Tenable Nessus for Thycotic Integration Guide

Last Revised: March 15, 2018

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Introduction

This document describes how to deploy Tenable™ Nessus® 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 Nessus, customers are now granted even more choice and flexibility for reducing the credentials headache.

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

Benefits of integrating Nessus with Thycotic Secret Server include:

- Credentials stored in Thycotic Secret Server no longer need to be managed and updated directly within a Tenable solution
- Reduce the time and effort needed to document where credentials are stored within the entire organizational environment
- Automatically enforce security policies within specific departments or for specific business unit requirements, which simplifies compliance
- Reduce the risk of unsecured privileged accounts and credentials across the enterprise

Integration Requirements

The following are required in order to integrate Tenable Nessus with Thycotic Secret Server:

- Thycotic Secret Sever version 8.9 or higher
- Nessus Manager version 6.7 or higher

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

Integrate with Thycotic Secret Server

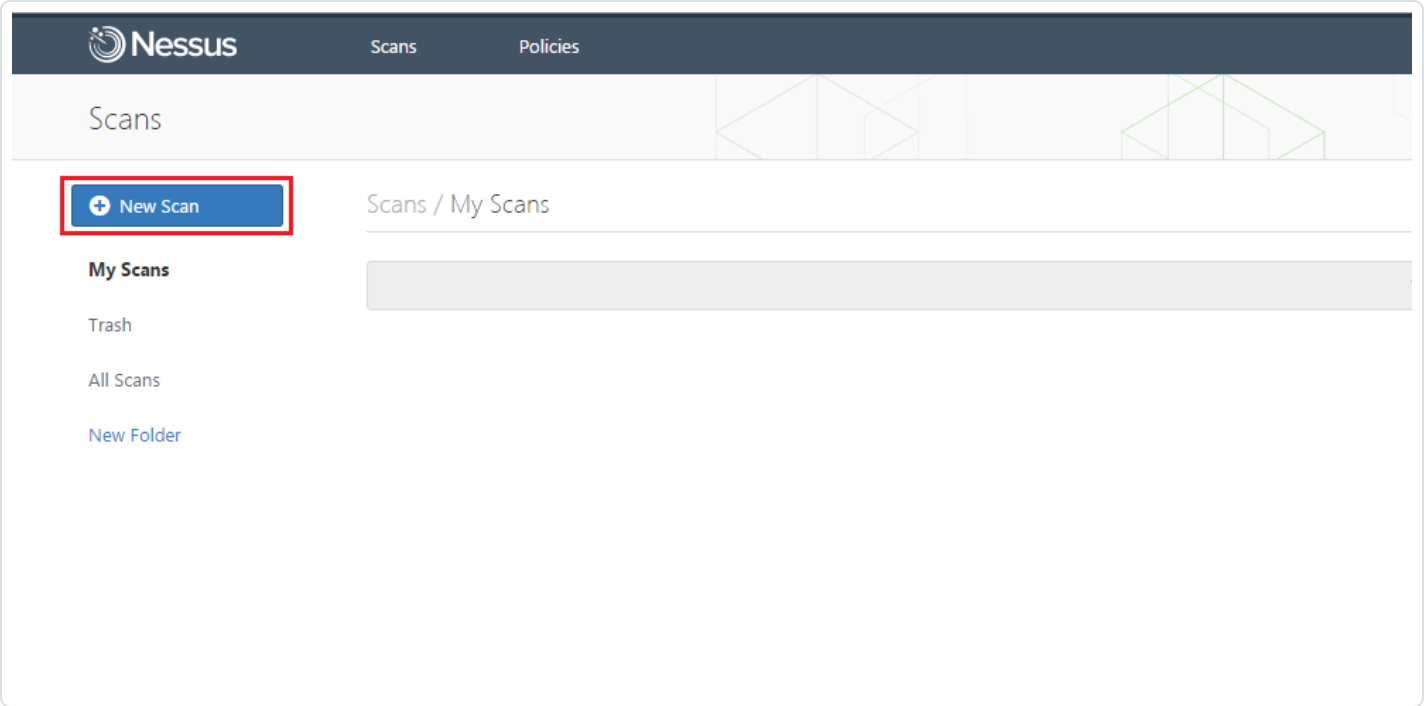
Nessus Manager can be configured to perform credentialed network scans of both Windows and Linux systems using Thycotic's password management solution. Thycotic's integration with Nessus Manager is seamless, so credentials are configured similarly to other credentialed network scans.

