



BeyondTrust

Privilege Management for Windows ePO Extension 22.7 Installation Guide

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Privilege Management for Windows ePO Extension Installation

Privilege Management for Windows combines privilege management and application control technology in a single, lightweight agent. This scalable solution allows global organizations to eliminate admin rights across the entire business.

Actionable intelligence is provided by an enterprise class reporting solution with endpoint analysis, dashboards, and trend data for auditing and compliance.

This guide assumes that you have set up your ePO server and you now need to install the Privilege Management ePO Extension.

This guide shows you how to install the Privilege Management ePO Extension, create a client task to deploy Privilege Management for Windows to your endpoints, configure your ePO server for Privilege Management for Windows tasks, and install BeyondTrust Privilege Management Reports.



If you are upgrading an existing BeyondTrust Privilege Management ePO Extension, please see "[Install the Privilege Management ePO Extension](#)" on page 5.

Install the Privilege Management ePO Extension

Requirements

i For more information, please see *Privilege Management ePO Extension 22.7 Release Notes* at <https://www.beyondtrust.com/docs/release-notes/privilege-management/windows-and-mac/epo-extension/epo-extension-22-7.htm>.

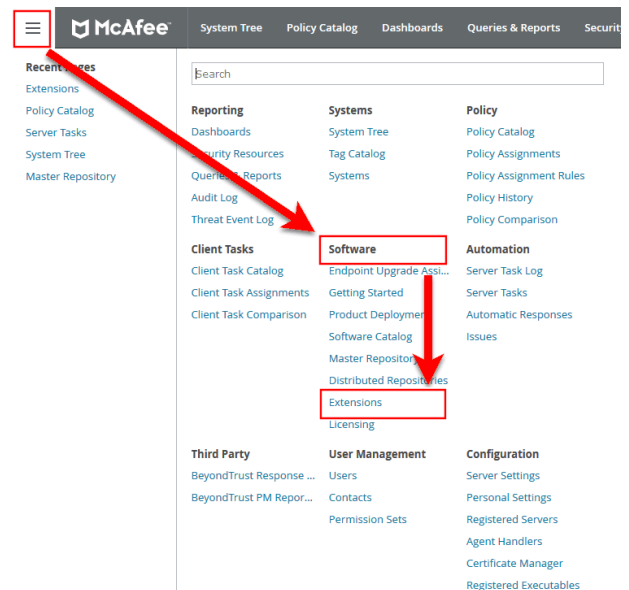
To install the extension:

The Privilege Management ePO Extension allows you to use Trellix ePolicy Orchestrator to manage your endpoint(s).

The Privilege Management ePO Extension is a ZIP file and includes the build number in its name. The ZIP file includes the Policy Editor and BeyondTrust Privilege Management Reporting, if you choose to configure it.

To install the Privilege Management ePO Extension extension:

1. Log in to Trellix ePolicy Orchestrator and navigate to **Menu > Software > Extensions**.



2. Click **Install Extension** in the top-left corner. The **Install Extension** dialog box appears.
3. Enter or browse to the location of the Privilege Management server extension package **Defendpoint_x_x_x_xx.zip** and click **OK**.
4. On the **Install Extension** summary screen, click **OK** in the bottom-right corner to proceed with the installation.

The BeyondTrust Privilege Management ePO Extension is now installed on your ePO server.

Configure ePO User Permission Sets

There are four permission sets in ePO by default. You can view these at **Menu > User Management > Permission Sets**, on the left menu. Installing the Privilege Management ePO Extension grants some privilege management permissions to the following default ePO permissions sets:

- **Executive Reviewer:** Privilege Management Policy Permission: View and Change Settings

This enables the user to access the policy catalog, but not to view or change the policy. The user requires **Run permission for BeyondTrust Privilege Management** under **BeyondTrust Privilege Management** to view policy.

- **Global Reviewer:** Privilege Management Policy Permission: View Settings

This enables the user to access the policy catalog, but not to view or change the policy. The user requires **Run permission for BeyondTrust Privilege Management** under **BeyondTrust Privilege Management** to view policy.

- **Group Admin:** No Privilege Management permissions.
- **Group Reviewer:** No Privilege Management permissions.



Note: Users need to be members of the permission sets required for Privilege Management. Please refer to Trellix documentation for how to add users to permission sets.

Alternatively, you can create your own permission sets in ePO by selecting **New Permission Set**. After this is selected, you can name the permission set and assign users. Once you click **Save**, you can apply permissions.



Note: If a user needs to view or change BeyondTrust policies, they require the **Run permission for BeyondTrust Privilege Management** permission under **BeyondTrust Privilege Management** and the **View settings** or **View and change settings** permission under **BeyondTrust Privilege Management Policy**.

Upgrade Privilege Management for Windows

Recommended Steps

- Step 1: Upgrade Application Groups to Match Publisher Name BeyondTrust Corporation
- Step 2: Upgrade the Privilege Management ePO Extension
- Step 3: Upgrade Privilege Management Reporting (if in use)
- Step 4: Upgrade Privilege Management for Windows Clients
- Step 5: Delete Old Application Definitions (Upgrade from 5.4)



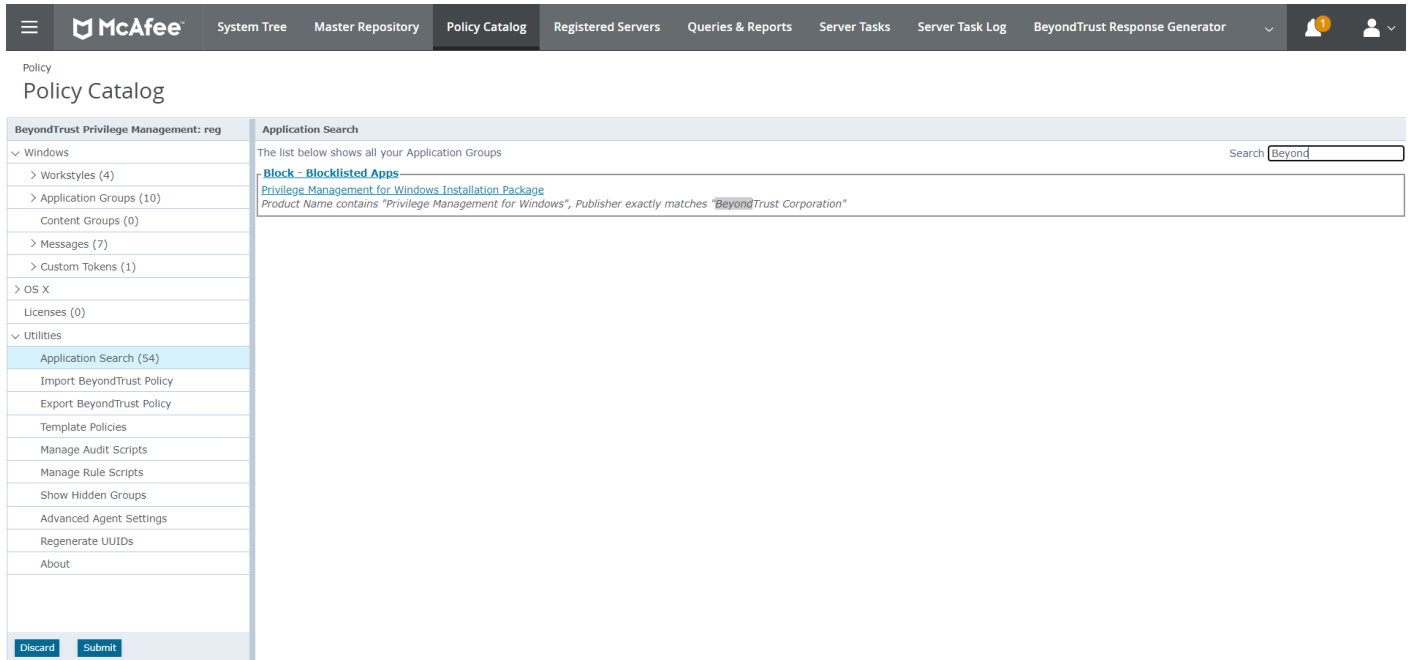
IMPORTANT!

As of release 5.5, all releases of this product are signed with BeyondTrust Corporation, rather than Avecto, as the software publisher name. If prior to 5.5 you used the QuickStart Policy Template as a starting point, it is likely that your configuration includes Application Groups which target our own applications based on a publisher match to Avecto. An upgrade to 5.5 or beyond requires you to update your configuration so that it continues to match the versions of the applications and tools that you use. We recommend you add a copy of any existing application definitions that target Avecto and update those copies to target BeyondTrust Corporation instead; the presence of both sets of application definitions ensures they continue to match both new and existing versions during the implementation of 5.5. It is critical that you roll out your configuration changes before you update your Privilege Management for Windows software to version 5.5 or later.

Step 1: Upgrade Application Groups to Match Publisher Name BeyondTrust Corporation

This section applies to upgrades to Version 5.5.

