BeyondInsight 24.1 Cloud User Guide

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BeyondInsight User Guide - Cloud Deployment

BeyondInsight is a central management, policy, reporting, and analytics console for many products within the BeyondInsight portfolio. BeyondInsight enables IT and security professionals to collaboratively reduce user-based risks, mitigate threats to information assets, address security exposures across large, diverse IT environments, and comply with internal, industry, and government mandates.

This guide provides instructions and procedures for using BeyondInsight.

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Log In to the BeyondInsight Console

The admin credentials used to log in to the BeyondInsight console for the first time are configured during the installation process. Afterward, the credentials you use to log in to the console depend on the type of authentication configured for your BeyondInsight system. Logging into the console varies depending on the type of authentication configured for your system.

The following authentication types can be used:

- **BeyondInsight:** Create local users in BeyondInsight and add them to groups to assign permissions to features. Local users can log in to the console from the BeyondInsight login page.
- Active Directory: Add Active Directory users in BeyondInsight and add them to groups to assign permissions to features. Active Directory users can log in to the console from the BeyondInsight login page.
- Microsoft Entra ID: Add Entra ID users in BeyondInsight and add them to groups to assign permissions to features. Entra ID users can log in to the console from the BeyondInsight login page.

Note: To use Entra ID credentials for logging into BeyondInsight, the accounts must use SAML authentication. For more information on configuring Entra ID SAML with BeyondInsight, please see <u>Configure Microsoft Entra ID SAML with</u> <u>BeyondInsight SAML at https://www.beyondtrust.com/docs/beyondinsight-password-safe/bi/authentication/security-provider.htm#configure-entra-id</u>.

- LDAP: Add LDAP users and add them to groups to assign permissions to features. LDAP users can log in to the console from the BeyondInsight login page.
- **Two-Factor Authentication:** Configure two-factor authentication with a RADIUS server or time-based one-time password (TOTP) authenticator app, and assign it to users in BeyondInsight. Users are prompted for their two-factor login options after providing their credentials on the BeyondInsight login page.
- **Smart Card:** Configure BeyondInsight to allow authentication using a smart card PIN. Users can bypass the BeyondInsight login page and navigate to the smart card site access URL provided by the administrator to use smart card authentication.
- SAML Authentication: Configure SAML identity providers in BeyondInsight to use authentication for web tools that support SAML 2.0 standard, such as PingID, Okta, and ADFS. Users can authenticate with the default SAML identity provider configured in BeyondInsight by clicking the Use SAML Authentication link on the BeyondInsight login page. To log in using a SAML identity provider other than the default provider, users can navigate to the SAML site access URL provided by the administrator.
- Claims-Aware: Configure a claims-aware website to bypass the current BeyondInsight login page and authenticate against any configured Federated Service that uses SAML to issue claims.

Note: When working in the console, the times displayed match the web browser on the local computer unless stated otherwise.

To log in:

- 1. Open a browser and enter the URL for your BeyondInsight / Password Safe cloud instance: https://<hostname>/WebConsole/index.html.
- 2. Enter your username and password. The default username is **Administrator**, and the password is the administrator password you set in the initialization email.
- 3. If applicable, select a domain or LDAP Server from the Log in to list.

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Tip: The Log in to list is only displayed on the Login page when there are either AD or LDAP user groups created in the BeyondInsight console. The Log in to list is displayed by default, but may be disabled / enabled by an admin user by toggling the Show list of domains/LDAP servers on login page setting from Configuration > System > Site Options page.

- 4. Click Log In.
- 5. To log in using SAML Authentication, click the **Use SAML Authentication** link below the **Log In** button. You are redirected to the single sign-on access site for the default SAML identity provider configured by your administrator in BeyondInsight.

Note: If the initial login attempt fails, and two-factor authentication (2FA) is enabled, the user is taken to the 2FA page for security reasons.

For more information, please see the BeyondInsight and Password Safe Authentication Guide at https://www.beyondtrust.com/docs/beyondinsight-password-safe/bi/authentication/index.htm.

Log Out of the Console

To log out of the console, click **Profile and preferences** in the top-right corner, and then click **Log Out.**

Account Settings		•	Log Out	0
Preferences Theme				
BeyondTrust Brand Colors	•			
English (United States)	•			

Select a Display Language

BeyondInsight and Password Safe can be displayed in the following languages:

- English
- French
- German
- Japanese
- Korean
- Portuguese
- Spanish

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If the Show language picker option is enabled in Configuration > System > Site Options > Localization, you can select a language from the list on the Log In page or by clicking the Profile and preferences button, and then selecting it from the Language dropdown.

Navigate the Console

Once logged into the BeyondInsight console, you are taken to the Home page, where the suite of features is easily accessible using any of the following methods:

- Click the container cards.
- Click the icons in the left sidebar.
- Click Menu in the left sidebar to expand it, and then click your desired feature.
- Click Quick Navigation in the top-right corner or press CTRL+K to access a list of the commonly used features and your favorites.
 - Locate your desired feature from the list by typing at least 3 characters.
 - Click the star next to any of the features in the list to add them to your favorites. Favorites are displayed at the top of the list.
 - Click the star next to any favorite to remove it as favorite.

Container Cards

You can quickly access the following functionality from the container cards:

- · Initiate a discovery scan to discover new systems and accounts.
- · Create a new managed system manually.
- Set up Resource Brokers and Resource Zones to allow for connectivity to network segments.
- Access configuration settings for BeyondInsight and Password Safe components and objects.
- Access Password Safe to execute password requests and approvals.
- · View and manage assets.
- · View and edit managed systems.
- · View and edit managed accounts.

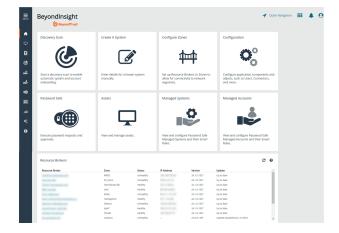
You can also view the following most recent information for your Resource Zones and Resource Brokers from the dynamically updated dashboard card:

- List of Resource Zones and how many Resource Brokers are checked in for each Zone
- · List of Resource Brokers, as well as the Zone they are in, and their health statuses

Left Sidebar

The following features are available from the left sidebar:

- Dashboard (Preview): Customize your dynamic dashboards using the Dashboard Editor.
- Assets: Display and manage all assets. Access the Smart Rules page to create and manage Smart Groups. Add assets to Password Safe management.
- Smart Rules: View and manage Smart Rules.



- **Discovery:** Run and schedule discovery scans, review active, completed, and scheduled scans, and view the list of discovery scanners.
- **Managed Systems:** View and configure properties for Password Safe managed systems, managed databases, managed directories, managed applications, and their associated Smart Rules.
- Managed Accounts: View and configure properties for Password Safe managed accounts and their associated Smart Rules.
- **Password Safe:** Access the Password Safe web portal to request passwords and remote access sessions and to approve requests.
- Secrets Safe: View and manage team secrets.
- Analytics & Reporting: Access reports on collected data.
- **Configuration:** Configure BeyondInsight and Password Safe components and objects, such as users and groups, authentication settings, connectors, and much more.
- About: Access helpful links. View the current BeyondInsight version information, as well as the history of installed versions.

Switch Between BeyondTrust Applications

If you have BeyondTrust Identity Security Insights, you can connect Password Safe Cloud and other BeyondTrust applications, and then switch between applications without needing to re-enter credentials. Re-entering credentials may be necessary in some circumstances, depending on the login configuration of the different applications.

The **App Switcher** menu appears in the upper right. Click the menu for a list of connected applications, and click an application. There can be more than one instance of an application, except for Identity Security Insights.

The menu only appears if there are connected applications. If all connected applications are removed from the Insights instance, then the menu no longer displays.

Configuration of this feature is managed in BeyondTrust Identity Security Insights.

For more information on installing and configuring Resource Brokers and Zones, please refer to the <u>Password Safe Cloud</u> <u>Resource Broker Configuration and Installation Guide</u> at <u>https://www.beyondtrust.com/docs/beyondinsight-password-</u> safe/ps/cloud/resource-broker/index.htm.

Manage Toast Messages and Notifications in BeyondInsight

During your session, BeyondInsight displays toast messages to indicate successes, failures, warnings, and errors for actions you have taken. Toast messages auto-dismiss after 8 seconds based on a timer. There may be multiple messages displayed at once. A control bar displays above the message(s) that can be used to control the message timer. You can control the messages as follows:

- Click **Dismiss** directly in a message to dismiss that specific message immediately.
- Use the control bar above the message(s) to pause all timers, resume all timers, or dismiss all messages.



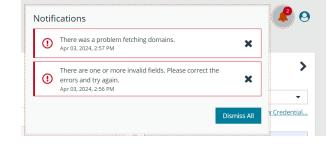
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Toast messages that you haven't dismissed but instead have timed out can be reviewed in the Message Notification Center by clicking the **Notifications** (bell) icon in the top right of the console. This allows you to view more details for errors or warnings if they exist, and dismiss them.

More details about the Message Notification Center are as follows:

- Success messages are not sent to the notification center, whether or not they were dismissed.
- A max of 6 messages can be displayed at once and a scroll bar is provided to view more as needed.



- The notification center can show up to 100 of the most recent notifications, sorted from newest to oldest.
- Notifications that are older than 1 hour are not available.
- Once you log out of BeyondInsight, any notifications that existed in the notification center are cleared and are no longer available.



Dynamic Dashboards

Note: Only admin access is supported at this time, and more features will be added in later releases.

Dynamic Dashboards provide a faster, customizable experience, allowing administrators quick access to the information that is most important to them.

To access **Your Dashboards**, click **Menu > Dashboard (Preview)**. A list of available dashboards displays on the left. BeyondInsight comes with several prebuilt dashboard cards, including:

- Default Dashboard
- Health
- Password Safe
- Password Safe Cloud
- Password Safe Session
- System Activity



Note: The list of system-generated dashboards displayed can change depending on licensing, as well as data available in the system, and configuration settings. This also affects what tiles are shown in the **Add a tile** dropdown list.

Each dashboard card comes with preset tiles, which display information for that particular feature. Icons allow you to control the tile:

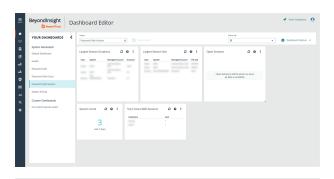
Click to refresh information displayed.



Click to delete the tile. You can always add the tile later if needed.

Use Dashboard Options to:

- **Create New:** Create a new empty dashboard, then add the tiles you want.
- Duplicate: Create a copy of the dashboard that can be modified.
- Delete: Delete the selected dashboard.
- Set as Default: Set the current dashboard as the default so it displays every time you click Menu > Dashboards.





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Customize a Dashboard

You can customize a dashboard to display the information that is important to you. Tiles can be deleted, added, moved, and resized to allow you a personalized and more efficient experience.

- To create a custom dashboard, select one of the available dashboard cards. In this example we use the **Password Safe** card. If necessary, delete any of the existing tiles that come installed with that card.
- 2. From the **Add a tile** dropdown, select the tiles you want to add. Resize and reposition tiles in a manner that makes sense to you.
- 3. Next, under Name, give the layout a name so you can identify it.
- 4. Click **Save Layout**. Your custom layout now appears on the lower left side of the window, under **Custom Dashboards**.
- 5. If you want to make this your default layout so it opens every time you select **Menu > Dashboard**, click **Dashboard Options**, and then select **Set as Default**.

Note: Setting a dashboard as default causes that dashboard to be displayed when the user logs in, or every time the user clicks on **Home**, and replaces the default dashboard.

Access Dashboard Tile Information

The information displayed on some tiles can be used to access all relevant data associated with it. In this example, by clicking on the **2** in the **Failed Logins Last 7 days** tile, you are taken directly to the **User Audits** page, where you can get full details on the 2 failed logins. The grid is automatically filtered to show login failures for the last 7 days.

argest	t Session Dura	ations 2	0 i	Largest Session Size	Password Safe Session (30 Days)	ssions 🛛 🗢
User	System	Managed Account	Duration	User System	Largest Session Durations	
-					Largest Session Size	
					Open Sessions)pen Sessions will be shown as soor
		1000			Session Count	as data is available.

Da	ashboard Editor		MOVU	BeyondInsight	Configurati	on
¢	Name System Activity Assets Updated 2 0 i	o 🖹 Save Layout	• •	USER AUDITS Create Date filter Last 7 days	Section Cogin Failure	τ De Filter by
	2 Last 7 days	2 Last 7 days	\$ B 4 4	2 iteens Created Jun 21, 2023, 3:18 PM	Action Legin	Section Logn Failure
	Most Active Location	Most Active Browsers Browser Creme water, 1540 Eredex water, 1540 Redex water, 1540 Ven Al	9 8 9 9	Jun 15, 2023, 4-48 PM	Login	Login Failure
	Activity By Day	_	.स ९ Ө	H 4 Page 1 of 1	Þ. H.	25

Change and Reset Console Login Passwords

Change Password and Two-Factor Authentication Settings

Users can maintain the security and control of their account and protect it against unauthorized access. If you are logging in with a BeyondInsight local user account, you can change your password and two-factor authentication app from the **Account Settings** page. You cannot change your password if you are logging in with Active Directory or LDAP credentials, or if your account is locked out.

- 1. In the console, click the **Profile and preferences** icon in the topright corner.
- 2. Click Account Settings.

Account Settings		•	Log Out	0
Preferences				
Theme				
BeyondTrust Brand Colors	•			
Language				
English (United States)	•			

3. Update your password, and then click Change Password.

BeyondInsight Account S	Settings
MY ACCOUNT	Change Password
Change Password	Your new password must be at least 14 characters long.
Two-Factor Authentication	Case SHOW This field is required. New Password
	Confirm New Password
	CHANGE PASSWORD

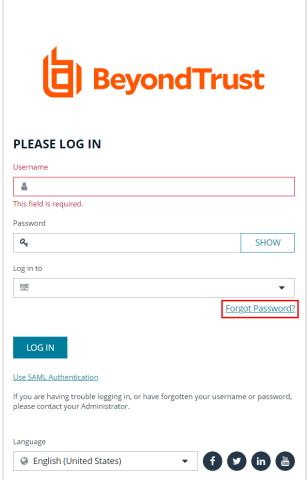
- If your account has two-factor authentication enabled and registered with a device, you can update the authenticator app as follows:
 - Select Two-Factor Authentication from the My Account pane.
 - Click Replace Authenticator App.
 - Click Reconfigure Authenticator App to register a new authenticator app.

BeyondInsight BeyondTrust	unt Settings
MY ACCOUNT	Two-Factor Authentication
Change Password	Two-Factor Authentication is currently active.
Two-Factor Authentication	REPLACE AUTHENTICATOR APP

Reset Password

If you forget your console password, you can reset it as follows:

1. Click the Forgot Password link.



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2. Enter your username, and then click **Reset Password**. An email containing a reset link is sent to the address associated with your username.

ESET PASSWORD	
sername	
å	
nis field is required.	
RESET PASSWORD CANCEL	
assword reset instructions will be sent to the email address associated with the sername. If you have forgotten your username please contact your Administrat	or.
anguage	
Senglish (United States)	

3. Click the link in the email to be taken to the Enter New Password page, where you can change your password.

Note: Resetting the console password is not available to users logging in with Active Directory or LDAP credentials.

Change and Set the Console Display Preferences

You can change the information displayed on BeyondInsight pages, including the columns, filters, grid size, and logos.

Set Display Preferences

You can set display preferences on grids and pages throughout your BeyondInsight instance.

Note: You can display domains and filter by domains. If the domain name is not known or the asset is not part of a domain, the field is blank. By default, the **Domain** filter is not displayed.

- 1. Select an area of the site, such as Assets.
- 2. Above the grid, the following options and icons are available:
 - Refresh: Updates the displayed information with recent changes.
 - Download: Downloads the displayed information as a CSV file.
 - Columns Chooser: Select the columns to change the column headings and information displayed in the grid.
 - Grid Configuration: Choose the grid layout: Compact, Default, or Expanded.
 - Expand Grid: Enlarge the display area. When selected, the icon changes. It can be clicked again to Collapse Grid.

Note: Some options are not applicable to some grids, so fewer icons may display on those grids.

- 3. An option to change the number of displayed Items per page is located below the grid.
- 4. The changes appear dynamically as they are selected.

Filter Records

Create a filter to match records you want to view on a page.

- 1. Select an area of the site, such as Assets.
- Above the grid, there are options for filtering. The filter options available vary based on the page or grid selected. However, some common filtering options include:
 - **Smart Group filter:** Select to filter information by Smart Group association.
 - Last Updated filter: Select to filter by a specific period or a custom date range.
 - Filter by: Choose to filter the information by Domain, Operating System, Workgroup, etc., or other details specific to the information displayed. For each filter selected, enter the content you want to search for in the filter box's text field.
- 3. Apply as many filters as desired.
- 4. The information dynamically changes to match the selections.
- 5. Filter selections persist if the page is reloaded. To remove a filter, click the **X** on the filter.

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- 6. To select all records listed on all grid pages, check one box in the grid and press Ctrl+A.
- 7. To deselect all records listed on all grid pages, press Ctrl+Shift+A.

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Role Based Access

BeyondInsight offers a role-based delegation model so that you can explicitly assign permissions to groups on specific product features based on their role. Users are provisioned based on the permissions of their assigned groups.

You can create BeyondInsight local groups, or you can use existing Active Directory, Entra ID, or LDAP groups.

Note: By default, an **Administrators** user group is created. The permissions assigned to the group cannot be changed. The user account you created when you configured BeyondInsight is a member of the group.