Configure Windows Credentials

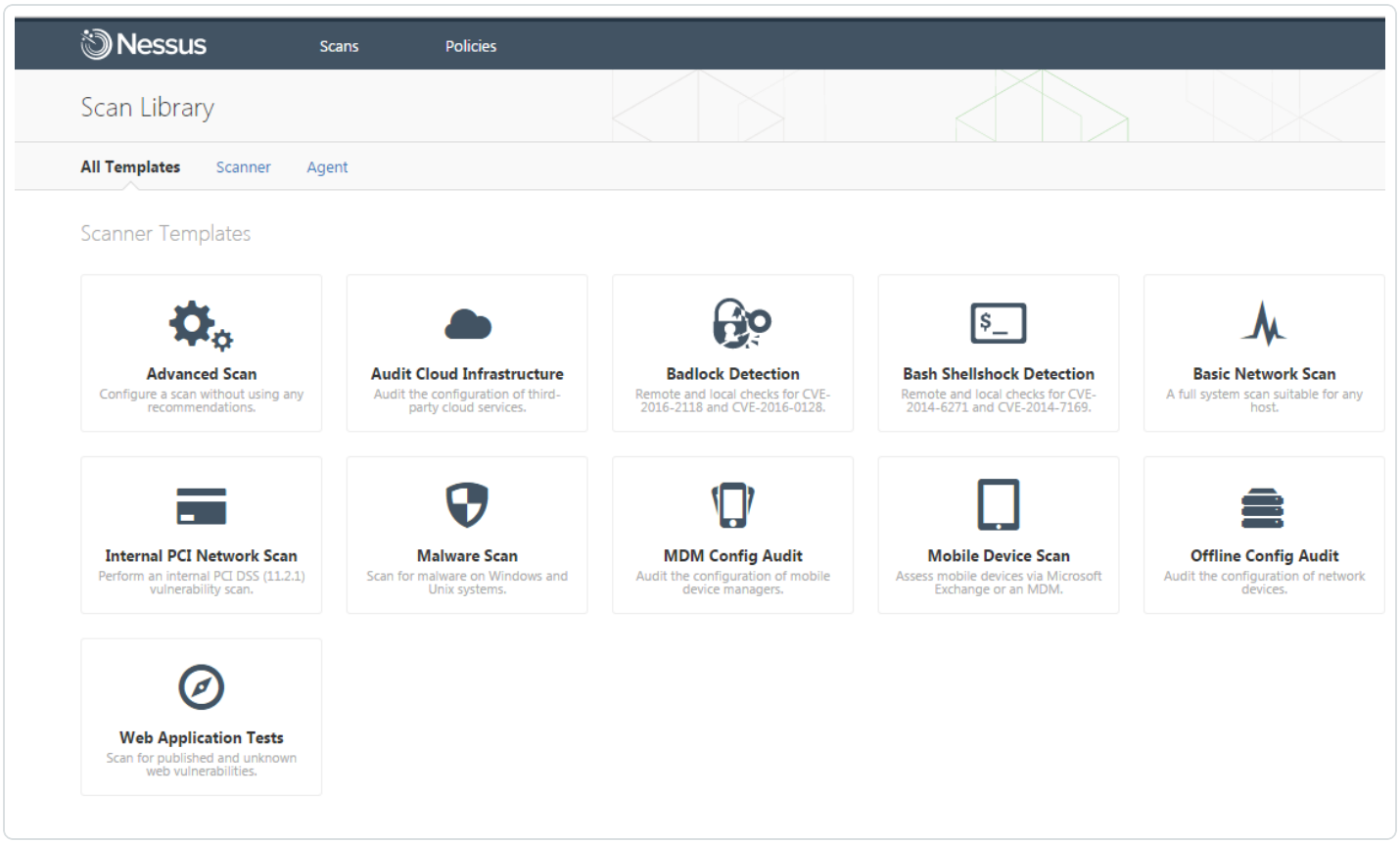
Configure Linux Credentials

Configure Windows Credentials

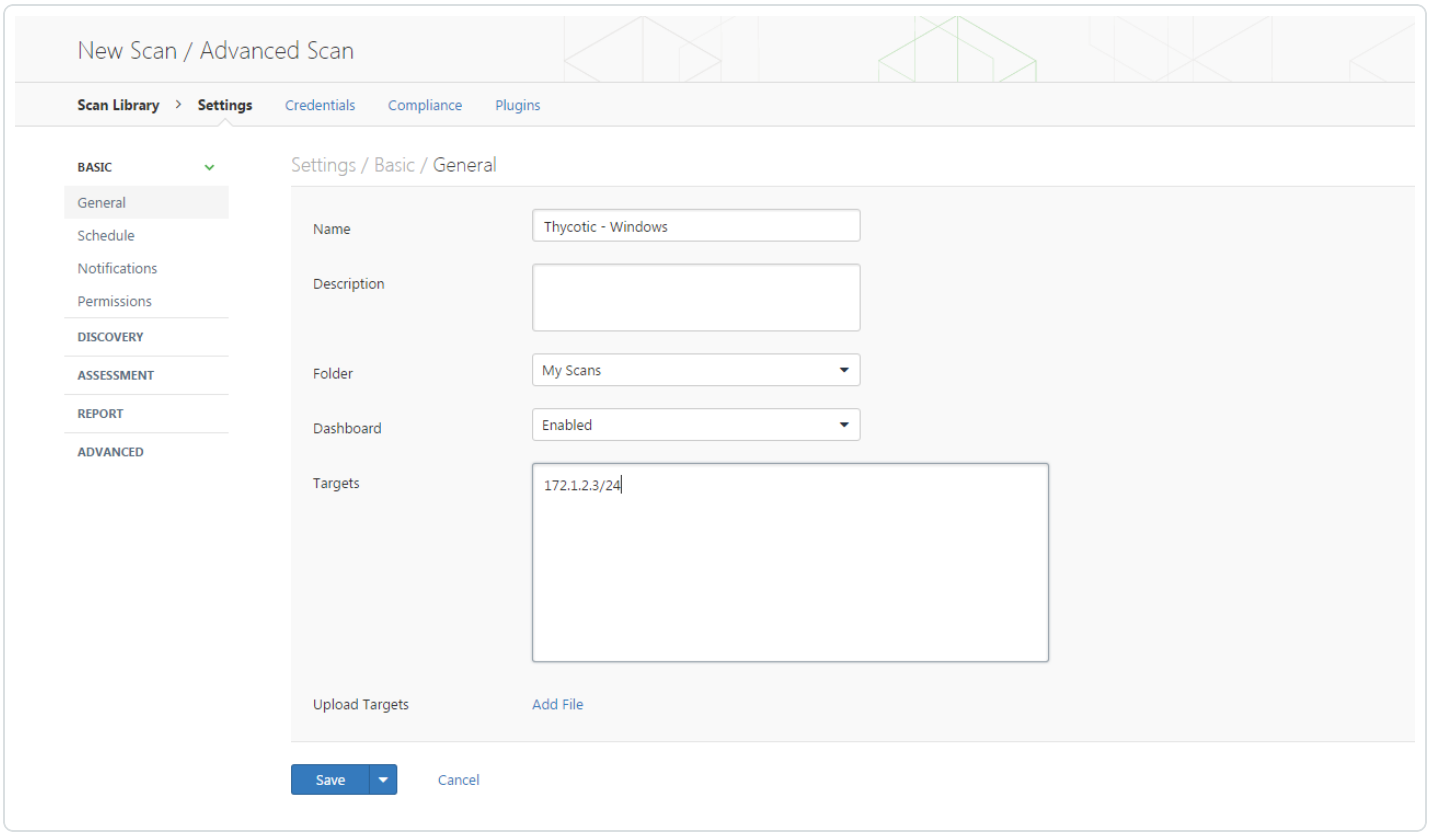
Log in to Nessus Manager and click the **+ New Scan** button to configure Nessus Manager for credentialed scans of Windows systems using Thycotic's password management solution.



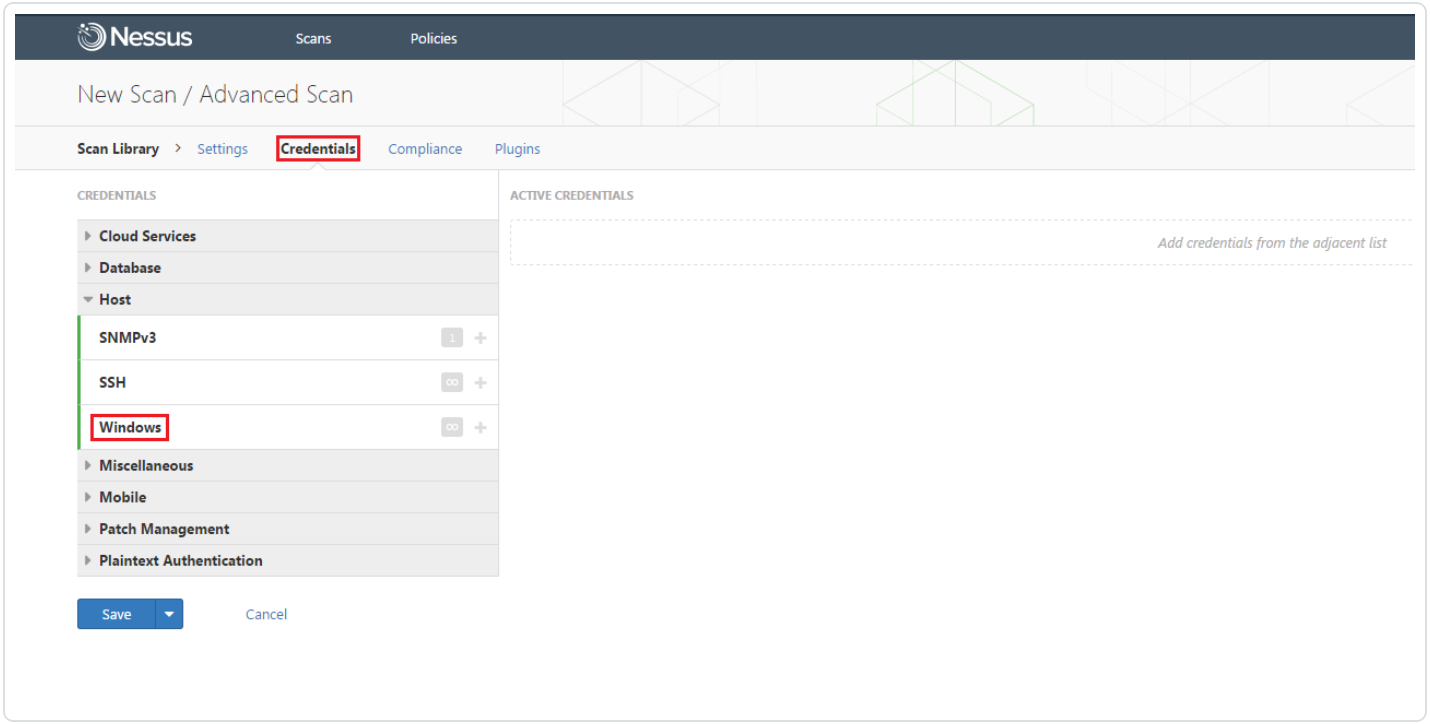
Select a "Scanner Template" for the scan type required for your scan. For demonstration purposes, the "Advanced Scan" template will be used.