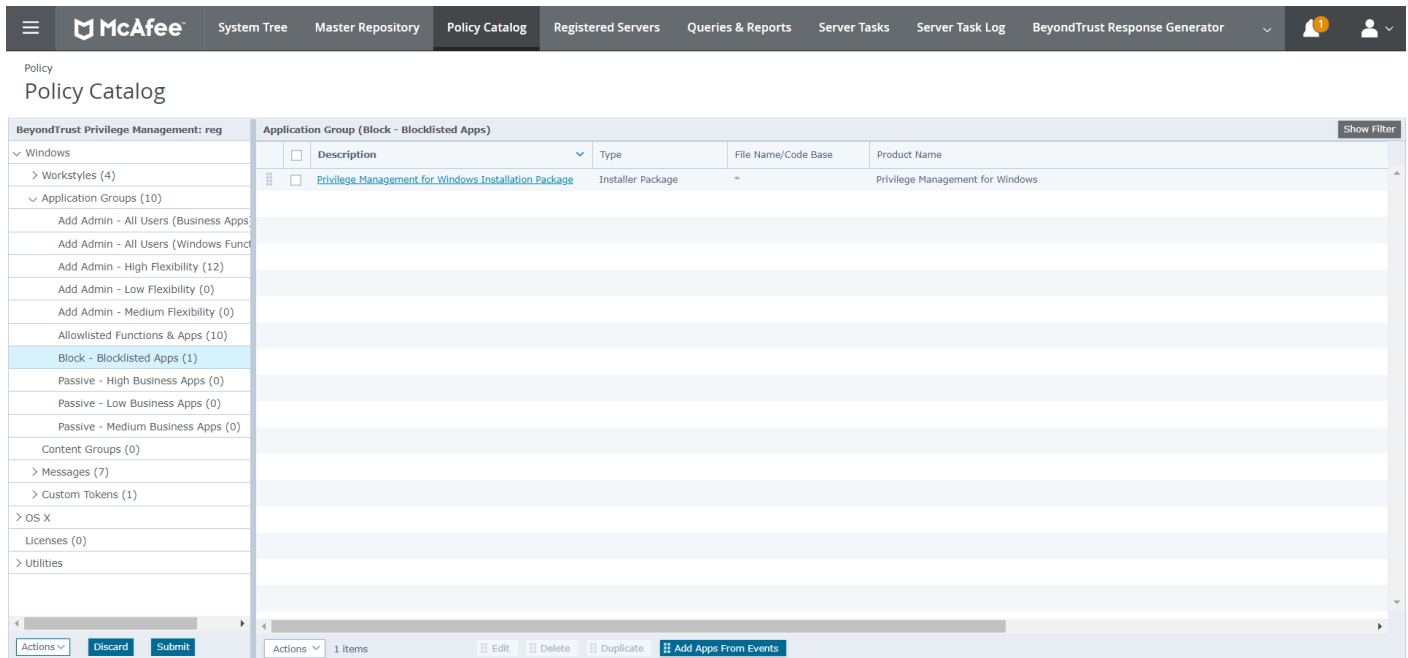
1. Locate all **Avecto** matches:
 - In the policy tree, navigate to **Utilities > Application Search**.
 - Type **Avecto** into the **Search applications** box to filter.



The screenshot shows the McAfee Policy Catalog interface. The left sidebar contains a navigation tree with categories like Windows, OS X, and Utilities. The main area is titled 'Application Search' and displays a search result for 'Block - Blocklisted Apps'. The search criteria are: 'Product Name contains "Privilege Management for Windows", Publisher exactly matches "BeyondTrust Corporation"'. A search box at the top right contains the text 'Beyond'.

2. Create a copy of all definitions in each Application Group found that contain a publisher match on **Avecto**:

- Make a note of the name of the application definition which contains a publisher match on Avecto, and click on its Application Group name in **Application Search**. This takes you to the Application Group.
- Select the application definition and click **Duplicate**.



The screenshot shows the McAfee Policy Catalog interface with the 'Block - Blocklisted Apps' application group selected in the left sidebar. The main area displays a table of application definitions. The table has columns for 'Description', 'Type', 'File Name/Code Base', and 'Product Name'. One row is visible with the description 'Privilege Management for Windows Installation Package', type 'Installer Package', and product name 'Privilege Management for Windows'. At the bottom, there are action buttons: 'Actions', 'Discard', 'Submit', 'Edit', 'Delete', 'Duplicate', and 'Add Apps From Events'.



Tip: Rename one of the copies to **OLD**, so it's easy to tell which to delete after the new application definitions take effect. **OLD** can be deleted once the 5.5 upgrade is complete.

3. Update the new application definitions to match publisher **BeyondTrust Corporation**.
4. Test the updated configuration against the new 5.5 applications.

At this point, you can continue with upgrading the remaining components.

The product code for Privilege Management for Windows version 5 was updated from version 4. This means that the Privilege Management ePO Extension must be upgraded before the Privilege Management for Windows version 5 clients are installed.



Note: ePO will not recognize Privilege Management for Windows if you upgrade the Privilege Management for Windows clients before the Privilege Management ePO extension. In addition, ePO Threat events will be rejected if this order is not followed, although they can be recovered once the upgrade to the Privilege Management ePO Extension has been completed.

Version 5 of the Privilege Management ePO Extension is compatible with older Privilege Management for Windows clients.

The recommended order to upgrade BeyondTrust Privilege Management for Windows software is:

- Upgrade the Privilege Management ePO Extension
- Upgrade Privilege Management Reporting (if in use)
- Upgrade Privilege Management Clients



Note: If you have a requirement to upgrade BeyondTrust software in a different order from that listed above, please contact your BeyondTrust representative.

Step 2: Upgrade the Privilege Management ePO Extension

When you are upgrading, the newer version of the Privilege Management ePO Extension recognizes the existing Privilege Management ePO Extension installation and prompts you to upgrade it. We recommend upgrading, as removing the installed Privilege Management ePO Extension deletes your settings.

To upgrade the Privilege Management ePO Extension, you need to use ePO to install the latest extension from **Software > Extensions**. When you upload the new Privilege Management ePO Extension, ePO prompts you that this newer version of the ePO Extension will replace the previous extension. Click **OK** to upgrade the Privilege Management ePO Extension. You do not need to restart ePO for the upgrade to take effect. Existing registered servers, client tasks, and server tasks are not affected.

Step 3: Upgrade Privilege Management Reporting (if in use)

To upgrade the Reporting database, you need to be on the server where the database is installed.

Please use the following process to upgrade the Privilege Management Reporting database and event parser:

1. Stop the **Trellix ePolicy Orchestrator Event Parser Service**. Check that all events have finished being processed. Any events that are received after these tables are empty are queued on the ePO server until the service is restarted at the end of this process.

Query the following tables first to check that they are empty:


- dbo.Staging
- dbo.Staging_ServiceStart
- Stop
- dbo.Staging_UserLogon

Subsequently, query the following tables:

- dbo.StagingTemp
- dbo.StagingTemp_ServiceStart
- dbo.StagingTemp_ServiceStop
- dbo.StagingTemp_UserLogon

Once the tables are all empty all remaining events have been processed.

2. Disable the **Copy from Staging** task. The easiest way to do this is to use **SQL Server Management Studio** and navigate to **Reporting database > Service Broker > Queues**.
3. Right-click on the **PGScheduledJobQueue** and click **Disable Queue**.
4. Disable any of the ePO server tasks that rely on the Reporting database while you are upgrading it. For example, the **Staging Server Task** and **Purge Server Task**. These tasks will fail, as the database will be offline for a period of time.
5. Open **SQL Server Reporting Configuration Manager** and connect to the database. Navigate to the Reporting link and use the dropdown to delete the top level folder.
6. Run the Privilege Management for Windows database installer to upgrade the database. Ensure you point the installer to the existing database server and Privilege Management for Windows database name when prompted.
7. Enable any server tasks that you previously disabled, as they rely on the Reporting database.
8. Enable the **Copy From Staging** task. The easiest way to do this is to use SQL Server Management Server and navigate to **Reporting database > Service Broker > Queues**.
9. Right-click on **PGScheduledJobQueue** and click **Enable Queue**.
10. Start the **Trellix ePolicy Orchestrator Event Parser Service** service. Any incoming events can now be processed.
11. You need to log off and on again to the ePO server to ensure the new database version is recognized. However, an ePO server restart is not required.

 **Note:** If you installed Reporting from version 5.4 or later, the default name for the database is **BeyondTrustReporting**. If you installed a previous version of Reporting, the default name is **AvectoReporting** (v5.1 - 5.3), or **AvectoPrivilegeGuard** for older versions. Alternatively, you may have chosen a different database name.

 **Note:** If you see an error message that states "Please stop CopyFromStaging from running before upgrading the database," make sure that no new events are being processed by querying the above tables and try again.

This upgrade path can be applied to both standalone Reporting configurations and to configurations spread over multiple machines.

Step 4: Upgrade Privilege Management for Windows Clients

You can upload a newer version of the Privilege Management for Windows client to ePO and deploy it as required.

Depending on the type of installation, a restart of the endpoint may be required. When installing in silent mode, a reboot occurs automatically.

The Privilege Management ePO Extension maintains backwards compatibility with the Privilege Management for Windows client. You can use a later version of the Privilege Management ePO Extension with an earlier version of the Privilege Management for Windows client. However, not all features in the Privilege Management ePO Extension are supported with earlier versions of the client.



For more information, please see the [Privilege Management for Windows Administration Guide](https://www.beyondtrust.com/docs/privilege-management/windows/index.htm), at <https://www.beyondtrust.com/docs/privilege-management/windows/index.htm>.

Step 5: Delete Old Application Definitions (Upgrade from 5.4)

Once all machines are running version 5.5, it is safe to delete the OLD application definitions created in Step 1 and to deploy that configuration.

Upgrade the Reporting Database Using SQL Scripts

Use these instructions to upgrade the Privilege Management Reporting database where you cannot use the installer or need to do a manual installation, for example, PMC in Azure. SQL scripts are provided to manage these upgrades.

To upgrade a Privilege Management Reporting database using SQL scripts:

1. The SQL scripts are provided as part of the Reporting installers. Alternatively, you can contact BeyondTrust Technical Support for them.



Note: There is a README file provided in this directory to assist you.

2. Run the following SQL query to find the current version of the database. This returns the version of the database.

```
select * from DatabaseVersion
```



Note: This SQL query works for Privilege Management Reporting databases 4.5 and later.

3. Execute the upgrade script where the name is the next version number and carry on applying these until the desired version is reached.



Example: If your current database version is **4.3.16** and you want to upgrade to version **5.0.0**, execute the following scripts in order:

1. **Script_4.5.0_Updates.sql**
2. **Script_5.0.0_Updates.sql**

Please check the SQL log for any errors and contact BeyondTrust Technical Support if necessary.

