Retrieve the details of PowerCenter sessions modified since the last run.	<ul style="list-style-type: none"> - Type: PMPC SQL Source - Topic: pc_sessions - Connected to: PowerCenter Repository (pcrs_readonly) - Default interval: 30 seconds
PowerCenter Transforms Modified Incremental	Retrieve the details of PowerCenter transformations modified since the last run.	<ul style="list-style-type: none"> - Type: PMPC SQL Source - Topic: pc_transforms - Connected to: PowerCenter Repository (pcrs_readonly) - Default interval: 21600 seconds
PowerCenter Workflows Modified Incremental	Retrieve the details of PowerCenter workflows modified since the last run.	<ul style="list-style-type: none"> - Type: PMPC SQL Source - Topic: pc_workflows - Connected to: PowerCenter Repository (pcrs_readonly) - Default interval: 21600 seconds
PowerCenter Worklets Modified Incremental	Retrieve the details of PowerCenter worklets modified since the last run.	<ul style="list-style-type: none"> - Type: PMPC SQL Source - Topic: pc_worklets - Connected to: PowerCenter Repository (pcrs_readonly) - Default interval: 21600 seconds

Analytics

RulePoint analytics implement a data processing function, and it can be referenced in rule activations.

The following table lists the predefined analytics that are available by default after installing Proactive Monitoring for PowerCenter Governance:

Name	Connects to...	Analytic Type	Description
pc_get_alert_history_csv	RulePoint Repository	SQL	Obtain alert history for the previous N days for reporting purposes.
pc_get_alert_history_purge_count	RulePoint Repository	SQL	Obtain the count of alert history records to be purged.
pc_get_email	RulePoint Repository	SQL	Obtain the email address for a specified recipient of an alert.
pc_get_rtam	RulePoint Repository	SQL	Obtain the Real-Time Alert Manager target for a specified recipient of an alert.

Name	Connects to...	Analytic Type	Description
pc_get_global_setting	RulePoint Repository	SQL	Obtain value from the global settings framework for a specified attribute name.
pc_get_purge_cutoff_date	RulePoint Repository	SQL	Obtain the text string for the cutoff date. The cutoff date will be specified in the alerts.
pc_recent_alert	Rulepoint Repository	SQL	Check if a recent alert has been sent for a specific rule name, key-value combination, and a snooze interval. The snooze parameter determines the most recent alert.
pc_is_mapping_duplicate	PowerCenter Repository	PMPC SQL Analytic	Obtain the duplicates of a specified mapping in all other folders.
pc_is_session_duplicate	PowerCenter Repository	PMPC SQL Analytic	Obtain the duplicates of a specified session in all other folders.
pc_is_workflow_duplicate	PowerCenter Repository	PMPC SQL Analytic	Obtain the duplicates of a specified workflow in all other folders.
pc_get_session_details_for_mapping	PowerCenter Repository	PMPC SQL Analytic	Obtain PowerCenter session details corresponding to the specified mapping.
pc_get_session_attribute	PowerCenter Repository	PMPC SQL Analytic	Obtain the value for a specified session attribute name.
pc_get_session_attribute_count	PowerCenter Repository	PMPC SQL Analytic	Obtain count for a specified session attribute name and value.
pc_get_workflow_attribute	PowerCenter Repository	PMPC SQL Analytic	Obtain the workflow attribute for a specified workflow.
pc_get_workflow_attribute_count	PowerCenter Repository	PMPC SQL Analytic	Obtain the number of workflows for a specified attribute value.
pc_get_transform_attribute	PowerCenter Repository	PMPC SQL Analytic	Obtain the value for a specified transformation attribute.
pc_get_transform_attribute_count	PowerCenter Repository	PMPC SQL Analytic	Obtain the number of transformations for a specified attribute value.
pc_get_session_mapping_attribute	PowerCenter Repository	PMPC SQL Analytic	Obtain the mapping attributes for a specified session.
pc_get_task_parent_failure_options	PowerCenter Repository	PMPC SQL Analytic	Obtain the value of failed parent task option for a specified session.
pc_is_session_on_test_load	PowerCenter Repository	PMPC SQL Analytic	Check if a session has the Enable Test Load attribute set.
rs_formatter	RulePoint Repository	SQL	This formats the rs value in the notification response.

