BeyondTrust

Identity Security Insights Connectors Guide 24.04

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Identity Security Insights Connector Administration

Identity Security Insights connectors allow you to integrate third- and first-party identity and account information with your BeyondTrust Insights console. The Insights platform uses this data to build identity analytics, detect identity security threats, and make security recommendations.

Once configured, Identity Security Insights automatically schedules and pulls data from your enabled connectors, and updates the console's dashboards and reports with new or changed recommendations and detections.

Available Connectors

When logged in to your Insights console, a list of currently available connectors can be found by selecting your desired tenant from the home screen, clicking **View Connectors**, and selecting **Available**.

- Amazon Web Services
- Github
- Google Cloud Platform
- Microsoft Azure
- Microsoft Active Directory
- Okta
- Password Safe On-Prem and Cloud
- PingOne
- Privilege Management Cloud
- Privileged Remote Access Cloud
- Remote Support Cloud

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Get Started with Insights Connectors

Identity Security Insights connectors represent integrations with both first- and third-party software. The connectors dashboard allows you to add new connectors, manage or remove existing connectors, and view each connector's status and current connectivity.

After logging in, the connectors dashboard is available by selecting your desired tenant from the home screen, and clicking **View Connectors** in the tenant console.

Note: For organizations that wish to restrict access to Insights by IP address, the following public IP addresses must be allowed:

- 54.163.153.193
- 54.225.135.48
- 50.16.236.14

Manage Existing Connectors

From the connectors dashboard, existing connectors can be managed from the **Configured** tab. The list of existing connectors provides additional information regarding connection status and connectivity, as well as high-level information like connector type, name, and activity.

Connection Options

Clicking on the ellipsis beside any connector provides a list of management options.

- View Connector displays the connector's detailed information.
- Turn Off Connector pauses any scans and new recommendations. Connectors which have been turned off can be turned on again from the same menu.

Note: The Microsoft Active Directory connector cannot be turned off from this menu.

• Delete Connector removes the connector entirely. Deleted connectors must be added again from the Available Connectors tab.

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Connectivity and Status

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Connectors with a Status set to On actively scan and provide recommendations for the source service. Connectors with a status of Off have been paused, and do not scan the service or provide new recommendations until manually turned on.

Connectivity displays whether or not the connector is appropriately configured.

- · Connected: The connector is appropriately configured, and is able to scan and provide recommendations for the source service.
- · Warning: The connector is ingesting data, but some connector requests are failing. Additional information is kept in the connector's activity history page.
- · Failed: The connector is unable to scan or communicate with the source service. Click Failed to go to the connector's activity history page.
- Connector Off: The connector has been paused from scanning and providing recommendations.
- Pending Agent Registration: In the case of Microsoft Active Directory, the connector is waiting to be registered with the installer.

Connection Details

Clicking View Connector from the Configured connectors list displays detailed information for the selected connector.

The connection **Overview** displays high-level information about the selected connector. From this window, the connection name can be edited, and the connector can be turned off, on, or deleted.

Settings allows you to review the connection information for your selected connector. Depending on the connector type, you can update configuration requirements such as the connector's domain, API keys, usernames, authentication rules, and other credentials.

Activity History displays a list of the date and time of any updates or changes made to the connector. For connectors with a connectivity status of failing or warning, expand the Activity Timeline entry to view a summary of the error to aid in troubleshooting.

Switch Between BeyondTrust Applications

When Identity Security Insights is connected to a BeyondTrust application, the Apps icon appears in the upper right of the navigation bar. The apps menu allows you to switch between connected BeyondTrust applications, and will appear in the same place in the connected application itself. The menu is automatically removed if all BeyondTrust applications are removed from Identity Security Insights, or if the connection has not been active in 60 days.

To switch between applications, click on Apps in the navigation bar, and click on the desired application. Re-entering credentials may be necessary depending on the login configuration of the connected application.

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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.

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2. Select Create App Integration. 3. Choose the AH Services ention.	
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View Available Connectors

New connectors can be added from the Available tab.

Clicking **Add** beside any connector type begins the process of adding a new connector of that type. You can add multiple connectors of the same type to a single tenant.

Connect Identity Security Insights to Amazon Web Services

Add an AWS Connector

- Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside AWS.
- 2. In the connection panel, enter a human-readable name for your AWS connector.
- Use the provided AWS Organizations link to log in to your AWS account. This link directs you to the AWS Organizations > AWS accounts page.

Under the **Root details** section, copy the **ID**. You use this ID in the next step.

WS Organizations 🗲 AWS accounts 🗲 Root
Root
oot is the parent organizational unit (OU) for all accounts and other OUs in your organization. When you apply a policy to the root, it applies to ery OU and account in the organization. Learn more 🖸
Root details
ID root-id
ARN amawsorganizations:00?root/00/root-id
Enabled policy types (manage policy types) -

Note: To use the template provided by the AWS connector, a credit card must be associated with your AWS account.

A **CloudFormation** template link is provided in the Insights connection panel. This template creates an IAM role and policy for Insights to use when accessing your AWS resources. To create a new stack from this template, follow the steps below:

- 1. Click the **CloudFormation** link to prepopulate the Create Stack wizard with the required parameters, including the URL of the Insights CloudFormation template.
- 2. In the new **CloudFormation** window, paste the ID you obtained in Step 2 into the **RootOrgUnitId** field in the **Parameters** section.
- 3. Confirm the **BtConnectorExternalID** field in the **Parameters** section is the same as External ID shown in the Insights Connection panel.
- 4. Under **Capabilities**, select [*l acknowledge that AWS CloudFormation might create IAM resources*].
- 5. Click **Create Stack**. It can take several minutes to finish building your new stack.
- 6. Once your stack has been created, navigate to the **Outputs** tab in AWS CloudFormation.
 - Copy the ARN value provided in the Outputs tab, and paste it into the ARN field within the Identity Security Insights connection panel.