Privilege Management for Windows Deployment

Use the following steps to import the Privilege Management client for ePO into the ePO server and create a client task to deploy it to your endpoints:

- Import the Privilege Management for Windows package into ePO.
- If using **Trellix Endpoint Security (ENS)**, configure Privilege Management for Windows with **Trellix Endpoint Security**.
- Create and assign a client task to deploy Privilege Management.
- Assign and run the client task to deploy the agent.
- Verify the Privilege Management for Windows deployment.



For more information, please see the following:

- *"Import Privilege Management for Windows Package into ePO" on page 13*
- *"Privilege Management for Windows with Trellix Endpoint Security (ENS)" on page 14*
- *"Create and Assign a Client Task to Deploy Privilege Management" on page 15*
- *"Assign and Run the Client Task to Deploy the Agent" on page 16*
- *"Verify the Privilege Management for Windows Deployment" on page 17*

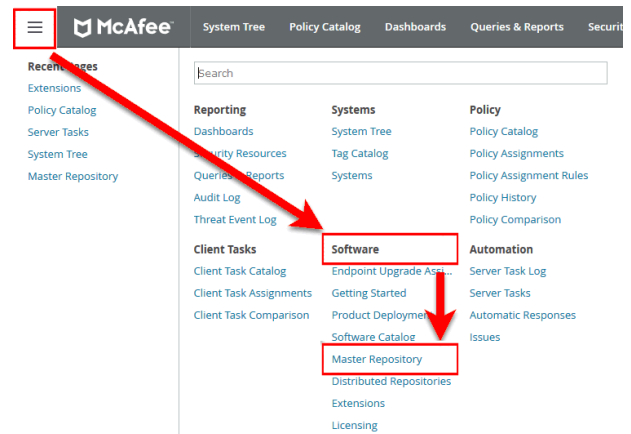
Import Privilege Management for Windows Package into ePO

If you use Trellix ePolicy Orchestrator to deploy Privilege Management for Windows to your endpoints, you need the Privilege Management zip file package for your operating system.

The client package is a zip file that takes the form which includes both 32-bit and 64-bit versions of Privilege Management client for Windows.

To install the Defendpoint package:

1. Log in to **ePolicy Orchestrator** and navigate to **Menu > Software > Master Repository**.



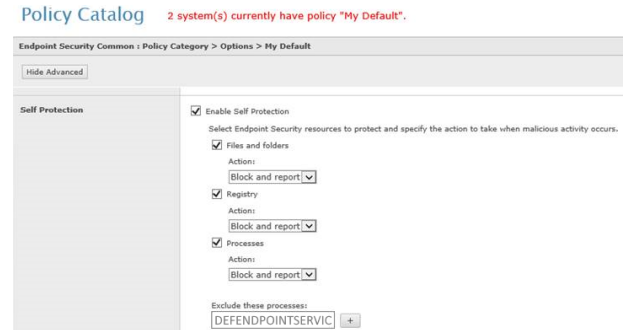
2. Click **Check In Package** at the top-left of the screen. The **Check In Package** wizard appears.
3. Leave **Package Type** as the default **Product or Update (.ZIP)** selection and click **Browse**.
4. Navigate to and select the Privilege Management for Windows package that you want to use on your local machine.
5. Click **Open** and then click **Next** at the bottom-right of the screen.
6. Leave the **Current** selection as the **Branch** option and click **Save** at the bottom-right of the screen to save the client package to the master repository.

The Privilege Management for Windows package is displayed in the **Packages in Master Repository** list.

Privilege Management for Windows with Trellix Endpoint Security (ENS)

If you are using **Trellix Endpoint Security (ENS)**, you need to do an additional task. Follow the steps below to configure Privilege Management for Windows with **Trellix Endpoint Security**. If you're not using ENS, you can skip this section.

1. Navigate to **Policy Catalog** and select **Trellix Endpoint Security** from the **Product** dropdown menu.
2. In the **Self Protection** section, if the **Enable Self Protection** box is checked:
 - Check the three boxes shown for **Files and folders**, **Registry** and **Processes**.
 - Type **DEFENDPOINTSERVICE.EXE** into the **Exclude these processes** text box and click **Save**.




Create and Assign a Client Task to Deploy Privilege Management

Privilege Management for Windows is deployed to client computers using **ePolicy Orchestrator** client tasks. Client tasks are assigned to groups within the **System Tree**. This section guides you through the creation of a client task for Privilege Management for Windows, and the assignment of the client task to the group in the **System Tree**.

If you previously installed the Privilege Management client with a switch, you must ensure that when you upgrade the Privilege Management client you use with the same switch. If you do not use the same switch, the new installation parameters will apply (including any added switches) and any functionality relating to previous installation switches will be lost. Privilege Management client switches can be set in the **Command Line** field in **Products and Components**.

To create a client task for Privilege Management for Windows package:

1. Log in to **ePolicy Orchestrator** and navigate to **Menu > Client Tasks > Client Task Catalog**.
2. Select **Trellix Agent > Product Deployment** from the left pane and click **New Task** on the top-left of the page.
3. Select **Product Deployment** from the **Task Types** dropdown menu and click **OK**.
4. Enter the following options:

Field	Description
Task Name	Name the task Privilege Management x.x.xxx , where x represents the full version of Privilege Management you're deploying.
Description	This is an optional field you can use if required.
Target platforms	This is the operating system of your endpoints. Check the Mac box. <div style="border: 1px solid black; padding: 5px; background-color: #e6f2ff;">  Note: The Privilege Management for Windows package includes both 32-bit and 64-bit versions of the client. The correct version is automatically installed based on the characteristics of the target client computer. </div>
Products and components	Select BeyondTrust Privilege Management for Windows x.x.xxx from the dropdown menu. Confirm Action is set to Install , Language is set as English , and Branch is set to Current . Set any switches in the Command Line field that you want to install Privilege Management for Windows with.
Postpone Deployment	Use this option to allow your users to postpone the deployment of Privilege Management on their machines.

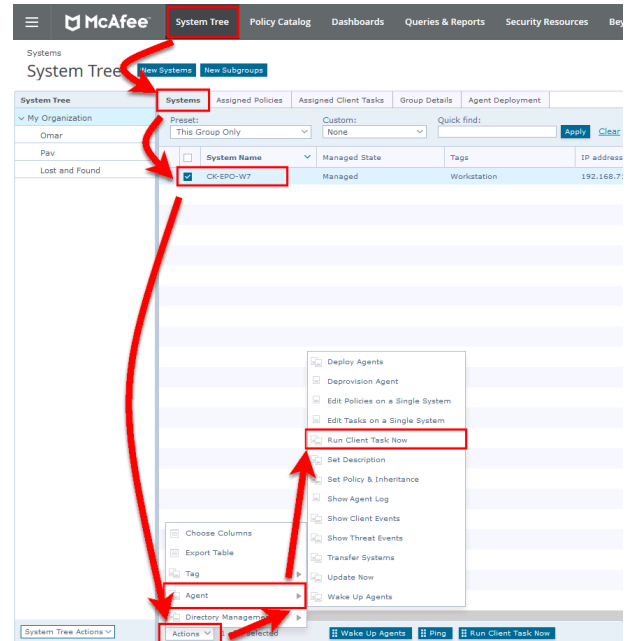
5. Click **Save** to finish creating the client task.

The client task is displayed in the **Product Deployment** list, and is now ready for assignment to a group or client computer in the **System Tree** prior to running it.

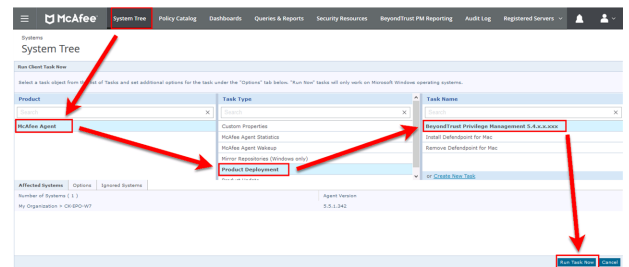
Assign and Run the Client Task to Deploy the Agent

The Trellix Agent must be installed on your endpoints prior to installing Privilege Management for Windows.

1. Navigate to the **System Tree > Systems** tab and select the endpoint or group containing your endpoints. You may need to drill down to the location using the tree on the left.
2. Click **Actions** on the bottom of the screen and select **Agent > Run Client Task Now**.



3. Leave the **Product** as **Trellix Agent**.
4. Select **Product Deployment** from the **Task Type**.
5. Select your Privilege Management for Windows client from the **Task Name** list. This is the name of the client task that you created to deploy Privilege Management for Windows .
6. Your list of endpoints is shown in the bottom panel. Click **Run Task Now**.
7. The **Running Client Task Status** page appears. The **Status** bar may not show completed until the client computer has been restarted.



Once you have deployed the Privilege Management for Windows package, the endpoints automatically send a manifest of product information to the ePO server. This information is stored as a property of the client computer in the **System Tree** on the **Products** tab.

Verify the Privilege Management for Windows Deployment

You can verify the Privilege Management for Windows deployment from the server and client.

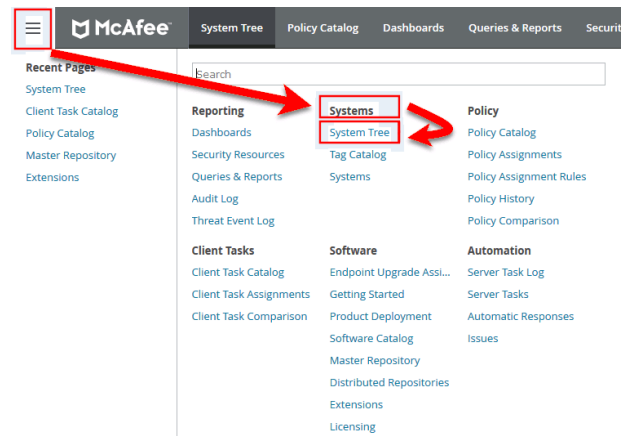


Note: You may not be able to verify deployments if your endpoints are pending a restart.