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Create and Edit Directory Credentials

A directory credential is required for querying Active Directory (AD), Entra ID, and LDAP. It is also required for adding AD, Entra ID, and LDAP groups and users in BeyondInsight. Follow the steps below for creating each type of directory credential.

Note: Before you can create an Entra ID credential, you must first register and configure permissions for an application in the Entra ID tenant where the user credentials reside. For more information, please see <u>Register and Configure an Application in</u> <u>Entra ID at https://www.beyondtrust.com/docs/beyondinsight-password-safe/bi/authentication/entra-id-app-registration.htm.</u>

To create a directory credential in BeyondInsight:

- 1. Navigate to Configuration > Role Based Access > Directory Credentials.
- 2. Click Create New Directory Credential.
- 3. Follow the steps in the applicable section below, based on the type of directory you are creating.

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Create an Active Directory Credential

- 1. Select Active Directory for the Directory Type.
- 2. Provide a name for the credential.
- 3. Enter the name of the domain where the directory and user credentials reside.
- 4. Enable the **Use SSL** option to use a secure connection when accessing the directory.

Note: If **Use SSL** is enabled, SSL authentication must also be enabled in the BeyondInsight configuration tool.

- 4. Enter the credentials for the account that has permissions to query the directory.
- 5. Enable the **Use Group Resolution** option to use this credential for resolving groups from the directory.

Note: Only one credential can be set for group resolution per domain or server.

- 6. Click **Test Credential** to ensure the credential can successfully authenticate with the domain or domain controller before saving the credential.
- 7. Click Create Credential.

New Directory Credential	>
Directory Type	
Active Directory	
O LDAP	
O Microsoft Entra ID	
Title	
Domain	
Use SSL	
Username	
Password Password	
	Show
Confirm Password	
	Show
Use Group Resolution (optional)	0
Test Credential	
Create Credential Discard	

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Create an LDAP Credential

- 1. Select LDAP for the Directory Type.
- 2. Provide a name for the credential.
- 3. Enter the name of the LDAP server where the directory and user credentials reside.
- 4. Enable the **Use SSL** option to use a secure connection when accessing the directory.

Note: If *Use SSL* is enabled, SSL authentication must also be enabled in the BeyondInsight configuration tool.

- 5. Enter the credentials for the account that has permissions to query the directory.
- 6. Enable the **Use Group Resolution** option to use this credential for resolving groups from the directory.

Note: Only one credential can be set for group resolution per LDAP server.

- 7. Click **Test Credential** to ensure the credential can successfully authenticate with the domain or domain controller before saving the credential.
- 8. Click Create Credential.

New Directory Credential	>
Directory Type	
O Active Directory	
O LDAP	
O Microsoft Entra ID	
Title	
LDAP Server	
Port	
389	
Use SSL	
Deserved	
Password Bind DN	
Password	
	Show
Confirm Password	
	Show
Use Group Resolution (optiona	l) 🕜
Test Credential	
Create Credential Discard	

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Create an Entra ID Credential

- 1. Select Microsoft Entra ID for the Directory Type.
- 2. Provide a name for the credential.
- 3. Paste the **Client ID**, **Tenant ID**, and **Client Secret** that you copied when registering the application in your Entra ID tenant.
- 4. Enable the **Use Group Resolution** option to use this credential for resolving groups from the directory.

Note: Only one credential is supported per Entra ID tenant.

- 5. Click **Test Credential** to ensure the credential can successfully authenticate with the domain or domain controller before saving the credential.
- 6. Click Save Credential.

New Directory Credential	>
Directory Type	
O Active Directory	
O LDAP	
O Microsoft Entra ID	
Title	
Client ID	
Tenant ID	
Client Secret	
	Show
Use Group Resolution (optional) 🔞	
Test Credential	
Create Credential Discard	

Edit a Directory Credential

1. From the Directory Credentials grid, click the vertical ellipsis for the credential, and then select Edit.



2. Make the changes required.

Note: For AD or LDAP credentials, if you change the **Domain** or **LDAP Server**, enable or disable the **Use SSL** option, or update the **Username** or **Bind DN**, you must change the password. Click **Change Password** to display fields to enter and confirm the new password.

- Click Test Credential to ensure the edited credential can successfully authenticate with the domain or domain controller before saving the credential.
- 4. Click Save Credential.

Edit Directory Credential	>
Credentials	
Title	
Active Directory	0
Domain	
traffic field	0
Use SSL	
Username	
administrator	0
CHANGE PASSWORD	
Use Group Resolution (Optional) 🔞	
TEST CREDENTIAL	
UPDATE CREDENTIAL DISCARD CHANGES	

Note: To use Entra ID credentials for logging into BeyondInsight, the accounts must use SAML authentication. For more information on configuring Entra ID SAML with BeyondInsight, please see <u>Configure Microsoft Entra ID SAML with</u> <u>BeyondInsight SAML</u> at <u>https://www.beyondtrust.com/docs/beyondinsight-password-safe/bi/authentication/security-provider.htm#configure-entra-id</u>.

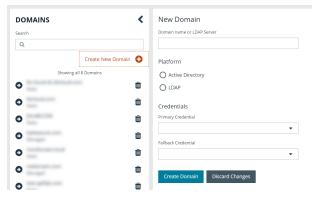
Map Directory Credentials to a Domain

Domain management allows you to map a default primary directory credential and an optional fallback credential as preferred binding credentials used for account resolution against domains in your environment when logging in to BeyondInsight.

Note: If credentials are not mapped, or both mapped credentials fail, BeyondInsight attempts login following the legacy process of not using mapped credentials.

Follow these steps to add or edit primary and secondary credentials for a domain:

- 1. Navigate to Configuration > Role Based Access > Domain Management.
- 2. Click Create New Domain to create a new one.
- 3. Provide the name of the domain or LDAP server.
- 4. Select the type of platform.
- 5. Select a **Primary Credential** from the dropdown.
- 6. Select a Fallback Credential from the dropdown.
- 7. Click Create Domain.



8. To edit credentials for an existing domain, select the domain from the left pane, make your edits, and then click Save Domain.

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Tip: Primary and fallback credentials can include Password Safe managed accounts.

When domain management is configured for a domain and user selects the domain when logging into BeyondInsight, the specified primary and fallback credentials are used to resolve their account. The credentials used for authentication are shown in the **Login Details** for the specific login activity on the **Configuration > General > User Audits** page.

BeyondInsight	Configura							6
USER AUDITS						Login Details		>
Create Date filter	Filter by					UserName	-	
Last 30 days	* T				*		Trefax version: 93.0	
				C 🛎 🗆	• 0	Mapped Credential Mapped Credential Id		
R34 items (1 selected)						Mapped Credential Id		
						Description Mapped Credential		
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0 et 21, 2021, 5:37 PM	Logout	Lagour			0	Mapped Credential Domain/Server		
Oct 21, 2021, 5-22 PM	Login.	Lago			0	Mapped Credendal I		
Oct 21, 2021, 5-20 PM	AN	Domain Management			0	Mapped Credential Id	19	
0m21.2021.5/11 PM	Sec.	Configure			0	Description		
Oct 21, 2021, 5-11 PM	641	Conferm			0	Mapped Credential A Referen	ActiveDirectory	
Ovi 21, 2021, 5-11 PM	141	Conteurs			0	Mapped Credential Domain/Server		
Ger 21, 2021, 5-11 PM	141	Configure			0	Authenticate Oridential M	0	
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	600				-	Automation		
Gal 21, 2021, 5:11 PM		Configure			0	Gredential Description		
Ow 21, 2021, 5-11 PM	6.de	Configure			0	Automicane A Credenial Parform	AdiveDirectory	
0 et 21, 2021, 511 PM	64t	Configure			0	Automation Type	Active Directory	
Oct 21, 2021, 5:11 PM	Gat.	Configure	 		0	Domain Name		
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Om 21, 2021, 511 PM	Edit.	Configure			0	Group		

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Create and Configure Groups

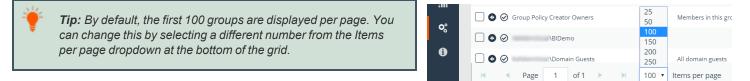
Create user groups and user accounts so that your BeyondInsight administrators can log in to BeyondInsight.

When a user is added to a group, the user is assigned the permissions assigned to the group.

You can create BeyondInsight local groups, as well as add Active Directory, Microsoft Entra ID, and LDAP groups into BeyondInsight.

	USER MAI	NAGEME	NT 😧			
	Groups	Users				
	Filter by					
	T					
	🔒 Create N	lew Group		2 +	Û	
::: :	Create a New (Group			Users	
0	Add an Active	Directory Gr	oup		9	
٥	Add a Microso	ft Entra ID G	roup		7	
* **	Add an LDAP (Group			2	

You can filter the groups displayed in the grid by type of group, name of the group, group description, and the date the group was last synchronized.



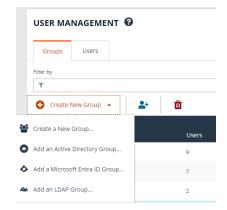
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Create a BeyondInsight Local Group

To create a local group in BeyondInsight, follow the below steps:

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. From the Groups tab, click + Create New Group.



- 3. Select Create a New Group.
- 4. Enter a Group Name and Description for the group.
- 5. The group is set to **Active** by default. Check the box to deactivate it, if you prefer to activate it later.
- 6. Click Create Group.

Create Nev	w Grou	р	>
Active			
Group Name			
New Test Gro	up		0
Description			
New Test Gro	up		٢
	DUP	DISCARD	S & 0
Group Details	Users Doe Doe Users not assigned Users not assigne	Ner ty	

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- 7. Assign users to the group:
 - Under Group Details, select Users.
 - From the Show dropdown list, select Users not assigned.
 - Filter the list of users displayed in the grid by **Type**, **Username**, **Name**, **Email**, and **Domain**, if desired.
 - Select the users you wish to add to the group, and then click Assign User above the grid.

Note: By default, new groups are not assigned any permissions. You must assign permissions on features and Smart Groups after creating a new group. For more information on permissions and how to assign them, please see "Assign Group Permissions" on page 40.

Note: When a local user logs in to BeyondInsight for the first time using SAML authentication, BeyondInsight provisions their account by mapping it to the groups assigned to their account.

For releases prior to 21.3, and for upgrades to the 21.3 release, if the user account's group membership has changed (in the SAML claims provided) upon subsequent logins, BeyondInsight does not deprovision the user by removing them from the groups that were initially mapped to their account. Instead, BeyondInsight maps the user to any newly assigned groups, in addition to the groups their account is already mapped to.

You can configure BeyondInsight to synchronize group membership each time a local user logs in using SAML, as follows:

- 1. Navigate to Configuration > Authentication Management > Authentication Options.
- 2. Under SAML Logon for Local Users, toggle the Enable Group Resync option to enable it.

For new installs of release 21.3 and later releases, this option is enabled by default.

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Add an Active Directory Group

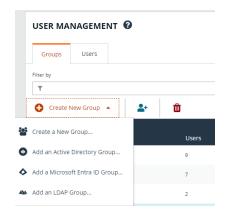
Active Directory (AD) group members can log in to the management console and perform tasks based on the permissions assigned to the group. The group can authenticate against either a domain or domain controller. Upon logging into BeyondInsight, users can select a domain from the **Log in to** list on the **Login** page.

Tip: The **Log** *in* **to** list is only displayed on the **Login** page when there are either AD or LDAP user groups created in the BeyondInsight console. The **Log** *in* **to** list is displayed by default, but may be disabled / enabled by an admin user by toggling the **Show list of domains/LDAP servers on login page** setting from **Configuration > System > Site Options** page.

Note: AD users must log in to the management console at least once to receive email notifications.

Create an Active Directory Group in BeyondInsight, as follows:

- 1. Navigate to **Configuration > Role Based Access > User Management**.
- 2. From the Groups tab, click + Create New Group.



- 3. Select Add an Active Directory Group.
- 4. Select a credential from the list.

Note: If you require a new credential, click **Create New Credential** to create one. The new credential is added to the list of available credentials.

- 5. If the **Domain** field is not automatically populated, enter the name of a domain or domain controller.
- After you enter the domain or domain controller credential information, click Search Active Directory. A list of security groups in the selected domain is displayed.

Active Directory Grou	ıp Search 💙
Credential	
The second second	······
	Create New Credential
Domain	
	٥
Filter by Group Name	
*	٢
Search Active Directory	Cancel

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Note: The default filter is an asterisk (*), which is a wild card filter that returns all groups. For performance reasons, a maximum of 250 groups from Active Directory is retrieved.

7. Set a filter on the groups to refine the list, and then click Search Active Directory.

Example: Sample filters:

- a* returns all group names that start with "a"
- *d returns all group names that end with "d"
- *sql* returns all groups that contain "sql" in the name
- 8. Select a group, and then click Add Group.

Active Directory Grou	ıp Search
Credential	
	•
	Create New Credential
Domain	
	0
Filter by Group Name	
*	0
SEARCH ACTIVE DIRECTORY Search Results	
✓ testgroup934	^
testgroup713	
ADD GROUP CANCEL	

9. The group is added and set to **Active** but not provisioned or synchronized with AD. Synchronization with AD to retrieve users begins immediately.

10. Once the group has been synced with AD, you can view the users assigned to the group by selecting **Users** from the **Group Details** pane.



Tip: Use the filters above the grid to narrow down the list of users displayed in the grid by *Type*, *Username*, *Name*, *Email*, or *Domain*, or to show users not assigned to the group.

02, 2019, 4:41 PM)			
< Users O			
Show	Filter by		
Assigned users •	т		
			0
7 items (0 selected)			
Username Name	Email	Domain	
		100000000000000000000000000000000000000	
		10000000	
		10000-000	
		1000000	
	 Users • Pen Antiperatores Terms () selected; Ocananta Name Ocananta Ocan	 Users 0 Sou For by Test y Transformed users • Test y Test y 	 Users ● Terms for the formation of the formatio

Note: By default, new groups are not assigned any permissions. You must assign permissions on features and smart groups after creating a new group. For more information on permissions and how to assign them, please see <u>"Assign Group</u> Permissions" on page 40.

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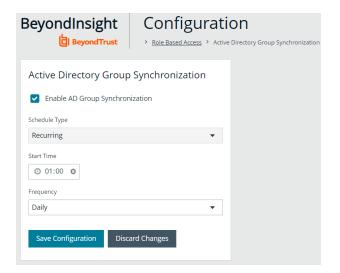
For more information on creating and editing directory credentials, please see <u>"Create and Edit Directory Credentials" on page</u> 21.

Configure Active Directory Group Synchronization

Create and enable a recurring schedule for AD groups to automatically synchronize at a specified time and frequency. This ensures your AD groups are up to date with the latest users added to that group in Active Directory. This schedule applies globally to all AD groups in your BeyondInsight instance; however, the global schedule can be overridden at the group level and a group can be configured to be excluded from the synchronization process.

To enable Active Directory Group Synchronization:

- 1. Navigate to Configuration > Role Based Access > Active Directory Group Synchronization.
- 2. Check the Enable AD Group Synchronization option.
- 3. Specify a Start Time.
- 4. Select your desired frequency of Daily, Weekly, or Monthly.
- 5. Click Save Configuration.



For more information on overriding the global AD synchronization schedule and excluding a group from the synchronization process, please see "Edit Basic Group Details" on page 46.

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Add an Entra ID Group

Entra ID group members can log in to the management console using SAML authentication and perform tasks based on the permissions assigned to the group. Upon logging into BeyondInsight, users can select a domain from the **Log in to** list on the **Login** page.

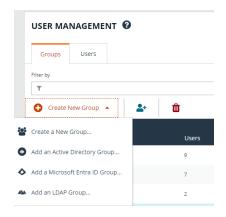
Tip: The **Log** *in* **to** list is only displayed on the **Log***in* page when there are either AD or LDAP user groups created in the BeyondInsight console. The **Log** *in* **to** list is displayed by default, but may be disabled / enabled by an admin user by toggling the **Show list of domains/LDAP servers on login page** setting from **Configuration > System > Site Options** page.

Note: AD users must log in to the management console at least once to receive email notifications.

Direct Connect does not support using SAML as an authentication method. Therefore, Direct Connect is not available with Entra ID accounts.

Create an Entra ID Group in BeyondInsight, as follows:

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. From the Groups tab, click + Create New Group.



- 3. Select Add a Microsoft Entra ID Group.
- 4. Select a credential from the list.

Note: If you require a new credential, click **Create a New Credential** to create a new credential. The new credential is added to the list of available credentials.

5. Click Search Microsoft Entra ID. A list of security groups displays.

Microsoft Entra ID Group Search	>
Credential	
	•
Create New Cred	<u>lential</u>
*	۲
Search Microsoft Entra ID Cancel	

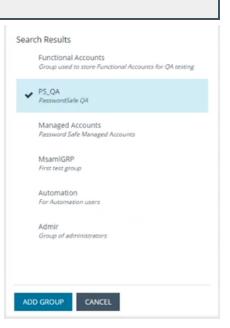
*

Note: For performance reasons, a maximum of 250 groups from Entra ID is retrieved. The default filter is an asterisk (*), which is a wildcard filter that returns all groups. Use the group filter to refine the list.

6. Set a filter on the groups that are to be retrieved, and then click Search Microsoft Entra ID.

Example: Sample filters:

- *a** returns all group names that start with a.
- *d returns all group names that end with d.
- *sql* returns all groups that contain sql in the name.
- 7. Select a group, and then click Add Group.



