



# Tenable Tenable Nessus and BeyondTrust Password Safe Integration Guide

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## Welcome to Tenable Nessus for BeyondTrust

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This document describes how to configure Tenable Nessus Manager for integration with the BeyondTrust Password Safe and BeyondTrust Password Safe Cloud.

Security administrators know that conducting network vulnerability assessments means getting access to and navigating an ever-changing sea of usernames, passwords, and privileges. By integrating BeyondTrust with Tenable Nessus, customers have more choice and flexibility.

The benefits of integrating Tenable Nessus Manager with BeyondTrust include:

- Credential updates directly in Tenable Nessus, requiring less management.
- Reduced time and effort to document credential storage locations in the organizational environment.
- Automatic enforcement of security policies in specific departments or business unit requirements, simplifying compliance.
- Reduced risk of unsecured privileged accounts and credentials across the enterprise.



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## Integrations

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The BeyondTrust Password Safe can be configured using either Windows or SSH.

[Windows Integration](#)

[SSH Integration](#)



## Tenable Tenable Nessus for BeyondTrust (Windows)

Complete the following steps to configure Windows credentialed network scans using BeyondTrust.

**Note:** BeyondTrust is only compatible with Tenable Nessus Manager.

To integrate Tenable Nessus with BeyondTrust using Windows:

1. Log in to Tenable Nessus Manager
2. Click **Scans**.  
The **My Scans** page appears.
3. Click **+New Scan**.  
The **Scan Templates** page appears.
4. Select a scan template.  
The selected scan template **Settings** page appears.
5. In the **Name** box, type a name for the scan.
6. In the **Targets** box, type an IP address, hostname, or range of IP addresses.
7. (Optional) Add a **Description**, **Folder location**, **Scanner location**, and specify **Target groups**.
8. Click the **Credentials** tab.  
The **Credentials** options appear. By default, the **Categories** drop-down box displays **Host**.
9. In the **Categories** drop-down, click **Host**.
10. In the **Categories** list, click **Windows** configuration.  
The selected configuration options appear.
11. In the selected configuration window, click the **Authentication method** drop-down box.  
The **Authentication method** options appear.
12. Select **BeyondTrust**.



The **BeyondTrust** options appear.

