



Tenable Security Center and Thycotic Integration Guide

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Introduction

This document describes how to deploy Tenable™ Tenable Security Center for integration with Thycotic Secret Server. Please email any comments and suggestions to Tenable Support.

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 Thycotic Secret Server with Tenable Security Center, administrators now have even more choice and flexibility for reducing the credentials headache.

The Tenable® integration with Thycotic Secret Server delivers a comprehensive authenticated scanning solution that provides security teams better vulnerability insight in order to further protect privileged accounts. This integration supports the storage of privileged credentials in Thycotic Secret Server and their automatic retrieval at scan time by Tenable. This ensures that sensitive passwords are safely stored, controlled, auditable and easily changed without manual intervention.

By integrating Tenable Security Center with Thycotic Secret Server, you can:

- Store credentials in Thycotic Secret Server instead of managing and updating the credentials directly within a Tenable solution.
- Reduce the time and effort needed to document credential storage within the organizational environment.
- Automatically enforce security policies within specific departments or for specific business unit requirements, simplifying your compliance process.
- Reduce the risk of unsecured privileged accounts and credentials across the enterprise.



Integration Requirements

You must meet the following minimum version requirements to integrate Tenable Tenable Security Center with Thycotic Secret Server:

- Thycotic Secret Server version 8.9 or later
- Tenable Security Center 5.3.2 or later

Note: The integration requires enabling the Thycotic Secret Server web services API, which is available in Secret Server Professional and the hosted version of Secret Server.



Integrate with Thycotic Secret Server

You can configure Tenable Security Center to perform credentialed network scans of Windows and Linux systems using Thycotic's password management solution. Credentials are configured similarly to other credentialed network scans.

[Configure Windows Credentials](#)

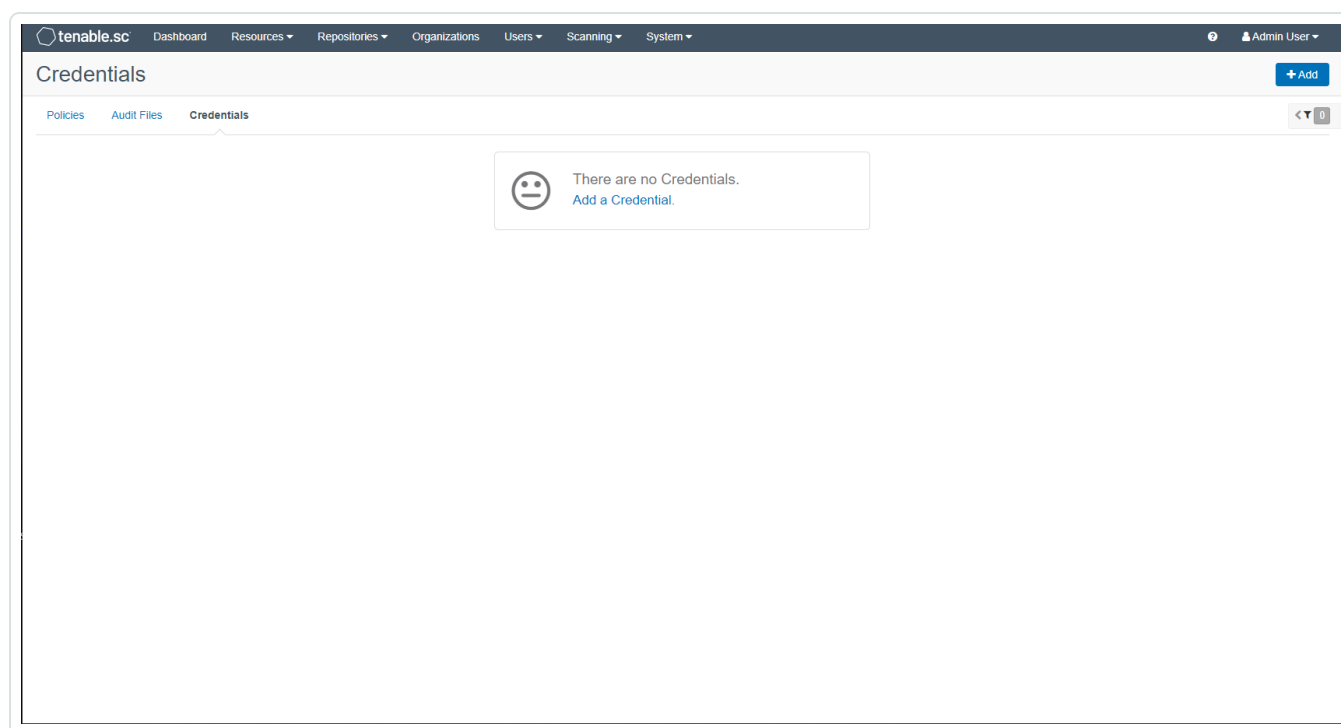
[Configure SSH/Linux Credentials](#)