Parameters are defined i	a your template and allow you to input custom values when you create or update a stack.
AwsRegion	
The region to which the	equired AWS resources will be deployed for each of the AWS Organizations child AWS Accounts
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7. Click Create Connector.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

Connect Identity Security Insights to Microsoft Azure

Run the Microsoft Azure Connector Installation Script

1. Within the Insights **Tenant** dashboard, navigate to **Menu > Connectors > Available** and click **Create Connector** beside **Microsoft Azure**.

Note: To use the script provided by the Microsoft Azure connector, a credit card must be associated with your Azure instance.

- 2. The Azure connector provides a script to retrieve the tenant ID, directory name, client ID, and client secret. To run the script:
 - Log in to Microsoft Azure as a user with Global Administrator privileges.
- Cog Analytics

 Diagnostic settings

 Administrator (pour-admin-email) can manage access to all Azure subscriptions and management groups in this

 Workbooks

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 Yes 1/2

 Yes 1/2
- Within Microsoft Entra ID, navigate to Properties, and toggle Access management for Azure resources to Yes. This can be switched back after running the script.
- 3. The provided script can be run either locally, or within the Azure Cloud Shell from your Azure Dashboard. Select an option from the dropdown menu, and follow the instructions below for your chosen installation method.

Install via Cloud Shell

- 1. From the Azure portal, launch Cloud Shell.
- 2. Select **PowerShell** from the shell environment dropdown.
- Paste and run the resulting script into the shell environment. Once complete, the tenant ID, directory name, client ID, and client secret are displayed for use in the following step.



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Install via Local Shell

- 1. Ensure you have installed Azure PowerShell on Windows. For more information, see the <u>Azure PowerShell documentation</u> at https://learn.microsoft.com/en-us/powershell/azure/install-azps-windows.
- Once installed, open PowerShell and log in to Azure by running the command Connect -AzAccount. Enter your login credentials in the following window.
- 3. Ensure you are connected to the correct Azure tenant and directory, and run the following commands:
 - a. Get-AzTenant to see all the directories you have access to.
 - b. Set-AzContext -Tenant "TenantID", where TenantID is the ID of the directory where the script will be installed.
 - c. **Get-AzContext** to verify your selection.
- 4. Run the resulting script to retrieve the Tenant ID, Directory Name, Client ID, and Client Secret. The Client Secret will only be shown temporarily.

Note: The Microsoft Azure connector can also be configured manually. To configure your connector without running the provided script, the tenant ID, directory name, client ID, and client secret must be provided from your Azure instance.

Log in to the Azure portal and retrieve the following:

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- Tenant ID and Directory Name: Navigate to Microsoft Entra ID > Manage > Properties.
- Client ID and Client Secret: Navigate to Microsoft Entra ID > App Registrations, and then select the application associated with Insights. Click Certificates & secrets to retrieve the client ID and create a new client secret.

Create the Microsoft Azure Connector

- 1. In the Identity Security Insights Connectors dashboard, provide the following information to connect to Azure:
- Name: A human-readable name for your Microsoft Azure connector.
- Tenant ID: The tenant ID output by the Cloud Shell script.
- Directory ID: The directory ID output by the Cloud Shell script.
- Client ID: The client ID output by the Cloud Shell script.
- Client Secret: The client secret output by the Cloud Shell script.
- 2. Click Create Connector.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

Create Microsoft Azure Connector	×
Connect your Microsoft Azure to bring in users and logs so we can help identify and remediate issues. You need to complete all 6 steps to connect.	î
Step 1	
Name the connector.	
Name	
Step 2	
Log in to <u>Microsoft Azure</u> 🛃 as a user with Global Administrator privileges. In	
Microsoft Entra ID, go to Properties and toggle Access management for Azure resources to Yes. You can switch back after running the script.	
Step 3	
Choose an installation method.	
Installation Method	
Select an installation method 🔹	
Step 4	
A script will be available when you select an installation method.	
Step 5	
Copy and paste the Tenant ID, Directory Name, Client ID, and Client Secret from the script in to the fields below.	
Tenant ID	
Directory Name	
Client ID	
Client Secret	
Show	

Connect Identity Security Insights to GitHub

Configure a New GitHub App

Note: A GitHub organization owner is required to install a new GitHub App.

- 1. Log in to GitHub as an organization owner.
- 2. In the upper-right corner, select your profile photo, and click **Your** organizations.
- 3. To the right of the organization where the Insights app will be installed, click **Settings**.
- 4. In the left sidebar, click **Developer settings**, and select **GitHub Apps**.
- 5. Click New GitHub App.
- 6. Provide the following information to create your new app:
 - GitHub App name: A unique name for your new application.
 - Homepage URL: https://app.beyondtrust.io
- 7. Under Webook, uncheck Active.
- Under Repository permissions, set the following resources to Read only:
 - Administration
 - Codespaces lifecycle admin
 - Metadata
 - Webhooks
- 9. Under **Organization permissions**, set the following resources to **Read only**:
 - Administration
 - · Blocking users
 - Custom organization roles
 - · Custom repository roles
 - Events
 - Members
 - Webhooks
- 10. Under Where can this GitHub App be installed?, select Only on this account.
- 11. Click Create GitHub App.
 - GitHub generates a new App ID. Save this for use when creating your Insights GitHub connector.
- 12. Under Private Keys, click Generate a private key.
 - A PEM file downloads to your local system. Save the contents of this file for use when creating your Insights GitHub connector.