- 8. The group is added and set to **Active** but not provisioned or synchronized with Entra ID. Synchronization with Entra ID to retrieve users begins immediately.
- 9. Once the group has been synced with Entra ID, you can view the users assigned to the group, as well as unassigned users, by selecting **Users** from the **Group Details** section and then using the filters.

Group Details	<	Users O				
Details & Attributes		Show Assigned users	-	Filter by		
Features (1)						٥
Smart Groups (1)		2 Items (0 selecte	50)			
Users (2)		Username	Name	Email	Domain	
API Registrations			a tarbar and tar			
Permigrationalia			- Test 1999		10100-0000-000	

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Note: By default, new groups are not assigned any permissions. You must assign permissions on features and Smart Groups after creating a new group. For more information on permissions and how to assign them, please see <u>"Assign Group</u> Permissions" on page 40.

Note: To use Entra ID credentials for logging into BeyondInsight, the accounts must use SAML authentication. For more information on configuring Entra ID SAML with BeyondInsight, please see Configure Microsoft Entra ID SAML with BeyondInsight SAML at https://www.beyondtrust.com/docs/beyondinsight-password-safe/bi/authentication/securityprovider.htm#configure-entra-id.

For more information on creating and editing directory credentials, please see "Create and Edit Directory Credentials" on page 21.

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Add an LDAP Group

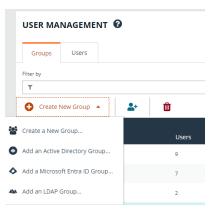
LDAP group members can log in to the BeyondInsight console and perform tasks based on the permissions assigned to the group. The group can authenticate against either a domain or domain controller. Upon logging in to BeyondInsight, users can select a domain or LDAP server from the **Log in to** list on the **Login** page.

Tip: The **Log** *in* **to** list is only displayed on the **Login** page when there are either AD or LDAP user groups created in the BeyondInsight console. The **Log** *in* **to** list is displayed by default, but may be disabled / enabled by an admin user by toggling the **Show list of domains/LDAP servers on login page** setting from **Configuration > System > Site Options** page.

Note: LDAP users must log in to the BeyondInsight console at least once to receive email notifications.

Create an LDAP Group in BeyondInsight, as follows:

- 1. Navigate to **Configuration > Role Based Access > User Management**.
- 2. From the Groups tab, click + Create New Group.



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3. Select Add an LDAP Group from the list.

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4. Select a credential from the list.

Note: If you require a new credential, click **Create a New Credential** to create a new one. The new credential is added to the list of available credentials.

LDAP Group Search		>
Credential		
LDAP Cred		•
	Create Ne	w Credential
Server		
Base DN		
	•	Fetch
Filter by Group Name		
*		
L		
Search LDAP Cancel		

- 5. Enter the name or IP address for the LDAP server.
- 6. Click Fetch to load the list of Base DNs.
- If the Base DN list does not populate, manually enter the details and click Add as New Option to populate the list.

LDAP Group Search		>
Credential		
LDAP Cred		•
	Create New	w Credential
Server		
Base DN		
DC=examplelab, DC=local		Fetch
Add As New Option		
No options found.		
Search LDAP Cancel		

- 8. Select the Base DN.
- 9. To filter the group search, enter keywords in the group filter or use a wild card.

10. Click Search LDAP.

Example: Sample filters:

- a* returns all group names that start with a.
- *d returns all group names that end with d.
- *sql* returns all groups that contain sql in the name.
- 11. Select a group, and then click Continue to Add Group.

LDAP Group Search		>
Credential		
LDAP Cred	•	
	Create New Credentia	al
Server		
Base DN		
	▼ Fetch	
Filter by Group Name		
miners		
Search LDAP		
Search Results		
✓ miners		
Continue To Add Group	Cancel	
continue to Add Group	Cancer	

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- 12. Select the Group Membership Attribute and Account Naming Attribute.
- 13. Enter a Base Distinguished Name, if not automatically populated.
- 14. Click Add Group.

LDAP Group Search	>
Active	
Name miners	
Description 	
Group Membership attribute	
memberUid	•
Account Naming attribute	
uid	•
Base Distinguished Name	
dc=,dc=local	٥
Add Group Cancel	

- 15. The group is added and set to **Active** but is not provisioned or synchronized with LDAP. Synchronization with LDAP to retrieve users begins immediately.
- 16. Once the group has been synced with LDAP, you can view the users assigned to the group, as well as unassigned users, by selecting **Users** from the **Group Details** section, and then using the filters.

Has 12 users		2 🕑 🖿
	rovisioned (last synced on Aug 24, 2021, 8:21 PM)	
Group Details	✓ Users ●	
Details & Attributes	Show Filter by	
	Assigned users	•
Features		• :
Smart Groups	12 Items (0 selected)	
Users (12)	Usemame Name Email Domain	
API Registrations		
	Au	
	0 44 bit of the second second second	

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Note: By default, new groups are not assigned any permissions. You must assign permissions on features and smart groups after creating a new group. For more information on permissions and how to assign them, please see <u>"Assign Group</u> <u>Permissions" on page 40</u>.

For more information on creating and editing directory credentials, please see "Create and Edit Directory Credentials" on page 21.

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Assign Group Permissions

The following permissions may be assigned to user groups in BeyondInsight for each feature and Smart Group.

Permission	Description
No Access	Users cannot access the selected feature or Smart Group. In most cases, the feature is not visible to the users.
Read Only	Users can view selected areas, but cannot change information.
Full Control	Users can view and change information for the selected feature.

Permissions for a BeyondInsight user must be assigned cumulatively and at the group level. You must assign permissions on features and Smart Groups after creating a new group in order for users in that group to be able to access features in the product. For example, if you want a BeyondInsight administrator to manage discovery scans only, then you must assign full control for the following features:

- Management Console Access
- Asset Management
- Reports Management
- Scan Job Management
- Scan Management

Note: In addition to the group permissions noted, for the group to be provisioned, there must be at least one enabled Smart Group for the group. This sets the scope for the features.

Assign Features Permissions

Note: The features listed are based upon your BeyondInsight license. Only features relevant to your licensed installation are listed.

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. From the Groups tab, click the vertical ellipsis for the group.
- 3. Select View Group Details.
- 4. Under Group Details, click Features.
- 5. Filter the list of features displayed in the grid using the Show and Filter by dropdowns.
- 6. Select the features you wish to assign permissions to.
- 7. Click **Assign Permissions** above the grid.
- 8. Select Assign Permissions Read Only, Assign Permissions Full Control, or Disable Permissions.

The following table provides information on the features permissions you can assign to your groups.

Feature	Provides Permissions To:
Analytics & Reporting	Log in to the console and access Analytics & Reporting to generate and subscribe to reports.
Appliance (U-Series) Access	Grant access to manage the U-Series Appliance as a BeyondInsight user.
Asset Management	Create Smart Rules.
	Edit and delete buttons on the Asset Details window.
	Create Active Directory queries.
	Create address groups.
Attribute Management	Add, rename, and delete attributes when managing user groups.
Credential Management	Add and change credentials when running scans and deploying policies.
Directory Credential Management	Grant access to the configuration area where directory credentials are managed. This feature must be enabled to support access to directory queries as well.
Directory Query Management	Grant access to the configuration area where directory queries are managed.
	Note: Access to Directory Credential Management must also be granted.
Domain Management	Grants the user permission to configure mappings of bind credentials to domains for account resolution.
Endpoint Privilege Management	Grant access to the Endpoint Privilege Management features, excluding Policy Editor and Reporting.
Endpoint Privilege Management Policy Editor	Grant access to the Endpoint Privilege Management Policy Editor feature.
Endpoint Privilege Management Reporting	Grant access to the Endpoint Privilege Management Reporting feature.
Endpoint Privilege Management for Unix & Linux	Grant access to the Endpoint Privilege Management for Unix & Linux features.
File Integrity Monitoring	Work with File Integrity rules.

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Feature	Provides Permissions To:
License Reporting	View the Licensing folder in Analytics & Reporting (MSP reports, Endpoint Privilege Management for Windows, Endpoint Privilege Management for Mac true-up reports, and Assets Scanned report).
Management Console Access	Access the BeyondInsight management console.
Manual Range Entry	Allow the user to manually enter ranges for scans and deployments rather than being restricted to smart groups. The specified ranges must be within the selected smart group.
Option Management	Change the application options settings (for example, account lockout and account password settings).
Options - Connectors	Access the configuration area where connectors are managed.
Options - Scan Options	Access the configuration area where scan options are managed.
Password Safe Account Management	Grant read or write permissions to the following features on the Managed Accounts page and through the public API:
	Bulk delete accounts
	Add accounts to a Quick Group
	Remove accounts from a Quick Group
	Add, edit, and delete accounts
Password Safe Admin Session	Password Safe web portal admin sessions.
Password Safe Admin Session Reviewer	Grant a user admin session reviewer permissions only.
Password Safe Global API Quarantine	Access to the Quarantine APIs.
Password Safe Bulk Password Change	Change more than one password at a time.
Password Safe Agent Management	Grant a user administrator permissions to the Configuration > Privileged Access Management Agents page.
Password Safe Configuration Management	Grant a user administrator permissions to the Configuration > Privileged Access Management page.
Password Safe Domain Management	Check the Read and Write boxes to permit users to manage domains.
Password Safe Policy Management	Grant a user administrator permissions to the Configuration > Privileged Access Management Policies page.
Password Safe Role Management	Allows a user to manage roles, provided they have the following permissions: Password Safe Role Management and User Account Management .
Password Safe System Management	Read and write managed systems through the public API.
Password Safe Ticket System Management	This feature is not presently used.
Reports Management	Run scans, create reports, and create report categories.
Scan - Job Management	Activate Scan and Start Scan buttons.
	Activate Abort, Resume, Pause, and Delete on the Job Details page.

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Feature	Provides Permissions To:
Scan - Report Delivery	Allow a user to set report delivery options when running a scan:
	Export TypeNotify when complete
	Email report to
	Include scan metrics in email (only available for All Audits Scan)
Scan Management	Delete, edit, duplicate, and rename reports on the Manage Report Templates page.
	Activate New Report and New Report Category.
	Activate the Update button on the Edit Scan Settings view.
Secrets Safe	Provides access to Secrets Safe for all members of the selected group.
Session Monitoring	Use the session monitoring features.
Smart Rule Management – Asset	Grants permission to view, create, and edit asset Smart Rules; editing is limited to Smart Rules that are enabled for groups the user is a member of.
	Note: Newly created Smart Rules created by a non-administrator are automatically enabled with full permissions for all groups where the user is a member. For more information, see <u>"Use Smart Rules to Organize Assets" on page 70</u> .
Smart Rule Management – Managed Account	Grants permission to view, create, and edit managed account Smart Rules; editing is limited to smart rules that are enabled for groups the user is a member of.
	Note: Newly created Smart Rules created by a non-administrator are automatically enabled with full permissions for all groups where the user is a member. For more information, see <u>"Use Smart Rules to Organize Assets" on page 70</u> .
Smart Rule Management – Managed System	Grants permission to view, create, and edit managed system Smart Rules; editing is limited to smart rules that are enabled for groups the user is a member of.
	Note: Newly created Smart Rules created by a non-administrator are automatically enabled with full permissions for all groups where the user is a member. For more information, see <u>"Use Smart Rules to Organize Assets" on page 70</u> .
Smart Rule Management – Policy User	Grants permission to view, create, and edit policy user Smart Rules; editing is limited to smart rules that are enabled for groups the user is a member of.
	Note: Newly created Smart Rules created by a non-administrator are automatically enabled with full permissions for all groups where the user is a member. For more information, see <u>"Use Smart Rules to Organize Assets" on page 70</u> .
Ticket System	View and use the ticket system.
Ticket System Management	Mark a ticket as inactive. The ticket no longer exists when Inactive is selected.

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Feature	Provides Permissions To:
User Accounts Management	Add, delete, or change user groups and user accounts.
	A minimum of read access to Directory Credential Management must also be granted to enable creation of AD and LDAP Groups.
User Audits	View audit details for management console users on the User Audits page.
U-Series Appliance Administrator	Provides access to manage all aspects of the U-Series Appliance.
U-Series Appliance Backups	Provides access to manage the Backup and Restore options of the U-Series Appliance.
U-Series Appliance High Availability	Provides access to manage the High Availability features of the U-Series Appliance.
U-Series Appliance Login	Provides access to manage the U-Series Appliance as a BeyondInsight user.
U-Series Appliance Manage RDP	Provides access to manage Remote Desktop Protocol to the U-Series Appliance.
U-Series Appliance Patching	Provides access to manage updates to the U-Series Appliance.

1 For more information, please see the Managed Accounts section in the <u>BeyondInsight and Password Safe API Guide</u> at https://www.beyondtrust.com/docs/beyondinsight-password-safe/ps/api/password-safe/managed-accounts.htm.

Features Permissions Required for Configuration Options

Configuration Option	Feature and Permission
Active Directory Queries	Asset Management - Full Control.
Address Groups	Asset Management - Full Control.
Attributes	Asset Management - Full Control.
Connectors	Asset Management and Management Console Access - Full Control.
Password Safe Connections	Member of the Built-In Administrators group.
Endpoint Privilege Management Module	Management Console Access and Endpoint Privilege Management - Full Control.
Scan Options	Scan Management - Full Control.
Services	Member of the Built-In Administrators group.
User Audits	User Audits - Full Control.
User Management	Everyone can access. Users without the Full Control permission to User Account Management feature can edit only their
Workgroups	user record. User Accounts Management - Full Control.

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Assign Smart Groups Permissions

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. From the Groups tab, click the vertical ellipsis for the group.
- 3. Select View Group Details.
- 4. Under Group Details, select Smart Groups.
- 5. Filter the list of Smart Groups displayed in the grid using the Show and Filter by dropdowns.
- 6. Select the Smart Groups you wish to assign permissions to.
- 7. Click Assign Permissions above the grid.
- 8. Select Assign Permissions Read Only, Assign Permissions Full Control, or Disable Permissions.

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Edit and Delete Groups

The below sections detail how to make basic edits to the settings and options of BeyondInsight local groups, Active Directory groups, Entra ID groups, and LDAP groups using the **Edit Group** functionality, as well as how to update more advanced group details such as assigning permissions, updating group members, and managing API registrations.

Edit Basic Group Details

Administrators can edit the following basic details for groups in BeyondInsight:

BeyondInsight Local Groups

- · For BeyondInsight local groups, administrators can update the following:
 - Deactivate or activate a group by enabling or disabling the Active status.
 - Modify the Group Name.
 - Modify the **Description**.

Active Directory Groups

For Active Directory groups, administrators can update the following:

- Deactivate or activate a group by enabling or disabling the Active status.
- Change the credential used to query the group in Active Directory.
- Select a new domain or domain controller used for accessing the group in Active Directory.
- Enable or disable the option to propagate domain changes to all members of the group.
- Select Sync Schedule Options to control how the user accounts in this group are automatically synchronized on a periodic schedule. The following options are available:
 - **Global**: This is the default setting which uses the schedule settings specified in the **Active Directory Group Synchronization** configuration section.
 - **Custom**: Select **Custom** to ignore the global synchronization schedule and specify a unique synchronization schedule for this group instead.
 - **No Custom or Global**: Select this option to omit this group from any automatic synchronization. The group can still be synchronized manually.

Entra ID Groups

- For Entra ID groups, administrators can update the following:
 - Deactivate or activate a group by enabling or disabling the Active status.

LDAP Groups

- For LDAP groups, administrators can update the following:
 - Deactivate or activate a group by enabling or disabling the Active status.
 - Change the credential used to query the group in LDAP.
 - Select a new Group Membership attribute from the list. The following options are available:
 - member
 - uniqueMember (default)
 - memberUID
 - Select a new Account Naming attribute from the list. The following options are available:
 - mail
 - cn
 - sAMAccountName
 - uid
 - userPrincipalName
 - Edit the Base Distinguished Name.

To edit a group in BeyondInsight:

- 1. Navigate to **Configuration > Role Based Access > User Management**.
- 2. From the Groups tab, locate the group using the available filter options above the grid and select it.
- 3. Click the vertical ellipsis for the group, and then select Edit Group.
- 4. In the Edit Group pane, update the details as required, and then click Update Group.

For more information on configuring Active Directory Group Synchronization settings, please see <u>"Configure Active Directory</u> <u>Group Synchronization" on page 32</u>.

Edit Advanced Group Details

Administrators can edit the following advanced details for groups:

- Update the group permissions for specific BeyondInsight and Password Safe features.
- · Update the group permissions for specific Smart Groups.
- Edit Password Safe roles for Smart Groups
- Add and remove users from local groups.
- Manually synchronize group users for Active Directory and LDAP groups.
- Enable and disable API Registrations for the group.

Follow these steps to access advanced details for a group:

1. Navigate to Configuration > Role Based Access > User Management.

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- 2. From the Groups tab, locate the group using the available filter options above the grid and select it.
- 3. Click the vertical ellipsis for the group, and then select View Group Details.
- 4. From the Group Details pane, you can select Features, Smart Groups, Users, and API Registrations to make updates for the group. Specific updates you can make for each of these options are detailed in the below sections.

Update Group Permissions for Features

Permissions provide the members of the group access to BeyondInsight system components and Password Safe features. Assign permissions to groups for specific features, as follows:

- 1. From the Group Details pane, click Features.
- 2. From the Features grid, select the feature.
- 3. Click Assign Permissions above the grid.
- 4. Click Assign Permissions Read Only, Assign Permissions Full Control, or Disable Permissions.

