



Tenable SecurityCenter for Thycotic Integration Guide

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Introduction

This document describes how to deploy Tenable™ SecurityCenter® for integration with Thycotic Secret Server. Please email any comments and suggestions to support@tenable.com.

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 SecurityCenter, administrators now have even more choice and flexibility for reducing the credentials headache.

The combined Tenable-Thycotic solution works when a SecurityCenter scan policy is configured to query a Thycotic Secret Server for privileged credentials. At the time of the scan, SecurityCenter requests the privileged account credentials from Thycotic. Thycotic sends the privileged account credentials to SecurityCenter and the provided credentials are then used to log in to the target system to identify vulnerabilities and misconfigurations.

By integrating SecurityCenter 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 SecurityCenter with Thycotic Secret Server:

- Thycotic Secret Sever version 8.9 or later
- SecurityCenter 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 SecurityCenter 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](#)

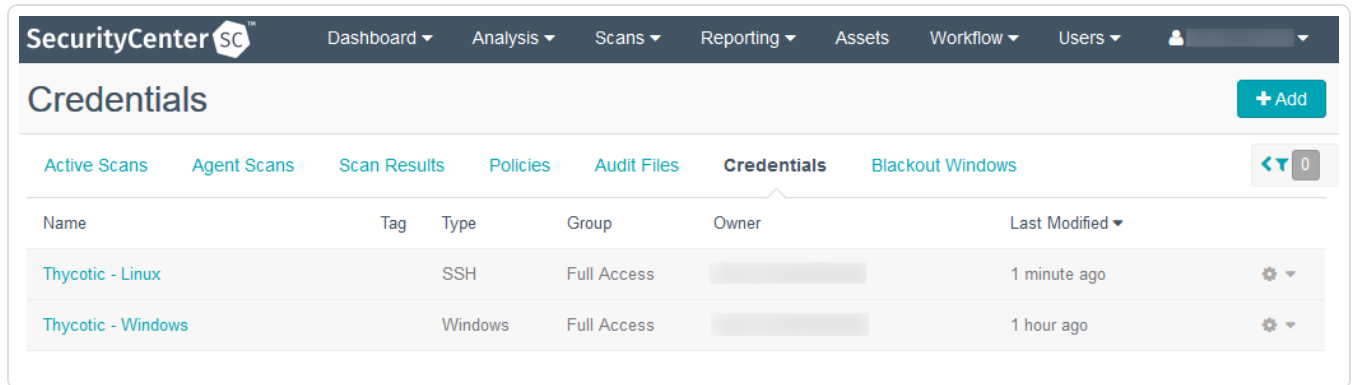
[Configure SSH/Linux Credentials](#)

[Configure a Credentialed Scan](#)