- 13. In the left-hand menu, navigate to the Settings page, and click Install App.
- 14. Click **Install**. Review your settings and permissions, then click **Install** again.
- 15. Copy the URL string from your web browser's address bar. Save this for use when creating your Insights GitHub connector.

Add a GitHub Connector

- Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside GitHub.
- 2. In the connection panel, enter a human-readable name for your GitHub connector.
- 3. Provide the following information from your GitHub app:
 - App ID: The app ID generated in step 11.
 - **PEM Key:** The contents of the PEM file downloaded in step 12.
 - Installed GitHub App URL: The URL string saved in step 15.
- 4. Click Create Connector.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

Create Github Connector
Connect your GitHub Organization to bring in event logs and users so we can identify and help remediate issues. You need to complete all 5 steps to connect.
Before You Start
An Organization owner is required to install the GitHub App.
Step 1
Install and configure the GitHub App using the <u>setup guide</u> 🔀.
Step 2
Name the connector.
Name
Step 3
Provide the GitHub App ID.
App ID
Step 4
Copy the full private key for the GitHub app. Paste below.
PEM Key
Step 5
Enter the GitHub URL below that contains your organization name and app installation ID.
Installed GitHub App URL
Example: https://github.com/organizations/Sample-Org-Name/settings/installations/123456789
Create Connector Discard

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Connect Identity Security Insights to Google Cloud Platform

Identity Security Insights requires a service account to access information in your Google Cloud Platform organization. A service account can be created manually, via the Google Cloud Console, or via a script for Google Cloud Shell provided by Identity Security Insights.

Manually Configure a Google Cloud Platform Connector

Configure Google Cloud Platform

Create a New Project

- 1. Within the Google Cloud Console, click the project selector in the top navigation bar, and select your organization.
- In the project window, click New Project.
- 3. Enter a human-readable name for your project.
- 4. Click Create.

Enable Required Services

- From your new project's navigation menu, go to APIs & Services > Library.
- 2. Search for and enable the following APIs:
 - Cloud Asset API
 - Cloud Logging API
 - Cloud Resource Manager API

Note: Ensure all projects within your organization have the same APIs enabled.

Create a Service Account

- 1. From the navigation menu, go to IAM & Admin > Service Accounts.
- 2. Click Create Service Account.
 - Enter a human-readable display name for your new service account.
 - · Enter a unique service account ID.
- 3. The Google Cloud console will generate an email address for this service account. This email address will be required in the next step.
- 4. When finished, click Done.

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Assign Service Account Roles

- 1. In the top navigation toolbar, click the project selector, and select your organization.
- 2. Navigate to IAM & Admin > IAM, and click Grant Access.
- In the New principals field, enter the service account email generated by Google Cloud.
- 4. Under Assign roles, select the following roles:
 - Cloud Asset Viewer
 - Security Reviewer
- 5. When finished, click Save.

Generate a Key for the Service Account

- In the top navigation toolbar, click the project selector, and select your new project.
- From the navigation menu, go to IAM & Admin > Service Accounts, and select the created service account.
- 3. Click the Keys tab.
- 4. Click Add Key > Create new key.
 - Select JSON as the key type.
 - Click Create.
- 5. A new key will be automatically downloaded to your local system. Ensure you keep the downloaded JSON key in a secure location.

Create the Google Cloud Platform Connector

- 1. Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside Google Cloud Platform.
- 2. In the connection panel, enter a human-readable name for your GCP Connector.
- 3. Select **Manual Configuration** from the installation method drop-down menu.
- 4. Provide the following information about your service account:
 - Organization ID: Your organization ID can be found in the Google Cloud Console by selecting your organization from the drop-down menu, and navigating to IAM & Admin > Settings.
 - Service Account Key: The JSON key created for your service account.
- 5. Click Create Connector.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.



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+±	IAM	DETAILS PERMISSIONS KEYS LOGS
Θ	Identity & Organization	Keys
٩	Policy Troubleshooter	Service account keys could pose a security risk if compromised. We recommend you avoid downloading service account keys and instead use the Workload
G,	Policy Analyzer NEW	Create private key for
	Organization Policies	Add a new key Block senses Downloads a file that contains the private key. Store the file secure/y because this
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æ	Identity-Aware Proxy	

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Create a GCP Connector with Google Cloud Shell

Create the Google Cloud Platform Connector

- 1. Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside Google Cloud Platform.
- 2. In the connection panel, enter a human-readable name for your GCP Connector.
- 3. Select Google Cloud Shell from the installation method drop-down menu.

Configure Google Cloud Platform

- 1. In a new window, sign into Google Cloud Platform Console.
- Click Activate Cloud Shell in the upper-right navigation menu to open the command line interface.

Note: If you are prompted to authorize an action after running a command, authorize it. The command may need to be re-run after authorization.