13. Configure the credentials.

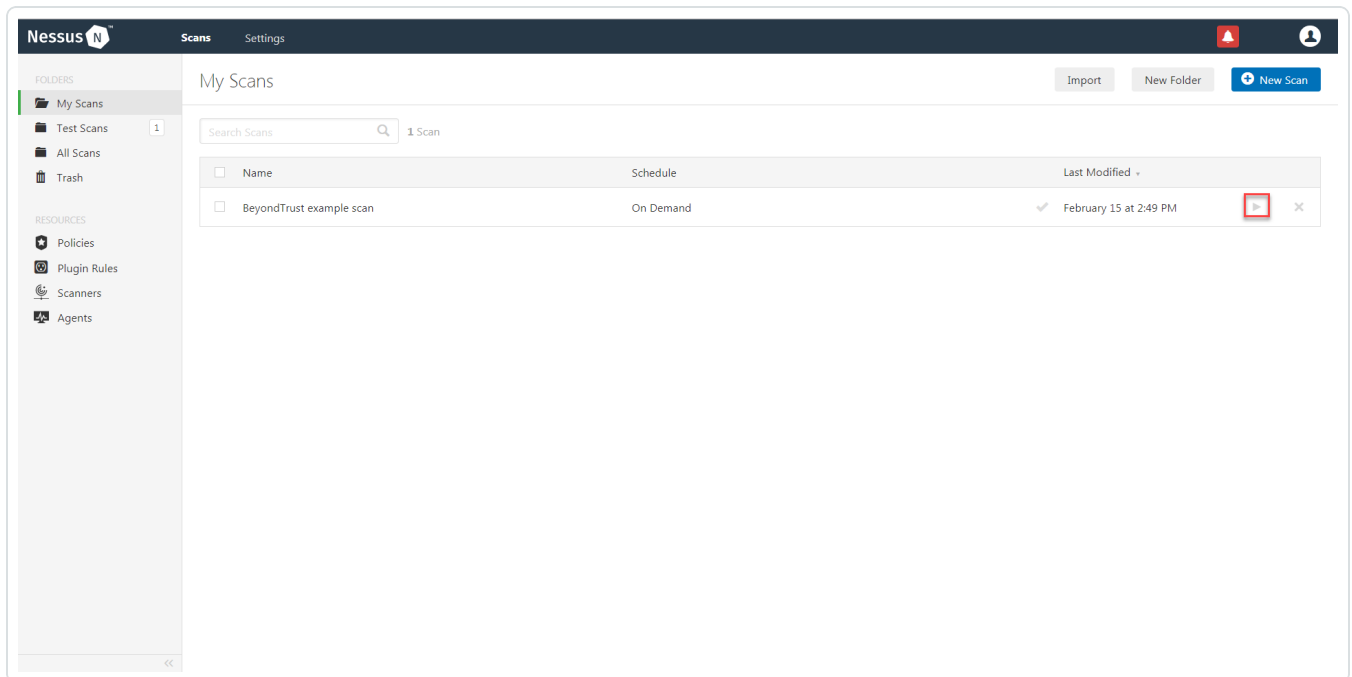
Option	Description	Required
Username	The username to log in to the hosts you want to scan.	yes
Domain	The domain of the username, which is recommended if using domain-linked accounts (managed accounts of a domain that are linked to a managed system).	no
BeyondTrust host	The BeyondTrust IP address or DNS address.	yes
BeyondTrust port	The port on which BeyondTrust listens.	yes
BeyondTrust API user	The API user provided by BeyondTrust.	yes
BeyondTrust API key	The API key provided by BeyondTrust.	yes
Checkout duration	<p>The length of time, in minutes, that you want to keep credentials checked out in BeyondTrust. Configure the Checkout duration to exceed the typical duration of your Tenable Nessus scans. If a password from a previous scan is still checked out when a new scan begins, the new scan fails.</p> <div style="border: 1px solid blue; padding: 5px;"><p><b>Note:</b> Configure the password change interval in BeyondTrust so that password changes do not disrupt your Tenable Nessus scans. If BeyondTrust changes a password during a scan, the scan fails.</p></div>	yes
Use SSL	When enabled, Tenable Nessus uses SSL through IIS for secure communications. You must configure SSL	no



	through IIS in BeyondTrust before enabling this option.	
Verify SSL certificate	When enabled, Tenable Nessus validates the SSL certificate. You must configure SSL through IIS in BeyondTrust before enabling this option.	no

13. Click **Save**.

14. To verify the integration is working, click **Launch** to initiate an on-demand scan.



15. Once the scan has completed, select the completed scan and look for the corresponding message - *Microsoft Windows SMB Log In Possible: 10394*. This validates that authentication was successful.



## SSH Integration

Complete the following steps to configure SSH credentialed network scans using BeyondTrust.

**Note:** BeyondTrust is only compatible with Tenable Nessus Manager. It is not compatible with Tenable Nessus Professional.

To integrate Tenable Nessus with BeyondTrust using Windows:

1. Log in to Tenable Nessus Manager
2. Click **Scans**.  
The **My Scans** page appears.
3. Click **+New Scan**.  
The **Scan Templates** page appears.
4. Select a scan template.  
The selected scan template **Settings** page appears.
5. In the **Name** box, type a name for the scan.
6. In the **Targets** box, type an IP address, hostname, or range of IP addresses.
7. (Optional) Add a **Description**, **Folder location**, **Scanner location**, and specify **Target groups**.
8. Click the **Credentials** tab.  
The **Credentials** options appear. By default, the **Categories** drop-down box displays **Host**.
9. In the **Categories** drop-down, click **Host**.
10. In the **Categories** list, click **Windows** configuration.  
The selected configuration options appear.
11. In the selected configuration window, click the **Authentication method** drop-down box.  
The **Authentication method** options appear.
12. Select **BeyondTrust**.