Update Group Permissions for Smart Groups

Assign permissions to groups to provide members of the group access to smart groups as follows:

- 1. From the Group Details pane, click Smart Groups.
- 2. From the **Smart Groups** grid, select the Smart Group.
- 3. Click Assign Permissions above the grid.
- 4. Click Assign Permissions Read Only, Assign Permissions Full Control, or Disable Permissions.

Edit Password Safe Roles for Smart Groups

Password Safe roles define the actions users can take when using the Password Safe web portal for password releases or access to applications. Assign Password Safe roles to groups as follows:

- 1. From the Group Details pane, click Smart Groups.
- 2. From the **Smart Groups** grid, click the vertical ellipsis for the Smart Group.
- 3. Select Edit Password Safe Roles.
- 4. Check or uncheck each role, as required.
- 5. Click Save Roles.

Add Users to Local BeyondInsight Groups

Manually add users to local groups in BeyondInsight as follows:

- 1. From the Group Details pane, click Users.
- 2. Filter the Users grid to show users not assigned.
- 3. Select the user or users, and then click Assign User above the grid.

Sync Group Users for Active Directory and LDAP Groups

To ensure your AD and LDAP groups contain the most recent group members, you can manually synchronize with AD and LDAP to retrieve the group's users. There are two methods for manually synchronizing group users, as follows:

- From the group header, above the Group Details pane, click the Sync group users icon.
- From the User Management page, click the vertical ellipsis for the group and select Sync group users.

Manage Group API Registrations

API Registrations provide a way to integrate part of the BeyondInsight and Password Safe functionality into your applications using an API key. Manage API registrations for groups as follows:

- 1. From the Group Details pane, click API Registrations.
- 2. Check or uncheck the API registrations to enable or disable them for this group or click **Select AII** to enable all of them. Changes are automatically saved.

Tip: Use the filter above the list to narrow down the list of API registrations or to quickly find a specific registration by its name. If you need to create a new API registration, click the **Manage API Registrations** link above the filter box to go to the **API Registrations** page where you can create a new one.

For more detailed information on features permissions, Password Safe roles, and API registrations, please see the following:

- <u>"Assign Group Permissions" on page 40</u>
- <u>Configure API Registration</u>
- Password Safe Roles

Delete a Group

Note: Groups associated with a secret or credential in Secrets Safe cannot be deleted. Users attempting this action receive the following warning:

```
    Unable to delete group, as it contains secrets which must first be 

    <u>Dismiss</u>
```

Administrators can delete groups as follows:

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. From the Groups tab, locate the group using the available filter options above the grid and select it.
- 3. Click the Delete button above the grid.
 - Alternatively, click the vertical ellipsis for the group, and then select **Delete Group**.

Create and Manage User Accounts

User accounts create the user identity that BeyondInsight uses to authenticate and authorize access to specific system resources. You can create local BeyondInsight users, as well as add Active Directory, Entra ID, and LDAP users into BeyondInsight.

You can also add application users, which are used to represent applications that interface with the public API. Application users cannot log in to the BeyondInsight console. They can only authenticate and interact with the public API.

Note: A user account must be a member of a BeyondInsight user group because permissions to features are assigned at the group level. If a user is not a member of any groups in BeyondInsight, the user cannot log in to the console, and application users cannot authenticate with the public API.

Create a BeyondInsight Local User Account

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. Click the **Users** tab to display the list of users in the grid.
- 3. Click Create New User above the grid.
- 4. Select Create a New User.

5. Provide a **First Name**, **Last Name**, **Email**, and **Username** for the new user. These fields are required.



Note: You may use an email address for the username.

6. Provide a password and confirm it.

Note: The password must meet the complexity requirements as defined by your default password policy, defined at **Configuration > Role Based Access > Password Policy**.

- 7. Optionally, enter the user's contact information.
- 8. Select an Activation Date and an Expiration Date for the user account.

Note: These dates are based on UTC time on the BeyondInsight server and are considered during the user's login attempt. The attempt fails if the user account is not yet active or if the expiration date has passed.

- 9. Check User Active to activate the user account.
- 10. Leave the Account Locked and Account Quarantined options unchecked.
- 11. Check the two Authentication Options, if applicable:
 - Override Smart Card User Principal Name: when enabled, allows a BeyondInsight user with a smart card that has a different Subject Alternative Name to log in to BeyondInsight and maps the smart card to the user.
 - **Disable Login Forms**: when enabled, disallows SAML users from using the standard BeyondInsight log in form. Check this option only if SAML is configured in your environment. Users authenticate with third party identity provider.
- 12. Select a Two-Factor Authentication method and mapping information, if applicable.
- 13. Click Create User.

Identification	
First Name	
Last Name	
Email	
Username	
New Password	
	Show
Confirm New Password	
	Show
Contact Information	
Work Phone	
Home Phone	
Mobile Phone	
User Status	
Activation Date	
₩ ©	
Expiration Date	
** •	
✔ User Active	
Account Locked	
Account Quarantined	
Authentication Options 🛛 🔞	
Override Smart Card User Prin	icipal Name
Disable Forms Login	
Two-Factor Authentication	

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14. The user is created and **User Details > Groups** is displayed. You can filter the list of groups displayed by type, name, or description. Select a group, and then click **Assign Group** above the grid.

Note: The user must belong to at least one group

15. To remove the user from a group, select **Assigned Groups** from the **Show** dropdown, and then select a group and click **Remove Group**.

Update Default Password Policy for Local Users

The default password policy defines the password complexity requirements for local BeyondInsight users. This includes the minimum and maximum length of the password and the type of characters required and permitted in the password. Update the default password policy as follows:

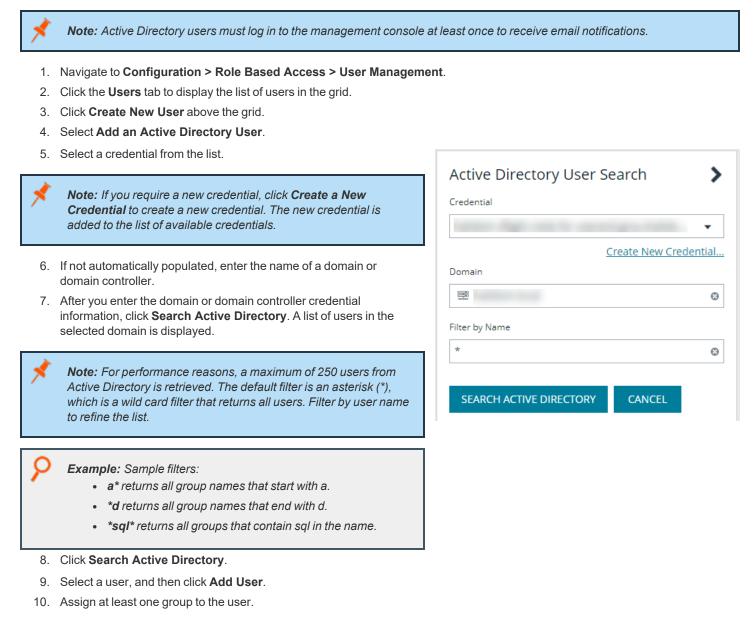
- 1. Go to Configuration > Role Based Access > Password Policy.
- 2. Enter a name for the policy and an optional description.
- 3. Set the minimum and maximum password length, and set the types of characters to be used: uppercase, lowercase, numeric, and non-alphanumeric.
- Click Update Password Policy when done. You can also discard changes or reset to default if desired.

7 characters remaining.	-
Default Password Policy	0
Description (Optional)	
Default Password Policy	0
Minimum length	
Maximum length	
Uppercase Characters	
Permit uppercase characters	
Minimum number of required uppercase characters	
Allow only the following uppercase characters	
ABCDEFGHIJKLMNOPQRSTUVWXYZ	0
Permit lowercase characters Minimum number of required lowercase characters	
Minimum number of required lowercase characters	
Minimum number of required lowercase characters	Ø
Allow only the following lowercase characters	٥
Minimum number of required lowercase characters 30 30 Allow only the following lowercase characters abcdefghijklmnopqrstuvwxyz Numeric Characters Allow only the following lowercase characters	Ø
Allow only the following lowercase characters	0
Minimum number of required lowercase characters 30 30 Allow only the following lowercase characters abcdefghijklmnopqrstuvwxyz Numeric Characters ••••••••••••••••••••••••••••••••••••	Ø
Minimum number of required lowercase characters 30 30 Allow only the following lowercase characters abcdefghijklmnopqrstuvwxyz Numeric Characters © Permit numeric characters	Ø
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Minimum number of required lowercase characters 30 30 Allow only the following lowercase characters abcdefghijklmnopqrstuvwoyz Numeric Characters © Permit numeric characters Minimum number of required numeric characters 1 1 Allow only the following numeric characters	
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Minimum number of required lowercase characters 30 30 allow only the following lowercase characters abcdefghijklmnopqrstuvwoyz Numeric Characters © Permit numeric characters 1 1 Allow only the following numeric characters 1 1 1 1 1234567890 Non-Alphanumeric Characters Image: Permit non-alphanumeric characters Image: Permit non-alphanumeric characters	

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Add an Active Directory User

Active Directory users can log in to the management console and perform tasks based on the permissions assigned to their groups. The user can authenticate against either a domain or domain controller.



Add an Entra ID User

Entra ID users can log in to the management console and perform tasks based on the permissions assigned to their groups. The user can authenticate against either a domain or domain controller.

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Note: Entra ID users must log in to the management console at least once to receive email notifications. 1. Navigate to Configuration > Role Based Access > User Management. 2. Click the Users tab to display the list of users in the grid. 3. Click Create New User above the grid. 4. Select Add a Microsoft Entra ID User. 5. Select a credential from the list. Microsoft Entra ID User Search Note: If you require a new credential, click Create a New Credential to create a new credential. The new credential is Credential added to the list of available credentials. Create New Credential... *Note:* For performance reasons, a maximum of 250 users from Filter by Name Entra ID is retrieved. The default filter is an asterisk (*), which is a wild card filter that returns all groups. Filter by user name to refine * Θ the list. Search Microsoft Entra ID Cancel Example: Sample filters: • a* returns all group names that start with a. *d returns all group names that end with d. • • *sql* returns all groups that contain sql in the name. 6. Click Search Microsoft Entra ID. 7. Select a user, and then click Add User. 8. Assign at least one group to the user.

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Change the Preferred Domain Controller for Active Directory User Accounts

The preferred domain controller for a user is set by the group they are in, provided that the group was created with the propagate option turned on, and that this action happened before the user was set up.

If you want to change the preferred domain controller for a user, edit the user, select an appropriate credential, and then select a different preferred domain controller from the list.

Note: Any future change to the preferred domain controller at the group level can overwrite this setting if the propagate switch is turned on.

Edit User	
View User Details	
First Name	
descent press	
Last Name	
Email	
Username	
warn, pric	
Account Quara	antined
Credential	
	•
	Create New Credential
Domain / Domain cont	
Any domain contro	oller Fetch
Authentication O	ptions 🕜
Override Smar	rt Card User Principal Name
Disable Forms	Login
Two-Factor Authenticat	tion
None	•
Update User	Discard

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Add an LDAP User

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. Click the Users tab to display the list of users in the grid.
- 3. Click Create New User above the grid.
- 4. Select Add an LDAP User from the list.

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5. Select a credential from the list.

Note: If you require a new credential, click **Create a New Credential** to create a new credential. The new credential is added to the list of available credentials.

- 6. Click Fetch to load the list Domain Controllers, and then select one.
- 7. To filter the user search, enter keywords in the user filter or use a wild card.
- 8. Click Search LDAP.

LDAP User Search
Search for LDAP users to give access to the system.
Credential
oracl admin 🗸
Create New Credential
Server
Domain / Domain controller
▼ FETCH
Object class
Name attribute search
Filter by null
*
SEARCH LDAP CANCEL

- 9. Select a user, and then click Add User.
- 10. Assign at least one group to the user.

Add an Application User

Application users represent applications that interface with the BeyondInsight public API. Application users cannot log in to the BeyondInsight console. They can only authenticate and interact with the public API, using Client ID and Client Secret for credentials within the OAuth client credential flow.

An API Registration type of API Access Policy must be assigned to an application user, and is used for processing IP rules. To create an application user:

- 1. Go to Configuration > Role Based Access > User Management > Users.
- 2. Click Create New User.
- 3. Select Add an Application User from the dropdown list. The Create New Application User screen is displayed.
- 4. Add a username.
- 5. Under **API Access Policy**, select the policy.
- 6. Copy the information from the Client ID and Client Secret fields for later use.
- 7. Click Create User.

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- 8. Assign the user to a group that has the required permissions to access BeyondInsight and Password Safe features.
 - Click the vertical ellipsis for the user, and then select View User Details.
 - From the User Details pane, click Groups.
 - Locate the group, select it, and click Assign Group above the grid.

Recycle the Client Secret for an Application User

When editing an application user, you have an option to recycle their secret. Once recycled, you can copy or view the new secret. When a secret is recycled and the user account is updated with this change, the previous client secret is no longer valid.

To recycle the secret for an application user:

- 1. Go to Configuration > Role Based Access > User Management > Users.
- 2. Locate the application user in the grid.
- 3. Click the ellipsis to the right of the user, and then select Edit User Details.
- 4. Click the Recycle icon to the right of the Client Secret.
- 5. Click **Recycle** on the confirmation message that displays.
- 6. Copy the new secret for later use.
- 7. Click Update User.

View and Update OAuth Secret Expiry

The user's secret will eventually expire. The **Users** grid has an **OAuth Secret Expiry** column, which you can use to view what is close to expiring. The default duration of a client secret is **365** days. You can adjust the lifetime of the secret from the **Authentication Options** configuration area in BeyondInsight. Updating this value only changes the secret expiry date for new application users and recycled client secrets. Older secrets cannot be updated.

To view the OAuth Secret Expiry for an application user:

- 1. Go to Configuration > Role Based Access > User Management > Users.
- 2. Locate the application user. The OAuth Secret Expiry column lists the date and time that a client secret for that user expires.

To update the duration for client secrets:

- 1. Go to Configuration > Authentication Management > Authentication Options.
- 2. Under Application User Authentication Settings, enter the new duration of the client secret in the Client Secret Expiry field.
- 3. Click Update Application User Authentications Settings.

Edit a User Account

Administrators can edit user details such as change the name, username, email, and password, update active status, lock and unlock the account, and update multi-factor authentication settings as follows:

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. Click Users to display the list of users in the grid.
- 3. Optionally, filter the list of users displayed in the grid using the Filter By dropdown.

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- 4. Select a user, click the vertical ellipsis button, and then select Edit User Details.
- 5. In the Edit User pane, update the details as required, and then click Update User.

For more information on creating and editing directory credentials, please see <u>"Create and Edit Directory Credentials" on page</u> 21.

Add User to Groups

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- 1. From the User Management page, click the Users tab to display the list of users in the grid.
- 2. Optionally, filter the list of users displayed in the grid using the Filter by dropdown.
- 3. Select a user or multiple users, and then click the **Add User to Groups** button above the grid.

USER MA	NAGEME	INT 😧	
Groups	Users		
Filter by			
Т		Add User to Groups	
🕀 Create M	New User 🖪		
1067 items (2	selected)	•	
Usernam	е	Name	Domain
•			

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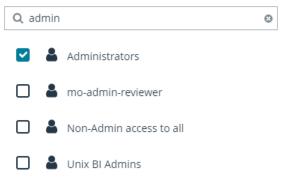
4. Search for the group or groups, and then select the group or groups to assign currently selected users to the selected groups.

Note: If a group already contains all of the selected users, a check mark is displayed next to the group name.

Add 2 Users To Groups

Please enter three or more characters to begin searching against the Group Name or Description. If a group already contains all of the currently selected users, its result will display as checked. When one or more currently selected users are not part of a group, its result will display as unchecked. Check the box to assign all currently selected users to that group.

Search local groups



Delete a User Account

Administrators can delete user accounts as follows:

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. Click the Users tab to display the list of users in the grid.
- 3. Optionally, filter the list of users displayed in the grid using the Filter by dropdown.
- 4. For local accounts, select the user, click the **Delete** button above the grid, and then click **Delete** to confirm.
- 5. For directory accounts, select the user, click the vertical ellipsis, select **Delete User**, and then click **Delete** to confirm.

Note: For auditing purposes, if a user account is linked to any Password Safe session recordings, you cannot delete the account; however, you may disable the account.

Note: Directory accounts may be deleted only if they do not belong to any groups.

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Audit Console Users in BeyondInsight Cloud

You can track the following activities of users logging into the console:

- Login and logout times
- IP address from where the user logged in
- Password change events
- · Other actions taken such as configuring user settings

To view user audit data:

- 1. Go to Configuration > General > User Audits.
- 2. User the filters above the grid to easily locate specific items listed. You can filter grid items by the following criteria:
 - Date the user took the action
 - Type of action taken
 - · Which section of the application the action was taken
 - Username
 - IP Address
 - Key words of the item
 - · Key words in the item details
- 3. Click the i icon for the item to view more specific details about the action taken.

Tip: You can export all of the data in the grid to a CSV file by clicking the **Download all** (downward arrow) button above the grid.

Note: User audits older than 120 days are purged from the database. Data retention for user audits is not configurable for BeyondInsight and Password Safe Cloud deployments.

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Overview of BeyondInsight Tools

BeyondInsight provides a set of tools to help you organize assets for scanning.

Depending on the number of assets that you want to scan or the critical nature of some of your assets, consider organizing the assets using address groups or Active Directory queries which can be part of a Smart Rule.