Responder Services

With a responder service, you can define the interface parameters for a particular type of response, that is the action to be taken when a rule activates. From a single responder service, you can create multiple specific responses.

The following table lists the predefined responder services that are available by default after installing Proactive Monitoring for PowerCenter Governance:

Responder Service Name	Description	Properties
PowerCenter Alert History Purge Responder	Responds to events by purging alert history older than the specified number of days.	<ul style="list-style-type: none">- Type: SQL Responder- Topic: -- Connected to: Rulepoint Repository (pc_rp)
PowerCenter Alert Recorder	The alert recorder stores details of alerts in the RulePoint database.	<ul style="list-style-type: none">- Type: SQL Responder- Topic: -- Connected to: Rulepoint Repository (pc_rp)
PowerCenter Email Responder	Responds to events by sending email alerts.	<ul style="list-style-type: none">- Type: Email- Topic: -- Connected to: Email server
PowerCenter Notification Responder	Responds to events by transforming them as notification events.	<ul style="list-style-type: none">- Type: Event Transformer- Topic: pc_notifications- Connected to: -
RTAM	Sends notifications to the Real-Time Alert Manager.	<ul style="list-style-type: none">- Type: RTAM Responder- Topic: -- Connected to: -

CHAPTER 13

Proactive Monitoring Templates and Rules

This chapter includes the following topics:

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- ◆ Template Rules, 55
- ◆ Advanced Rules, 58

Proactive Monitoring Templates

Templates provide an easier way to create rules. You can create rules from predefined templates. You can restrict input from users by adding simple validations to the template. You can add specific user assistance wherever required to make the use of the template easier.

The following table lists the predefined templates that are available by default upon installing Proactive Monitoring for PowerCenter Governance:

Template Name	Description	Properties	Template Parameters
PC_GST1 Compare session attributes	Notify if the session attribute contains a specified value.	<ul style="list-style-type: none">- Topic: pc_sessions- Analytics: pc_get_session_attribute- Source: PowerCenter Sessions Modified Incremental- Response: PowerCenter Notification Response- Persona: apparchitect	<ul style="list-style-type: none">- <<session_attribute>> Select the value of the session attribute.- <<operator>> Enter comparison operator.- <<attr_value>> Enter the Attribute Value- <<alert_cause>> Enter concise text to explain the cause of the alert.- <<priority>> Select a priority level (0=Least

Template Name	Description	Properties	Template Parameters
			critical to 5=Most Critical).
PC_GST2 Naming Convention Violation for Session Name prefix	Notify if the session name does not start with the specified prefix.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect 	<<prefix>> Check prefix for naming convention of session.
PC_GST3 Session modified often within a specified duration	Notify if the session is modified for a specified number of times within the stipulated duration.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect 	<ul style="list-style-type: none"> - <<p_times>> Number of times a session is modified. - <<p_minutes>> Time range within which the session is modified the specified number of times.
PC_GMT1 Naming Convention Violation for Mapping Name prefix	Notify if the mapping name does not start with the specified prefix.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect 	<<prefix>> Check prefix for naming convention of mapping.
PC_GMT2 Mapping modified often within a specified duration	Notify if a mapping is modified for a specified number of times within the stipulated duration.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect 	<ul style="list-style-type: none"> - <<p_times>> Number of times the mapping is modified. - <<p_minutes>> Time range within which the mapping is modified the specified number of times.
PC_GTT1 Compare transformation attributes	Notify if the transformation attribute contains a specified value.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: pc_get_transform_attribute - Source: PowerCenter Transforms Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<ul style="list-style-type: none"> - <<transform_attribute>> Select the transformation attribute from the drop down menu. - <<operator>> Enter comparison operator. - <<attr_value>> Enter the attribute value. - <<alert_cause>> Enter text to explain the cause of the alert. - <<priority>> Select a priority level (0=Least critical to 5=Most Critical).