The **BeyondTrust** options appear.

13. Configure the credentials.

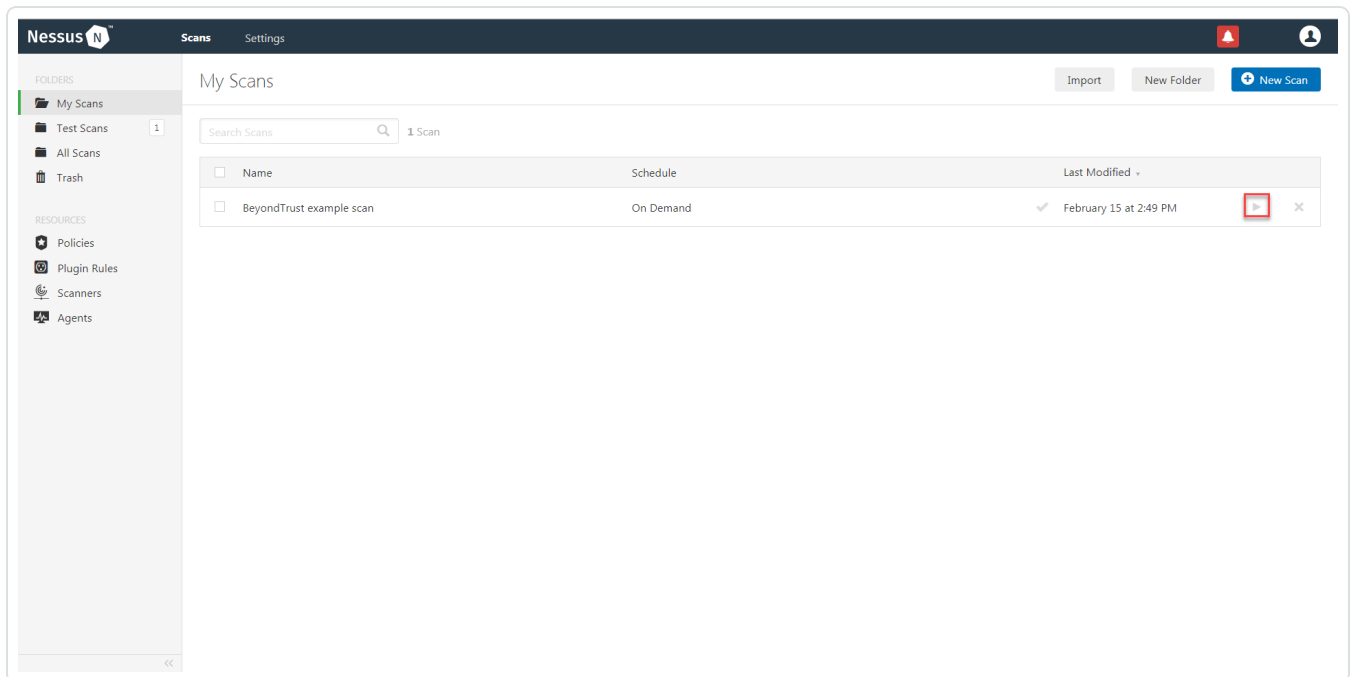
Option	Description	Required
Username	The username to log in to the hosts you want to scan.	yes
Domain	The domain of the username, which is recommended if using domain-linked accounts (managed accounts of a domain that are linked to a managed system).	no
BeyondTrust host	The BeyondTrust IP address or DNS address.	yes
BeyondTrust port	The port on which BeyondTrust listens.	yes
BeyondTrust API user	The API user provided by BeyondTrust.	yes
BeyondTrust API key	The API key provided by BeyondTrust.	yes
Checkout duration	<p>The length of time, in minutes, that you want to keep credentials checked out in BeyondTrust. Configure the Checkout duration to exceed the typical duration of your Tenable Nessus scans. If a password from a previous scan is still checked out when a new scan begins, the new scan fails.</p> <div style="border: 1px solid blue; padding: 5px;"><p><b>Note:</b> Configure the password change interval in BeyondTrust so that password changes do not disrupt your Tenable Nessus scans. If BeyondTrust changes a password during a scan, the scan fails.</p></div>	yes
Use SSL	When enabled, Tenable Nessus uses SSL through IIS for secure communications. You must configure SSL	no