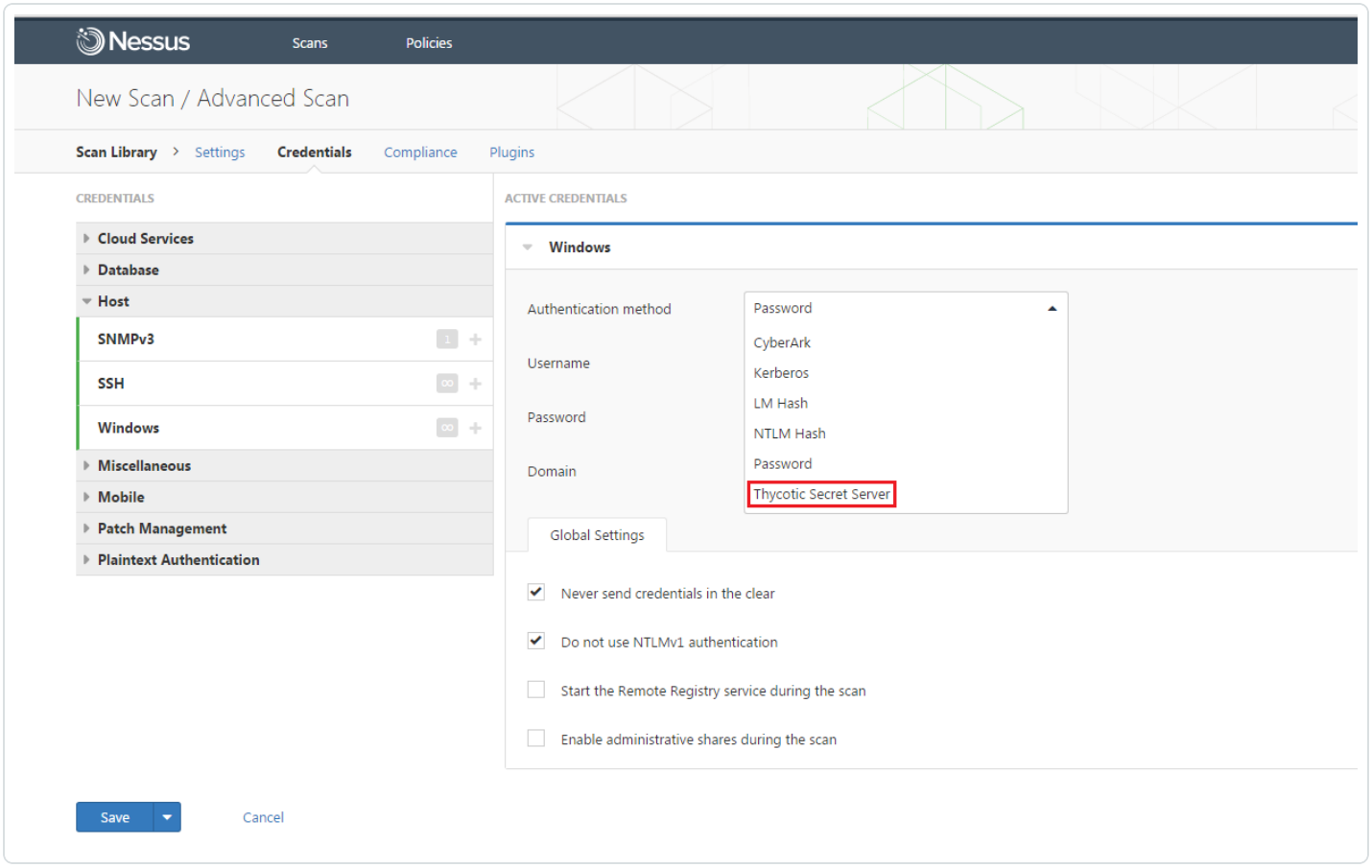
To configure a credentialed scan for Windows systems using Thycotic's password management solution, enter a descriptive **Name** and enter the IP address(es) or hostname(s) of the scan **Targets**.



Once the “Name” and “Targets” have been configured, click on **Credentials** and then select **Windows** from the left-hand menu.



Click the **Authentication method** drop-down and select **Thycotic Secret Server**.



Configure each field for Windows authentication. Refer to “Table 1 – Thycotic Windows Credentials” below for a description of each field. Once the Windows credentials have been configured, click **Save** to finalize the changes.