[Configure a Credentialed Scan](#)

Configure Windows Credentials

1. Log in to Tenable Security Center.
2. In the top navigation bar, click **Scanning** > **Credentials** (administrator users) or **Scans** > **Credentials** (organizational users).

The **Credentials** page appears.



3. Click **Add**.

The **Add Credential** page appears.

4. Select **Thycotic Secret Server**.

The configuration page appears.

5. Configure each field for Windows authentication. For more information, see Thycotic Secret Server Options in the [Tenable Security Center User Guide](#),

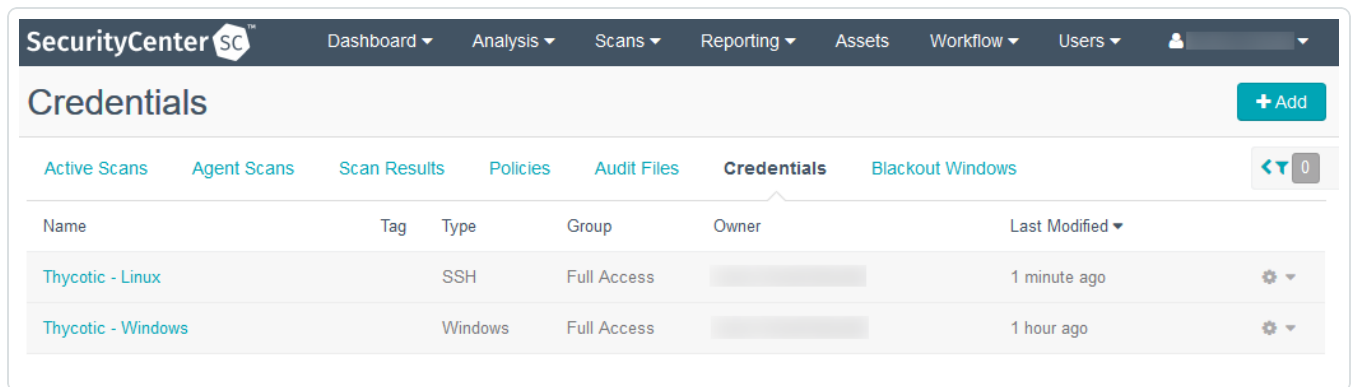


6. Click **Submit**.

Configure SSH/Linux Credentials

1. Log in to Tenable Security Center.
2. In the top navigation bar, click **Scanning > Credentials** (administrator users) or **Scans > Credentials** (organizational users).

The Credentials page appears.



3. Click **Add**.

The Add Credential page appears.

SecurityCenter SC™

Dashboard ▾Analysis ▾Scans ▾Reporting ▾AssetsWorkflow ▾Users ▾

⌵

Add Credential

← Back

General

Name*

Description

Tag

Credential

Type

Windows ▾

Authentication Method

Password ▾

Username*

Password*

Domain

Submit

Cancel

- In the **General** section, type a **Name** and **Description** for the credentials.
- (Optional) Select a **Tag**.