Template Name	Description	Properties	Template Parameters
PC_GWT1 Naming Convention Violation for Workflow Name prefix	Notify if the workflow name does not start with the specified prefix.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: - - Source: PowerCenter Workflows Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<<prefix>> Check prefix for naming convention of mapping.
PC_GWT2 Compare workflow attributes	Notify if the workflow attribute contains a specified value.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: pc_get_workflow_attribute - Source: PowerCenter Workflows Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<ul style="list-style-type: none"> - <<workflow_attribute>> Select the workflow attribute from the drop down menu. - <<operator>> Enter comparison operator. - <<attr_value>> Enter the attribute value. - <<alert_cause>> Enter text to explain the cause of the alert. - <<priority>> Select a priority level (0=Least critical to 5=Most Critical).
PC_GWT3 Windows pathname is hardcoded with a drive letter	Notify if the command tasks contains the specified drive letter, such as "C:\".	<ul style="list-style-type: none"> - Topic: pc_command_tasks - Analytics: - - Source: PowerCenter Command Tasks - Response: PowerCenter Notification Response - Persona: apparchitect 	<<drive>> Check for the drive letter in the command tasks.
PC_GWT5 Naming Convention Violation for Workflow Name suffix	Notify if the workflow name does not end with the specified suffix.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: - - Source: PowerCenter Workflows Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<<suffix>> Check suffix for naming convention of workflow.
PC_GWKT2 Naming Convention Violation for Worklet Name suffix	Notify if the worklet name does not end with the specified suffix.	<ul style="list-style-type: none"> - Topic: pc_worklets - Analytics: - - Source: PowerCenter Worklets Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<<suffix>> Check suffix for naming convention of worklet.

Template Name	Description	Properties	Template Parameters
PC_GST5 Naming Convention Violation for Session Name suffix	Notify if the session name does not end with the specified suffix.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<<suffix>> Check suffix for naming convention of session.
PC_GMT4 Naming Convention Violation for Mapping Name suffix	Notify if the mapping name does not end with the specified suffix.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<<suffix>> Check suffix for naming convention of mapping.
PC_GMPT2 Naming Convention Violation for Mapplet Name suffix	Notify if the mapplet name does not end with the specified suffix.	<ul style="list-style-type: none"> - Topic: pc_mapplets - Analytics: - - Source: PowerCenter Mapplets Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect 	<<suffix>> Check suffix for naming convention of mapplet.

Template Rules

You can create rules from the template rules by specifying values based on the requirement.

The following table lists the predefined template rules that are available by default upon installing Proactive Monitoring for PowerCenter Governance:

Rule Name	Description	Properties
PC_GM5 Mapping name should begin with m_	Notify if the mapping name does not begin with m_.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect
PC_GM6 Check if a mapping is modified 3 times within the last 60 minutes	Notify if a mapping is modified three times within the last 60 minutes.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytic: - - Source: PowerCenter Mappings Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect

Rule Name	Description	Properties
PC_GS3 Session name should begin with s_	Notify if the session name does not begin with s_.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS8 Check whether rollback of transaction on error is not set	Notify if a <i>Rollback Transactions on Error</i> is not set for a session.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytic: pc_get_session_attribute - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS9 Check if session is modified 3 times within the last 60 minutes	Notify if the session is modified three times within the last 60 minutes.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytic: - - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS12 Check whether save session log for these runs uses the global variable PMSessionLogCount	Notify if <i>Save session log for these runs</i> attribute does not use the global variable <i>\$PMSessionLogCount</i> .	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: pc_get_session_attrib - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS13 Check whether stop on errors uses the global variable PMSessionErrorThreshold	Notify if <i>Stop on errors</i> attribute does not use the global variable <i>\$PMSessionErrorThreshold</i> .	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: pc_get_session_attribute - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS14 Check whether write backward compatible session log file is set	Notify whether a session does not have <i>Write Backward Compatible Session Log File</i> set.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: pc_get_session_attribute - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS16 Check for session where commit interval exceeds 1000 seconds	Notify if <i>Commit Interval</i> greater than equal to 1000 seconds for a session.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: pc_get_task_parent_failure_options - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect

Rule Name	Description	Properties
PC_GT3 Check for transformations with lookup SQL override	Notify if the <i>Lookup SQL Override</i> for a transformation is not NULL.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: - - Source: PowerCenter Transforms Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GT4 Check for transformations with source SQL override	Notify if <i>SQL Query</i> for a transformation is not NULL.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: - - Source: PowerCenter Transforms Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GT5 Check for transformations with tracing level higher than terse	Notify if a transformation has <i>Tracing Level</i> higher than terse.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: pc_get_transform_attribute - Source: PowerCenter Transforms Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GT7 Check if sequence generator reset option is set	Notify if the sequence generator Reset option is set.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: pc_get_transform_attribute - Source: PowerCenter Transforms Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW3 Workflow name should begin with wf_	Notify if a workflow name does not begin with wf_.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: - - Source: PowerCenter Workflows Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect
PC_GW6 Check whether save workflow log for these runs used the global variable PMWorkflowLogCount	Notify if <i>Save workflow log for these runs</i> attribute does not use the global variable <i>\$PMWorkflowLogCount</i> .	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: pc_get_workflow_attribute - Source: PowerCenter Workflows Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW8 Check whether backward write compatible workflow log option is set	Notify whether a workflow does not have <i>Write Backward Compatible Workflow Log File</i> set.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: pc_get_workflow_attribute - Source: PowerCenter Workflows Incremental - Response: PowerCenter Notification Response - Persona: apparchitect

Rule Name	Description	Properties
PC_GW9 Check if Windows path name is hardcoded with drive letter C	Notify if the command task contains a hardcoded Microsoft Windows drive letter c:\.	<ul style="list-style-type: none"> - Topic: pc_command_tasks - Analytics: - - Source: PowerCenter Command Tasks - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW13 Workflow Name should end with _DEV	Notify if the workflow name does not end with _DEV.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: - - Source: PowerCenter Workflows Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GWK3 Worklet Name should end with _DEV	Notify if the worklet name does not end with _DEV.	<ul style="list-style-type: none"> - Topic: pc_worklets - Analytics: - - Source: PowerCenter Worklets Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS20 Session Name should end with _DEV	Notify if the session name does not end with _DEV.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GM8 Mapping Name should end with _DEV	Notify if the mapping name does not end with _DEV.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GMP3 Mapplet Name should end with _DEV	Notify if the mapplet name does not end with _DEV.	<ul style="list-style-type: none"> - Topic: pc_mapplets - Analytics: - - Source: PowerCenter Mapplets Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect

Advanced Rules

Advanced rules do not have parameters. You can extend these rules once you are comfortable with the functioning of these rules.

The following table lists the predefined advanced rules that are available by default upon installing Proactive Monitoring for PowerCenter Governance:

Rule Name	Description	Properties
PC_GM1 Check for mappings without description	Notify if the description for a mapping is NULL.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect
PC_GM2 Check for duplicate mappings	Notify if the name of the mapping is duplicated.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: pc_is_mapping_duplicate - Source: PowerCenter Mappings Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect
PC_GM3 Check whether the mappings is not valid	Notify if a mapping is not valid.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GM4 Check for mapping names with spaces	Notify if the mapping name has spaces.	<ul style="list-style-type: none"> - Topic: pc_mappings - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS1 Check whether the session is not valid	Notify if the session is not valid.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS2 Check for sessions without description	Notify if the description for a session is NULL.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Notification: PowerCenter Sessions Modified Incremental - Persona: apparchitect
PC_GS4 Check for duplicate sessions	Notify if a session name is repeated.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: pc_is_session_duplicate - Source: PowerCenter Sessions Incremental - Notification: PowerCenter Sessions Modified Incremental - Persona: apparchitect

Rule Name	Description	Properties
PC_GS5 Check whether a sessions is not reusable	Notify if a session is not reusable.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: - - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS6 Check if session log file name is not derived from the session name	Notify if the session log file name does not contain the session name.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: pc_get_session_attribute - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS7 Check whether the truncate table option is set	Notify if <i>truncate target table</i> is set.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytic: pc_get_session_mapping_attribute - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS10 Check for disabled sessions	Notify if a session is disabled.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytic: - - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS11 Check for hardcoded source connection parameters in a session	Notify if the source connection value of a session does not begin with \$.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytic: pc_get_session_attribute - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GS15 Check whether both the parent fail options are not set	Notify if a session has both Fail parent if the task fails and Fail parent if this task does not run options not set.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: task_parent_failure_options - Source: Sessions Modified Incremental - Response: Notification Response - Persona: apparchitect
PC_GS17 Check whether the option fail parent if this task does not run is not set	Notify if a session has the option " <i>fail parent if this task does not run</i> " not set.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytics: pc_get_task_parent_failure_options - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect