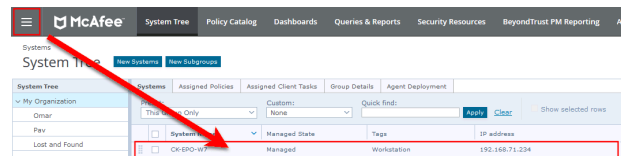
Server Verification

To verify that the Privilege Management for Windows package has been successfully deployed:

1. Log in to **ePolicy Orchestrator** and navigate to **Systems** > **System Tree**. The **System Tree** is also available as a shortcut in ePO on the top-menu bar.



2. The **Systems** tab is the default view. Click the row of the client computer you want to check.



3. Click the **Products** tab and then select **BeyondTrust Privilege Management** from the product list. Here you can check the status of the deployment and deployed files.

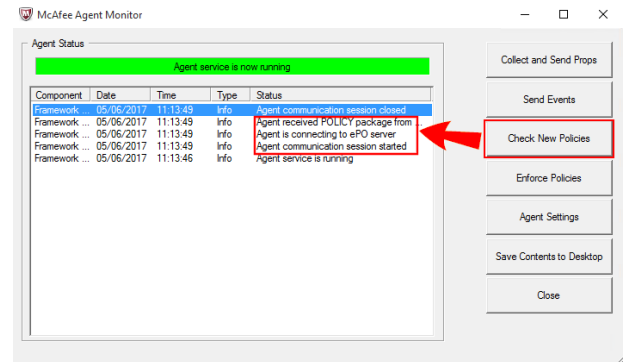


Note: In certain cases there may be a delay in the client connecting back to the ePO server. Click **Wake Up Agents**, check the **Force complete policy and task update** box, and click **OK** to force the connection.

Client Verification

To verify that the Privilege Management client is connected to the ePO server:

- From the client computer, right-click on the Trellix icon in the system tray and select the **McAfee Agent Status Monitor**. The **Agent Status** dialog box appears. If the agent doesn't appear in the task bar, you can run it manually. To do this, open a Windows command prompt and change the directory to the installation folder of the Trellix agent. By default, this is **C:\Program Files\McAfee\Agent**. Run the following command from the Windows command prompt.



```
cmdagent.exe -s
```

- Click **Check New Policies**. This allows you to check the communication between your endpoint and the ePO server.



Note: Sometimes there is a delay in the client connecting to the ePO server. Click **Check New Policies** and select **Enforce Policies** to force a policy update. If you see the endpoint receiving policies from the ePO server, then the connection is successful.

Privilege Management and ePO Events and Reporting

There are two types of reporting for Privilege Management for Windows in ePO:

- Trellix ePO Reporting, threat events only.
- Privilege Management Reporting, threat and report events.

Threat events are Trellix specific and are the default reporting option. Threat events are used by the **Dashboards** and **Queries and Reports** pages.

Report events contain additional information to threat events and can be viewed in the **BeyondTrust Reporting** page as well as the **Queries and Reports** pages.

BeyondTrust Privilege Management Reporting is an optional reporting suite that is integrated into ePO. If you are **not** using **BeyondTrust Privilege Management Reporting** you do not need to complete the steps in this section. BeyondTrust Reporting reports on report events.

BeyondTrust Privilege Management Reporting is available in two places in the ePO Server interface:

- **Queries and Reports** page
 - The **Queries and Reports** page can display report events provided that you have configured a **Database Server** registered server.
- **BeyondTrust Reporting** page
 - The **BeyondTrust Privilege Management Reporting** page requires the Privilege Management database to be installed. In addition, you need to configure both the **BeyondTrust Staging** and **BeyondTrust Reporting** registered servers. You can use this page to access detailed dashboards and drill-through reports.

To use BeyondTrust Privilege Management Reporting, events are inserted into the Privilege Management database from the ePO database. You can also insert applications directly into your Application Groups in your Privilege Management for Windows policy using BeyondTrust Privilege Management Reporting.

BeyondTrust Privilege Management Reporting integrates with Intel Security Threat Intelligence Exchange (TIE), so it has additional support for application reputation using Data Exchange Layer (DXL) and VirusTotal.



Note: Times on reports are shown using the time zone of the ePO server. All events are stored in the database in UTC.



For more information, please see the following:

- ["Configure BeyondTrust Reporting in ePO" on page 21](#)
- ["Configure the Database Server Registered Server" on page 34](#)
- ["Configure the BeyondTrust Reporting Registered Server" on page 31](#)
- ["Configure the BeyondTrust Privilege Management Reporting Staging Registered Server" on page 32](#)

Trellix ePO Reports

No additional configuration is required to use Trellix ePO Reporting.

ePO Reporting is available by default and allows you to build complex queries to analyze your data. ePO Reporting uses threat events on the **Queries and Dashboards** page and the **Dashboards** page.

ePO Reporting can also report on report events in the **Queries and Dashboards** page if **BeyondTrust Reporting** is configured.

There are four **Dashboards** and twelve default **Queries and Reports** available by default for BeyondTrust Privilege Management for Windows. You can configure dashboards, charts, and tabular reports on the **Dashboards** and **Queries and Reports** pages. These can incorporate data from other ePO server products in ePO.

All the events are stored in the ePO database.

Configure BeyondTrust Reporting in ePO

BeyondTrust Reporting is an optional Reporting suite that is integrated into ePO.

BeyondTrust Reporting is available in two places in the ePO server interface:

- **Queries and Reports** page
- **BeyondTrust Privilege Management Reporting** page

BeyondTrust Privilege Management Reporting integrates with Intel Security Threat Intelligence Exchange (TIE), so it has additional support for application reputation using Data Exchange Layer (DXL) and VirusTotal.



Note: Times on reports are shown using the time zone of the ePO server. All events are stored in the database in UTC.

Set up a New SQL Server Instance for BeyondTrust Privilege Management Reporting

For BeyondTrust Privilege Management Reporting functionality, you can either use the same installation of SQL Server as the ePO server or you can use a different SQL installation. A new database is created for BeyondTrust Privilege Management Reporting by the BeyondTrust Database installation.

The following SQL server versions are supported:

- SQL 2012 Standard or Enterprise
- SQL 2014 Standard or Enterprise
- SQL 2016 Standard or Enterprise
- Azure SQL Server



Note: Express SQL versions may be used for evaluation and demonstration purposes.



Please refer to the SQL documentation to create a new installation of SQL server, if required.

Create the Required Database User Accounts

You can either use a system administration account for the registered servers required for BeyondTrust Privilege Management Reporting or you can use the default user accounts that are configured as part of the Privilege Management database installation. This section describes using the least privilege default user accounts that are configured by the Privilege Management database installer.

If you plan to use a system administration account for the BeyondTrust reporting registered servers, you do not need to complete the steps in this section.

We recommend that you use the accounts that the Privilege Management database installer configures. These are:

- **ReportReader** user
- **EventParser** user
- **DataAdmin** user

In addition to the users that the Privilege Management database installer configures, you need to choose the user that you'll use to install the Privilege Management database. This is known as the *DatabaseCreator* user.

This account must be able to execute installers on the machine with administrative privileges. Alternatively, you can use a SQL account for the DatabaseCreator user. This can be configured in the installer when you run it.

The DatabaseCreator user also needs SQL sysadmin permissions.

To grant the **sysadmin** permission for the DatabaseCreator user:

1. Open SQL Server Management Studio and connect to the SQL instance that you're going to use for the BeyondTrust Privilege Management Reporting installation.
2. Navigate to the **Security > Logins** folder.
3. You must add your user to this folder if it hasn't previously been used to authenticate with SQL Server. To do this:
 - Right-click on the **Logins** folder and click **New Login**.
 - Click **Search** to the right of the **Login name** option. If you know the domain and user name you need to add you can type it here, and then click **Check Name**. If you're not sure about the user's details you can click **Advanced** to browse to the user you want to use. Click **OK** and **OK** again to finish adding the user.
4. In the **Logins** folder, right-click on the user to use as the **DatabaseCreator** and select **Properties**.
5. Click **Server Roles** from the left menu and check the **sysadmin** box.
6. Click **OK** to add the **sysadmin** privilege to the user.



Note: If Windows Authentication is specified for the SQL connection, and you're not using an admin account, the user must have **Alter Any Login** and **Create Any Database** permissions on the SQL server instance, in order for the **Reporting Services Instance User** to be created. If you receive error 15247, verify these permissions have been granted.

ReportReader User

The *ReportReader* user is a Windows or SQL account that is used by the Privilege Management ePO Extension to read report events from the Privilege Management database. The registered server **BeyondTrust Privilege Management Reporting** uses this account, so you should make a note of it.

If this is a Windows account, you need to grant the following permission:

- Requires the **Allow Log on Locally** permission to the server hosting SSRS. This is granted automatically if the account is in the Administrators user group.

Some domain groups have this permission set. It's up to you how you configure this account as long as it has the **Allow log on Locally** permission granted through group membership or as an exception.

EventParser User

The *EventParser* user is used by the Privilege Management ePO Extension to read data from the ePO database and write it to the Privilege Management Reporting database. The registered server **BeyondTrust Staging** uses this account, so you should make a note of it.

This account needs to be able to authenticate on the database machine. If the two databases are on different machines, then this account needs to be on a shared domain.

DataAdmin User

The *DataAdmin* user is a Windows or SQL account that is used by the Privilege Management ePO Extension to write to the Privilege Management for Windows database. The registered server **BeyondTrust Purge** uses this account by default.

If this is a Windows account, you need to grant the following permission:

- Requires the **Allow Log on Locally** permission to the server hosting SSRS. This is granted automatically if the account is in the Administrators group.

Some domain groups have this permission set. It's up to you how you configure this account as long as it has the **Allow log on Locally** permission granted through group membership or as an exception.