Configure Windows Credentials

1. Log in to SecurityCenter.
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 ▾ Assets Workflow ▾ Users ▾

Add Credential ← Back

General

Name*

Description

Tag

Credential

Type

Authentication Method

Username*

Password*

Domain

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

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

Add Credential ← Back

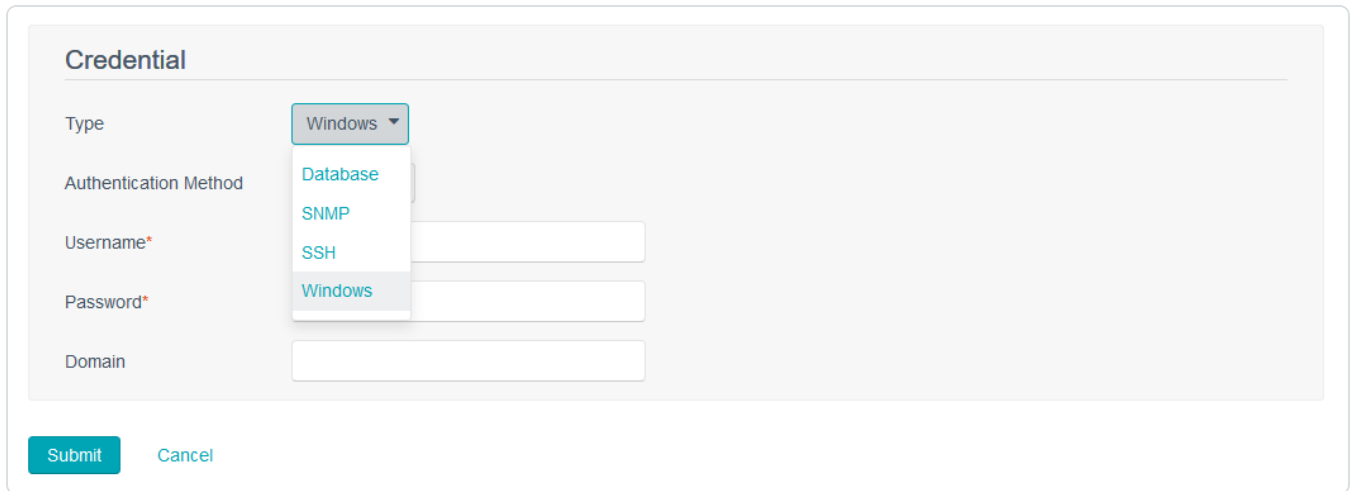
General

Name*

Description

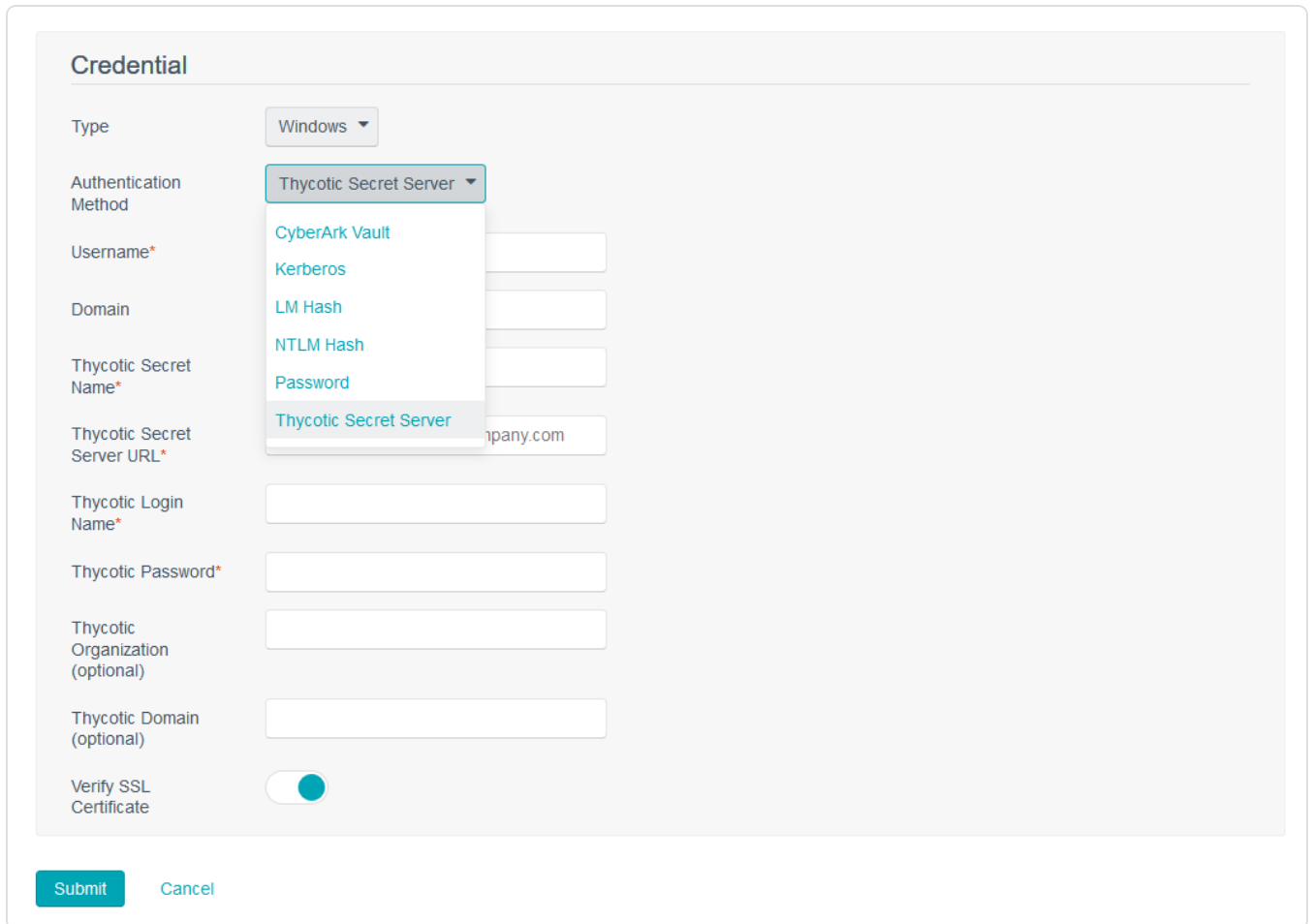
Tag

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



The screenshot shows a 'Credential' configuration form. The 'Type' dropdown menu is open, showing options: Database, SNMP, SSH, and Windows. The 'Windows' option is selected and highlighted. Other fields include 'Authentication Method', 'Username*', 'Password*', and 'Domain', each with an adjacent input field. At the bottom, there are 'Submit' and 'Cancel' buttons.