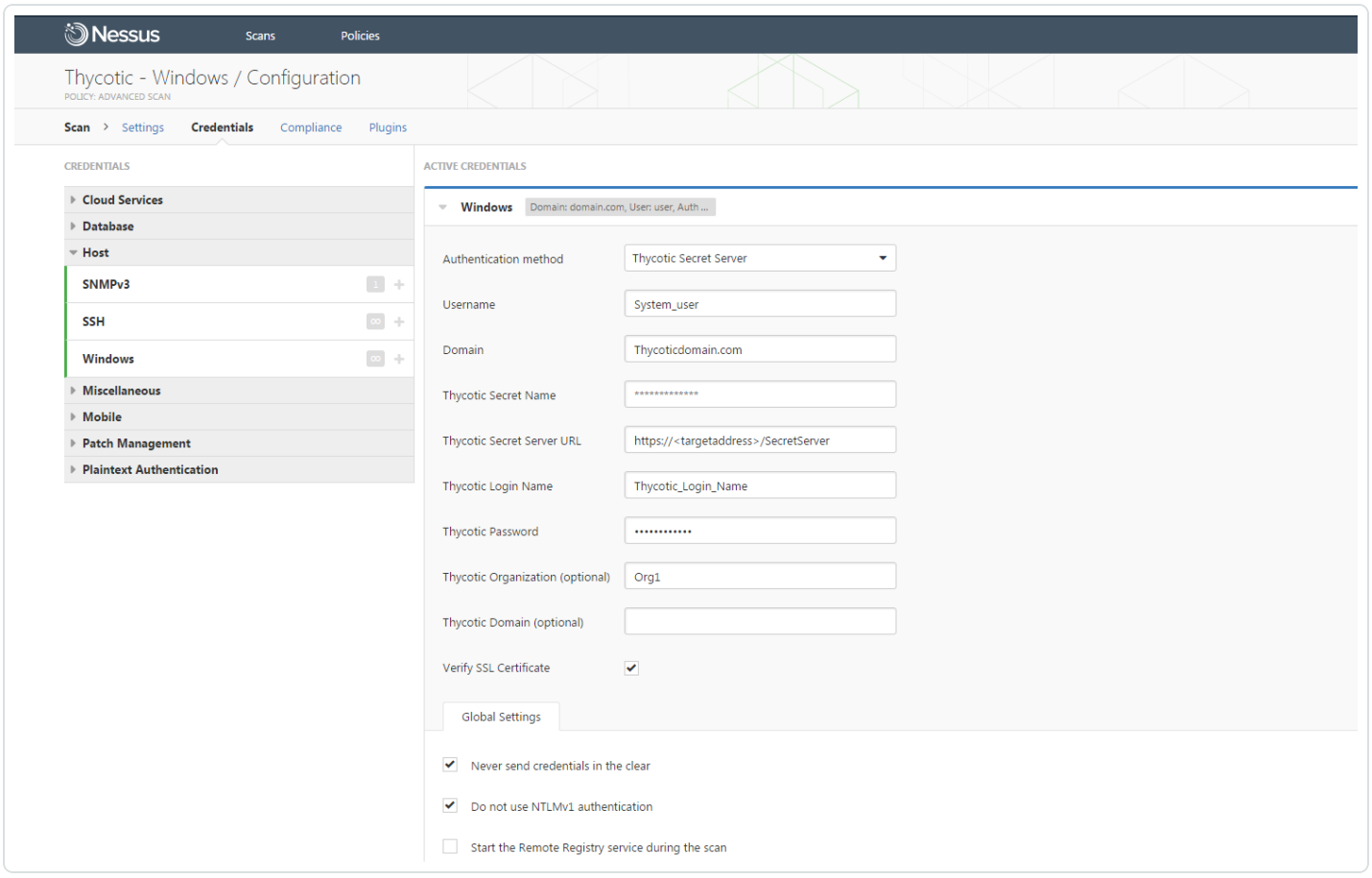
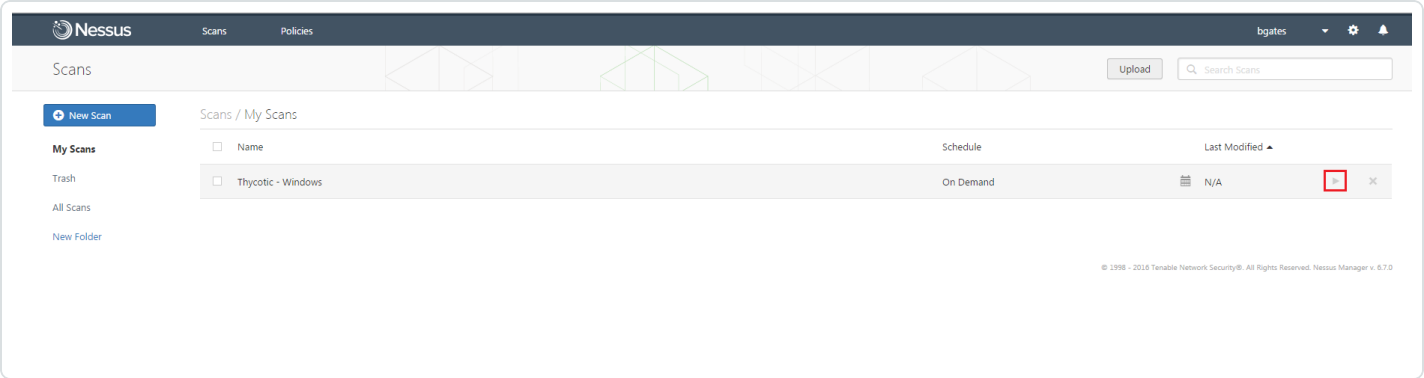


Table 1 – Thycotic Windows Credentials

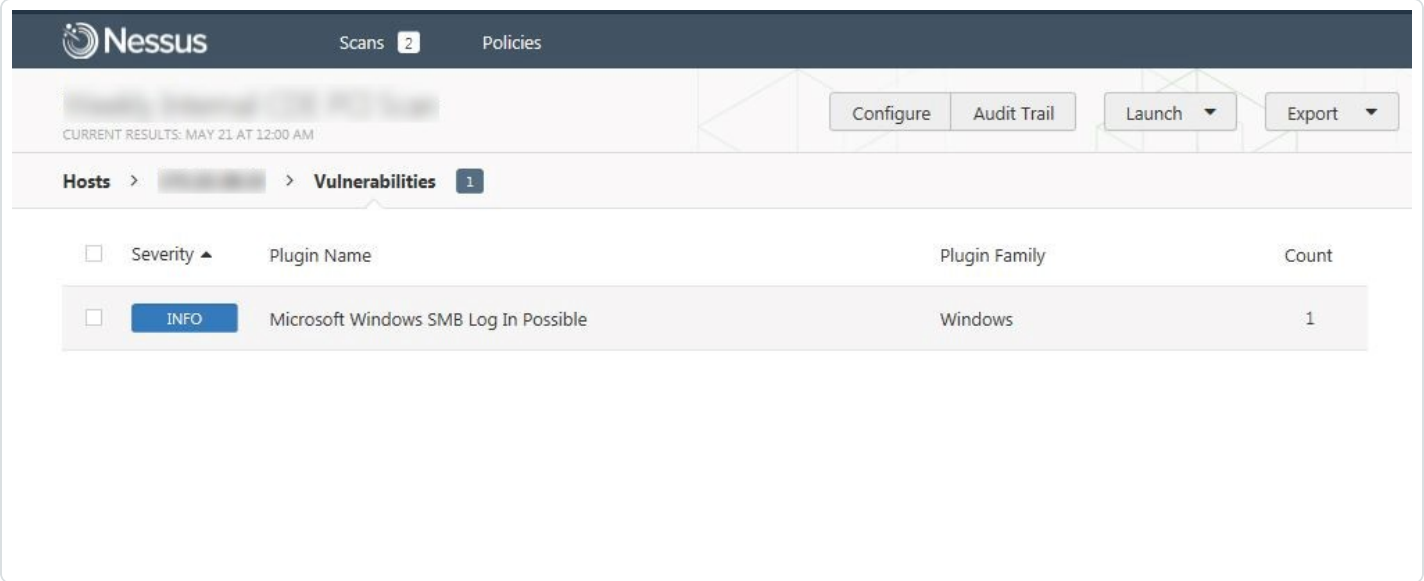
Option	Description
Username	The target system(s) username
Domain	This is an optional field if the above username is part of a domain
Thycotic Secret Name	The value (“Secret Name”) that the secret is stored as on the Thycotic server
Thycotic Secret Server URL	URL of the Thycotic Secret Server, which sets the transfer method, target, and target directory. This information can be found in Admin > Configuration > Application Settings > Secret Server URL on the Thycotic server.
Thycotic Login Name	The username used to authenticate to the Thycotic server
Thycotic Password	The password associated with the Thycotic Login Name
Thycotic Organization	This is an optional value used in cloud instances of Thycotic to

(optional)	define which organization should be queried
Thycotic Domain (optional)	This is an optional value set if the domain value is set for the Thycotic server
Verify SSL Certificate	Use the Custom_CA setup method to validate SSL server certificates