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Dashboard												
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Retrieve the Organization ID

1. Run the following command to retrieve your organization ID:

gcloud organizations list

2. Paste your organization ID in the Organization ID field in Identity Security Insights.

Create a New Project

1. Run the following command to create a new project, replacing *Project_ID* with a unique ID of your choosing:

gcloud projects create <Project ID>

Set the Current Project

1. Run the following command to set your current project, replacing <Project_ID> with the ID you created:

gcloud config set project <Project_ID>

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Enable Required Services

1. Run the following command to enable necessary Google Cloud services:

```
project_ids=$(gcloud projects list --format json | jq -r '.[].projectId')
for project_id in $project_ids; do
gcloud services enable cloudresourcemanager.googleapis.com --project "$project_id"
gcloud services enable cloudasset.googleapis.com --project "$project_id"
gcloud services enable logging.googleapis.com --project "$project_id"
done
```

This command enables the following APIs for all projects:

- Cloud Asset API
- Cloud Logging API
- Cloud Resource Manager API

Create a Service Account

1. Run the following command to enable create a new service account, replacing <Service_account_ID> with a unique ID:

```
gcloud iam service-accounts create <Service account ID>
```

Assign Service Account Roles

 Run the following command to assign necessary roles to your new service account, replacing < Organizations_ID>, < Service_ account_ID>, and < Project_ID> with the values set in earlier steps:

```
gcloud organizations add-iam-policy-binding <Organizations_ID> --role
'roles/iam.securityReviewer' --member serviceAccount:<Service_account_ID>@<Project_
ID>.iam.gserviceaccount.com
gcloud organizations add-iam-policy-binding <Organizations ID> --role 'roles/cloudasset.viewer' -
-member serviceAccount:<Service_account_ID>@<Project_ID>.iam.gserviceaccount.com
```

Generate a Key for the Service Account

1. Run the following command to generate a new key, replacing <*Service_account_ID*> and <*Project_ID*> with the values set in earlier steps:

```
gcloud organizations add-iam-policy-binding <Organizations_ID> --role
'roles/iam.securityReviewer' --member serviceAccount:<Service_account_ID>@<Project_
ID>.iam.gserviceaccount.com
gcloud organizations add-iam-policy-binding <Organizations ID> --role 'roles/cloudasset.viewer' -
-member serviceAccount:<Service_account_ID>@<Project_ID>.iam.gserviceaccount.com
```

2. Copy the full JSON output, and paste it in Service Account Key field in Identity Security Insights.

When finished, click Create Connector.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

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Connect Identity Security Insights to Microsoft Active Directory

Prerequisites

The Microsoft Active Directory connector must be installed and configured on a member server in your Active Directory. The installer is provided for your tenant after you have completed the initial configuration.

Ensure the following requirements are met prior to installation:

- Member Server: The installer must be run on a Windows Server joined to the domain you would like Identity Security Insights to access.
- Service Account: A provisioned on-premises service account for the Active Directory connector to use. This service account requires the following permissions:
 - Domain User Group
 - Event Log Reader Group
 - Read access to the 'Deleted Objects' OU
 - Registry read access to the ADCS Enrollment Server for the following registry locations:
 - SYSTEM\\CurrentControlSet\\Services\\CertSvc\Configuration\\{servername}\\PolicyModule\\CertificateAuthority_ MicrosoftDefault.Policy
 - SYSTEM\\CurrentControlSet\\Services\\CertSvc\\Configuration\\{servername}
- Connectivity: The member server must be able to:
 - Connect to Active Directory using SSL and TCP 636.
 - If SSL/636 are not available, the installer can optionally be configured to use TCP 389.
 - · Connect outbound to Identity Security Insights via the following URLs:
 - Authentication: https://login.beyondtrust.io
 - Events: https://ingest.beyondtrust.io
- The following firewall rules on the Domain Controller should allow for communication from the member server to facilitate event log collection:
 - COM+ Network Access (DCOM-In)
 - Remote Event Log Management (NP-In)
 - Remote Event Log Management (RPC)
 - Remote Event Log Management (RPC-EPMAP)
 - Windows Management Instrumentation (ASync-In)
 - Windows Management Instrumentation (DCOM-In)
 - Windows Management Instrumentation (WMI-In)

Create the Microsoft Active Directory Connector

1. Within the Insights **Tenant** dashboard, navigate to **Menu > Connectors > Available** and click **Create Connector** beside **Insights Collector**.

- 2. In the **Connection** panel, enter a human-readable name for your Microsoft AD connector, and click **Create Connector** to continue.
- 3. Download and run the installer provided on the following page.
- 4. Enter the installation key generated by Insights when prompted by the installer. *Do not close the connector before you have entered these credentials.*
- 5. Once your credentials have been provided to the installer, click **Close Key**.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

Update or Reinstall the Active Directory Connector

The Identity Security Insights Active Directory connector updates automatically when a new version becomes available, without any need for manual installation.

To redownload the Active Directory installer, navigate to **Menu > Connectors > Configured**, and click on the ellipsis to the right of your Active Directory connector. Click **View Connector**, and navigate to **Settings**.

Create Insights Collector	×
Connect your Microsoft Active Directory and Password Safe applications to bring in users, groups, assets, and security log events.	
Before You Start	
There are requirements for different applications.	
Microsoft Active Directory setup guide 🔀	
Password Safe setup guide 🔀	
Step 1	
Create the connector.	
Connector Name	
Creating the connector also creates an installation key. The key and the installer will be available on the next page. The key expires after 30 days.	
Create Connector Discard	

Nenu 🗄 POTestTenant	v	# Apps	@ Help	e Profile
Home > Connectors > Settings				
Settings				
Overview	INSIGHTS COLLECTOR: YOUR-COLLECTOR			
Settings	Machine ID If you have not downloaded the installer or you do not have your old copy,			
Activity History	n you nave ha souriaudou une insutan ou jou au han tare you au suyr. <u>Souricos III printaire</u> , S. and the setup guides for instructions on each connector. <u>Microsoft Active Directory setuo raide</u>			
	Password Safe setup guide 💋			

The Active Directory settings page allows you to download the installer

created during your initial connector setup. If you've already used the installation key provided during setup, you will need to create a new connector.