The following list provides examples on ways you can use these tools:

- Create an IP address group that organizes assets by a range of IP addresses, including CIDR notation and named hosts.
- Use an Active Directory query that will organize assets by organizational unit. Create a Smart Rule and use the query as your selection criteria.
- Change the properties for assets, and then use the attributes as the selection criteria in the Smart Rule.

Scans can return a lot of information. To help you review scan results, you can create filters and set preferences on the **Assets** page to easily review scan results.

For more information, please see "Change and Set the Console Display Preferences" on page 18.

Create an Address Group

When creating a Smart Rule, you can create an address group to use as an IP address filter. An address group can contain included or excluded IP addresses. IP addresses are entered as a

- Single IP address
- IP range
- CIDR Notation
- Named host

Note:

- The BeyondInsight user must be a member of the Administrators group or be assigned the Full Control permission on the Asset Management and the applicable Smart Rule Management feature(s) to be able to create and edit Smart Rules.
- Users assigned Read Only permissions on these features may only view the details of Smart Rules.

For more information, please see "Create and Configure Groups" on page 27.

Create an Always Address Group

You can create an address group and name it **Always**. The Discovery Scanner is designed to recognize this address group name and includes the group in every scan, regardless if the group is selected in the scan job. The address group can include and exclude IP addresses.

The next time a scan runs, the address group is synchronized with the Discovery Scanner. The IP addresses, whether they are included or omitted, are considered part of the running scan.

Example: If the **Always** address group is configured with **10.10.10.60** and **buffett-laptop (omitted)**, it scans **10.10.10.50** and **buffett-laptop**. The results are as follows:

- The scan includes 10.10.10.60 since this IP address was added to the Always address group.
- The scan excludes buffett-laptop since this asset was explicitly omitted in the Always address group.
- 10.10.10.50 is scanned as usual.

Note: If an asset was scanned and later added to the **Always** address group as **Omit**, the asset is not scanned but might be displayed in the report. This only occurs with some reports.

1. Go to Configuration > Discovery Management > Address Groups.

C



- 2. Click Create New Address Group.
- 3. Enter a name for the address group, and then click **Create Address Group**.

ADDRESS GROUPS

Create New Address Group

Address Group name

Q

 Select the address group, and then from the right pane, click Create New Address to manually add the IP addresses. Or, click Import Addresses to import them into the group using a file.

New Address Grou	p
Create Address G	roup Discard
ADDRESS GROUPS	Addresses In Group 'Address Group'
Search Q	Create New Address 🕂 Import Addresses 🛓
Create New Address Group 🚯	Search Q. Showing all 1 Addresses
4f3fae93-ae2d-494b-aace-3ca04d021a68	Named Host: myhost
address group	

Create New Address Group

- 5. If manually adding the addresses:
 - Select the type from the list: Single IP Address, IP Range, CIDR Notation, or Named Host.
 - Enter the IP addresses, CIDR Notation, or host name, depending on which type you selected.
 - Enable Omit this entry to excluded addresses.
 - Click Create Address.

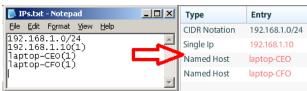
Create New Addi	>	
Туре		
Single IP Address		•
Single IP Address		
10.10.192.1		
Omit this entry		
CREATE ADDRESS	DISCARD CHANGES	

- 6. If importing the addresses:
 - Enable the Overwrite all existing addresses option, if desired.
 - Click Drop File to upload the import file.
 - Click Upload File.

Note: The list in your import file depends on your particular needs. The list can contain all IP addresses that you wish to exclude. To exclude IP addresses, use the format: **192.x.x.x (1)**.

<section-header><section-header><text><text><text><text><text><text><text><text>

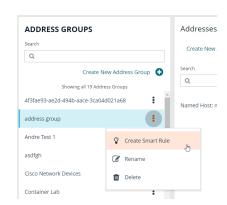
The image shows an example of how a CIDR Notation, an excluded IP address, and excluded named hosts are displayed after importing.



Create a Smart Rule Based on an Address Group

When configuring an address group, you can choose to create a Smart Rule based on the address group.

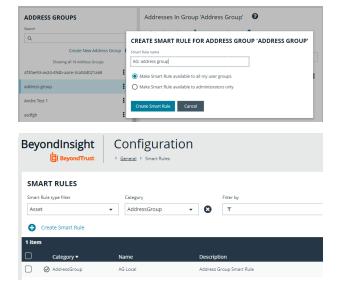
- 1. From the Address Groups pane, click the vertical ellipsis for the address group.
- 2. Select Create Smart Rule.



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- 3. Leave the default name, or name the Smart Rule as desired.
- Select the option to make the Smart Rule available to all user groups or the option to make the Smart Rule available to administrators only.
- 5. Click Create Smart Rule.
- 6. A message stating *Smart Rule has been created for this Address Group* appears.
- 7. The group is displayed on the **Configuration > Smart Rules** page.



Create a Directory Query

You can create an Active Directory or LDAP query to retrieve information from Active Directory or LDAP to populate a Smart Rule. To work with directory queries, the BeyondInsight user must be a member of the **Administrators** group or assigned the **Asset Management** permission.

Create a Directory Query

Create a new directory query or clone an existing query as follows:

- 1. In BeyondInsight, navigate to Configuration > Role Based Access > Directory Queries.
- 2. Click Create New Directory Query or click the vertical ellipsis for an existing query and select Clone.
- 3. Select Active Directory or LDAP from the Directory Type list.

Note: Cloned queries keep the same directory type as the query being cloned.

- 4. Enter a name for the query in the **Title** field.
- 5. Select a stored credential for running this query or click **Create New Credential** to be taken to the **Directory Credentials** page where you can add a new one.

Note: At minimum, the credential must have Read permissions on the computer assets you are enumerating.

- 6. Enter the directory path for the Query Target, or click Browse to search for a path and add it.
- 7. Select a scope to apply to the container: This Object and All Child Objects or Immediate Children Only.
- 8. Select an object type: Computer Objects or User Objects.
- 9. Enter the directory path for the Query Target, or click Browse to search for a path and add it.
- 10. Select a scope to apply to the container: This Object and All Child Objects or Immediate Children Only.
- 11. Select an object type: Computer Objects or User Objects.
- 12. Enable or disable the Dynamically refresh results each use option.
- 13. Provide a Name and Description or use the * wild card character to match multiple values for the Basic Filter.
- 14. Optionally, click **Advanced Filter**to provide an **LDAP Query**.
- 15. Click Test to ensure the query returns expected results. We recommend you preview results before saving the query.
- 16. Click Create Directory Query.
- 17. A warning message displays the following: Creating or modifying Directory Queries can have a significant impact to the onboarding Smart Rules that use this query. Are you sure you want to save this Directory Query?
 - Click Confirm to create the query.
 - Click Cancel to return to the query form to make changes.
- 18. If you did not test the query (step 15), a warning message displays the following: Are you sure you want to save this Directory Query without previewing the results?
 - Click Confirm to create the query without testing it.
 - Click Cancel to return to the query form to make changes or test the query before saving it.

Update a Directory Query

Update an existing directory query as follows:

- 1. In BeyondInsight, navigate to Configuration > Role Based Access > Directory Queries.
- 2. Locate the query in the grid and click the vertical ellipsis to the right of it.
- 3. Select Edit from the menu.
- 4. Modify query details as necessary, and then click **Test** to ensure the query returns expected results. We recommend you preview results before saving the query.
- 5. Click Update Directory Query.
- 6. A warning message displays the following: Creating or modifying Directory Queries can have a significant impact to the onboarding Smart Rules that use this query. Are you sure you want to save this Directory Query?
 - Click **Confirm** to update the query.
 - Click Cancel to return to the query form if wish to make changes.
- 7. If you did not test the query after making changes, a warning message displays the following: Are you sure you want to save this Directory Query without previewing the results?
 - · Click Confirm to save the updated query without testing it.
 - Click Cancel to return to the query form if you wish to make changes or test the query before saving it.

Note: If you're changing the **Query Target**, we recommend testing the query before saving the changes to ensure the changes are working the way you expect. Any Smart Rules using that query will use the new target list the next time the rule processes.

For more information, please see the following:

- "Create and Configure Groups" on page 27
- "Create and Edit Directory Credentials" on page 21

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Attributes and Attribute Types in BeyondInsight

Attributes can be used to label assets, and you can set attributes for each asset in a group using a Smart Rule. BeyondInsight ships with a default set of attributes that can be customized, except for the **Criticality** type, and you can also add new attribute types and attributes to meet your requirements.

For more information, please see "Use Smart Rules to Organize Assets" on page 70.

Add a New Attribute Type

- 1. In the BeyondInsight Console go to Configuration > General > Attributes.
- 2. Click + Add New Attribute Type.
- 3. Type a name for the attribute type, and then press Enter.

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Add a New Attribute

- 1. Click the plus sign for the desired attribute type to expand its attributes.
- 2. Click + Add New Attribute.
- 3. Type a name for the attribute, and then press Enter.

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Use Smart Rules to Organize Assets

A Smart Rule is a filter that you can use to organize assets into Smart Groups. Use an asset-based Smart Rule to organize assets based on the filters selected.

Note:

- The BeyondInsight user must be a member of the Administrators group or be assigned the Full Control permission on the Asset Management and the applicable Smart Rule Management feature(s) to be able to create and edit Smart Rules.
- Users assigned Read Only permissions on these features may only view the details of Smart Rules.

When a non-administrator user creates a Smart Group, the Smart Group is automatically associated with:

- · Read permissions for all groups the user is a member of
- Full Control permissions for all groups the user is a member of and has the **Asset Management** and **Smart Rule Management** permissions for

Use a Smart Rule to register assets as Smart Groups. This allows you to:

- Run Discovery Scans
- · Monitor and view assets

Smart Rules update results automatically, ensuring assets match the criteria and are current.

Use Smart Rule Filters and Smart Groups

There are many built-in filters available that you can use when creating Smart Rules. You can also create address groups or Active Directory queries from the **Configuration** page to use as Smart Rule filters.

Selection Criteria $\, \boxminus \,$

Include Items that match ALL 🔻 of the following

	Address Group	
	Address Group	
and	Asset fields	Ì
	Assigned Attributes	
	Child Smart Rule	

You can use more than one filter to refine or extend the scope of assets in a Smart Rule. Filters can be joined with **and** (match **ALL** criteria) or **or** (match **ANY** criteria) conditions. If you select to match **ALL**, every indented filter must be set to **True** for an asset to be included. If you select to match **ANY**, only one of the indented filter items must be set to **True** for an asset to be included. The screen capture shows a filter example that includes all assets in the EMEA domain that are either servers or workstations.

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Smart Rule Filters

Asset Smart Rule Filters

Address Group	Create a group of IP addresses.
Asset Fields	Group the Smart Rule by asset fields, such as, Asset Name, Domain or DNS, Risk, and Kind.
Asset Fields	You can include more than one asset field filter in the Smart Rule to refine the results.
Assigned Attributes	Create a filter based on an attribute.

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	If the attribute is unassigned on a particular asset, you can choose to include or exclude the asset from the rule.
Child Smart Rule	You can reuse a Smart Rule to save time when creating new Smart Rules. This is especially useful if the Smart Rule is a complicated set of filters.
	Reusing a Smart Rule further refines the assets that will be a part of the Smart Rule.
Cloud Assets	Filter assets on the cloud connector.
Directory Query	Create an Active Directory or an LDAP query to include or exclude assets in the selected domain.
Installed Software	Filter on any combination of installed software.
Operating System	Filter on any combination of OS. Operating systems included in the list are those detected in your network.
	Assets with no OS detected, can be included or excluded from the rule.
Processes	Filter on any combination of processes.
Services	Filter by any combination of services.
Software Version	Filter by software version. The software that you can filter on is determined by the software that is discovered during the scan.
	Filters user accounts by SID or privilege. You can filter on both. If either value is not selected then it will be ignored.
User Account Attribute	Using this filter you can determine if any users have administrator privileges that might no longer be required.
	You can create a Smart Rule using this filter and set the email alert action to notify you when a user account with admin privileges is detected.
Windows Events	Filter by Windows events that are available in the Windows Event Viewer. For example, Application , Security , or System .
Workgroup	Filter by workgroup.

For more information, please see the following:

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- "Create an Address Group" on page 62
- "Create a Directory Query" on page 66

Predefined Smart Group Categories

Agents and Scanners	Detects assets where BeyondInsight scanners are deployed.
Assets and Devices	Includes default Smart Groups for all assets and all assets labeled as workstations.
Intelligent Alerts	Includes Smart Groups that detect assets added since the previous day, and mobile assets with critical vulnerabilities. Intelligent Alerts are inactive by default.

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Servers	Includes Smart Groups that detect mail server, web server, database server, domain controller, and SCADA assets. Only the Web Servers Smart Group is marked as active.
	Includes Smart Groups for virtual environments, including Microsoft Hyper-V and Parallels . Assets detected as virtual environments belong to these Smart Groups.
Virtualized Devices	This default category also includes two Smart Groups: Virtual Servers and Virtual Workstations . Assets that are servers or workstations might not be detected, and as a result, not be included in the Smart Group. For example, the asset might be a router or unknown, resulting in exclusion from the Smart Group.

Note: Virtual machine processing within Smart Rules has been deprecated as of BeyondInsight and Password Safe 24.1. For upgrades to the BeyondInsight and Password Safe 24.1 release, the **Virtualized Devices** category for Smart Rules still displays in the UI; however, any Smart Rules based on this category are marked as inactive. For upgrades to the 24.1 release, **Child Smart Rule** filters that use any of the following built-in rules are removed:

- Microsoft Hyper-V
- Parallels
- Recent Virtual Servers not in Password Safe
- Virtual Servers
- Virtual Workstations
- VMware vSphere
- Xen

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Create Smart Rules

You can configure an asset-based Smart Rule to:

- Create Smart Groups
- Send email alerts with a list of assets
- · Set attributes on assets
- Create a ticket with a list of assets
- Set scanner pooling

Create an Asset Based Smart Rule

- 1. From the left menu in BeyondInsight, click Smart Rules.
- 2. Leave Asset selected for the Smart Rule type filter.
- 3. Click Create Smart Rule.
- 4. Select a category.
- 5. Enter a name and description.
- 6. By default, the Smart Rule is set to **Active (yes)**, so it is always available for processing. Disable the active setting to ensure the rule is not processed.
- 7. Select the filters in the Selection Criteria section.
- 8. From the Actions section, select one of the following:

Mark each asset for deletion	Select to create a Smart Group that contains assets to be marked for deletion.
Mark each asset inactive	Assets detected as inactive are no longer be displayed on the Assets page or in reports.
Send an email Alert	Select and enter the email addresses for notification when the rule criteria is matched. Emails are only sent if the list of assets that match the rule is changed from the last time the rule was processed.
Set attributes on each asset	Select the attribute type from the list, and then select the attribute.
Set Scanner Properties	Select one or more scanners to lock to the Smart Group.
Set attributes on each asset	Select attributes for each asset.
	When selected, the rule is displayed in the Smart Groups pane as a Smart Group. You can select the Smart Group to filter the list of assets in the Smart Groups pane.
Show asset as Smart Group	You can also select the default view to display on the Assets page when the Smart Group is selected.
	Smart Groups are also used for running scans and registering for patch updates.

9. Click Create Smart Rule.

Tip: To view the contents of a Smart Rule when creating a new rule or editing an existing rule:

- Once the rule is saved, click View Results.
- You are taken to the associated grid, where the contents of the Smart Rule are listed.

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• If the rule is actively processing, a banner displays letting you know that.

Note:

- View Results displays only if you have permissions to the grid corresponding to the Smart Rule, i.e.; Assets, Managed Accounts, Managed Systems.
- The Smart Rule must be saved with Show <entity> as Smart Group selected under Actions to view the results.

Tip: Because the Smart Rule must process to display the contents in the grid, we recommend viewing the results using only the **Show <entity> as Smart Group** action and before adding additional actions that may make changes to accounts and assets in your network.

Once you have confirmed the rule contains your desired items, you can then add additional actions to the Smart Rule.

Smart Rule Processing

A Smart Rule processes and updates information in Smart Groups when certain actions occur, such as the following:

- The Smart Rule is created, or edited and saved.
- A timer expires.
- You manually kick off the processing by selecting the Smart Rule from the grid on the Smart Rules page, and then click Process.

Note: The **Process** action from the grid on the **Smart Rules** page does not apply to managed account and managed system Quick Group Smart Rules, because these only run once upon creation and cannot be triggered to run again.

- A Smart Rule with Smart Rule children triggers the children to run before the parent completes.
- Managed account Smart Rules with selection criteria Dedicated Account process when a change to a mapped group is detected. This can occur in the following scenarios:
 - A new user logs on.
 - The group refreshes in Active Directory by an administrator viewing or editing the group in **Configuration > Role Based Access > User Management**.

Change the Processing Frequency for a Smart Rule

By default, Smart Rules process when asset changes are detected. The assets in the Smart Rule are then dynamically updated. For Smart Rules that require more intensive processing, you might want Smart Rules to process less frequently.

To provide more restrictive processing, you can select alternate frequency settings to override the default processing. The Smart Rules process in the selected time frame (for example, the rule processes once a week).

When creating a new Smart Rule or updating an existing one, select your desired frequency from the **Reprocessing limit** list in the **Details** section.

Note: A Smart Rule is always processed when first saved or updated.