SecurityCenter SC™

Dashboard ▾Analysis ▾Scans ▾Reporting ▾AssetsWorkflow ▾Users ▾

⌵

Add Credential

← Back

General

Name*

Thycotic - Linux

Description

Tag



6. In the **Credential** section, in the **Type** drop-down box, select **SSH**.

Credential

Type

SSH ▾

Authentication Method

Database

Username*

SNMP

Private Key*

SSH

Windows

Passphrase

Privilege Escalation

None ▾

Submit

Cancel

7. In the **Authentication Method** drop-down box, select **Thycotic Secret Server**.

Credential

Type

SSH ▾

Authentication Method

Thycotic Secret Server ▾

Username*

Certificate

Thycotic Secret Name*

CyberArk Vault

Thycotic Secret Server URL*

Kerberos

Thycotic Login Name*

Password

Public Key

Thycotic Secret Server

Thycotic Password*

Thycotic Organization (optional)

Thycotic Domain (optional)

Verify SSL Certificate

☒

Use Private Key

☐

Submit

Cancel



- Configure each option for SSH configuration. Refer to [Thycotic Secret Server SSH Options](#) for a description of each option.

SecurityCenter SC Dashboard ▾ Analysis ▾ Scans ▾ Reporting ▾ Assets Workflow ▾ Users ▾

Credential

Type: SSH ▾

Authentication Method: Thycotic Secret Server ▾

Username*: System_User

Thycotic Secret Name*: Secret_Name

Thycotic Secret Server URL*: http://<targetaddress>/SecretServer

Thycotic Login Name*: Thycotic_Login_Name

Thycotic Password*: ••••••••••

Thycotic Organization (optional): Org1

Thycotic Domain (optional):

Verify SSL Certificate: ☒

Use Private Key: ☐

Submit Cancel

- Click **Submit** to finalize the changes.

Thycotic Secret Server SSH Options

The following table describes the options to configure when using Thycotic Secret Server as the **Authentication Method** for SSH credentials.

Option	Description
Username	The username that is used to authenticate via ssh to the system.
Thycotic Secret Name	This is the value that the secret is stored as on the Thycotic server. It is referred to as the "Secret Name" on the Thycotic



	server.
Thycotic Secret Server URL	<p>The value you want Tenable Security Center to use when setting the transfer method, target, and target directory for the scanner. Find the value on the Thycotic server, in Admin > Configuration > Application Settings > Secret Server URL.</p> <p>For example, if you type <i>https://pw.mydomain.com/SecretServer</i>, Tenable Security Center determines it is an SSL connection, that <i>pw.mydomain.com</i> is the target address, and that <i>/SecretServer</i> is the root directory.</p>
Thycotic Login Name	The username used to authenticate to the Thycotic server.
Thycotic Password	The password associated with the Thycotic Login Name you provided.
Thycotic Organization (optional)	In cloud instances of Thycotic, the value that identifies which organization the Tenable Security Center query should target.
Thycotic Domain (optional)	This is an optional value set if the domain value is set for the Thycotic server.
Use Private Key	If enabled, Tenable Security Center uses key-based authentication for SSH connections instead of password authentication.
Verify SSL Certificate	If enabled, Tenable Security Center verifies the SSL Certificate on the Thycotic server.
Thycotic elevate privileges with	<p>The privilege escalation method you want to use to increase the user's privileges after initial authentication. Multiple options for privilege escalation are supported, including su, su+sudo and sudo. Your selection determines the specific options you must configure.</p> <div>Note: For additional information about all of the supported privilege escalation types and their accompanying fields, see SSH in the Tenable Nessus User Guide.</div>



Configure a Credentialed Scan

1. Log in to Tenable Security Center.
2. In the top navigation bar, click **Scans > Active Scans**.

The Active Scans page appears.