Install the Privilege Management Reporting Database

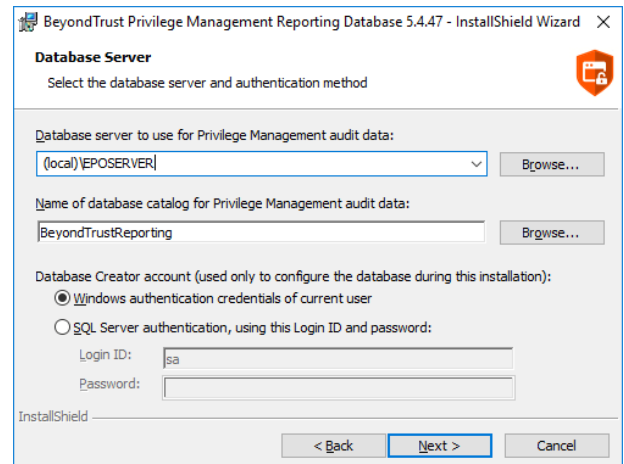
To install Privilege Management Reporting database, run the Privilege Management Reporting Database installation package with the **Database Creator** user that you set up when you created the required user accounts.

- If you are running the installer on the same machine as the database, use **Privilege Management ReportingDatabase.msi**.
- If you are running the installer on a client machine, use **Privilege Management ReportingDatabase.exe**. This includes the SQL Native Client Redistributable package.



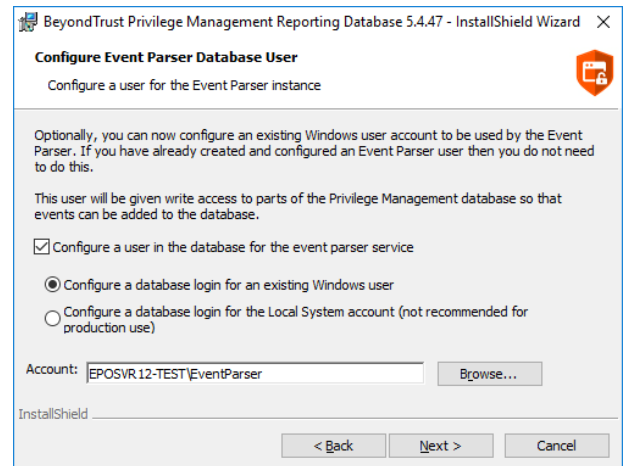
Note: The Privilege Management Reporting Database installer assigns specific privileges to the user accounts that you created previously.

1. Run the installation package and click **Next** to continue. The **License Agreement** dialog box appears.
2. To accept the agreement, select **I accept the terms in the license agreement** and click **Next**. The **Database Server** dialog box appears.
3. Set the **Database server to use for Privilege Management audit data** as **(local)** if you are using the same machine for your database server and you didn't create an instance. If you did create an instance, you need to add it here, for example **(local)\BeyondTrustReporting**, where the instance is **BeyondTrustReporting**. The database servers are available from the dropdown menu.
4. Type a new name in the **Name of database catalog for Privilege Management audit data** field.
5. Select to either use the Windows credentials of the current user or you can use SQL server authentication. If you choose SQL server authentication you need to enter the **Login ID** and **Password** before you can proceed.



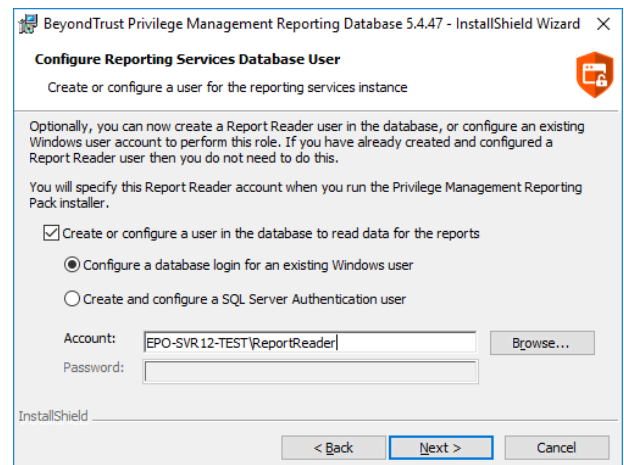
6. Click **Next**. The **Configure Event Parser Database User** dialog box appears.
7. If you are using the default Privilege Management Reporting database users for BeyondTrust Reporting, check the **Configure a user in the database for the event parser service** box. Select your **EventParser** user. In this example we are using a Windows user that we've previously created.

- Click **Browse** and navigate to the **EventParser** user that you created.



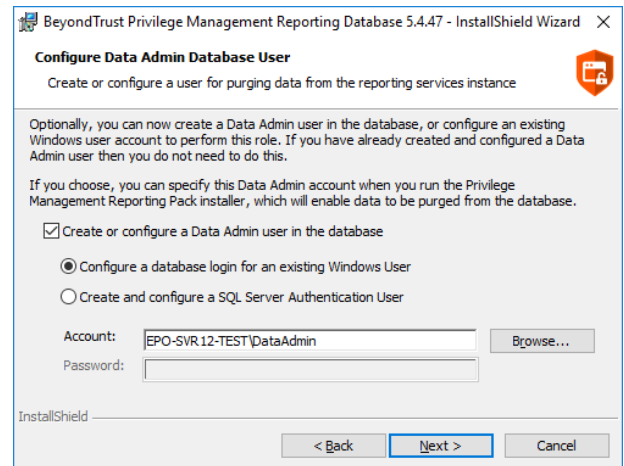

Note: Once you have selected a local or domain machine, ensure you select a user that you know exists in that location; otherwise, the installation will fail.

- Click **Next**. The **Configure Reporting Services Database User** dialog box appears.
- If you are using the default Reporting users for Privilege Management Reporting, check the **Create or configure a user in the database to read data for the reports** box. Select to either use an existing Windows user or create a new SQL server user. In this example we use a Windows user that we previously created.
- Click **Browse** to navigate to the **ReportReader** user that you created.




Note: Once you have selected a local or domain machine, ensure you select a user that you know exists in that location; otherwise, the installation will fail.

12. Click **Next**. The **Configure Data Admin Database User** dialog box appears.



13. If you are using the default Reporting users for Privilege Management Reporting, check the **Create or configure a Data Admin user in the database** box. Select to either use an existing Windows user or create a new SQL server user. In this example we use a Windows user that we previously created.
14. Click **Browse** to navigate to the **DataAdmin** user that you created.



Note: Ensure you select a user that you know exists on the domain or local machine that you've selected; otherwise, the installation will fail.

15. Click **Next** and then **Install** to finish the installation. You have now installed the Privilege Management Reporting database.

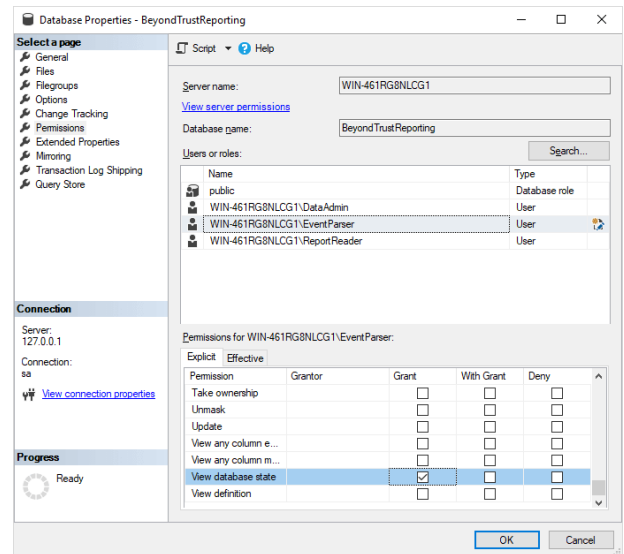


For more information, please see "[Create the Required Database User Accounts](#)" on page 23.

Configure Permissions for the EventParser User

You must grant the **View database state** permission on the Reporting database for the EventParser user that you created during the database installation. This permission is already granted on the ePO database by the installer.

1. Open SQL Server Management Studio and connect to your Reporting database.
2. Right-click on the Reporting database, select **Properties** from the Reporting database, and click **Permissions** on the left menu.
3. Select the **EventParser** user from the **Users or roles** section.
4. Check the **Grant** box for the **View database state** permission.



Create Registered Servers for your Deployment

There are three registered servers you can configure in the Privilege Management ePO Extension for Reporting. What you need to configure will depend on your setup.

Compulsory: BeyondTrust Privilege Management Reporting

You need to configure this registered server if you are using Privilege Management Reporting.

Server tasks that use the Reporting registered server:

- BeyondTrust Privilege Management Reporting Pre-Caching to move events from the ePO database to the Reporting database.
- BeyondTrust Privilege Management Reputation Update to update the reputation.

This registered server uses the ReportReader account that was configured by the Privilege Management database installer. Alternatively, you can use a system administration account.

i For information on how to set up your BeyondTrust Reporting registered server, please see "[Configure the BeyondTrust Reporting Registered Server](#)" on page 31.

Optional: BeyondTrust Reporting Staging

This registered server allows you to use the EventParser user to move events to the staging table.

Server tasks that use the Reporting registered server:

- BeyondTrust Privilege Management Reporting Event Staging. If it's not configured, it uses the BeyondTrust Reporting registered server.

This registered server uses the EventParser user account that was configured by the Privilege Management database installer. Alternatively, you can use a system administration account.

i For information on how to set up your BeyondTrust Reporting registered server, please see "[Configure the BeyondTrust Privilege Management Reporting Staging Registered Server](#)" on page 32.

Optional: BeyondTrust Admin

This registered server allows you to use the DataAdmin user to manage the purging of data.

Server tasks that use the Reporting registered server:

- BeyondTrust Reporting Purge. If it's not configured, it uses the BeyondTrust staging registered server if that has been configured; if not, it uses the Reporting registered server user instead.