Information Collection

To report to the Identity Security Insights console, the installed Microsoft Active Directory connector collects a variety of information as part of its operation.

Note: The Microsoft Active Directory connector collects information from Active Directory, and sends this information Insights for analysis. Some security solutions may detect this as an attack pattern after the connector is installed.

Security alerts you may see include:

- Suspicious LDAP search
- A service account is authenticating over Kerberos
- A device is sending data externally

From the domain controller event log, which is polled every 10 minutes, Insights collects or accesses the following:

- · The Windows event log (read by the connected domain controller)
- EventIDs from the security log: 4768, 4769, 4770, 4771, 4776, 4777
- The last collection date for each pull (to collect new events)

From the AD inventory, which is polled every 30 minutes, Insights collects or accesses the following:

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- · Active Directory object metadata
- Important Access Control Lists (ACLs)
- Objects:
 - user
 - groups
 - computer
 - containers
 - organizational units (OUs)
 - domain
 - group policy objects (GPOs)
 - Active Directory Certificate Services

From the Active Directory Certificate Services, which is polled every 60 minutes, Insights collects the following:

- LDAP object properties for certificate authority, certificate templates, and enrollment services from the configuration container
- Security events from the enrollment service machines: 4886, 4887, 5145
 - Events 4886 and 4887 are only logged if "Issue and manage certificate requests" is enabled on the Audit tab of the CA's
 properties in Certificate Services MMC snap-in
- · The agent security Access Control Lists (ACLs) from the enrollment service machines via the registry
- The enrollment agent restrictions from the enrollment service machines via the registry

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Connect Identity Security Insights to Okta

Create an Okta App Integration

Note: Ensure you are logged in to your Okta account as an administrator.

Create a New App Integration

- 1. Within the Okta console, navigate to **Applications**, and click **Create App Integration**.
- 2. Click API Services, enter the name BT Insights Connector, and click Save.
 - Okta provides a Client ID under Client Credentials. Save your Client ID for use in Insights.
- 3. Navigate to Client Credentials and click Edit.
- 4. Select Public key / Private key next to Client authentication.
- 5. Select Add key, then Generate new key.
- 6. Select PEM under Private key.

Note: Only one key can be active at a time.

- 7. Click Copy to clipboard, save your key for use in the next step, and click Done when finished.
- 8. Navigate to Okta API Scopes, and grant access to the following:
 - okta.apiTokens.read
 - okta.apps.read
 - · okta.groups.read
 - okta.idps.read
 - · okta.logs.read
 - okta.policies.read
 - okta.roles.read
 - okta.users.read
- 9. Navigate to General Settings and click Edit.
- 10. Uncheck Require Demonstration of Proof-of-Possession (DPoP) header in token requests.
- 11. When finished, click Save.

Create a New Role and Resource Set

- 1. Within the Okta console, navigate to Security, and select Administrators.
- 2. Select Roles > Create new role, and provide the role a name of *Identity Security Insights*.

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depository institution. It is not authorized to acce	ept deposits or trust accounts and is not licensed or reg	ulated by any state or federal banking authority.	

General Settings	Edit
APPLICATION	
App integration name	Test
Application type	Service
Proof of possession	Require Demonstrating Proof of Possession (DPoP) header in token requests
Grant type	Client acting on behalf of itself
	Client Credentials
	Client acting on behalf of a user
	Token Exchange

BeyondTrust

- 3. Under Identity and Access Management, select the following options:
 - · View roles, resources, and admin assignments
- 4. Click Save role.
- 5. Navigate to Resources, and select Create new resource set.
- 6. Provide the resource set a name of *Identity Security Insights*.
- 7. Click Add resource set.
- 8. In the search field, choose Identity and Access Management, and select the following:
 - All Identity and Access Management resources
- 9. Click Save resource set.

Add the Administrator Role to Insights

- 1. Navigate to Applications, and select your new BT Insights Connector app.
- 2. Go to Admin Roles > Edit Assignments.
- 3. Select the new Identity Security Insights role and Identity Security Insights Resource set.
- 4. Click Add assignment.
- 5. Select the Read-only Administrator role.
- 6. Click Save changes.

Add an Okta Connector

- 1. Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside Okta.
- 2. Provide the following information to connect to Okta:
 - **Configuration Name**: A human-readable name for your Okta connector.
 - Domain: Your full Okta domain, e.g., subdomain.okta.com.

If copying your domain from the address bar, remove the - admin ending (e.g., *subdomain-admin.okta.com*).

- Client ID: Paste the Client ID provided in your Okta configuration above.
- **PEM Key:** Paste the PEM key generated in your Okta configuration above.
- 3. Click CREATE CONNECTOR.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

Create Okta Connector	×
Connect your Okta environment to bring in event logs and users, so we can help identify and fix issues. You need to complete all 6 steps to connect.	Ŷ
Step 1	
Name the connector and enter your Okta domain.	
Connector Name	
Okta Domain URL	l
If you're copying from the address bar, remove -admin from the URL. Example: https://example.okta.com	l
Step 2	l
Create a new App integration.	
1. Go to Applications in Okta.	
2. Select Create App Integration. 3. Choose the API Services option.	l
4. Name the App integration "BT Insights - Connector" Save.	
Step 3	l
Copy the Client ID from Client Credentials. Paste below.	
Client ID	
	l
Step 4	l
1. Back in Client Credentials, select Edit.	
Choose Public key / Private key next to Client authentication. Select Add key and Generate new key.	l
4. Choose PEM under Private key.	
5. Hit Copy to clipboard, then Done. Paste below.	l
PEM Key	l
Step 5	l
Go to Okta API Scopes. Grant access to:	
okta.apps.read	
okta.groups.read	
 okta.idps.read okta.iogs.read 	
okta.policies.read	
okta.roles.read okta.users.read	

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Connect Identity Security Insights to PingOne

Create a PingOne Application

Ensure you are logged into PingOne as a user with administration privileges.