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	Every 6 hours		· 0	1
	Every 12 hours			
	Every day	*		

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Perform Other Smart Rule Actions

The below sections detail how to perform various actions with Smart Rules, such as:

- · Viewing the results of processed Smart Rules from the grid
- · Editing, cloning, deactivating, deleting, and auditing Smart Rules
- Viewing Smart Rules statistics

View Results of a Smart Rule from the Grid

From the Smart Rules grid, you can view the results of any processed Smart Rule using the View Results row action, as follows:

- 1. From the left menu in BeyondInsight, click Smart Rules.
- 2. Click the vertical ellipsis to the right of the Smart Rule.
- Select View Results to go to the associated grid where the contents of the Smart Rule are listed.

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Note:

- View Results displays only if you have permissions to the grid corresponding to the Smart Rule, i.e.; Assets, Managed Accounts, Managed Systems.
- The Smart Rule must be saved with Show <entity> as Smart Group selected under Actions to view the results.

Edit a Smart Rule

- 1. From the left menu in BeyondInsight, click Smart Rules.
- 2. Click the vertical ellipsis to the right of the Smart Rule.
- 3. Select Edit Smart Rule.
- 4. Make the necessary changes and then click Save Changes.

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Tip: To view the contents of a Smart Rule when creating a new rule or editing an existing rule:

- Once the rule is saved, click View Results.
- You are taken to the associated grid, where the contents of the Smart Rule are listed.

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- If the rule is actively processing, a banner displays letting you know that.

Note:

- View Results displays only if you have permissions to the grid corresponding to the Smart Rule, i.e.; Assets, Managed Accounts, Managed Systems.
- The Smart Rule must be saved with Show <entity> as Smart Group selected under Actions to view the results.

Tip: Because the Smart Rule must process to display the contents in the grid, we recommend viewing the results using only the **Show <entity> as Smart Group** action and before adding additional actions that may make changes to accounts and assets in your network.

Once you have confirmed the rule contains your desired items, you can then add additional actions to the Smart Rule.

Clone a Smart Rule

You can clone custom or predefined Smart Rules.

- 1. From the left menu in BeyondInsight, click Smart Rules.
- 2. Click the vertical ellipsis button for the Smart Rule you wish to clone, and then select Clone.
- 3. If you are using the multi-tenant feature, select the organization from the list, and then click Clone Smart Rule.
- 4. Select the newly cloned Smart Rule from the grid, click the vertical ellipsis button, select **View Details**, and then edit the Smart Rule filters as needed.
- 5. Click Save Changes.

Note: Cloned Smart Rules have full (read/write) user group permissions.

Deactivate a Smart Rule

You cannot delete predefined Smart Rules. However, if you have several smart groups, you can mark unused Smart Rules as inactive.

Note: A Smart Rule that is used in another Smart Rule cannot be deleted or marked as inactive.

An inactive Smart Group is no longer displayed in the Smart Group browser pane until marked active again.

To deactivate a Smart Rule:

- 1. From the left menu in BeyondInsight, click Smart Rules.
- 2. Select the Smart Group or multiple Smart Groups, and then click **Deactivate** above the grid.

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Delete a Smart Rule

- 1. From the left menu in BeyondInsight, click Smart Rules.
- 2. Select one or more Smart Rules.
- 3. Click the Trash Can icon above the grid. You can also click the vertical ellipsis to the right of a single Smart Rule and select Delete.

Note: Built in Smart Rules cannot be deleted. These are identified by the Lock icon.

Note: A Smart Rule that is used in another Smart Rule cannot be deleted or marked as inactive.

Audit Smart Rules

To audit new or edited Smart Rules:

- 1. Go to Configuration > General > User Audits.
- 2. Select Section from the Filter by dropdown.
- 3. Select Smart Rule from the Section dropdown.
- 4. Click the information icon to the right of the Smart Rule.
 - If a Smart Rule is added, the Add Details pane displays with all added information.
 - If a Smart Rule is edited, the Edit Details pane displays with all edited information.

View and Select Smart Rules Processing Statistics

The Smart Rules grid displays some processing statistics by default. Additional Smart Rules processing statistics, such as **Processed Date**, **Successful Attempts**, and **Failed Attempts** are available and can be displayed in the Smart Rules grid.

To add this information to the grid:

- 1. From the left menu in BeyondInsight, click **Smart Rules**.
- 2. Click the Column chooser icon in the upper right of the grid.
- 3. Click the desired column to add that information to the grid.
 - · Check marks indicate columns currently displayed.
 - You can remove a displayed column by clicking the column name in the Column chooser list.
 - If there are more columns displayed than can fit in the width of the screen, a scroll bar appears at the bottom of the grid. It may be necessary to scroll sideways to view any additional columns.

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Add Credentials to Use in Scans

You can create the following credential types that can be used for scans:

- Microsoft SQL Server
- MySQL
- Oracle
- SNMPv2
- SSH
- Windows

To create a credential:

- 1. Select Configuration > Discovery Management > Credentials.
- 2. Click Create New Credential.
- 3. Enter a Credential Name.
- 4. Select a credential type from the Type list.

Note: The fields of information you need to enter change based on the type selection.

5. Enter the user account information appropriate for the type of credential you are creating:

Туре	Information
MS SQL Server	 Authentication Type Domain (Optional) Username Password Confirm password Description Port numbers Key Confirm key
MySQL	 Username Password Confirm password Description Port numbers Key Confirm key
Oracle	• Username

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	 Password Confirm password Description Access level Connect to Protocol Port numbers Key Confirm key
MongoDB	 Username Password Confirm password Description Database Host Port numbers Key Confirm key
PostgreSQL	 Username Password Confirm password Description Database Host Port numbers Key Confirm key
Sybase	 Username Password Confirm password Description Host Port numbers Key Confirm key
Teradata	UsernamePassword

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	 Confirm password Description Host Port numbers Key Confirm key
SNMPv2	 Description Key Confirm key Community string
SSH	 Authentication Type Userrname Password Confirm password Description Port numbers Key Confirm key Elevation
Windows	 Domain (Optional) Username Password Confirm password Description Key Confirm key



Note: All credentials are stored in the database using an AES-256 block cipher by RijndaelManaged.

Tip: This feature propagates credentials stored in BeyondInsight to Discovery Scanner servers and allows end users and API calls to leverage credentials locally on the network scanner. This eliminates the need to provide credentials separately for those scanners.

If the credential name matches an existing credential in the BeyondTrustDiscovery Scanner, the credential is overwritten with the value from BeyondInsight.

6. Click Create New Credential.

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To edit a credential, browse or **Search** for it in the list of **Credentials**, then click it. Enter the updated information and click **Update Credential**. Some credential information cannot be edited once the credential has been created.

If creating Oracle, SSH, or SNMP credentials, please see the following:

- <u>"Create SSH Credentials" on page 86</u>
- "Create Oracle Credentials" on page 84
- "Create SNMP Credentials" on page 85

Create Oracle Credentials

If you are scanning Oracle databases, you can create Oracle credentials. The **tnsnames.ora** file is updated automatically after you create an Oracle credential.

- 1. Navigate to Configuration > Discovery Management > Credentials.
- 2. Click Create New Credential +.
- 3. Enter a Credential Name.
- 4. From the Type list, select Oracle.
- 5. Provide a username and password, and confirm it.
- Select an Access level from the list: Standard, SYSDBA, or SYSOPER.
- 7. Select additional connection options:
 - Connect To: Select Database SID or Named Service.
 - Enter the database SID or name of the service, depending on which option you had selected.
 - Protocol: Select TCP, TCPS, or NMP.
 - Host: Enter the host name where the Oracle database resides. If this credential is used for multiple Oracle hosts, separate each host name by a comma.

Note: IPv4 addresses, IP address ranges, CIDR notation, and named hosts are supported formats. Multiple SIDs, named services, TCP ports, and pipe names are not supported.

- **Port:** The default port is **1521**. Use the **+** and **-** buttons to change this if necessary.
- 8. Enter a key and confirm if those fields are available.

Note: The **Key** and **Confirm Key** fields display only when your administrator has enabled the global site setting to require access keys for discovery credentials: **Configuration > System > Site Options > Global Discovery Credential**.

9. Click Create Credential.

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A number of credential types are supported and can be configured here.

Provide a unique credential name for this credential. The credential name cannot contain any of the following characters []' & < ? > * |" :; \/

New Oracle Cred	
Type (optional)	
Oracle	
Username	
Oracle Admin	
Password	
	Show
Confirm password	
	Show
Access level	
Standard	
Connect to	
Database SID	
Database SID	
Protocol	
TCP	
Host	
Port	
1 521	
	-

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Create SNMP Credentials

If scanning devices are managed by an SNMP community, you can add your community strings.

- 1. Navigate to Configuration > Discovery Management > Credentials.
- 2. Click Create New Credential +.
- 3. Enter a Credential Name.
- 4. From the **Type** list, select **SNMPv2**.
- 5. Enter a key and confirm it if those fields are available.

Note: The **Key** and **Confirm Key** fields display only when your administrator has enabled the global site setting to require access keys for discovery credentials: **Configuration > System > Site Options > Global Discovery Credential**.

- 6. Enter the Community String.
- 7. Click Create Credential.

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Create SSH Credentials

You can create Public Key Encryption credentials to connect to SSH-configured targets. You can select a credential that contains a public and private key pair used for SSH connections.



Note: DSA and RSA key formats are supported.

Optionally, when configuring SSH, you can select to elevate the credential. Using **sudo**, you can access scan targets that are not configured to allow root accounts to log on remotely. You can log on as a normal user and use **sudo** to connect with a more privileged account. Additionally, you can use **sudo** to elevate the same account to get more permissions. Using **pbrun**, you can elevate the credential when working with Privilege Management for Unix & Linux target assets.

- 1. Navigate to Configuration > Discovery Management > Credentials.
- 2. Click Create New Credential +.
- 3. Enter a Credential Name.
- 4. From the Type list, select SSH.
- 5. Enter a Username.
- 6. Select an Authentication Type:
 - Password: Enter a password and confirm it.
 - **SSH-DSS Key:** Upload a private key file. Enter key and confirm it if those fields are available.

Note: The **Key** and **Confirm Key** fields display only when your administrator has enabled the global site setting to require access keys for discovery credentials: **Configuration > System > Site Options > Global Discovery Credential**.

- 7. Enter a port number, or multiple port numbers separated by commas.
- 8. Elevating credentials is optional. To elevate credentials, select one of the following from the **Elevation** list:
 - **sudo:** The optional sudo username should be blank in most cases. When blank, commands run with the effective privileges of the root account. If an optional username is entered, sudo runs in the security context of that user.
 - **Enable:** Enter the credentials for Cisco devices. If you are auditing Cisco devices, you can elevate the credentials to privileged for more thorough scans.
 - pbrun: Enter the pbrunuser username.
- 9. Click Create Credential.

Create New Credential		
A number of credential types are supported and	d can be confi	gured here.
Provide a unique credential name for this crede of the following characters []'\$& <+?>* *:		dential name cannot contai
Credential Name		
New SSH Credential		
Type (optional)		
SSH	•	
Username		
SSH Admin		
Authentication Type		
SSH-DSS Key	•	
Upload private key file		
Log and drop or click to select a file to upload. All file types accepted. Maximum File Size: 100 KB		
Port numbers		
Enter up to 250 ports separated by commas. (e.g. 80, 100, 44, 1433	0	
22		
Key		
	Show	
Confirm key		
	Show	
Elevation		
None	•	
Create Credential Discard		

Run Discovery Scans

Run a discovery scan to locate network assets, such as workstations, routers, laptops, and printers. A discovery scan also determines if an IP address is active. You can periodically repeat discovery scans to verify the status of devices, programs, and the delta between the current and previous scans.

Note: Discovered assets do not count toward your license.

- The TCP discovery ports are 22, 80, 110, 139, 389, 443, 445, 1025, 1433, 1521, 3306, 3389, 5000, 5432, and 27017.
- Use more than one scanner to distribute the coverage across the network.

Use the Scan Wizard to Create a Discovery Scan

- 1. From the left menu, click Run a New Discovery Scan.
- 2. Select Scan Type: There are three types of scans to choose from. Select one and click Next.
 - **Discover Local Accounts**: This scan requires credentials and deploys a local scan service to the scan targets. This scan discovers systems as well as the local user accounts located on them.
 - Detailed Discovery Scan: This scan requires credentials and it deploys a local scan agent to the scan targets, which can be disabled if required. Besides systems, this scan provides associated information on services, scheduled tasks, users, and databases. This scan is customizable. Click Customized Detailed Discovery to select the type of data to collect.
 - IP Discovery: This scan does not use credentials for the scanning process and does not deploy any services to the scan targets. This scan discovers only the IP addresses for detected systems.

Note: Any assets discovered using the **IP Discovery** scan, if subsequently rescanned with another scan type, are listed in BeyondInsight as duplicates. This type of scan can only identify assets by IP address, while credentialed scans rely on a mix of hostname, DNS name, and workgroup to identify assets.

- Select Scan Targets: Enter scan targets in the field provided. You can enter single IP addresses, IP ranges, addresses in CIDR notation, or named hosts. Items must be separated by commas.
- 4. Choose Scan Agent: Select which agents are used to execute the scan. If more than one agent is selected, the scan targets are split between the selected agents. If you have a large number of agents, you can use the filter dropdown to specify filter criteria. Click Next to continue.

Note: A warning banner appears at the top of the screen if your installation includes any Discovery Agents earlier than version 20.1. These must be updated by the end of 2021. You can identify outdated agents by referring to the grid of agents on this screen, which includes the version of each agent.

Click **Dismiss** to hide the warning banner until your next login. Dismissing the warning banner here does not hide it on the dashboard, and dismissing the warning banner on the dashboard does not hide it on this screen.

- 5. Enter Credentials: If the type of scan you select requires credentials, you can select a credential from the Credential List, and/or use the Custom Credential section to provide a credential to use for this scan.
 - If you enter a **Custom Credential**, click **Test Credential** to verify its functionality.

Note: Clicking **Test Credential** tests only AD domain user accounts. It is not for use with local or SSH user accounts.

Existing Credentials	Create New Credential	Custom Credential		
Search		Usemame		
Q		A (000000)	0	
Select All Deselect All		Password		
Showing all 29 Credentials		ρ	Show	
Any Any	Î	Domain (optional)		
0			Clear Form	
0		Test Credential		
0				
0				
0				
0				
0				

- If using the **Credential List**, select one or more credentials from a list of available credentials.
- If keys are required for discovery credentials in your environment, either provide a key for each credential or enable the Use the same key for all selected credentials option to provide a Universal Configuration Key used for all selected credentials.

Note: Configuration keys are not used or validated for Password Safe credentials.

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Tip: Use the Search Credentials box to filter the list of available credentials.

Tip: If you require a credential that isn't listed, click the **Create New Credential** link at the top of the list of credentials to open the **Create New Credential** form and create a new credential. The new credential is added to the list of existing credentials.

- 6. Once credentials have been selected for the scan, click Next.
- 7. Name the Scan: Provide a unique name for this scan. The scan name cannot be longer than 58 characters and cannot contain any of the following characters: [] ' \$ & < + ? > * [":; \/. You can also set the following options:
 - Apply job restrictions that allow you to abort the scan if it runs longer than a set number of minutes (max 48 hours).
 - Set a schedule, which can be Immediate, One Time, or Recurring.
- 8. Click Finish to complete the Scan Wizard.

Run Scans from a List of Assets

If you want to run a scan but would prefer to select targets from a list of assets rather than type them, click Assets from the left menu.

From the **Assets** grid, select the assets you want to scan, and then click **Scan Selected Assets**.

Smart Group filter		Last Updated filter	Filter by					
All Assets	•	Last 90 days	τ					
Create New Asset	٢	Scan Selected Assets	Û				S 🖛 🗆	¢
Herer (2 selected)								
tems (2 selected)			Domain	Operating System	Asset Type	Asset Risk	Last Updated	
tems (2 selected) Asset			Domain WORKGROUP	Operating System	Asset Type WorkStation		Last Updated Dec 05, 2022, 3:25 PM	

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The Scan Wizard screen appears. Here you can select the type of scan to run. The difference is that when you click **Next** and go to the **Select Scan Targets** page, you will find the targets already selected. The next steps in the Scan Wizard are the same as those outlined above.

BeyondInsight	an	
RUN A SCAN	<	SELECT SCAN TARGETS
1 Select scan type		Scan targets have already been selected. The scan is currently targeting 3 Assets.
2 Select scan targets		test123

Use Smart Rules as Targets for Scans

You can also run a scan on Smart Rules. From the **Smart Rules** grid, select a rule, click the vertical ellipsis for the rule, and then select **Scan**. You are taken to the Scan Wizard, for which the targets are preselected, and if the Smart Rule is configured to use specific scanners, the scan agents are also preselected. The next steps in the Scan Wizard are the same as those outlined above.

Smart Rul	- opper-		Filter by								
	eate Sn	nart Rule					c	*		¢	5
14 Items	(O sele	cted)									
		Category	Name	Description	Reprocessing Limit	Last Updated By	Las	t Updati	ed		
	\otimes	AddressGroup	NUTREE IN CO.	10000 mg	Default	participants and	jan	29, 2020,	11:17 A	4	1
	\odot	AddressGroup	10.000	And the local local local	Default	Second Second	0	ñew Det	aits		
2	Θ	AddressGroup		-	Default		0	idit Sma	rt Rule.		
2	0	AddressGroup	ALC: NAMES OF	same ing inst ha	Default	participant of the second	Θ	Deactiva			
-	\otimes	Agents and Scanners			Default			Jone			
					Default						

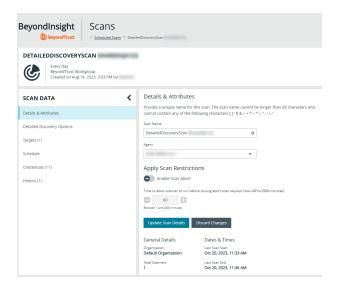
Check Completed and Scheduled Scans

To check information on scans, click **Active/Completed Scans** or **Scheduled Scans** from the left menu in the console. From the **Scans** page you can see active, completed, and scheduled scans, and you can delete a scan. You can also see the scan status for each active or completed scan. For each active and completed scan you can click the vertical ellipsis for the scan, and then select **Run Scan Now** or **Delete scan**. For each scheduled scan you can click the vertical ellipsis for the scan, and then select **View Scan Details, Run Scan Now**, or **Delete scan**.