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



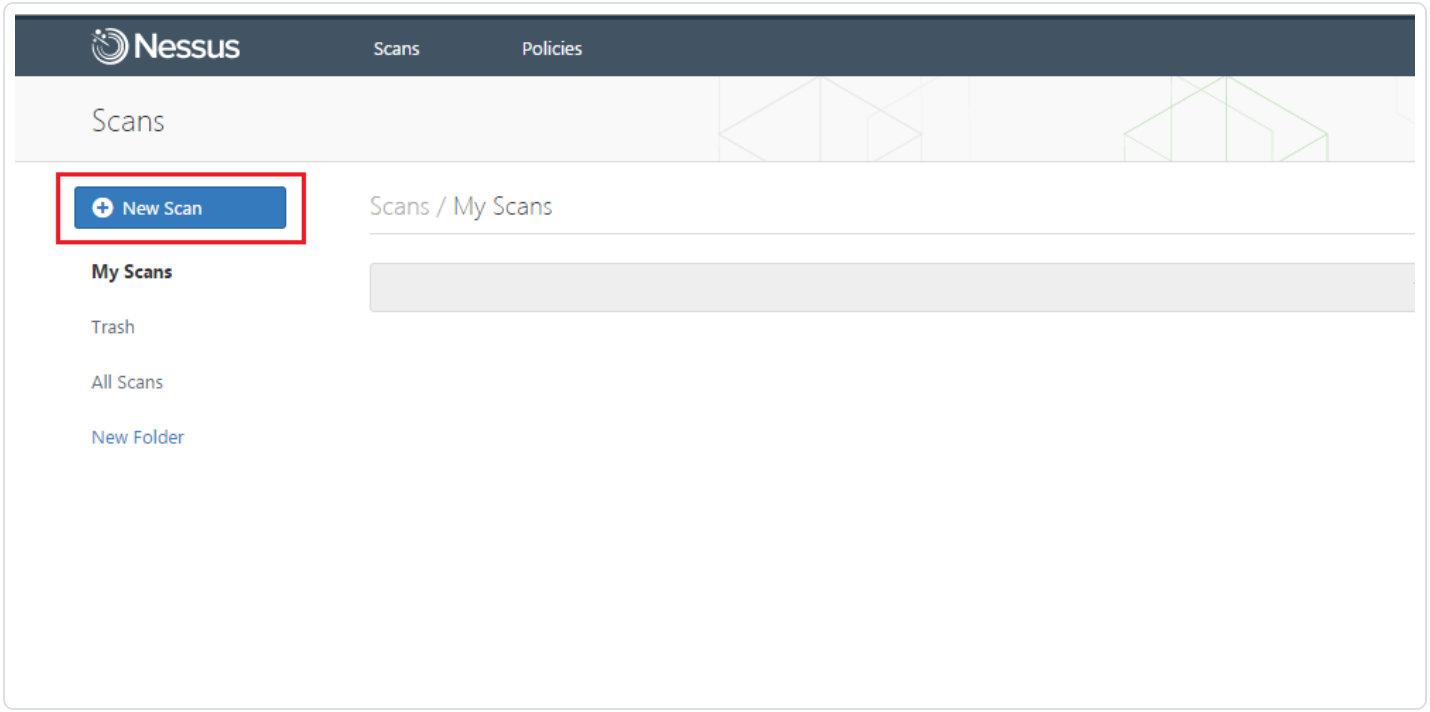
Once the scan has completed, select the completed scan and look for “Plugin ID 10394” (shown below), which validates that authentication was successful. If the authentication is not successful, refer to the “Troubleshooting” section of this document.



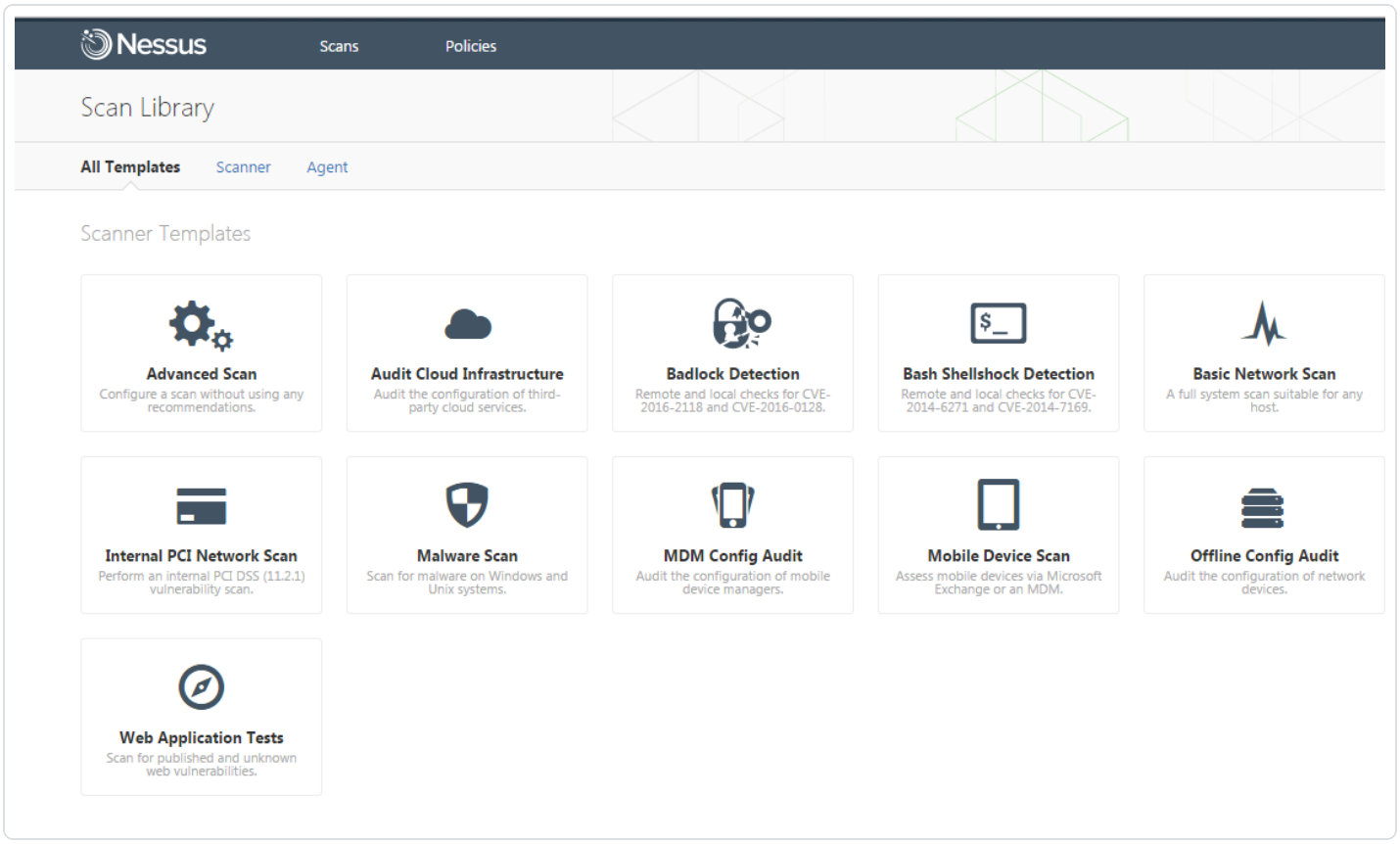
Configure Linux Credentials

Configuring Linux credentialed scans follows the same basic steps as Windows credentialed scans with only a few minor differences.