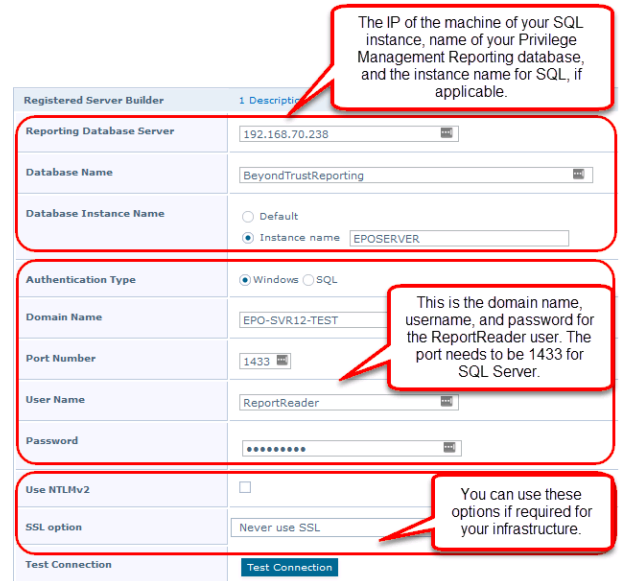
This registered server uses the DataAdmin account that was configured by the Privilege Management database installer. Alternatively, you can use a system administration account.



For information on how to set up your BeyondTrust Reporting registered server, please see "[Configure the BeyondTrust Admin Registered Server](#)" on page 33.

Configure the BeyondTrust Reporting Registered Server

1. Log in to **ePolicy Orchestrator**, navigate to **Menu > Configuration > Registered Servers**, and select **New Server**.
2. On the next page, select **BeyondTrustPrivilege Management Reporting** from the **Server type** dropdown menu and enter an appropriate name (**BeyondTrust Reporting ER Server**, for example). Click **Next**.



The screenshot shows the 'Registered Server Builder' configuration page. It includes the following fields and callouts:

- Reporting Database Server:** 192.168.70.238. Callout: "The IP of the machine of your SQL instance, name of your Privilege Management Reporting database, and the instance name for SQL, if applicable."
- Database Name:** BeyondTrustReporting
- Database Instance Name:** Radio buttons for 'Default' and 'Instance name' (selected). The 'Instance name' field contains 'EPOSERVER'.
- Authentication Type:** Radio buttons for 'Windows' (selected) and 'SQL'.
- Domain Name:** EPO-SVR12-TEST. Callout: "This is the domain name, username, and password for the ReportReader user. The port needs to be 1433 for SQL Server."
- Port Number:** 1433
- User Name:** ReportReader
- Password:** [Redacted]
- Use NTLMv2:**
- SSL option:** Never use SSL. Callout: "You can use these options if required for your infrastructure."
- Test Connection:** Test Connection button



Note: This screen shot shows example data.

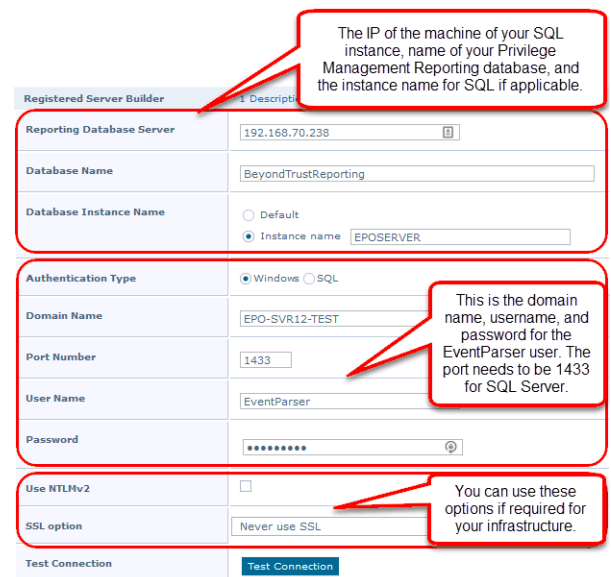
3. Complete the configuration page with the server details. The **Port Number** should be set to 1433.
4. Click **Test Connection**. On successful connection, click **Save**.

Configure the BeyondTrust Privilege Management Reporting Staging Registered Server

Note: If this is an upgrade, and you do not have a registered server for BeyondTrust Privilege Management Reporting Staging, the server tasks attempt to use the Reporting registered server. Please see "[Configure the BeyondTrust Reporting Registered Server](#)" on page 31. This is for backwards compatibility and additional permissions are required.

Note: The screen shot shows example data.

1. Log in to **ePolicy Orchestrator**, navigate to **Menu > Configuration > Registered Servers**, and click **New Server**.
2. On the next page, select **BeyondTrust Privilege Management Reporting Staging** from the **Server type** dropdown menu and enter an appropriate name (**BeyondTrust Staging Server**, for example). Click **Next**.
3. Complete the configuration page and click **Test Connection**. On successful connection, click **Save**.



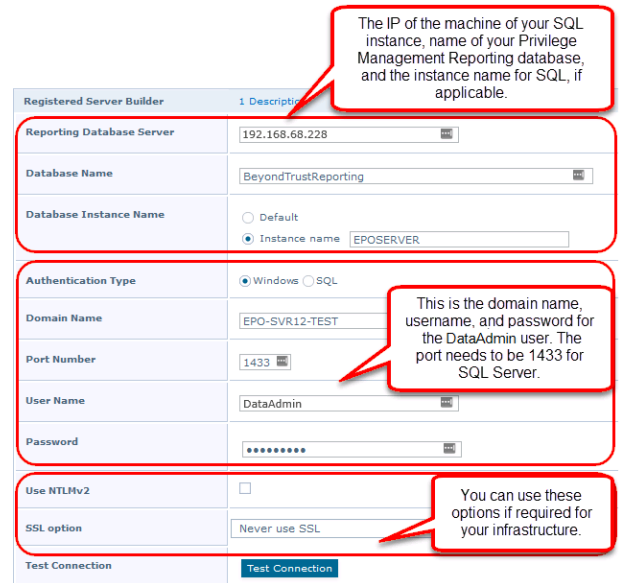
The screenshot shows the 'Registered Server Builder' configuration page. The fields are as follows:

- Reporting Database Server:** 192.168.70.238 (Callout: The IP of the machine of your SQL instance, name of your Privilege Management Reporting database, and the instance name for SQL if applicable.)
- Database Name:** BeyondTrustReporting
- Database Instance Name:** Instance name: EPOSERVER
- Authentication Type:** Windows (selected), SQL
- Domain Name:** EPO-SVR12-TEST (Callout: This is the domain name, username, and password for the EventParser user. The port needs to be 1433 for SQL Server.)
- Port Number:** 1433
- User Name:** EventParser
- Password:** [Redacted]
- Use NTLMv2:** [Unchecked]
- SSL option:** Never use SSL (Callout: You can use these options if required for your infrastructure.)
- Test Connection:** Test Connection button

Configure the BeyondTrust Admin Registered Server

1. Log in to **ePolicy Orchestrator**, navigate to **Menu > Configuration > Registered Servers**, and click **New Server**.
2. On the next page, select **BeyondTrust Privilege Management Reporting Admin** from the **Server type** dropdown menu and enter an appropriate name (**BeyondTrust Admin Purge Server**, for example). Click **Next**.

This screen shot shows example data.



The screenshot shows the 'Registered Server Builder' configuration page. The form is divided into several sections:

- Reporting Database Server:** IP address is 192.168.68.228. A callout explains: "The IP of the machine of your SQL instance, name of your Privilege Management Reporting database, and the instance name for SQL, if applicable."
- Database Name:** BeyondTrustReporting
- Database Instance Name:** Instance name is selected, with value EPOSERVER.
- Authentication Type:** Windows is selected.
- Domain Name:** EPO-SVR12-TEST. A callout explains: "This is the domain name, username, and password for the DataAdmin user. The port needs to be 1433 for SQL Server."
- Port Number:** 1433
- User Name:** DataAdmin
- Password:** Masked with dots.
- Use NTLMv2:** Unchecked.
- SSL option:** Never use SSL. A callout explains: "You can use these options if required for your infrastructure."
- Test Connection:** A button labeled 'Test Connection' is visible.

3. Complete the configuration page and click **Test Connection**. On successful connection, click **Save**.

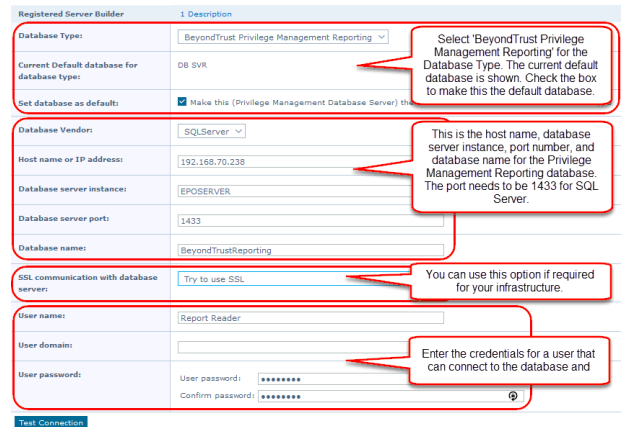
Configure the Database Server Registered Server

A Database server registered server allows you to query Privilege Management events in the Privilege Management database using the **Queries and Reports** capability in ePO.



Note: This screen shot shows example data.

1. Log in to **ePolicy Orchestrator**, navigate to **Menu > Configuration > Registered Servers**, and click **New Server**.
2. On the next page, select **Database Server** from the **Server type** dropdown menu and enter an appropriate name (**Privilege Management Database Server**, for example). Click **Next**.