BeyondInsight Scans							 Outor Navigation Ban a New Discourt 	
scans								
Active/Completed Scans Scheduled Scans								
Fitar by								
т								
÷							0 ≛ □	0
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± ■	Agest Name - Workgroup	Schedule Type	Created By	Created	Scan Start	Scan (n	Next Scan d Start	0
Silvers (1 selected) Som Nume	Agest Name Workgoup	туре	Created By	Created Apr 19, 2022, 617 AM	Scan Start	Scan (n	Next Scan	0
Reme (r suicida) Somhane 2		Type Westly				-	Mext Scan Start Dec 22, 2022, 5-13 AM	0
Carlos de la constante de la c	Harris, Mada	Type Weekly Weekly	-	Apr 19, 2022, 6:17 AM Apr 19, 2022,	-	-	d Next Scan Scart Dec 22, 2022, 519 AM	0
Banes () twichtig Garland	Harris, Mada	Type Preskly Preskly Preskly	-	Apr 19, 2022, 8:17 AM Apr 19, 2022, 8:18 AM	-	- - (Mext Scan Start Dec 22, 2022, 5-13 AM	0

When viewing the Scan Data, you can:

- Change the name of the scan.
- Change the scanner agent associated with a scheduled scan job.
- Apply job restrictions that allow you to abort the scan if it runs longer than a set number of minutes (max 48 hours).
- Change the scan details, such as the accounts, services, databases, and software selected for discovery.
- View the scan targets and modify the target Smart Rule if one is selected.
- Change the schedule type and frequency for the job.
- Change the credentials used to run the scan.
- View the history of the scan, if any exists.



Discover Assets Using a Smart Group

When the Smart Group filter is an address group, Active Directory query, or cloud connector, you can discover assets. When the **Use to discover new** box is checked, any assets online since the Smart Group was last processed are detected. The scan results on the **Assets** page reflect the number of assets found.

Tip: If you create an address group that includes the /19 CIDR block, the range possesses 8190 potential assets. The Discovery Scan always tries to discover those assets. Keep this in mind when you are reviewing scan results.

Key Steps

To create a Smart Group, go to Configuration > General > Smart Rules > Create Smart Rule.

- Create an address group or Active Directory query that includes the IP address range or domain.
- Create a Smart Group that includes the address group or query as the filter. Enable the Use to discover new assets during scans option.
- You can also configure the Smart Rule to use specific scanners by selecting the Set Scanner Properties action, and then selecting specific scan agents from the list.

election Criteria 🖯			
Include Items that match	 of the following 		
Address Group		-	8
address group			•
Add another condition Add a	ew assets during scans		
Add another condition Add a ctions 🕀	-	× 8	
Add another condition Add a	-	· 0	
Add another condition Add a ctions 🕀	-	• 0 • 0	
Add another condition Add a ctions show asset as Smart Group Set Scanner Properties	-	• 0 • 0	

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Tip: We recommend you run a discovery scan at a regular interval. You can discover assets manually by entering a host name, IP address, or address range.

For more information, please see the following:

- "Create a Directory Query" on page 66
- "Create an Address Group" on page 62

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Manage Scan Jobs

From the Scans page, you can perform the following:

- · View active, completed, and scheduled scans
- · Locate specific scans by using the date, status, agent name, workgroup, scan name, start time, and end time filters
- Use the row actions available from the vertical ellipsis menu for a scan to perform the following:
 - Open the discovery report for a completed scan
 - Stop active scans that are currently running
 - View and edit details for scheduled scans
 - $\circ~$ Run completed and scheduled scans now
 - Deactivate scheduled scans
 - Reactivate inactive scans

Note: You can view inactive scans by selecting **Inactive** from the **Status filter** above the grid. You can still run inactive scheduled scans and completed scans that are linked to inactive scheduled scans by clicking the vertical ellipsis for the scan and selecting **Run Scan Now**. You can also reactivate inactive scans from the vertical ellipsis menu if desired.

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Manage Assets

The **Assets** page allows you to review details about your assets quickly by filtering your assets by last update time, type of asset, domain, operating system, technical solutions applied to the asset (for example, an asset is a scanned host or database host), DNS name, Workgroup, and IP address.

Note: To maintain a manageable database size, assets and scan data is purged every 30 days. We recommend running discovery scans at least every 30 days to refresh asset data.

You can modify which columns to display in the Assets grid by clicking the Column Chooser icon above the grid. From here you can add or remove columns.

Review Asset Details

Tip: Depending on the scan settings, information might not be detected and included in the scan results. If the following scan settings are turned on, more accurate scan results can be expected:

- Perform Local Scanning
- Enable WMI Service
- Enable Remote Registry Service

You can review the advanced details information for assets by clicking the vertical ellipsis button for an asset, and then selecting **Go to Advanced Details**.

ASSETS Smart Group filter Last Updated filter	Asset Type	Filter by			
All Assets Last 90 days	♥ Workstation	т 🖸 т			•
Create New Asset					3 ≛ □ ♦ (
items (0 selected) Asset		Operating System	Asset Type 🔺		Last Updated
	WORKGROUP	Windows Server 2022 Standard	WorkStation	00	Feb 27, 2024, 4:18 PM
- manufi	1000	Red Hat Enterprise Linux 9.1	Workstation		View Details
	10000	CentOS Linux 7	Workstation	0	Go to Advanced Details.
	10000	Ubuntu 20.04.4 LTS	Workstation		-
	WORKGROUP	Windows 10 (964)	Workstation	8 🗖 🗢	Open Asset Details Report
	local	Windows	Workstation	0	Add to Password Safe
					Series Applian
					🍪 Scan Asset
					1 Delete

General Data

- Details & Attributes: Displays details about the asset such as: IP address, DNS name, domain, system name, Workgroup, date the asset was added and updated, the operation system, etc.
- Accounts: If the asset is linked to a managed system, the managed accounts on that system are listed in the grid.

Tip: Click the *View Managed System* link above the grid to view the advanced details for the managed system that is linked to the asset. To return to the advanced details for the asset, click the *View Asset* link.

- IIS Application Pools: Displays IIS Application Pools discovered on the asset on the last successful scan of the system.
- Databases: Displays the databases that are on the asset and allows you to add a database.
- Smart Groups: Displays the Smart Groups that the asset is associated with.

Scan Data

Note: By default, the current snapshot of scan data is selected. You can select other available snapshots to load the data for that date. Scan snapshots are purged from the database every 30 days.

- Ports: Displays the open port number, protocol, and description.
- Scheduled Tasks: Displays information about scheduled tasks for a particular asset, including task name, task to run, last time the task ran, schedule type, etc.
- Services: Displays discovered services, including name, description, state, logon details, startup type, and dependencies.
- Software: Lists all software discovered on the asset, including version.
- Users: Includes several attributes for user accounts, including: name, privileges, password age, last logon date, password expiry status, group membership, and status of the account, and allows you to filter by these attributes.

Create Assets Manually

Assets are added to BeyondInsight through discovery scans. Assets can also be manually added from the Assets page, as follows:

- 1. From the Assets page, select All Assets from the Smart Group filter dropdown.
- 2. Click + Create New Asset.
- 3. Complete the Create Asset form, and then click Create Asset.

Note: New assets created in any Smart Group other than **All Assets** might not appear under the selected Smart Group if the Smart Rule criteria is not met or until the Smart Rule processes. We recommend that you create new assets using the **All Assets** Smart Group.

Note: A manually added asset can have its basic information edited, such as Name, DNS Name, Domain, Asset Type, IP Address,, and Workgroup. Asset attributes cannot be edited at the individual asset level at this time. If this is necessary, Smart Rules can be used to modify the attributes associated with an asset.

Delete Assets

You can remove assets from the **Assets** grid immediately. Assets removed from the grid are deleted from the BeyondInsight database during the nightly data purge.

1. From the Assets page, select an asset or multiple assets.

Tip: You can use the filters above the grid to narrow down your list of assets to those targeted for deletion, and then press **ctrl + A** to select all assets in the grid to delete at once.

ASSETS							
Smart Group filter	Last Updated filter	Asset Type	Filter by				
All Assets	 Last 90 days 	 Workstation 	• O T				٠
Create New Asset	🚷 Scan Selected Assets	Û				C 🕹 🗆 🗘	5
6 items (6 selected) Asset	i i	Domain	Operating System	Asset Type 🔺	Solution	Last Updated	ſ
		WORKSROUP	Windows Server 2022 Standard	WorkStation	80	Feb 27, 2024, 4:18 PM	
		A 100 Million (1990)	Red Hat Enterprise Linux 9.1	Workstation	0.0	Feb 26, 2024, 7:12 PM	
		A 100 - 100	Cent05 Linux 7	Workstation	0	Feb 26, 2024, 7:12 PM	
-		A 100 - 100	Ubuntu 20.04.4 (75	Workstation		Feb 26, 2024, 7:12 PM	
						Feb 27, 2024, 1:56 PM	
		WORKSROUP	Windows 10 (NE4)	Workstation		Heb 27, 2024, 1:56 PM	

- Click the **Delete** button above the grid.
- 3. Click Delete on the confirm deletion message.

For more information on discovering assets using a discovery scan, please see: "Run Discovery Scans" on page 87.

Run Scans on Cloud Platforms in BeyondInsight

You can run scans on the following cloud types: Amazon EC2, Rackspace, IBM SmartCloud, Microsoft Azure, Microsoft Hyper-V, and Google Cloud.

Before you create a cloud connector, ensure the following requirements are in place.

Amazon EC2 Requirements

To use the Amazon EC2 connector, you must adhere to the following recommendation from Amazon:

• User accounts must have minimal permissions assigned (for example, describe instances).

The following minimum permissions are required to successfully enumerate a list of targets and run a scan:

- · elasticloadbalancing:DescribeLoadBalancers
- ec2:DescribeInstances
- ec2:DescribeInstancesTypes
- ec2:DescribeInstanceTypeOfferings
- ec2:DescribeRegions
- ec2:DescribeInstanceStatus
- ec2:DescribeImages

Azure Requirements

The Azure connector extracts virtual machines and load balancers from Resource Manager. You must create an Entra ID application.

You can either use the premade **Reader** role, or set up a new **Virtual Machine Contributor** role to the **Azure Resource Group**. You must choose where in the Azure hierarchy you are giving access — either as high as the subscription, or for a specific Resource Group. If you choose to set up a new role, the minimum permissions that must be granted are:

- · Microsoft.Resources/subscriptions/resourceGroups/read
- Microsoft.Compute/virtualMachines/read
- · Microsoft.Compute/virtualMachines/instanceView/read
- Microsoft.Network/loadBalancers/read
- Microsoft.Network/loadBalancers/frontendIPConfigurations/read
- · Microsoft.Network/networkInterfaces/read
- Microsoft.Network/networkInterfaces/loadBalancers/read
- Microsoft.Network/publicIPAddresses/read

For detailed instructions, please see <u>Create an Entra ID Application</u> at <u>https://learn.microsoft.com/en-us/entra/identity-</u> platform/howto-create-service-principal-portal.

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Google Cloud Requirements

• Key file: You must download a key file from the Google cloud instance. The key file is uploaded when you create the connector in BeyondInsight.



Hyper-V Requirements

Note: The steps required for successful authentication vary depending on your environment. These instructions are to connect a Hyper-Vi virtual machine on the CIMV2 namespace off root (not connecting to a Hyper-V server).

Set Firewall

- 1. Open Windows Firewall (Start > Control Panel > Security > Windows Firewall).
- 2. Select Allow a program or feature through Windows Firewall.
- 3. Check the Windows Management Instrumentation (WMI) box, and then check the **Public** box.
- 4. At this point you can send requests but receive unauthorized exceptions, whereas previously the host would not be found.

Add WMI user to COM Security

- 1. Start Component Services (using the Run command, enter dcomcnfg.exe).
- 2. Expand Component Services > Computers.
- 3. Right-click My Computer, and then select Properties.
- 4. Select the COM Security tab, and then in Access Permissions, click Edit Limits.
- 5. Add the username you are using for WMI, and then select Local Access and Remote Access.
- 6. Click OK.
- 7. In Launch and Activation Permissions, click Edit Limits.
- 8. Add the WMI user, and then select Remote Launch and Remote Activation.

Change WMI Permissions

- 1. Start the **Computer Management** snap-in by using the **Run** command, and entering **compmgmt.msc**.
- 2. Expand Services and Applications.

- 3. Right-click WMI Control, and then select Properties.
- 4. Click the Security tab.
- 5. Select Root\CIMV2, and then click Security.
- 6. Add the user, and then click Advanced.
- 7. Double-click the user, and then check the following boxes: Enable Account, Remote Enable, and Read Security.
- 8. From the Apply to list, select This namespace and subnamespaces.
- 9. Restart the WMI service.

Test Connection

Use WBEMTest on the local machine (not your Hyper-V server) to test your connection.

- 1. Run wbemtest.exe from the command prompt.
- 2. Click Connect.
- 3. Enter the namespace in the format \\HOST\root\CIMV2, where HOST is a computer name on a domain or an IP address.
- 4. Enter a username and password.
- 5. Click Connect.

Configure a Cloud Connector

- 1. In the BeyondInsight console, go to Configuration > General > Connectors.
- 2. In the Connectors pane, click Create New Connector.
- Provide a name for the connector, and then select a Connector Type from the list:
 - AWS Scan Target Collector
 - Azure Scan Target Collector
 - Google Cloud Scan Target Collector
 - Hyper-V Scan Target Collector
 - Rackspace Scan Target Collector
- 4. Click Create Connector.
- 5. Enter the connector information in the right pane:
 - For AWS cloud connections, required fields are: Region, Access Key ID, and Secret Access Key ID.

Instances associated with the region are displayed in the Connection Test Results section.

- For Azure, required fields are: Region, Client ID, Client Server, Tenant ID, and Subscription ID.
- For Google Cloud, required fields are Server (the region), Project Name (the project ID), and the Key File. Upload the key that you downloaded from the Google Cloud.
- Hyper-V server, required fields are: Server (IP address), Username, and Password.
- For Rackspace, required fields are Account Type, Username, and API Key.
- After you configure the connector, click **Test Connector** to ensure the connector works.
- 7. Click Create Connector.

After you create a cloud connector, you can run a scan and review the results to determine what cloud assets were discovered...

Cloud Connector Smart Groups

You can create Smart Groups based on the cloud connectors that you are using.

- 1. From the left menu, click Smart Rules.
- 2. Click Create Smart Rule.
- 3. Select a category, and then enter a name and description.
- 4. Under Selection Criteria, select Cloud Assets, and then select the cloud connector type to filter on (AWS, Azure, Hyper-V).
- 5. For AWS, click **Select AWS Instance Types** to pick specific instance types.
- 6. For AWS, Azure, and Google, check the Use Private IP Address box to scan internal IP addresses.
- 7. Under Actions, select Show asset as Smart Group.
- 8. Click Create Smart Rule.
- 9. Run a discovery scan on the smart group to see the cloud assets in reports.
- 10. On the Assets page, select the cloud connector, and then click the vertical ellipsis button to review the details.

Configure BeyondInsight AWS Connector

This section provides information on setting up an Amazon AWS connector, including details on the AWS configuration.

Set up a Policy

- 1. Log in to the AWS Management Console.
- 2. Select Identity & Access Management.
- 3. Select Policies from the Details menu.
- 4. Select Create Policy.
- 5. Select Create Your Own Policy.
- 6. Enter a policy name and description.
- 7. Paste the following JSON into Policy Document:

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Note: For **"Resource": "***", you must determine what JSON is required for your current needs. You may also need a condition with this, such as if you want only the **dev** group to have access to certain instances.

Grant Access to a Third Party (Optional)

Note: The ARN and External Name fields are for granting access to a third party. For more information, please see <u>How to</u> Use an External ID When Granting Access to Your AWS Resources to a Third Party at https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-user_externalid.html.

After you configure the AWS settings, you can create the AWS Scan Target Collector connector and Smart Group in the BeyondInsight console.

Note: When creating, editing, or viewing the connector, the **Cloud Scan Targets** grid only shows results immediately after a test is completed. The targets are not automatically loaded into the BeyondInsight UI each time the connector is viewed or edited.

Set BeyondInsight Options

Set Account Lockout Options

You can set lockout options, such as lockout threshold and duration.

- 1. Select Configuration.
- 2. Under Role Based Access, select Local Account Settings.
- 3. Under Account Lockout, set the following options:
 - Account Lockout Duration: Sets the number of minutes that the user is locked out after they hit the account lockout threshold. Once this time has elapsed, an attempt will be made to unlock the account during the user's next log in. Setting this value to 0 (zero) requires the account to be manually unlocked by an administrator.
 - Account Lockout Threshold: Sets the number of times a user can try their password before the account is locked out.
 - Account Lockout Reset Interval: Sets the number of minutes after an account is locked due to unsuccessful entry attempts before resetting the lockout counter.
 - Unlock account upon password reset request: When set to Yes, unlocks the account when the Forgot Your Password process is followed by the user. When set to No, the user may reset their password using the Forgot Your Password process, but the account remains locked until an administrator unlocks it.
 - Send lockout notification: When set to Yes, sends a notification to the email address configured in the Lockout Notification Recipients when any account becomes locked out.
 - Lockout notification recipients: Sets the email address where the lockout notification is sent. The Send Lockout Notification switch must be set to Yes for this to be relevant.
- 4. Click Update Account Lockout Options.