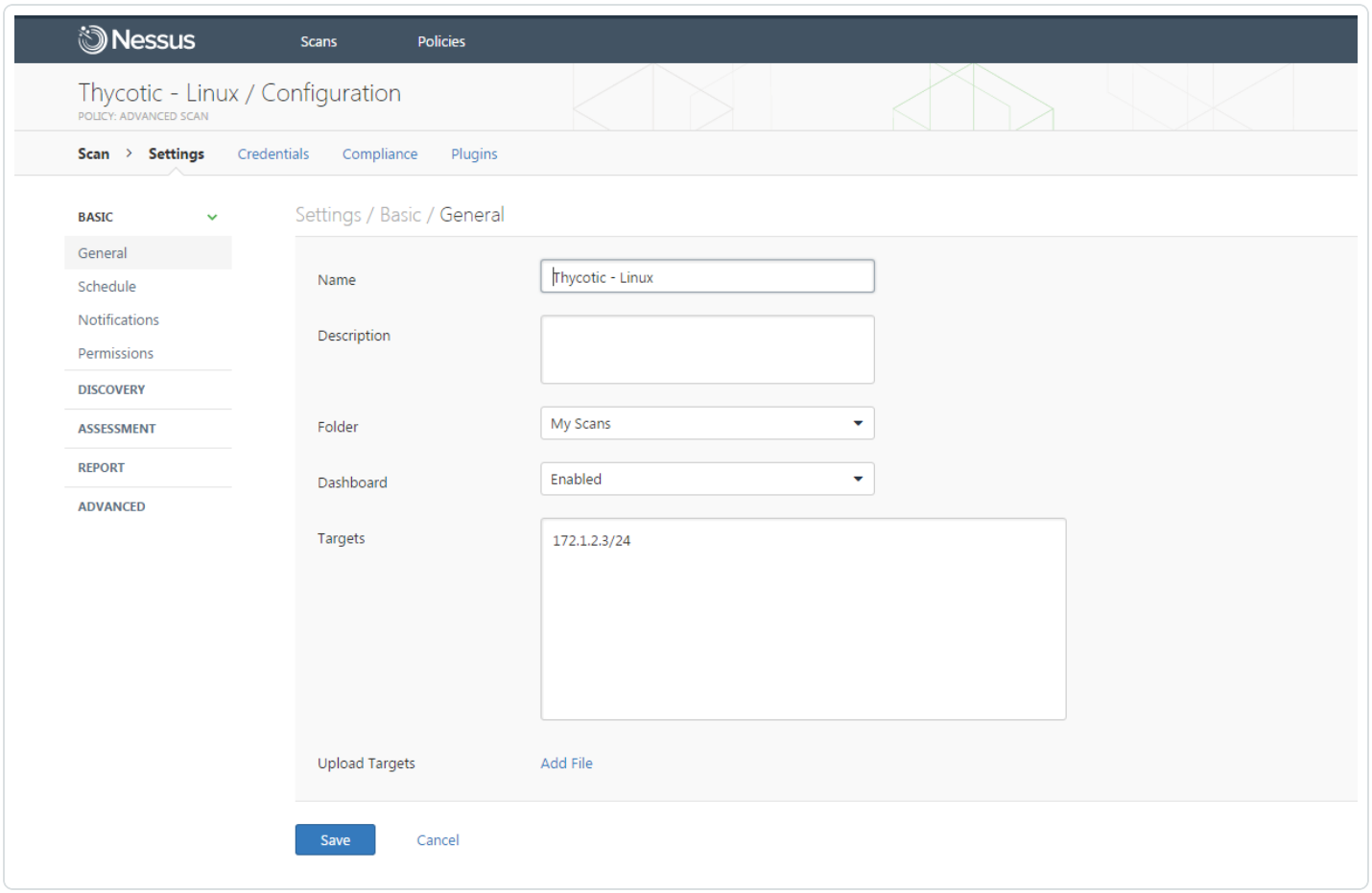
Log in to Nessus Manager and click the **+ New Scan** button to begin the Linux credentialed scan configuration.



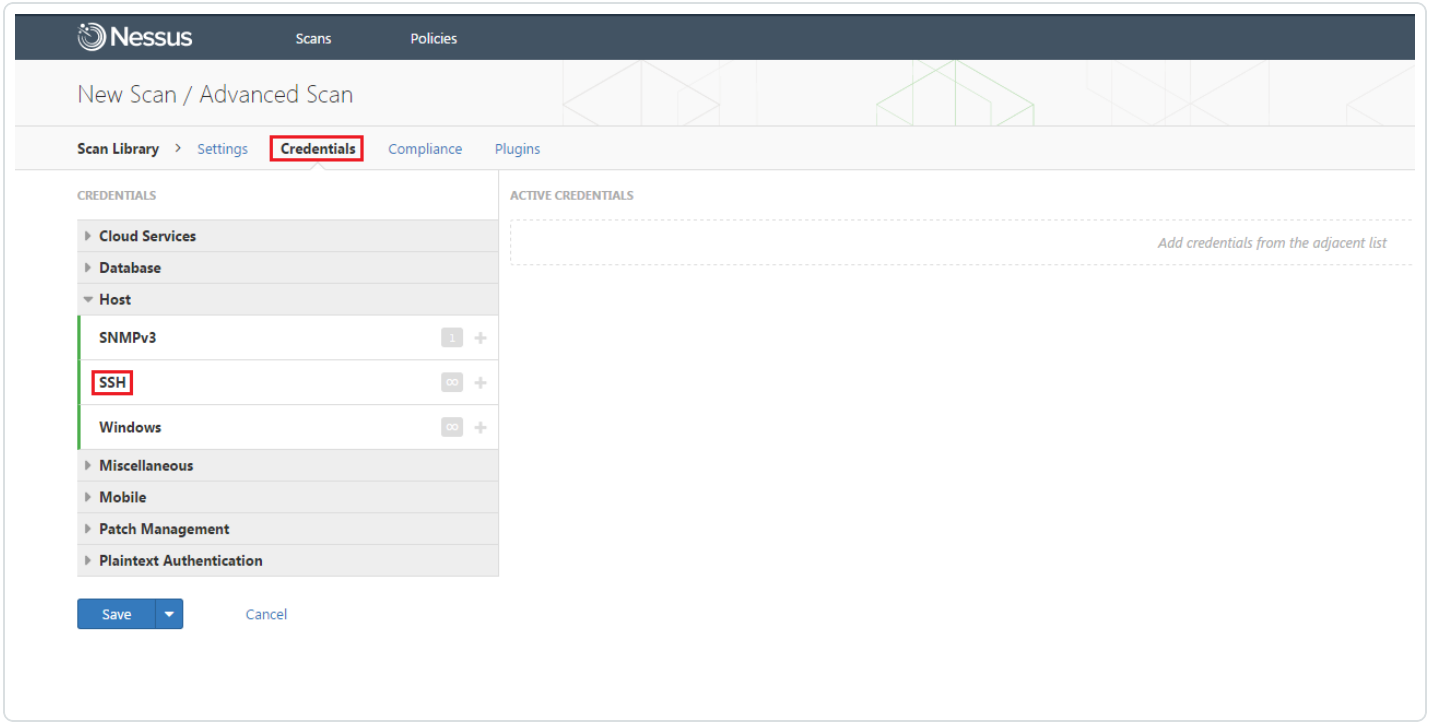
Select a “Scanner Template” for the scan type required for your scan. For demonstration purposes, the “Advanced Scan” template will be used.