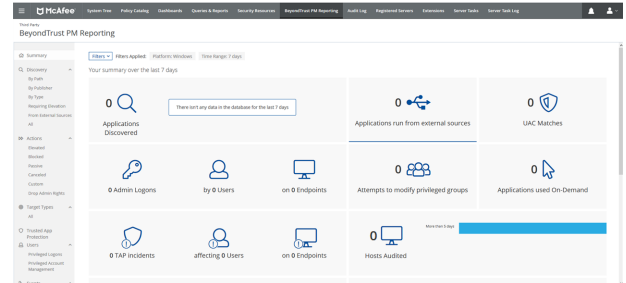
Registered Server Builder		1 Description
Database Type:	BeyondTrust Privilege Management Reporting	Select 'BeyondTrust Privilege Management Reporting' for the Database Type. The current default database is shown. Check the box to make this the default database.
Current Default database for database type:	DB SVR	
Set database as default:	<input checked="" type="checkbox"/> Make this (Privilege Management Database Server) the default database.	
Database Vendor:	SQLServer	This is the host name, database server instance, port number, and database name for the Privilege Management Reporting database. The port needs to be 1433 for SQL Server.
Host name or IP address:	192.168.70.238	
Database server instance:	EPOSERVER	
Database server port:	1433	
Database name:	BeyondTrustReporting	
SSL communication with database server:	<input type="checkbox"/> Try to use SSL	You can use this option if required for your infrastructure.
User name:	Report Reader	
User domain:		Enter the credentials for a user that can connect to the database and
User password:	User password: *****	
Confirm password:	Confirm password: *****	

Test Connection

3. Complete the configuration page and click **Test Connection**. On successful connection, click **Save**.

View BeyondTrust Privilege Management Reporting

Once you have configured the registered servers, you can click **BeyondTrust Privilege Management Reporting** from the top menu bar in ePO to check that it has been configured correctly. The screen looks similar to the one depicted here.



No data is available initially, as you need to configure and run the BeyondTrust Privilege Management Reporting Event Staging server tasks to get the events from the ePO database and insert them into the Privilege Management Reporting database.

The next step is to configure the server tasks to populate the data.



For more information, please see "[Create Automated Tasks Using ePO Server Tasks](#)" on page 36.

Create Automated Tasks Using ePO Server Tasks

You use ePO server tasks to create an automated schedule of tasks that you want your ePO server to perform. The following ePO server tasks are used for Privilege Management for Windows:

- **Create the BeyondTrust Privilege Management Reporting Event Staging Server Task:** Required to move events from the ePO database to the Reporting database for BeyondTrust Privilege Management Reporting.
- **Create the BeyondTrust Privilege Management Reporting Purge Server Task:** Optional, but recommended to maintain your database.
- **Create the BeyondTrust Privilege Management Reputation Update Server Task:** Optional to update the reputation from VirusTotal and/or TIE.
- **Create the Purge Threat Event Log Server Task:** Optional to purge the ePO threat event log.

There is an additional server task that you can create if you have a business need to purge the events from the BeyondTrust table in the ePO database only.

We recommend you use the built-in ePO server task called **Purge Rolled up Data** rather than this server task. This will remove all the events from the BeyondTrust table in the ePO database and the Privilege Management Reporting database.



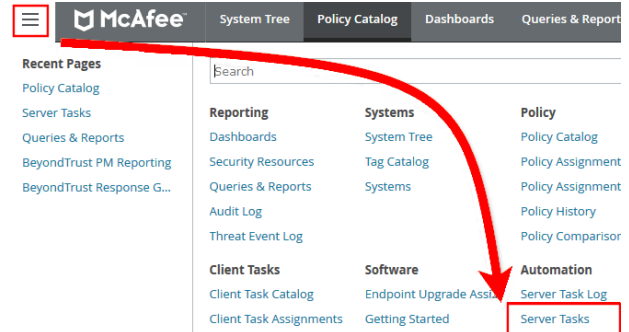
For more information, please see the following:

- *"Create the Privilege Management Reporting Event Staging Server Task" on page 37*
- *"Create the Privilege Management Reporting Purge Server Task" on page 38*
- *"Create the Privilege Management Reporting Reputation Update Server Task" on page 39*
- *"Create the Purge Threat Event Log Server Task" on page 40*

Create the Privilege Management Reporting Event Staging Server Task

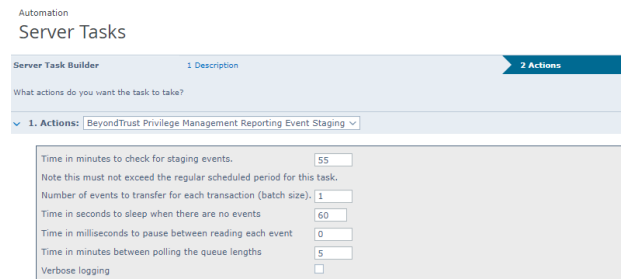
The **Reporting Event Staging** server task takes report events from the ePO database and inserts them into the BeyondTrust Privilege Management Reporting database. You need to create this task to view BeyondTrust reports.

1. Navigate to **Menu > Automation > Server Tasks** and select **New Task**.



2. Enter an appropriate name (**BeyondTrust Event Staging**, for example), leave the **Schedule status** as **Enabled**, and click **Next**.
3. Select **BeyondTrust Privilege Management Reporting Event Staging** from the **Actions** dropdown menu and click **Next**.
4. Adjust the times to check for events to suit your environment and click **Next**.

- **Time in minutes to check for staging events:** The recommended value is 55 minutes.
- **Number of events to transfer for each transaction (batch size):** The default value is 1. Only increase the value if there is a lag in performance throughput between ePO to Privilege Management Reporting.
- **Time in seconds to sleep when there are no events:** The recommended value is 60 seconds.
- **Time in milliseconds to pause between reading each event:** The default and recommended value is 0.
- **Time in minutes between polling the queue lengths:** The recommended value is 5 minutes.
- **Verbose logging:** By default, verbose logging is turned off. Only use verbose logging when you need more details about the events being collected.

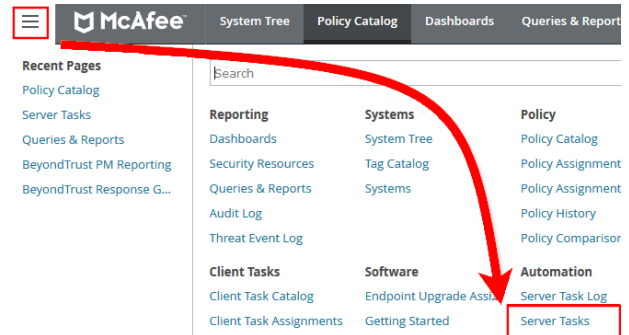


5. On the **Schedule** page, set the **Schedule type** to your preference.
6. Select the **Start date** and **End date** if required. By default, **No end date** is selected.
7. Adjust the time that you want the schedule to run. This is the time of the machine running the ePO server. Click **Next**. You are presented with a summary of the server task.
8. Select **Save** to finish creating the server task.

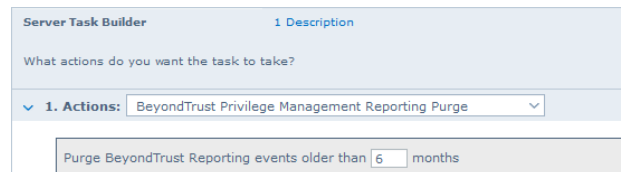
Create the Privilege Management Reporting Purge Server Task

You can purge Reporting database events that are older than a defined period in order to manage the size of your database.

1. Navigate to **Menu > Automation > Server Tasks** and select **New Task**.



2. Enter an appropriate name (**BeyondTrust Purge**, for example), leave **Schedule status** as **Enabled**, and click **Next**.
3. Select **BeyondTrust Privilege Management Reporting Purge** from the **Actions** dropdown menu.
4. Choose the number of months to purge events older than.

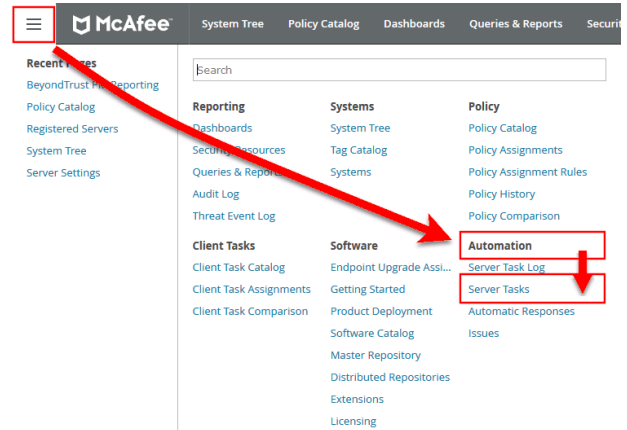


5. On the **Schedule** page set the **Schedule type** to your preference.
6. Select the **Start date** and **End date**, if required. By default, **No end date** is selected.
7. Adjust the time that you want the schedule to run. This is the time of the machine running the ePO server. Click **Next**. You are presented with a summary of the server task.
8. Click **Save** to finish creating the server task.

Create the Privilege Management Reporting Reputation Update Server Task

You can update the reputation, provided that it is configured using this server task.

1. Navigate to **Menu > Automation > Server Tasks** and click **New Task**.



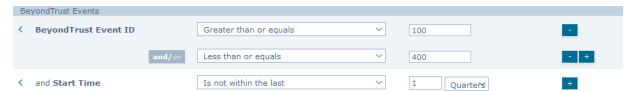
2. Enter an appropriate name, such as **BeyondTrust Reputation Update**, leave **Schedule status** as **Enabled**, and click **Next**.
3. Select **BeyondTrust Privilege Management Reputation Update** from the **Actions** dropdown menu.
4. Check the boxes adjacent to the reputations you want to update. You can then select from **Add Reputation to entries with no reputation** or **Update Reputation for entries with old reputation**. If you select the latter option, you can choose the number of days. Click **Next**.
5. On the **Schedule** page set the **Schedule type** to your preference.
6. Select the **Start date** and **End date**, if required. By default, **No end date** is selected.
7. Adjust the time that you want the schedule to run. This is the time of the machine running the ePO server. Click **Next**. You are presented with a summary of the server task.
8. Click **Save** to finish creating the server task.

Create the Purge Threat Event Log Server Task

You can purge threat events from the event log using this server task. Before you use this server task you need to create a query for it to use.