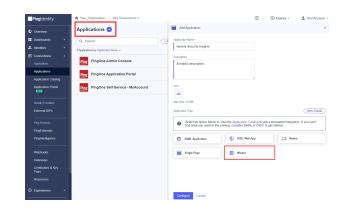
- Within your PingOne dashboard, navigate to Connections > Applications.
- 2. Click the Add Application button, and:
 - Provide a human-readable name for the new application.
 - · Select Worker for the application type
 - Click Configure to create your application.
- 3. In your new application, navigate to Roles and click Grant Roles.
 - Select Remove All.
 - Click Save.
- 4. Click Grant Roles, and use the search field to find Read Only.
 - · Select Select All.
 - Click Save.

Note: Verify Read Only roles are the only roles granted to the application.

- 5. Toggle the Application to **On**.
- 6. Navigate to Configuration for this application and expand General.
- 7. The Client ID, Client Secret, and Environment ID are required in the next section.

Add a PingOne Connector

1. Within the Insights **Tenant** dashboard, navigate to **Menu > Connectors > Available** and click **Create Connector** beside **PingOne**.



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- 2. Provide the following information to connect to PingOne:
 - Name: A human-readable name for your Ping connector.
 - Client ID: Paste the Client ID provided in Step 7 of your Ping configuration above.
 - Client Secret: Paste the Client Secret provided in Step 7 of your Ping configuration above.
 - Environment ID: Paste the Environment ID provided in Step 7 of your Ping configuration above.
- 3. Click CREATE CONNECTOR.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

	_
Create PingOne Connector	×
Connect your Ping Identity environment to bring in event logs and users so we can identify and help remediate issues. You need to complete all 2 steps to connect.	
Step 1	
Name the connector.	
Name	
Step 2	
Log in to <u>Ping Identity</u> 🛃 as a user with Administrator privileges.	
 Go to Connections > Applications and select the Add Application button. Provide a name for the Application, select Worker for Application type and select Save. 	
 Navigate to the Roles and click Grant Roles. Next, select Remove All and Save. 	
 Now that all permissions have been removed, select Grant Roles. Use the search field and enter Read Only. Select Select All and Save. Verify Read Only roles are the only ones listed. 	
 Toggle the Application to On. Navigate to Configuration for this Application and expand General. Copy the Client ID, Client Secret, and Environment ID into the corresponding fields below. 	
Client ID	
Client Secret	
O	
Environment ID	
Cruck Constant	
Create Connector Discard	
	C

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Connect Identity Security Insights to BeyondTrust Endpoint Privilege Management Cloud

Create a Endpoint Privilege Management Cloud API Account

- Within your Endpoint Privilege Management administration dashboard, navigate to Configuration > API Settings and click Create an API Account.
- 2. When prompted, enter a human-readable name and description for referencing your token.
- 3. Privilege Management Cloud generates a new **Client ID** and **Client Secret**. Copy your Client ID and Client Secret prior to exiting this page.

Add an Endpoint Privilege Management Cloud Connector

- Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside Privilege Management Cloud.
- 2. Provide the following information to connect to PM Cloud:
 - Name: A human-readable name for your PM Cloud connector.
 - **Domain**: Your full PM Cloud domain, e.g., https://company.pm.beyondtrustcloud.com.
 - Client ID: Paste the Client ID provided in Step 3 of your PM Cloud configuration above.
 - Client Secret: Paste the Client Secret provided in Step 3 of your PM Cloud configuration above.
- 3. Click CREATE CONNECTOR.

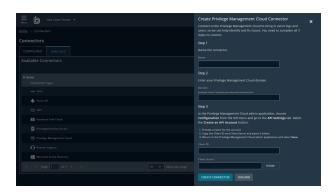
Navigate to the Configured Connectors panel (Menu > Connectors >

Configured) to confirm that connector creation was successful and review any connector settings.

CREATE AN API ACCOUNT

API Client name	
Description 🕑	
API Client description	
Client Id 😧	
21105	L
Client Secret 🕜	
UFiepji97tvKrY	1





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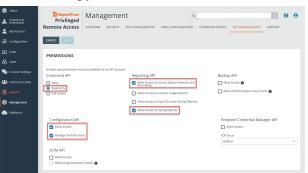
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Connect Identity Security Insights to BeyondTrust Privileged Remote Access Cloud

Create a Privileged Remote Access API Account

- 1. Within your Privileged Remote Access administration dashboard, navigate to Management and click API Configuration.
- 2. Under API CONFIGURATION, ensure Enable XML API is checked.
- 3. Click Add beside API Accounts and configure the following:
 - Provide a human-readable name, and any descriptive comments for referencing your account.
 - Under **Permissions**, ensure the following options are selected:
 - Command API: Read only
 - Configuration API: Allow Access, Manage Vault Accounts
 - Reporting API: Allow Access to Access Session Reports and Recordings, Allow Access to Syslog Reports
- 4. Privileged Remote Access generates a new client ID and client secret. Copy your client ID and client secret prior to saving your information and exiting this page.