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



The screenshot shows the same 'Credential' configuration form. The 'Authentication Method' dropdown menu is open, showing options: CyberArk Vault, Kerberos, LM Hash, NTLM Hash, Password, and Thycotic Secret Server. The 'Thycotic Secret Server' option is selected and highlighted. Other fields include 'Type' (set to Windows), 'Username*', 'Domain', 'Thycotic Secret Name*', 'Thycotic Secret Server URL*' (with 'company.com' visible), 'Thycotic Login Name*', 'Thycotic Password*', 'Thycotic Organization (optional)', 'Thycotic Domain (optional)', and a 'Verify SSL Certificate' toggle switch which is currently turned on. At the bottom, there are 'Submit' and 'Cancel' buttons.

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

The screenshot shows the 'Credential' configuration page in the SecurityCenter SC™ interface. The form is titled 'Credential' and contains the following fields and controls:

- Type:** Windows (dropdown menu)
- Authentication Method:** Thycotic Secret Server (dropdown menu)
- Username*:** System_User (text input)
- Domain:** thycoticdomain.com (text input)
- Thycotic Secret Name*:** Secret_Name (text input)
- Thycotic Secret Server URL*:** http://<targetaddress>/SecretServer (text input)
- Thycotic Login Name*:** Thycotic_Login_Name (text input)
- Thycotic Password*:** Masked with 12 dots (password input)
- Thycotic Organization (optional):** Org1 (text input)
- Thycotic Domain (optional):** (empty text input)
- Verify SSL Certificate:** Toggle switch (checked)

At the bottom of the form, there are two buttons: **Submit** (in a teal box) and **Cancel** (in a light blue box).

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

Thycotic Secret Server Windows Options

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

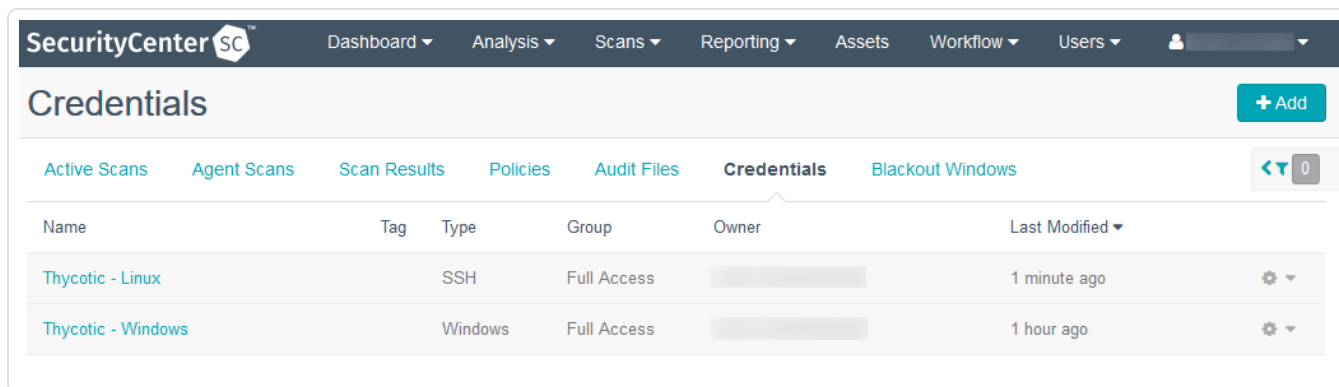
Option	Description
Username	(Required) The username for a user on the target system.
Domain	(Optional) The domain of the username, if set on the Thycotic server.

Thycotic Secret Name	(Required) The Secret Name value on the Thycotic server.
Thycotic Secret Server URL	<p>(Required) The value you want SecurityCenter 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>, SecurityCenter 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	(Required) The username used to authenticate to the Thycotic server.
Thycotic Password	(Required) 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 SecurityCenter query should target.
Thycotic Domain	(Optional) The domain, if set for the Thycotic server.
Verify SSL Certificate	If enabled, SecurityCenter verifies the SSL Certificate on the Thycotic server.