Rule Name	Description	Properties
PC_GS18 Check whether target connection value is empty	Notify if a <i>Target connection value</i> is empty for a session.	<ul style="list-style-type: none"> - Topic: pc_sessions - Analytic: pc_get_session_attribute - Source: PowerCenter Sessions Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GT1 Check for transformations without description	Notify if the description for a transformation is NULL.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: - - Source: PowerCenter Transforms Modified Incremental - Notification: PowerCenter Notification Response - Persona: apparchitect
PC_GT2 Check for transformations with default names	Notify if the transformation are saved with default names.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: - - Source: PowerCenter Transforms Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GT6 Check whether connection information option is set	Notify if the <i>Connection Information</i> option is not set.	<ul style="list-style-type: none"> - Topic: pc_transforms - Analytics: pc_get_transform_attribute - Source: PowerCenter Transforms Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GMP2 Check whether the mapplet is not valid	Notify if a mapplet is not valid.	<ul style="list-style-type: none"> - Topic: pc_mapplets - Analytics: - - Source: PowerCenter Mapplets Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GWK2 Check whether the worklet is not valid	Notify if a worklet is not valid.	<ul style="list-style-type: none"> - Topic: pc_worklets - Analytics: - - Source: PowerCenter Worklets Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW1 Check for workflows without description	Notify if the description for a workflow is NULL.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: - - Source: PowerCenter Mappings Modified Incremental - Notification: PowerCenter Sessions Modified Incremental - Persona: apparchitect

Rule Name	Description	Properties
PC_GW2 Check for duplicate workflows	Notify if a workflow name is repeated.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: pc_is_workflow_duplicate - Source: PowerCenter Workflows Incremental - Notification: PowerCenter Sessions Modified Incremental - Persona: apparchitect
PC_GW4 Check for workflows that are not valid	Notify if the workflow is not valid.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: - - Source: PowerCenter Workflows Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW5 Check if the workflow is a web service	Notify if the workflow is a web service.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytic: - - Source: PowerCenter Mappings Modified Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW7 Check if workflow log file name is not derived from workflow name	Notify if the Workflow Log File name does not contain the workflow name.	<ul style="list-style-type: none"> - Topic: pc_workflows - Analytics: pc_get_workflow_attribute - Source: PowerCenter Workflows Incremental - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW10 Check for hardcoded UNIX path	Notify if the command tasks contain hard coded UNIX path names.	<ul style="list-style-type: none"> - Topic: pc_command_tasks - Analytics: - - Source: PowerCenter Command Tasks - Response: PowerCenter Notification Response - Persona: apparchitect
PC_GW11 Check for illegal command tasks	Notify if the workflow contains illegal command tasks listed in the PowerCenter CLI command watchlist.	<ul style="list-style-type: none"> - Topic: pc_command_tasks - Analytics: - - Source: PowerCenter Command Tasks - Response: PowerCenter Notification Response - Persona: apparchitect
PC_S1 RTAM Notification	Generate Real-Time Alert Manager notification.	Do not edit. For internal use.
PC_S2 Email Notification	Generate email notification.	Do not edit. For internal use.