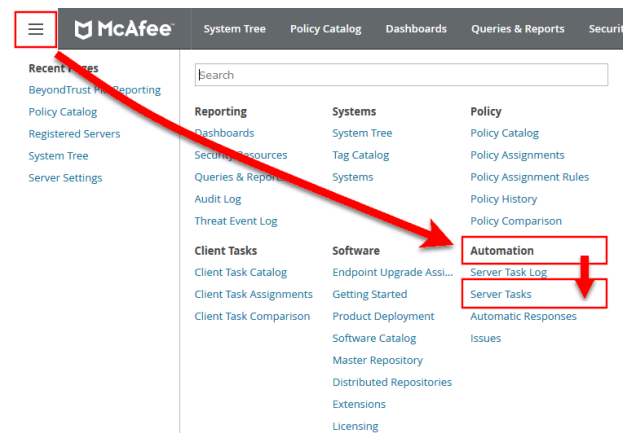
Create the Purge Threat Event Log Query

1. Click **Queries and Reports** and click **New Query**.
2. From the left side, click **BeyondTrust Privilege Management** and click **Next**.
3. Select **List > Table** from the left side and click **Next**.
4. Click **Next** on the **Select Columns** page.
5. On the **Filter** page click **BeyondTrust Event ID**.
6. Select **Greater than or equals** and enter **100** for the **Value**.
7. Click the plus symbol (+) and change the filter to **and**.
8. Select **Less than or equals** and enter **400** for the **Value**.
9. On the same **Filter** page, click **Start Time**.
10. Select **Is not within the last** and configure the time period to say how many days/months/years of data you want to keep.
11. Click **Save** and give the query a name, such as **ePO Purge Threat Event**.

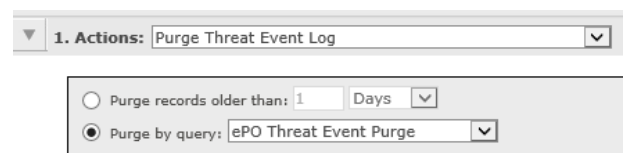


Create the ePO Purge Threat Event Server Task

1. Select **Menu > Automation > Server Tasks** and select **New Task**.



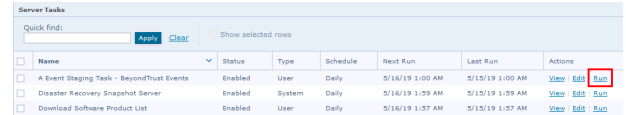
2. Enter an appropriate name (**Purge Threat Event Log**, for example), leave **Schedule status** as **Enabled**, and click **Next**.
3. Select **Purge Threat Event Log** from the **Actions** dropdown menu.
4. Select from **Purge records older than** or **Purge by query** and choose your criteria.



5. On the **Schedule** page set the **Schedule type** to your preference.
6. Select the **Start date** and **End date**, if required. By default, **No end date** is selected.
7. Adjust the time that you want the schedule to run. This is the time of the machine running the ePO server. Click **Next**. You are presented with a summary of the server task.
8. Click **Save** to finish creating the server task.

Run an Automated Task Outside the Scheduled Time

You can run the server tasks you have created from the **Server Tasks** page in ePO. This lists all the server tasks. You can run a task by clicking the **Run** link on the right side of the row:



<input type="checkbox"/>	Name	Status	Type	Schedule	Next Run	Last Run	Actions
<input type="checkbox"/>	A Event Staging Task - BeyondTrust Events	Enabled	User	Daily	5/16/19 1:00 AM	5/15/19 1:00 AM	View Edit Run
<input type="checkbox"/>	Disaster Recovery Snapshot Server	Enabled	System	Daily	5/16/19 1:59 AM	5/15/19 1:59 AM	View Edit Run
<input type="checkbox"/>	Download Software Product List	Enabled	User	Daily	5/16/19 1:57 AM	5/15/19 1:57 AM	View Edit Run

Assign Permissions for Privilege Management Users

Privileges Assigned by Installer

The following privileges are assigned to the user accounts by the Privilege Management Reporting Database Installer.

User Account	Privileges Assigned by the Installer
EventParser	Write access to certain database tables Membership of local Event Log Readers group
ReportReader	Read and Execute on the appropriate database objects
DataAdmin	Read and Execute on the appropriate database objects

Privilege Management Permissions

Permissions that can be configured for each Privilege Management for Windows permission set are:

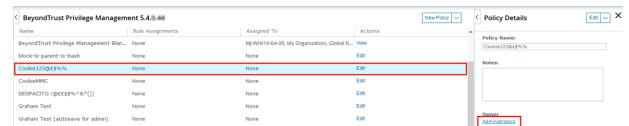
- Privilege Management
- Privilege Management Policy
- Policy Assignment Rule
- Policy Management

To configure user permissions for Privilege Management for Windows in the ePO Server:

Set Owner

Users who administer Privilege Management Reports or Workstyles need to be members of the permission sets that you configure.

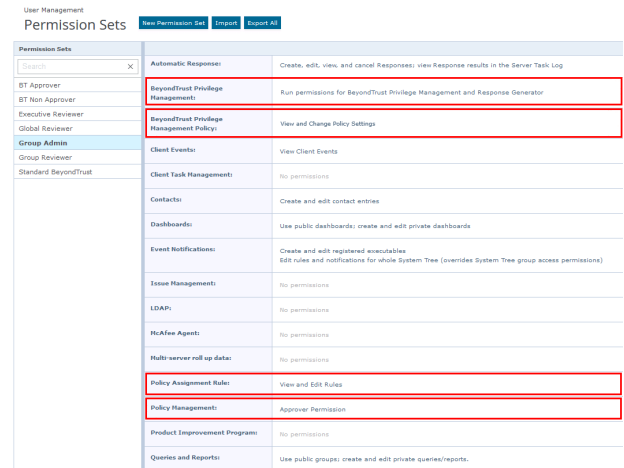
1. In **Trellix ePolicy Orchestrator**, navigate to **Menu > Policy > Policy Catalog**.
2. Select the policy row of the policy you wish to configure (do not click **Edit** - click the row of the policy). A **Policy Details** tab opens to the right, with a clickable **Owner** link.
3. Click the **Owner** link. The **Policy Ownership** page opens.
4. Check the boxes of the users you wish to make owners of the policy.
5. Click **Save**.



Configure Permissions

1. In **Trellix ePolicy Orchestrator**, navigate to **Menu > User Management > Permission Sets**.

2. Select the permission set that you want to configure from the left side.



User Management	
Permission Sets	
Automatic Response:	Create, edit, view, and cancel Responses; view Response results in the Server Task Log
BeyondTrust Privilege Management	Run permissions for BeyondTrust Privilege Management and Response Generator
BeyondTrust Privilege Management Policy	View and Change Policy Settings
Client Events:	View Client Events
Client Task Management:	No permissions
Contacts:	Create and edit contact entries
Dashboards:	Use public dashboards; create and edit private dashboards
Event Notifications:	Create and edit registered executables; Edit rules and notifications for whole System Tree (overrides System Tree group access permissions)
Issue Management:	No permissions
LDAPs:	No permissions
McAfee Agent:	No permissions
Multi-server roll up data:	No permissions
Policy Assignment Role:	View and Edit Rules
Policy Management:	Approver Permission
Product Improvement Program:	No permissions
Queries and Reports:	Use public groups; create and edit private queries/reports.

Privilege Management

1. Locate **BeyondTrust Privilege Management** in the list and click **Edit** on the right side.
2. If users in this group are to administer Privilege Management Reporting only:
Select **Run permission for BeyondTrust Privilege Management** and click **Save** on the bottom-right.
3. If users in this group are to administer the Privilege Management ePO Response Generator only:
Select **Run permission for BeyondTrust Response Generator** and click **Save** on the bottom-right.
4. If users in this group are to administer both Privilege Management Reporting and the Privilege Management ePO Response Generator:
Select **Run permissions for BeyondTrust Privilege Management and for Response Generator**, and click **Save** on the bottom-right.
5. If you don't want users in this group to be able to administer Privilege Management Reports or the Privilege Management ePO Response Generator:
Select **No permissions** and click **Save** on the bottom-right.

Privilege Management Policy

1. Locate **BeyondTrust Privilege Management Policy** in the list and click **Edit** on the right-hand side.
2. If users in this group are to edit Privilege Management policy and Workstyles:
Select **View and change task settings** and click **Save** on the bottom-right.
3. If users in this group are to read but not edit the Privilege Management policy and Workstyles:
Select **View settings** and click **Save** on the bottom-right.
4. If you don't want users in this group to be able to read or edit Privilege Management policy and Workstyles:
Select **No permissions** and click **Save** on the bottom-right.

Policy Assignment Rule

1. Locate **Policy Assignment Rule** in the list and click **Edit** on the right side.
2. If users in this group will be administering policy rules:
Select **View and Edit Rules** in the list and click **Save** on the bottom-right.
3. If users in this group will be viewing but not administering policy rules:
Select **View Rules** in the list and click **Save** on the bottom-right.
4. If you don't want users in this group to be able to view or administer policy rules:
Select **No permissions** and click **Save** on the bottom-right.

You have now added the permissions you require to administer Privilege Management Workstyles and the Privilege Management ePO Response Generator.

Policy Management

This allows you to define which users can make policy changes independently, including the ability to approve or reject policy change requests.

1. Locate **Policy Management** in the list and click **Edit** on the right side.
2. If users in this group are not to have permission to make policy changes independently:
Select **No Permission - Users with this permission must submit policy changes for approval** and click **Save** on the bottom-right.
3. If users in this group are to be able to make policy changes independently and can approve or reject policy requests:
Select **Approver Permission - Users with this permission can make policy changes independently. This includes the ability to approve or reject policy change requests** and click **Save** on the bottom-right.

Performance Tuning on the ePO Server

The default configuration of an ePO Server allows two concurrent tasks that share a single processor core. For larger systems, this may have a performance implication. Your ePO Server can be configured to make better use of the processor cores for scheduled tasks.

1. Navigate to **Menu > Server Settings > Scheduler Tasks**.
2. Click **Edit**.
3. From **Total maximum tasks**, select **Absolute maximum calculation**.

This ensures you are not restricted to using only a single core for calculations.



Note: Your ePO Server must be restarted for these changes to take effect.