Configure SSH/Linux Credentials

1. Log in to SecurityCenter.
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 ▾ Assets Workflow ▾ Users ▾

Add Credential ← Back

General

Name*

Description

Tag

Credential

Type

Authentication Method

Username*

Password*

Domain

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

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

Add Credential ← Back

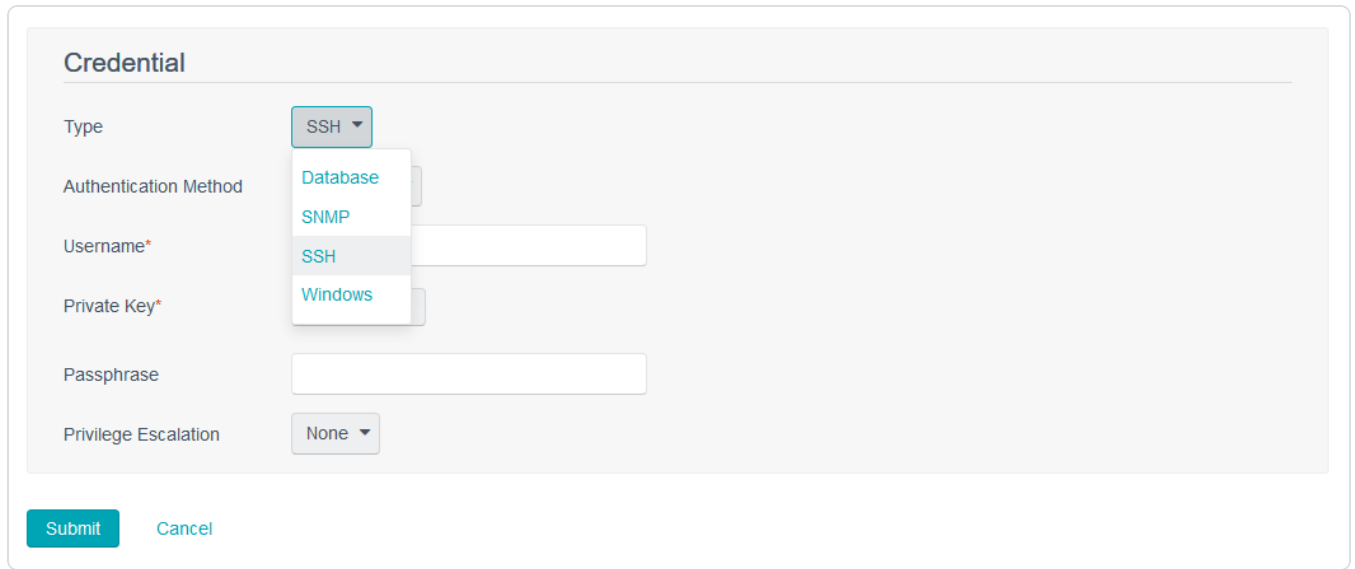
General

Name*

Description

Tag

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



The image shows a web form titled "Credential" with the following fields and options:

- Type:** A dropdown menu with "SSH" selected and a list of options: Database, SNMP, SSH, and Windows.
- Authentication Method:** A dropdown menu with "Database" selected.
- Username*:** A text input field.
- Private Key*:** A text input field.
- Passphrase:** A text input field.
- Privilege Escalation:** A dropdown menu with "None" selected.

At the bottom of the form are two buttons: "Submit" (in a teal box) and "Cancel".

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

The screenshot shows a configuration form titled "Credential". The "Type" dropdown is set to "SSH". The "Authentication Method" dropdown is open, showing a list of options: "Certificate", "CyberArk Vault", "Kerberos", "Password", "Public Key", and "Thycotic Secret Server". The "Thycotic Secret Server" option is highlighted. Below the dropdown, there are several input fields: "Username*", "Thycotic Secret Name*", "Thycotic Secret Server URL*" (with "company.com" visible), "Thycotic Login Name*", "Thycotic Password*", "Thycotic Organization (optional)", and "Thycotic Domain (optional)". At the bottom, there are two toggle switches: "Verify SSL Certificate" (checked) and "Use Private Key" (unchecked). "Submit" and "Cancel" buttons are located at the bottom left.