Rule Name	Description	Properties
PC_S3 Daily alert history report	Send a daily report of the alert history.	<ul style="list-style-type: none"> - Topic: pc_alert_history_purge_request - Analytics: pc_get_alert_history_csv, pc_get_purge_cutoff_date - Source: PowerCenter Daily Alert History Purge Requestor - Response: PowerCenter Real-Time Alert Manager Alert - Persona: pcmonitor
PC_S4 Zero records purged from alert history	Send a daily report when zero records are purged.	<ul style="list-style-type: none"> - Topic: pc_alert_history_purge_request - Analytics: pc_get_alert_history_purge_count, pc_get_purge_cutoff_date - Source: PowerCenter Daily Alert History Purge Requestor - Response: PowerCenter Real-Time Alert Manager Alert - Persona: pcmonitor
PC_S5 Purge alert history	Notify when alert history is purged.	<ul style="list-style-type: none"> - Topic: pc_alert_history_purge_request - Analytics: pc_get_alert_history_purge_count, pc_get_purge_cutoff_date - Source: PowerCenter Daily Alert History Purge Requestor - Response: PowerCenter Real-Time Alert Manager Alert - Persona: pcmonitor
PC_S6 Load Global Settings from Database	Generate Real-Time Alert Manager alert when global settings are loaded from the database.	<ul style="list-style-type: none"> - Topic: pc_pmpc_global_settings - Analytics: pc_get_rtam - Source: PowerCenter Load PMPC Global Settings from Database - Response: PowerCenter Real-Time Alert Manager Alert - Persona: pcmonitor

CHAPTER 14

Proactive Monitoring Responses

This chapter includes the following topic:

- ◆ Proactive Monitoring Responses, 64

Proactive Monitoring Responses

The response is where you define how you want responses if the rule's event matches the rule condition. In addition to simple notification response, such as send an email or text message, you can configure a response to function like an action.

You can configure to send responses to a single user or groups of users through email or Real-Time Alert Manager user interface.

The following table lists the predefined responses that are available by default upon installing Proactive Monitoring for PowerCenter Governance:

Name	Response Type	Description
PowerCenter Alert Recorder Response	SQL	Records alerts to the RulePoint database.
PowerCenter Email Response	Email	Sends email to the specified users with content based on the response properties.
PowerCenter Notification Response	Event Transformer	Transforms events to notification events.
PowerCenter RTAM Alert	RTAM	Sends alerts to Real-Time Alert Manager.
PowerCenter Alert History Purge Response	SQL	Purges alert history older than the specified number of days.

Frequently Asked Questions

What is the required database size to create the database user, pc_rp, to host alerts in the RulePoint database? Do I have to create the pc_rp user in the same database as the PowerCenter repository user?

The minimum database size to create the pc_rp database user is 500 MB. Alerts created in the RulePoint or Real-Time Alert Manager database can grow up to a few gigabytes over a period of 60 days based on the number of activations.

No, you do not have to create pc_rp user in the same database as the PowerCenter repository user. Install RulePoint and Real-Time Alert Manager on a separate database from the PowerCenter repository. The databases can be on a different instance or on a different machine. Both the RulePoint and PowerCenter database type must be same. If PowerCenter repository is on an Oracle database, the RulePoint or Real-Time Alert Manager databases must be on an Oracle database.

Can a single instance of the Proactive Monitoring solution monitor multiple PowerCenter repositories?

Yes, you can monitor multiple PowerCenter repositories through a single instance of Proactive Monitoring.

Can the Proactive Monitoring solution monitor multiple nodes in a grid?

Yes, you can monitor multiple nodes in a grid.

Can the Proactive Monitoring solution monitor multiple PowerCenter domains?

No, you cannot monitor multiple domain. You can monitor a single domain with an instance of the Proactive Monitoring solution.

How does RulePoint communicate with PowerCenter or database servers to collect information?

RulePoint communicates with PowerCenter or database servers through the pc_rp user. RulePoint connects to the PowerCenter repository through a JDBC connection. RulePoint connects to PowerCenter Integration Service through Web Services Hub WSDL.

How do I configure the Proactive Monitoring sources to connect to the PowerCenter artifacts.

In Proactive Monitoring for PowerCenter Governance 2.5, you can use the Proactive Monitoring Management Console to configure the solution to monitor a PowerCenter domain. You can use the Management Console to provide details of the nodes and services that you want to monitor.

The administrator can use the Management Console to configure one or more PowerCenter services for monitoring. The command line utilities, Global Configuration Tool and Alert Recipient Tool from Proactive Monitoring 2.1 are replaced by user interface configuration screens within the Management Console.

Configuration through the Management Console is a pre-requisite to monitor a PowerCenter domain. To monitor a PowerCenter domain, the administrator provides configuration details of each host and node to the Management Console. The administrator also provides configuration details of each PowerCenter Repository Service, PowerCenter Integration Service, and Web Service Hosts for monitoring.