Set Account Password History

To set the account password history option:

- 1. Select Configuration.
- 2. Under Role Based Access, select Local Account Settings.
- 3. Under Account Password, set the following option:
 - Enforce Password History: Enter the number of passwords a user must create before an old password can be reused. Enter 0 to not enforce a password history. There are no restrictions on using past passwords when 0 is entered.
- 4. Click Update Account Password Options.

Configure the System Event Viewer

You can view recorded system events to assist with troubleshooting issues with BeyondInsight:

- 1. In BeyondInsight go to Configuration > Support > System Event Viewer.
 - This screen shows the events recorded and retained as per the System Event Settings.
 - The list of events can be filtered by **Event Time** and additional filters can be added.
 - On the right, above the column headings, there are icons to refresh and download the list of events, and to modify the appearance of the list, including adding or removing columns.
 - You can sort any column by clicking on the heading. An arrow appears to indicate whether the sort is ascending or descending. Click again to reverse the sort.
 - At the bottom of the list, you can page through the events and set the number to display per page.
- 2. To view the full log file entry for any event, click the i at the right end of the event row.

BeyondInsight	Configuration		Y Quick Navigation 🙆 🏛 🔤 System Event Settings
SYSTEM EVENT VIEWE	R		
Event Time filter	Fiber by		
Last 12 hours	т т		•
			2 ≛ □ ♥ 🖸
8492 Items Event Time	Level	Message	1 Source
jul 18, 2023, 5:16 PM	Warring	Encountered a parameter in the database that is not supported by	ommworker,smartrules
jul 18, 2023, 5:16 PM	Warning	Encountered a parameter in the database that is not supported by	omnivorker_smartrules
jul 18, 2023, 5:16 PM	Warning	Encountered a parameter in the database that is not supported by	omniworker_smartrules
jul 18, 2023, 5:16 PM	Warning	Encountered a parameter in the database that is not supported by	omniworker_smartrules
jul 18, 2023, 5:16 PM	Warning	Encountered a parameter in the database that is not supported by	omniworker_smartrules
jul 18, 2023, S:16 PM	Warning	Encountered a parameter in the database that is not supported by	onnivarker, smartnies
jul 18, 2023, 5:16 PM	Warning	Encountered a parameter in the database that is not supported by	omniworker_smartrules
jul 18, 2023, 5:16 PM	Warning	Encountered a parameter in the database that is not supported by	onnivasker_smartnies
jul 18, 2023, 5:16 PM	Warning	Encountered a parameter in the database that is not supported by	omniworker_smartrules 🚺 🔹

Configure Global Website Options

You can configure global website settings from the Configuration > System > Site Options page, including:

- Changing the Login page to include lists of domains and LDAP servers
- · Displaying the Forgot Password link on the Login page
- Displaying social media links on the Login and About pages
- Changing the refresh interval for Smart Rules
- · Configuring a pre-login banner to appear to users before logging into the site
- · Configuring session options
- Turning on language selection
- Enabling and disabling the requirement to provide an access key when creating, editing, or using discovery scan credentials.
- · Creating a global access key to be used for all discovery scan credentials

List Domains and LDAP Servers on the Login Page

Users can log in to the management console using Active Directory or LDAP credentials. When this site setting is enabled, the user can select a domain or LDAP server from the **Log in to** list. Domain and LDAP server information is based on the Active Directory and LDAP user group information.

*

Note: The **Log** in to list is only displayed on the **Login** page when there are either Active Directory or LDAP user groups created in the management console.

Tip: By default, the setting is enabled. If you do not want to display domains or LDAP severs on the *Login* page, disable the setting.

- 1. Under Login Page, uncheck the box to disable Show list of domains/LDAP servers on login page.
- 2. Click Update Login Page Options.

You must log out and log back in for the change to take effect.

Disable Forgot Password Link

Users logging into the console using Active Directory credentials cannot use the **Forgot Password** feature. In this scenario, you can disable the setting so the link is no longer displayed on the **Login** page.

- 1. Under Login Page, uncheck the box to disable Show Forgot Password link on login page.
- 2. Click Update Login Page Options.

You must log out and log back in for the change to take effect.

Disable Social Media links on the Login and About pages

By default, links for Facebook, Twitter, LinkedIn, and YouTube are available at the bottom of the Login page and also on the About page.

- 1. Under Login Page, uncheck the box to turn off Show social media links on login and about pages.
- 2. Click Update Login Page Options.

You must log out and log back in for the change to take effect.

Change the Refresh Interval for Smart Rules

Scans can run more efficiently when Smart Rules are set to refresh at longer intervals.

- 1. Under General, set the number of minutes for Maximum Smart Rule refresh frequency for asset updates. The default is 60.
- 2. Click Update General Options.

Configure a Pre-Login Banner

You can configure a banner to appear to all users upon access to the site.

- 1. Under Pre-Login Banner, check the Show banner option to enable it.
- 2. Provide a title and message, and then click Update Pre-login Banner Options.

Configure Session Options

You can configure the following session related options:

- Session timeout
- · Notification time before session timeout
- · Minimum interval between session extension requests
- User Quarantine Cache refresh interval
- 1. Under Session, set the following:
 - Session timeout: Sets the amount of time for session inactivity before the session times out. Session timeout can be set between 2 and 60 minutes, with the default set at 20 minutes.
 - Notification time before session timeout: Sets the amount of time, prior to the session timing out due to inactivity, that the system notifies the user that their session will timeout shortly. This value must always be less than the session timeout value.
 - Minimum interval between session extension requests: Sets the number of minutes that pass between session extension requests. In general, this setting should always be set low and should always be less than the session timeout value. The only time you should change this from the default of three minutes is if there are a severely high number of simultaneous users and session refresh requests to the server causing high loads.
 - User Quarantine Cache refresh interval: Account Quarantine is a feature that can be set at the user account level that prevents a user from logging on the console or API and also terminates any active sessions immediately. It is a preventative measure taken when suspicious activity is detected. The User Quarantine Cache refresh interval sets the number of seconds that pass before the database is updated with the most recently discovered user accounts from the quarantine cache. The quarantine is only applied to the user account after the database is updated. The user can remain logged on and sessions remain active up until the refresh interval time passes, and the database is updated with a **Quarantine** status. The default value is **600** seconds. The maximum value is **1200** seconds.
- 2. Click Update Session Options.

depository institution. It is not authorized to accept deposits or trust accounts and is not licensed or regulated by any state or federal banking authority.

Enable Language Selection (Localization)

The management console can be viewed in the following languages:

- German
- English (US)
- Spanish (LA)
- French (FR)
- French (CA)
- Korean
- Japanese
- Portuguese (BR)

By default, the **Language** list is not displayed in the BeyondInsight console. Once localization is enabled, the **Language** list may be accessed from the **Profile and preferences** icon in the top right corner of the console and also from the bottom of the **Login** page.

- 1. Under Localization, check the box to enable the Show language picker option.
- 2. Click Update Localization Options.

You must log out and log back in for the change to take effect.

Configure Global Discovery Credential Access Keys

When the **Require a Discovery Credential Key** option is enabled, all discovery credentials require the global credential access key. Enable the option, and then enter a **Global Credential Key**.

Note: You may still set a custom key on individual credentials to something other than the default.

When the **Require a Discovery Credential Key** option is disabled, all discovery credentials do not require an access key and all previously configured credential keys (including custom keys) are deleted.



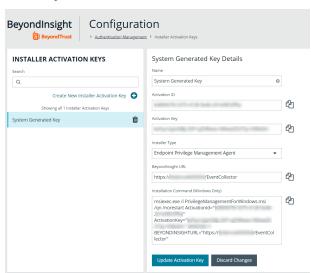
Note: These settings apply to ALL discovery credentials for ALL tenants.

Configure OAuth Authentication for Agents Using Installer Activation Keys

Using BeyondInsight 24.1 or a later version, you can use installer activation keys to leverage OAuth authentication when configuring the integration between BeyondInsight and Endpoint Privilege Management (EPM) agents that support OAuth communications. Prior to this, the integration between EPM agents and BeyondInsight was certificate-based only. While certificate-based authentication is still available, the addition of OAuth authentication greatly simplifies the setup process.

Note: OAuth authentication using Installer Activation Keys is planned for Discovery Agents in a future release of BeyondInsight.

- 1. Go to Configuration > Authentication Management > Installer Activation Keys.
- 2. To use the key generated by the system:
 - Select System Generated Key.
 - Copy the installation command and use it when deploying the agent.
- 3. To create a new installer key:
 - Click Create New Installer Activation Key +.
 - Enter a name for the key.
 - Click Create Activation Key.
 - Copy the installation command and use it when deploying the agent.



Note:

- A maximum of 10 installer activation keys can be present at any one time, including the system generated key.
- Keys can be deleted and new ones can be created as long as no more than 10 keys exist at once.
- Once the endpoint communication is established with BeyondInsight, the activation key is no longer required. We recommend deleting it.
 - Having deleted it, if an endpoint stops working and has to be configured again, you must create a new installer activation key before uninstalling and reinstalling the client.

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Configure a Claims-Aware Website to Log In with SAML

You can configure a claims-aware website to bypass the current BeyondInsight login page and authenticate against any configured Federated Service that uses SAML to issue claims.

The claims-aware website is configured to redirect to a defined Federation Service through the **web.config**. Upon receiving the required set of claims, the user is redirected to the existing BeyondInsight website. At that point, it is determined if the user has the appropriate group membership to log in, given the claims associated with them.

If users attempting to access BeyondInsight have group claims matching a group defined in BeyondInsight, and the group has the **Full Control** permission to the **Management Console Access** feature, the user bypasses the BeyondInsight login screen. If the user is new to BeyondInsight, they are created in the system using the same claims information. The user is also added to all groups they are not already a member of that match in BeyondInsight, and as defined in the group claim information.

If the user is not a member of at least one group defined in BeyondInsight or that group does not have the **Full Control** permission to the **Management Console Access** feature, they are redirected to the BeyondInsight login page.

Create a BeyondInsight Group

Create a BeyondInsight group and ensure the group is assigned the **Full Control** permission to the **Management Console Access** feature.

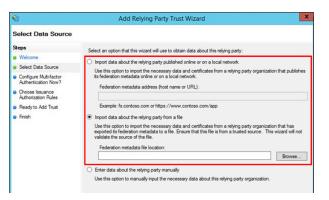
Add Relying Party Trust

After BeyondInsight is installed, metadata is created for the claims-aware website. Use the metadata to configure the relying party trust on the Federation Services instance.

The metadata is located in the following directory:

<Install path>\eEye Digital Security\Retina CS\WebSiteClaimsAware\FederationMetadata\2007-06\

When selecting a **Data Source** in the **Add Relying Party Trust** Wizard, select the **FederationMetadata.xml** generated during the install.



Set Up Claim Rules

Note: Claims rules can be defined in a number of different ways. The example provided is simply one way of pushing claims to BeyondInsight. As long as the claims rules are configured to include at least one claim of outgoing type **Group** (with **Group** claim matching exactly what is in BeyondInsight) and a single outgoing claim of type **Name**, then BeyondInsight has enough information to potentially grant access to the site to the user.

Edit Rule - Bl	LogonGroupMembership1
You can configure this rule to send a claim ba- group that the user is a member of, and specify	sed on a user's Active Directory group membership. Specify the y the outgoing claim type and value to issue.
<u>C</u> laim rule name:	
BILogonGroupMembership1	
Rule template: Send Group Membership as a (Claim
User's group:	
ADFS\BILogonGroup	Browse
Outgoing claim type:	
Group	~
Outgoing name ID format:	
Unspecified	~
Outgoing claim value:	
AD FS Users	

Supported Federation Service Claim Types

Outgoing Claim Type	Outgoing Claim Type	Mapping to BeyondInsight User Detail
http://schemas.xmlsoap.org/claims/Group	Required	Group membership
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	Required	User name
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	Optional	Surname
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	Optional	First name
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress	Optional	Email address

Claims-Aware SAML

The following procedure demonstrates how to set up a claims-aware website using the Windows Identity Foundation (WIF) SDK.

- 1. Start the Windows Identity Foundation Federation Utility.
- 2. On the **Welcome** page, browse to and select the **web.config** file for **BeyondInsight Claims Aware** site. The application URI automatically populates.
- 3. Click Next.
- 4. Select Using an existing STS.
- 5. Enter Root URL of Claims Issuer or STS.
- 6. Select Test location. FederationMetadata.xml is downloaded.
- 7. Click Next.
- 8. Select a STS signing certificate option, and then click Next.
- 9. Select an encryption option, and then click Next.

STS. Specify the WS-Federation metadata docu	nodified to trust and accept the claims ment location for the existing STS.	source by an entening
TS WS-Federation metadata document location		
ttps://adfsaccount.adatum.com	Browse	Test location
Example: https://fabrikam.com/FederationMetad	ata/2007-06/Federation Metadata xml	

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- 10. Select the appropriate claims, and then click Next.
- 11. Review the settings on the Summary page, and then click Finish.

Disable Forms Login

In environments where SAML, smart card, or claims-aware is configured, we recommend enabling the **Disable Forms Login** authentication option to disallow users from using the standard login form in BeyondInsight.

To disable forms login for existing users, enable this option directly on a user account as follows:

1. Click the vertical ellipsis for the user account, and then click Edit User Details.

2. Under Authentication Options, check Disable Forms Login to enable the option.

Note: Please contact BeyondTrust Support for assistance if you need to bulk-apply this setting to existing accounts.

Edit User	
<u>View User Details</u>	
Identification	
First Name	
	0
Last Name	
Banka.	8
Email	
	0
Username	
	0
Change Password	
Contact Information	
Work Phone	
Home Phone	
Mobile Phone	
User Status	
Activation Date	
М О	
Expiration Date	
*** • • • • • • • • • • • • • • • • • •	
✓ User Active	
Account Locked	
Account Quarantined	
Authentication Options 🛛 😮	
Override Smart Card User Princip	oal Name
	oal Name
Override Smart Card User Princip Disable Forms Login Two-Factor Authentication	oal Name
Override Smart Card User Princip	oal Name
Override Smart Card User Princip Disable Forms Login Two-Factor Authentication	oal Name

To disable forms login globally for newly created directory accounts:

1. Navigate to Configuration > Authentication Management > Authentication Options.

2. Under Forms Login Options, check the Disable Forms Login for new directory accounts option to enable it.

FORMS LOGIN OPTIONS

Disable Forms Login should only be used in environments where SAML, Smart Card or Claims-aware is configured. Turning this option on will disallow users from using the standard login form in BeyondInsight.

Disable Forms Login for new directory accounts

Update Forms Login Options

Integrate the BeyondInsight API into Other Applications

You can integrate part of BeyondInsight's API into your applications using an API key.



Note: The API Registration page is only available to BeyondInsight administrators.

The ID and key are generated by BeyondInsight.

- 1. Select Configuration > General > API Registrations.
- 2. Enter a name for the registration.
- 3. Click Create New API Registration to create a new application registration.

BeyondInsight generates a unique identifier (API Key) that the calling application provides in the authorization header of the web request. The API Key is masked and can be shown in plain text by clicking the **Show Key** icon next to the **Key** field. The API Key can also be manually rotated, or changed, by clicking the circular arrow.

Note: Once the key has been changed, any script using the old key receives a "401 unauthorized" error until the new key is used in its place. Read access and rotation of the key are audited.

- 4. To configure a new registration or modify an existing one, select the registration, and then set the Authentication Rule Options.
 - Client Certificate Required: If enabled, a client certificate is required with the web request. If not, client certificates are ignored and do not need to be present. A valid client certificate is any client certificate signed by a certificate authority trusted by the server on which BeyondInsight resides.
 - User Password Required: If enabled, an additional authorization header value containing the RunAs user password is
 required with the web request. If not enabled, this header value does not need to be present and is ignored if provided.
 Square brackets surround the password in the header.

Authorization=PS-Auth key=c479a66f...c9484d; runas=doe-main\johndoe; pwd=[un1qu3];

- Verify PSRUN Signature: The PSRUN signature is an extra level of authentication. It is computed from the factors using a shared secret between the client and server. PSRUN sends the signature as part of the header during its API request. If enabled, the server recomputes the signature during factor validation and compares it against the one sent by the client. If the signatures match, the client's identity is considered verified. The signature effectively keeps the client in sync with the server. Changing the secret on the server requires the client to be rebuilt and guarantees that out-of-date clients cannot authenticate.
- On the Details page, click Add Authentication Rule to create authentication rules. At least one IP rule, PSRUN rule, valid source IP address (IPv4 or IPv6), IP range, or CIDR from which requests can be sent for this API Key is required. Enter one IP address, IP Range, or CIDR per line.

X-Forwarded-For rules can also be created by providing a valid source IP address (IPv4 or IPv6), an IP range, or CIDR. In a loadbalanced scenario, IP Authentication rules are used to validate the load balancer IP(s), and the X-Forwarded-For header is used to validate the originating client IP. Existing rules cannot be changed from an IP Rule to a X-Forwarded-For Rule or vice-versa. If an X-Forwarded-For rule is configured, it is required for the HTTP Request. If the X-Forwarded-For header is missing, the request fails with a 401 unauthorized error.

6. Click Create Rule.

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