8. 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

9. 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	(Required) The username for a user on the target system.
Domain	(Optional) The domain of the username, if set on the Thycotic server.
Thycotic Secret Name	(Required) The Secret Name value on the Thycotic server.
Thycotic Secret Server URL	(Required) The value you want SecurityCenter to use when setting



	<p>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>, SecurityCenter 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	(Required) The username used to authenticate to the Thycotic server.
Thycotic Password	(Required) 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 SecurityCenter query should target.
Thycotic Domain	(Optional) The domain, if set for the Thycotic server.
Verify SSL Certificate	If enabled, SecurityCenter verifies the SSL Certificate on the Thycotic server.
Use Private Key	If enabled, SecurityCenter uses key-based authentication for SSH connections instead of password authentication.

Configure a Credentialed Scan

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

The Active Scans page appears.

3. Click **Add**.

The Add Active Scan page appears.

The screenshot shows the 'Add Active Scan' page in SecurityCenter. The page is divided into two main sections: 'General' and 'Schedule'. The 'General' section contains the following fields:

- Name***: A text input field.
- Description**: A text area.
- Policy***: A dropdown menu with the option 'Select a Policy'.

The 'Schedule' section contains the following field:

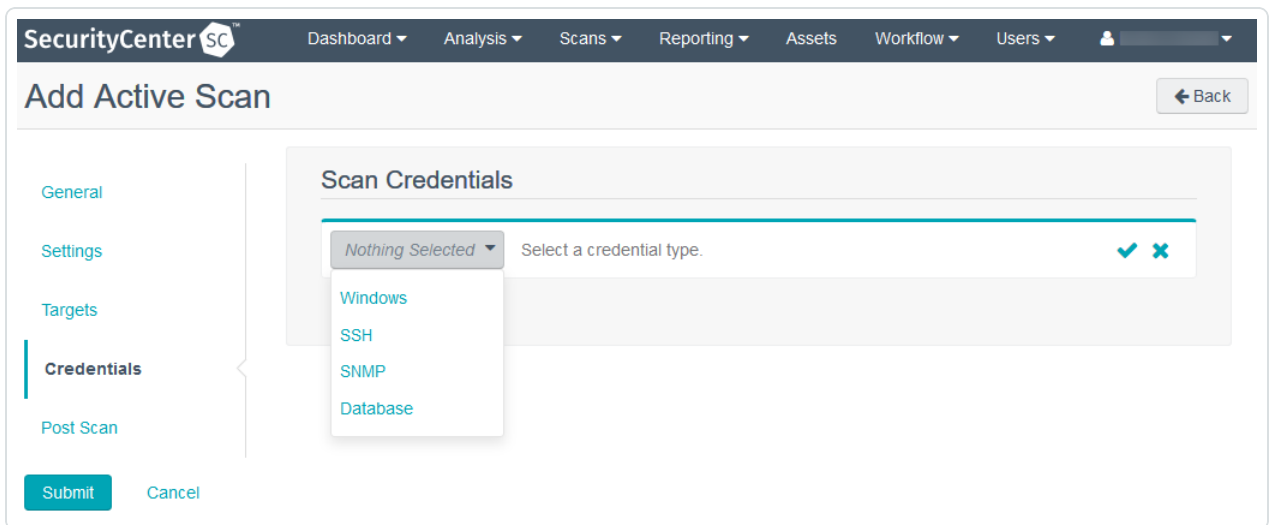
- Schedule**: A dropdown menu with the option 'On Demand' selected.

At the bottom of the page, there are two buttons: 'Submit' and 'Cancel'.