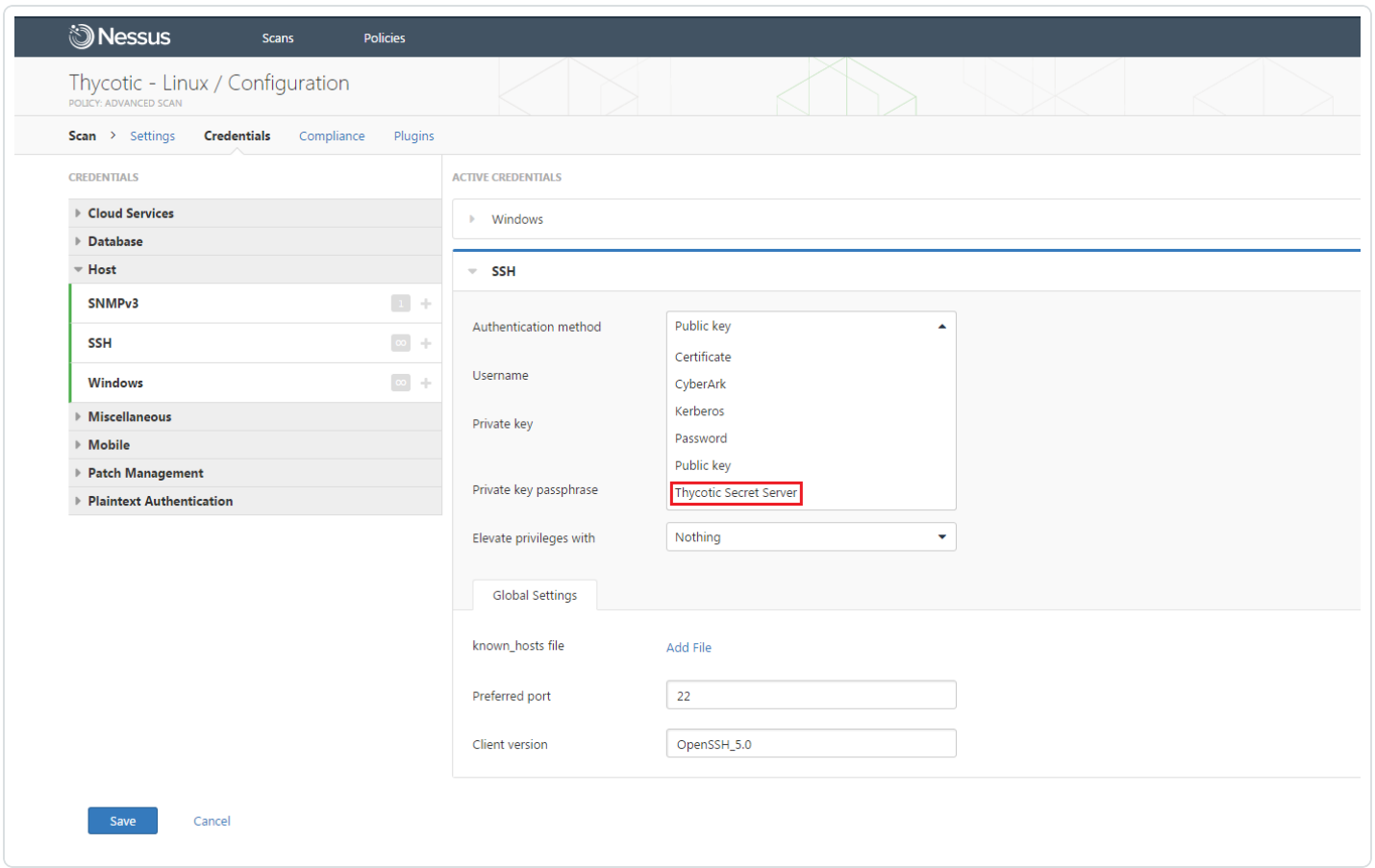
To configure a credentialed scan for Linux systems using Thycotic's password management solution, enter a descriptive **Name** and enter the IP address(es) or hostname(s) of the scan **Targets**.



Once the “Name” and “Targets” have been configured, click on **Credentials** and then select **SSH** from the left-hand menu.



Click the **Authentication method** drop-down and select **Thycotic Secret Server**.



Configure each field for SSH authentication. Refer to “Table 2 – Thycotic SSH Credentials” below for a description of each field. Once the SSH credentials have been configured, click **Save** to finalize the changes.

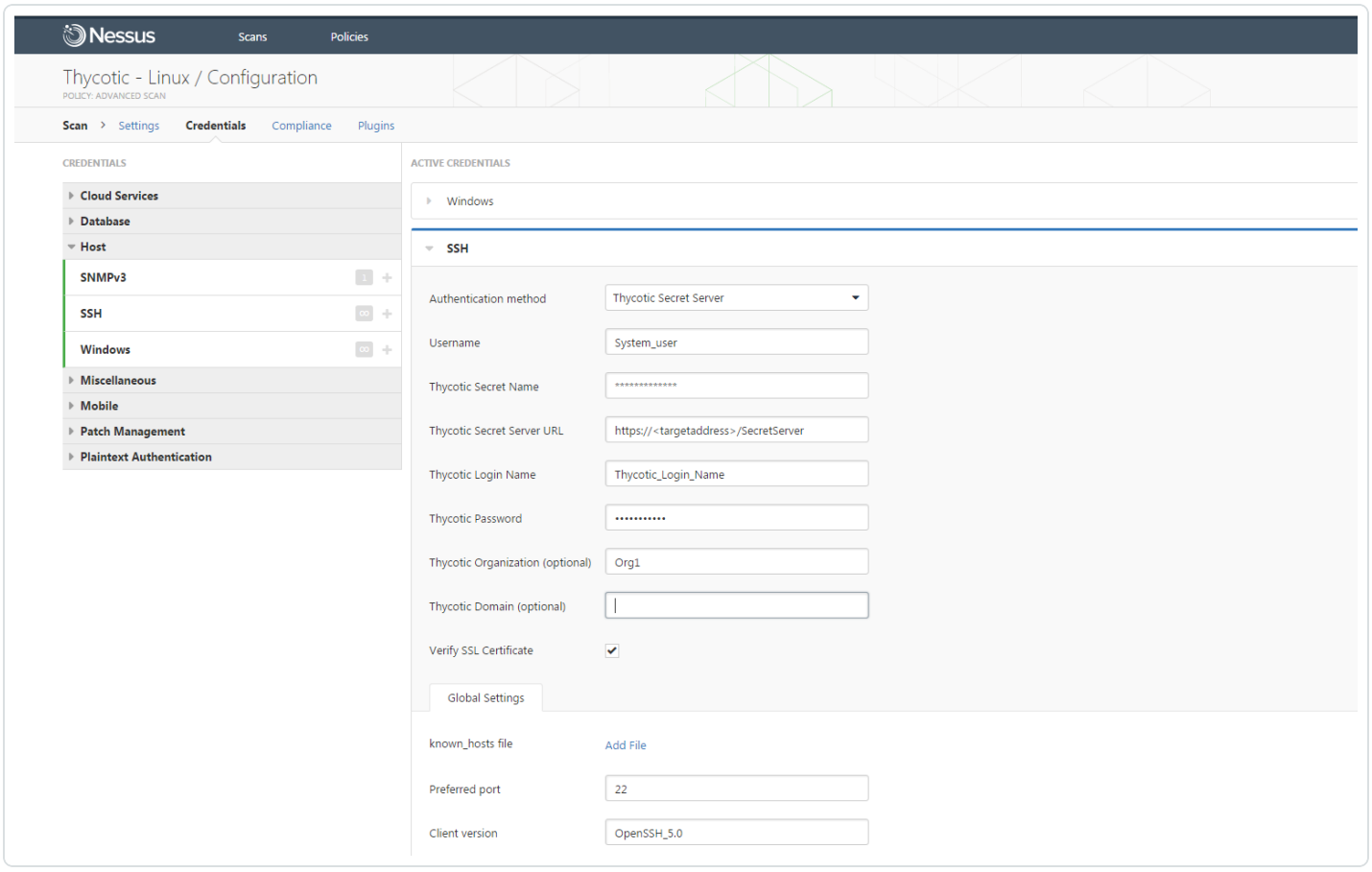


Table 2 – Thycotic SSH Credentials

Option	Description
Username	The target system(s) username
Thycotic Secret Name	The value (“Secret Name”) that the secret is stored as on the Thycotic server
Thycotic Secret Server URL	URL of the Thycotic Secret Server, which sets the transfer method, target, and target directory. This information can be found in Admin > Configuration > Application Settings > Secret Server URL on the Thycotic server.
Thycotic Login Name	The username used to authenticate to the Thycotic server