	through IIS in BeyondTrust before enabling this option.	
Verify SSL certificate	When enabled, Tenable Nessus validates the SSL certificate. You must configure SSL through IIS in BeyondTrust before enabling this option.	no

14. Click **Save**.

15. To verify the integration is working, click the **Launch** button to initiate an on-demand scan.



16. Once the scan has completed, select the completed scan and look for the corresponding message - *OS Identification and Installed Software Enumeration over SSH: 97993*. This validates that authentication was successful.



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# API Configuration

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[API Keys Setup](#)

[Enable API Access](#)



## API Keys Setup

To set up your API keys:

1. Log in to **BeyondInsight**.

2. Click **Configuration**.

The general configuration menu appears.

3. Click **API Registrations**.

The API configuration menu appears.

4. Click **Create New API Registration**.

The Create New API Registration menu appears.

5. In the **API Registration name** box, enter a name.

6. Click **Create API Registration**.

7. Add your account details for the API registration in the **Details** section.

**Caution:** Do not select any **Authentication Rule Options** when using the API with Tenable integrations, otherwise the integration fails.

8. Click **SAVE CHANGES**.

9. Configure **Authentication Rules**. This allows the Tenable IP ranges to pull credentials.

10. Click **CREATE RULE**.

11. Click **SAVE**.

**Note:** Once saved, the API Key is available for future requests.



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## Enable API Access

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**Note:** Each **Managed Account** that you use for scanning must have **API Access** enabled.

To enable API access:

1. Log into BeyondInsight.

2. Go to **Managed Accounts**.

A list of your managed accounts appears.

3. Click **Edit Account**.

The **Managed Account Settings** page appears.

4. Click the **Enable for API Access** option.

5. Click **Save**.



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## Additional Information

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[Elevation](#)

[Customized Report](#)

[About Tenable](#)



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## Elevation

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BeyondInsight uses **Elevation** to handle privilege escalation for SSH accounts when performing scans. The **Elevation** option is used because some rules do not allow server log in using root. **Elevation** can be enforced on BeyondInsight at system level or account level.



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## Customized Report

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You can build a customized report in BeyondInsight to import hosts from a CSV to scan in Tenable Nessus. The customized report defines the information needed for Tenable Nessus uploads.

To build the report:

1. Log in to BeyondInsight .
2. Go to - **Assets > Scan > Customize Report.**
3. Select the **Parameters.**
4. Click **Run Report.**

**Note:** You can run this report on any of your previous discovery scans, exported as a CSV, and uploaded as scan targets in Tenable Nessus.





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## About Tenable

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Tenable transforms security technology for the business needs of tomorrow through comprehensive solutions that provide continuous visibility and critical context, enabling decisive actions to protect your organization. Tenable eliminates uncertainty, prioritizes threats, and reduces exposure and loss. With more than one million users and more than 20,000 enterprise customers worldwide, organizations trust Tenable for proven security innovation. Tenable's customers range from Fortune Global 500 companies, to the U.S. Department of Defense, to mid-sized and small businesses in all sectors, including finance, government, healthcare, higher education, retail, and energy. Transform security with Tenable, the creators of Tenable Nessus and leaders in vulnerability discovery, by visiting [tenable.com](https://tenable.com).