Will I get an alert if the node agent is down?

If the node agent on a monitored node fails to respond with the statistics details from the node, the Proactive Monitoring solution triggers the *PC_O16 Node Agent health check* rule. This rule alerts the *pcadmin* persona that the node agent running on the particular node is not available.

APPENDIX B

Glossary

A

Analytic

A service that implements a data processing function. An example of an Analytic is a match function that analyzes a set of input elements and returns a true or false if all elements match specific criteria. RulePoint offers a pre-defined set of Analytics. You can add additional Analytics to the system using the RulePoint SDK.

E

event

A piece of data that is pulled or pushed into RulePoint from a variety of sources. Events can be anything that you have deemed of interest, such as 911 dispatches, breaking news headlines, banking transactions, or persons of interest entering a predefined location.

event specific timestamp

This timestamp is used for events that have timestamp values as part of their source data. It does not pertain to event timestamp values that you create in the RulePoint database.

event set

A grouping of multiple events into a single entity so that RulePoint can process the events at the same time.

I

Informatica domain

A collection of nodes and services that define the Informatica platform. You group nodes and services in a domain based on administration ownership.

N

node

A logical representation of a machine or a blade. Each node runs a Service Manager that performs domain operations on that node.

P

PowerCenter resource

Any resource that may be required to run a task. PowerCenter has predefined resources and user-defined resources.

PowerCenter services

The services available in the PowerCenter domain. These consist of the Service Manager and the application services.

primary node

A node that is configured as the default node to run a service process. By default, the Service Manager starts the service process on the primary node and uses a backup node if the primary node fails.

R

repository domain

A group of linked repositories consisting of one global repository and one or more local repositories.

Repository Service

An application service that manages the PowerCenter repository. It retrieves, inserts, and updates metadata in the repository database tables.

Responder service

A service that invokes a response to an underlying service. An example of a Responder service is an email service that notifies specific users of events. RulePoint contains a number of pre-defined Responder Services.

response

A configurable action that is invoked by specific conditions set by a rule.

rule

Rules are used to analyze events based on specific conditions, and then invoke responses when conditions match. For example, when a service produces an event that matches a specific condition a specific response is invoked.

rule wizard

An easy-to-use application within RulePoint that guides users through each step of rule creation, such as define topics, define conditions, and select responses. The rule wizard then generates the rule.

S

session

A task in a workflow that tells the Integration Service how to move data from sources to targets. A session corresponds to one mapping.

Service

A service is a configurable program that connects to the outside world and pulls or pushes information into RulePoint or sends out information.

Source service

A service that has a configurable topic and can be scheduled to run at specific times. An example of a source service is a news reader that extracts events from a RSS or Atom news feed. RulePoint contains a number of pre-defined Source Services.

T

transformation

A repository object in a mapping that generates, modifies, or passes data. Each transformation performs a different function.

Template

A DRQL rule that uses substitution variables to enable users to create rules from a user interface form.

Topic

A category of events. topics are used to group incoming events into logical categories that are familiar to and defined by users. For example, World News, Transactions, or Stock.

W

Watchlist

Container that stores values as a single object with a unique name that you define. This name then can be referenced in a rule so that the rule can use the data stored in the object. You can modify the values within the watchlist at any time, and any rule referencing that watchlist will use those new values. For example, if you want to create several rules regarding your stock portfolio, you can create a watchlist containing symbols for all of the stocks that you currently own. When you create your rules, you would reference the watchlist instead of specifying each individual stock symbol in multiple rules. In the future, if your portfolio changes, you would simply modify the watchlist instead of individual rules.

Web Services Provider

The provider entity of the PowerCenter web service framework that makes PowerCenter workflows and data integration functionality accessible to external clients through web services.

workflow

A set of instructions that tells the Integration Service how to run tasks such as sessions, email notifications, and shell commands.

workflow instance

The representation of a workflow. You can choose to run one or more workflow instances associated with a concurrent workflow. When you run a concurrent workflow, you can run one instance multiple times concurrently, or you can run multiple instances concurrently.

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