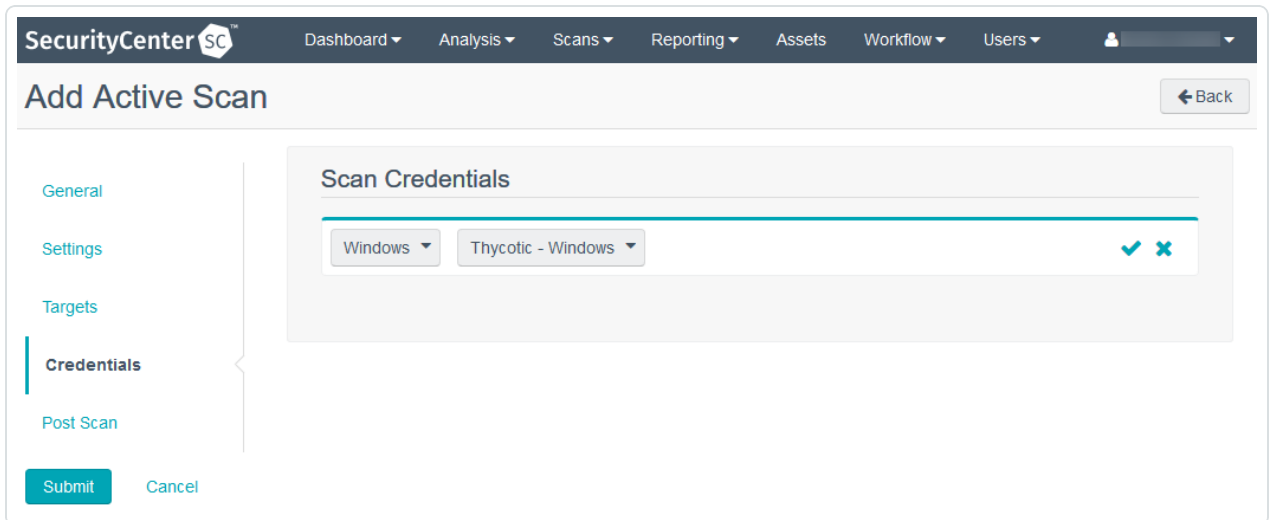
4. In the **General** section:
 1. Type a **Name** for the scan.
 2. (Optional) Type a **Description** for the scan.
 3. Select a **Policy** for the scan.
 4. (Optional) Select a **Schedule** for the scan.
5. In the **Settings** section:
 1. If prompted, select a **Scan Zone** for the scan.
 2. Select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

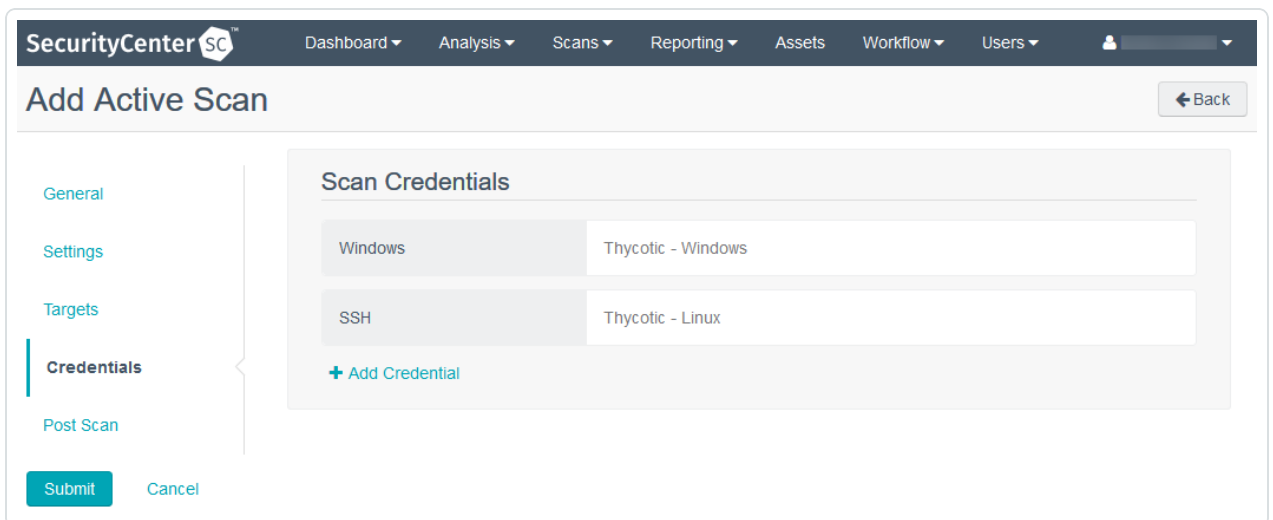
The page updates to show the required options for that target type.
 2. Select one or more **Assets** and/or **IPs / DNS Names** for the scan.
7. In the **Credentials** section, to configure credentialed scanning using your Thycotic credentials, click **Add Credential**.
 1. In the drop-down box, select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



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](#).



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



8. In the **Post Scan** section:
 1. (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**.
 2. (Optional) If you want to configure automatic report generation, click Add Report. For more information, see [Add a Report to a Scan](#).
9. 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 [SecurityCenter 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](#)

About Tenable

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 blind spots, prioritizes threats and reduces exposure and loss. With more than one million users and more than 21,000 customers worldwide, organizations trust Tenable for proven security innovation. Tenable customers range from Fortune Global 500 companies, to the global public sector, to mid-sized enterprises in all sectors, including finance, government, health-care, higher education, retail and energy. Transform security with Tenable, the creators of Nessus® and leaders in continuous monitoring, by visiting tenable.com.