5. Click Save.

Add a Privileged Remote Access Connector

 Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside Privileged Remote Access Cloud.

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- 2. Provide the following information to connect to PRA:
 - Name: A human-readable name for your PRA connector.
 - Subdomain: Your PRA subdomain, e.g., subdomain.beyondtrustcloud.com.
 - Client ID: Paste the Client ID provided in Step 3 of your PRA configuration above.
 - Client Secret: Paste the Client Secret provided in Step 3 of your PRA configuration above.
- 3. Click CREATE CONNECTOR.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

Create Privileged Remote Access Connector

nnect your Privileged Remote Access environment to bring in event logs id users, so we can help identify and fix issues. You need to complete all 3 eps to connect.

Step 1

Name the connector

ime

Step

Enter your Privileged Remote Access domain.

Domain

Example: https://company.beyondtrustcloud.com

Step

Provide your Client ID and Client Secret and set the required permissions.

In the Privileged Remote Access admin application, choose Management from the lefthand menu and then go to the API Configuration tab.

1. Under the API Configuration section, make sure Enable XML API is selected.

2. Under the API Accounts section, select the Add button.

- 2.1. Under **Permissions**, choose the following options for each API: • **Command:** Read Only
- Reporting: Allow Access to Access Session Reports and Recordings, Allow Access to Syslog Reports
- Configuration API: Allow Access and Manage Vault Accounts

2.2. Under Network Restrictions enter the following IP addresses:

- 50.16.236.14
- 54.165.155.195
 54.225.135.48

2.3. Copy the Client ID and Client Secret and paste it below.

2.4. Return to the Privileged Remote Access admin application and select **Save**.

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Connect Identity Security Insights to BeyondTrust Password Safe

Configure Password Safe

Identity Security Insights is capable of connecting to both cloud and on-premises instances of Password Safe. To access account and identity information for either application, Identity Security Insights first requires a group and user in Password Safe, provisioned with appropriate roles.

Create a New API Registration

- 1. In the BeyondInsight console, navigate to **Configuration > General > API Registrations**.
- 2. Click Create API Registration.
- 3. Select API Key Policy from the dropdown.
- From the registration's **Details** pane:
 - · Enter a name for the new registration.
 - · Select the your desired rule options and optionally, check the the User password required box to add a password for the connector.
- 5. Add three Authentication Rules, one for each IP address required for Insights:
 - Under Authentication Rules, click Add Authentication Rule.
 - From the Type dropdown menu, select Single IP Address.
 - For instances of Password Safe Cloud, the following IP addresses must be added:
 - · 50.16.236.14
 - 54.163.153.193
 - 54.225.135.48
 - For on-premise instances of Password Safe, authorize the IP address of the server where the Insights Connector will be installed.
 - Click Create Rule, and repeat this process for any remaining IP addresses.
- In the registration page, ensure the Active box is checked.
- 7. Click Create Registration.

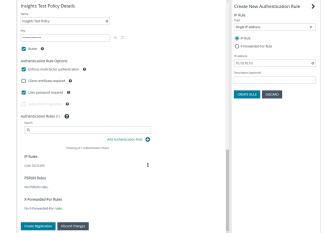
Create a New User

Note: This user allows Identity Security Insights to access Password Safe. We recommend creating a new user for this purpose. To use an existing account, please see "Create and Configure a New Group" on page 29.

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- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. Click Users, and then click Create New User above the grid.

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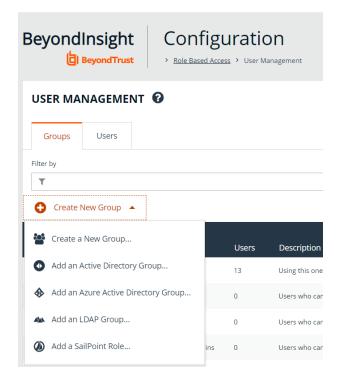


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- 3. Select Create a New User and provide the following information:
 - Complete the Identification section. These fields are required.
 - · Optionally, enter the user's contact information.
 - Select an Activation Date and an Expiration Date for the user account.
 - · Check User Active to activate the user account.
 - Set Two-Factor Authentication to None.
- 4. Click Create User.

Create and Configure a New Group

- 1. Navigate to Configuration > Role Based Access > User Management.
- 2. From the Groups tab, click Create New Group above the grid.
- 3. Select Create a New Group and enter a name and description.
 - a. Click Create Group to save your information.
- 4. Assign the user created for Identity Security Insights to the group:
 - Under Group Details, select Users.
 - From the **Show** dropdown list, select **Users not assigned**. This displays a list of all users not currently assigned to a group.
 - Filter the list of users displayed in the grid by Type, Username, Name, Email, or Domain to assist in finding the new Insights user.
 - Select the user you wish to add to the group, and then click **Assign User** above the grid.
- 5. Configure API access for the group:
 - Under Group Details, select API Registrations.
 - Check the box next to the API registration created for Identity Security Insights.
- 6. Assign features permissions to the group:
 - Under Group Details, select Features.
 - From the Show dropdown menu, select All Features.
 - Select the following features:
 - Analytics and Reporting
 - Asset Management
 - Password Safe Account Management
 - Password Safe Role Management
 - Password Safe System Management
 - Ticket System
 - User Accounts Management



- Click Assign Permissions above the grid and select Assign Permissions Read Only.
- Click User Audits, and select Assign Permissions Full Control.
- 7. Assign Smart Groups permissions and roles to the group:
 - Under Group Details, select Smart Groups.
 - From the Show dropdown menu, select All Smart Groups.
 - Select the All Assets Smart Group.
 - Click Assign Permissions above the grid, and select Assign Permissions Read Only.
 - Click the vertical ellipsis button for the All Assets Smart Group.
 - Select Edit Password Safe Roles.
 - Check the Auditor box.
 - Click Save Roles.