3. Click **Add**.

The Add Active Scan page appears.

4. In the **General** section:
 1. Type a **Name** for the scan.
 2. (Optional) Type a **Description** for the scan.
 3. Select a **Policy** for the scan.
 4. (Optional) Select a **Schedule** for the scan.
5. In the **Settings** section:
 1. If prompted, select a **Scan Zone** for the scan.
 2. Select an **Import Repository** for the scan.
 3. Select a **Scan Timeout Action** for the scan.



4. Select a **Rollover Schedule** for the scan.
5. Enable or disable the **Advanced** options.
6. In the **Targets** section:
 1. Select a **Target Type** for the scan.

The page updates to show the required options for that target type.
 2. Select one or more **Assets** and/or **IPs / DNS Names** for the scan.
7. In the **Credentials** section, to configure credentialed scanning using your Thycotic credentials, click **Add Credential**.
 1. In the drop-down box, select **Windows** to use Windows credentials or **SSH** to use Linux credentials.

The screenshot shows the 'Add Active Scan' page in the SecurityCenter interface. The 'Credentials' tab is selected in the left sidebar. The 'Scan Credentials' section is active, displaying a dropdown menu with the following options: 'Nothing Selected', 'Windows', 'SSH', 'SNMP', and 'Database'. The 'Nothing Selected' option is currently selected. To the right of the dropdown is a text input field with the placeholder 'Select a credential type.' and a 'Back' button. At the bottom of the page are 'Submit' and 'Cancel' buttons.

2. In the drop-down box that appears to the right of the drop-down box in the previous step, select the name of the Thycotic credentials configured in step 4 of [Configure Windows Credentials](#) or step 4 of [Configure SSH/Linux Credentials](#).

SecurityCenter SC™ Dashboard ▾ Analysis ▾ Scans ▾ Reporting ▾ Assets Workflow ▾ Users ▾

Add Active Scan ← Back

General

Settings

Targets

Credentials

Post Scan

Scan Credentials

Windows ▾	Thycotic - Windows ▾	✓ ✕
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Submit Cancel

- Click the check mark to save the credentials.
- (Optional) Repeat step 7 to configure additional credentials.

SecurityCenter SC™ Dashboard ▾ Analysis ▾ Scans ▾ Reporting ▾ Assets Workflow ▾ Users ▾

Add Active Scan ← Back

General

Settings

Targets

Credentials

Post Scan

Scan Credentials

Windows	Thycotic - Windows
SSH	Thycotic - Linux

[+ Add Credential](#)

Submit Cancel

- In the **Post Scan** section:
 - (Optional) If you previously added an email address to your account profile and you want to configure email notifications, enable or disable **E-Mail Me on Launch** or **E-Mail Me on Completion**.
 - (Optional) If you want to configure automatic report generation, click Add Report. For more information, see [Add a Report to a Scan](#).
- Click **Submit**.



Verify Integration

To verify the integration succeeded, you can initiate a scan using a custom policy containing only plugins that validate access to Windows and Linux targets. This policy is known as a Quick Credential Debug (QCD) scan. QCD enables administrators to perform quick credential tests without performing a full a vulnerability scan.

A QCD scan policy for Windows and Linux includes the following plugins (plugin ID numbers are in parentheses):

- (10394) Microsoft Windows SMB Log In Possible
- (12634) Authenticated Check: OS Name and Installed Package Enumeration
- (21745) Authentication Failure - Local Checks Not Run

Plugin 10394 verifies authentication to Windows targets, plugin 12634 verifies authentication to Linux targets by attempting to authenticate via SSH and enumerate a list of installed packages, and plugin 21745 reports authentication failures along with an audit trail useful for debugging.

Refer to the [Tenable Security Center User Guide](#) for information on how to create a custom scan policy containing only these three plugins.

- [Add a Scan Policy](#)
- [Configure Plugin Options](#)
- [Start or Pause a Scan](#)