Thycotic Password	The password associated with the Thycotic Login Name
Thycotic Organization (optional)	This is an optional value used in cloud instances of Thycotic to define which organization should be queried
Thycotic Domain (optional)	This is an optional value set if the domain value is set for the Thycotic server
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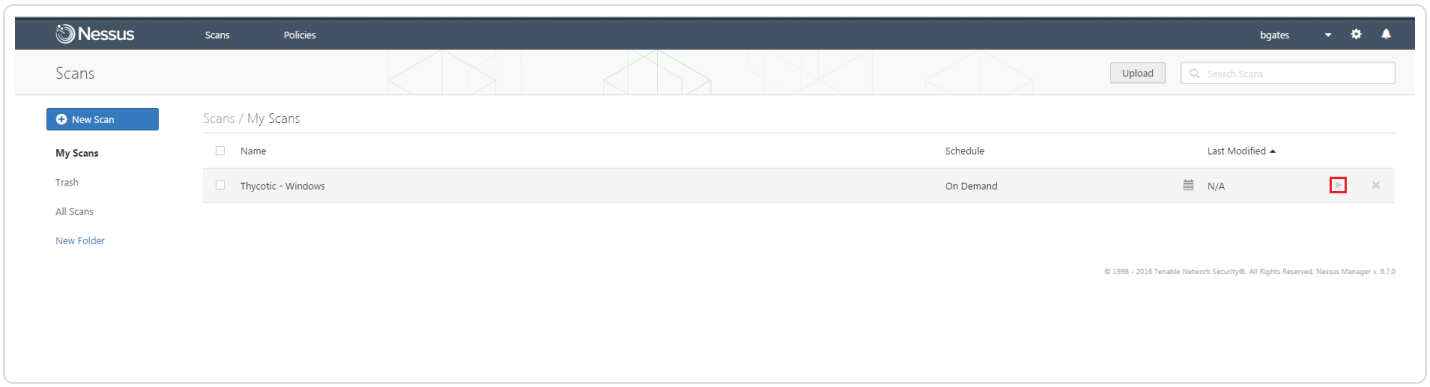
To verify the integration is working, click the **Launch button** to initiate an on-demand scan.

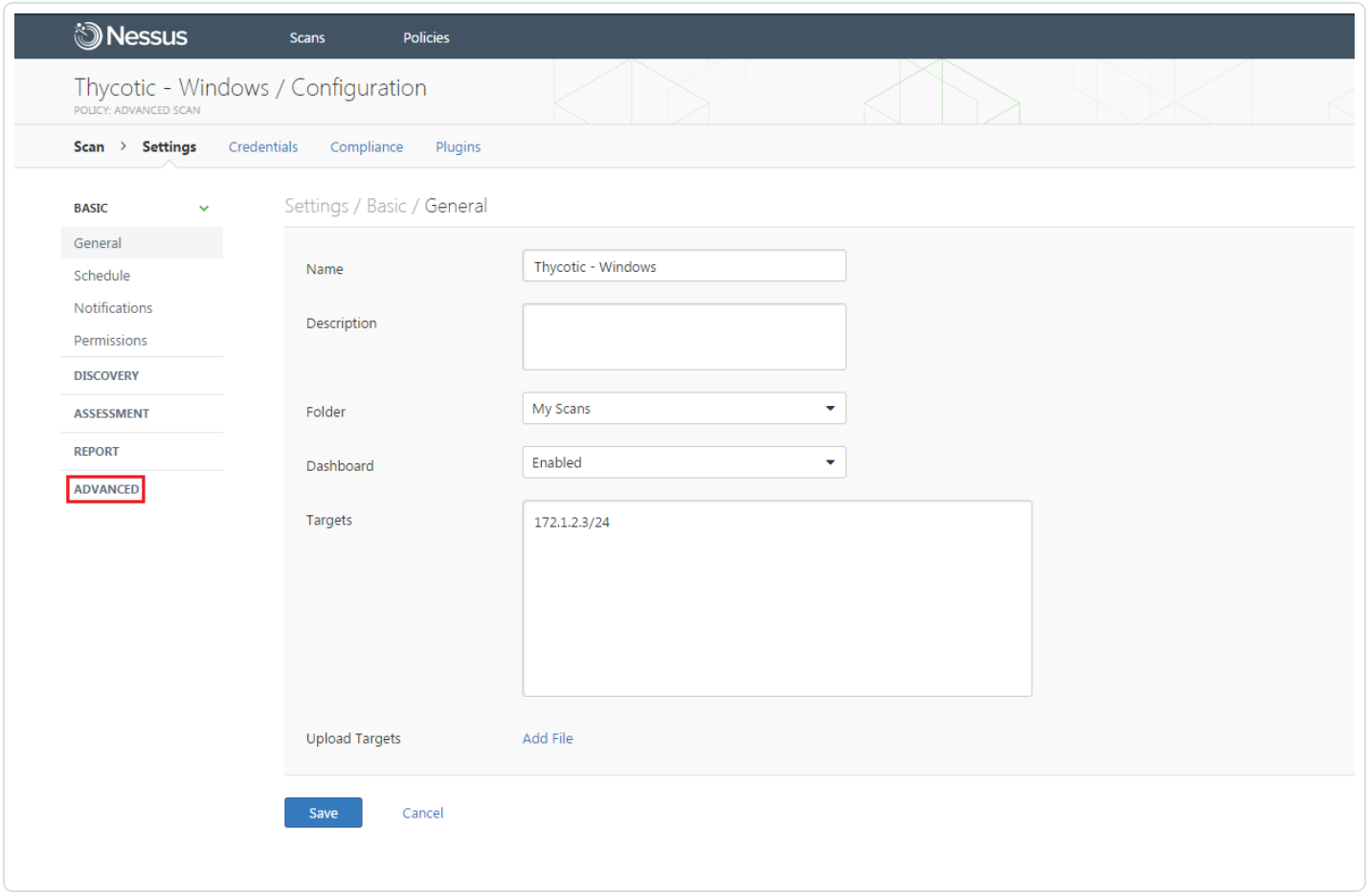


Once the scan has completed, select the completed scan and look for “Plugin ID 12634”, which validates that authentication was successful. If the authentication is not successful, refer to the “Troubleshooting” section of this document.

Troubleshooting

Nessus Manager 6.7 offers the ability to enable plugin debugging, which will allow for easier troubleshooting and resolution should issues arise. Enabling plugin debugging attaches available debug logs from plugins to the vulnerability output of the scan it is enabled on.

To enable plugin debugging, navigate to scan **Settings** and click **Advanced** in the left-hand menu.



Select the **Enable plugin debugging** checkbox and click **Save** to finalize the change.