Add a Password Safe Cloud Connector

Note: The following steps are for Password Safe Cloud applications. Instructions for on-premesis applications are provided at the end of this guide.

- 1. Within the Insights **Tenant** dashboard, navigate to **Menu > Connectors > Available** and click **Create Connector** beside **Password Safe Cloud**.
- 2. Provide the following information to connect to Password Safe Cloud:
 - Name: A human-readable name for your Password Safe Cloud connector.
 - Domain: Your Password Safe Cloud domain, e.g., https://company.ps.beyondtrustcloud.com.
 - API Key: The API Key generated from Create New API Registration.
 - **Username**: Provide the username added to the Password Safe group made for Identity Security Insights.
 - **Password**: A password is required if the **User Password** required box is checked in your API Registration.
- Cancer by or Cancer

3. Click CREATE CONNECTOR.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

Add a Password Safe On-Premise Connector

- Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside Insights Collector.
- 2. In the **Connection** panel, enter a human-readable name for your new connector, and click **Create Connector** to continue.
- Download and run the installer provided on the following page. Ensure the collector is installed on any server on which the Password Safe application is located.
- 4. Enter the installation key generated by Insights when prompted by the installer. *Do not close the connector before you have entered these credentials.*
- 5. Provide the following information when required:
 - URL: Your Password Safe URL, e.g., https://<hostname>/.
 - API Key: The API Key generated from Create New API Registration.
 - Username: Provide the username added to the Password Safe group made for Identity Security Insights.
 - Password: A password is required if the User Password required box is checked in your API Registration.
- 6. Once your credentials have been provided to the installer, click Close Key.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

#		_		×
Password Safe				
Please enter your Password Safe details				
URL				
Example: https:// <hostname>/</hostname>				
API Key				
Password Safe Username				
Password Safe User Password (Optional)				
Back	Next		Cancel	
Dack	Noxe		cancer	

Connect Identity Security Insights to BeyondTrust Remote Support Cloud

Create a Remote Support API Account

- 1. Within your Remote Support administration dashboard, navigate to Management and click API Configuration.
- 2. Under API CONFIGURATION, ensure Enable XML API is checked.
- 3. Click Add beside API Accounts and configure the following:
 - Provide a human-readable name and any descriptive comments for referencing your account.
 - Under **Permissions**, ensure the following options are selected:
 - Command API: Read only
 - Configuration API: Allow Access, Manage Vault Accounts
 - Reporting API: Allow Access to Access Session Reports and Recordings, Allow Access to Syslog Reports

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			BeyondTrust	Management		nt	٩			×	θ
		Re	emote Support	SOFTWARE	SECURITY	SITE CONFIGURATION	EMAIL CONFIGURATION	OUTBOUND EVENTS	API CONFIGURATION	SUPPORT	
*											
		G	ANCEL SAVE								
ø											
₿		F	PERMISSIONS								
٩,		A	t least one permission must be	enabled for an A	Placcourt.						
		0	Command API			Reporting API		Backup Al	2		
-			Deny			Allow Access to Supp Recordings	port Session Reports and	Allow AD	cess ()		
۵			Read-Only Full Access			Allow Access to Licer	nse Usaze Reports	Allow Va	ult Encryption Key Access ()		
모						Allow Access to Arch					
۲	Management					Allow Access to Vaul	t Account Activity Reports				
						Allow Access to Syste	og Reports				
			Configuration API			Real-Time State A	API .	Endpoir	t Credential Manager	API	
			Allow Access			Allow Access		Allow	Access		
		l	Manage Vault Accounts								

- 4. Remote Support will generate a new client ID and client secret. Copy the client ID and client secret prior to saving the information and exiting this page.
- 5. Click Save.

Add a Remote Support Cloud Connector

- Within the Insights Tenant dashboard, navigate to Menu > Connectors > Available and click Create Connector beside Remote Support Cloud.
- 2. Provide the following information to connect to Remote Support:
 - Name: A human-readable name for your Remote Support connector.
 - Remote Support Domain: Your Remote Support domain, e.g., subdomain.beyondtrustcloud.com.
 - Client ID: Paste the Client ID provided in Step 3 of your Remote Support configuration, above.
 - Client Secret: Paste the Client Secret provided in Step 3 of your Remote Support configuration, above.
- 3. Click CREATE CONNECTOR.

Navigate to the **Configured Connectors** panel (**Menu > Connectors > Configured**) to confirm that connector creation was successful and review any connector settings.

East Coast Tenant -	Create Remote Support Connector
	Connect your Remote Support environment to bring in event logs and users, so we can help identify and fix issues. You need to complete all 3 steps to connect.
	Step 1
	Name
	Donnain Kaampide hidges/twampany langundhustichuid com
Password Safe Claud	Provide your Client ID and Client Secret and set the required permissions.
	In the Remote Support admin application, choose Management from the lefthand menu and then go to the API Configuration tab. Select the Add button.
Remote Support	Command: Dany Reparting: Alive Access to Support Session Reports and Recordings Configuration APIC Alive Access and Manage Vauit Accounts
Microsoft Attive Developy	 Copy the Client ID and Client Secret and paste it below. Return to the Remote Support admin epolication and select Seve.
	SHOW
	CREATE CONNECTOR DISCARD

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