Admin UI Configuration

This chapter provides instructions for configuring your appliance using the Admin UI. It includes the following topics:

Introduction

The Admin UI is the recommended tool for administrators to use to configure the Secure Malware Analytics Appliance. It is a Web user interface that can be used once an IP address has been configured on the Admin interface.

The configuration includes the following steps:

- Change Admin UI Admin Password
- Review End User License Agreement
- Configure Network Settings
- Install License
- Configure NFS
- Configure Clustering
- Configure Email
- Configure Notifications
- Configure Date and Time
- Configure System Log
- Review and Install Configuration Settings

Note Not all configuration steps are completed using the configuration wizard. See the *Cisco Secure Malware Analytics Appliance Administration Guide* for configuring settings not included in the wizard, such as SSL Certificates and Backups.

Important The steps in the following sections should be completed in one session to reduce the chance of an interruption to the IP address during configuration.

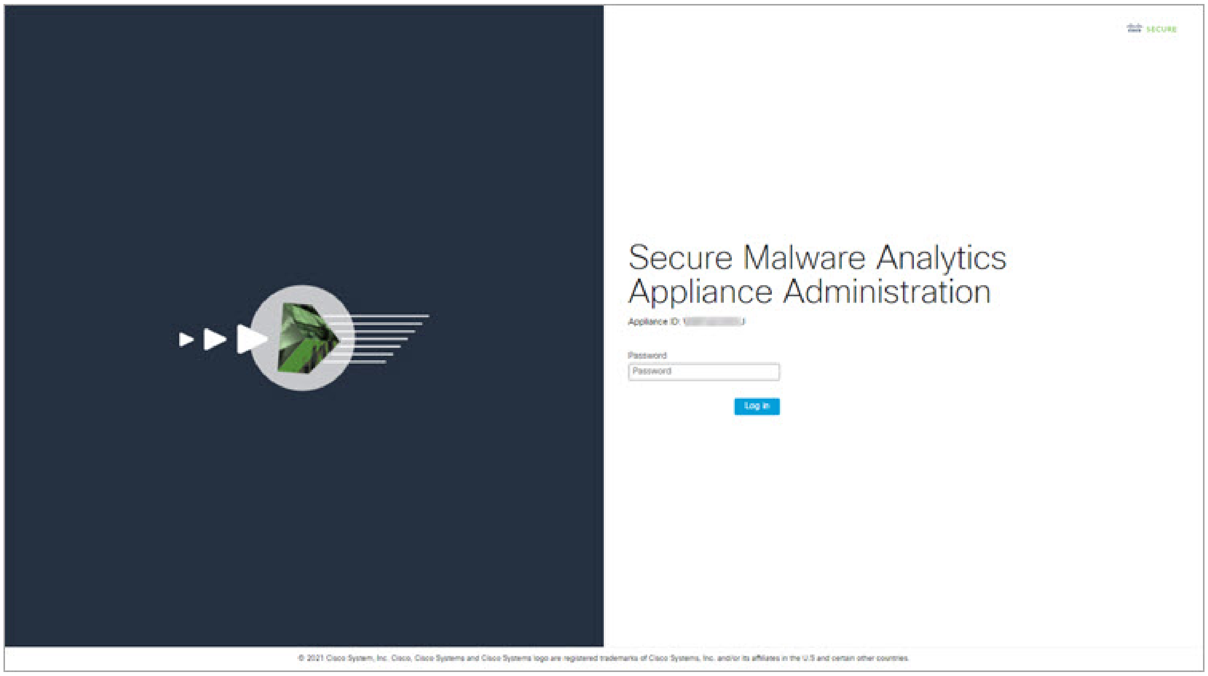
Log In to the Admin UI

Perform the following steps to log in to the Secure Malware Analytics Admin UI.

Step 1 In a browser, enter the URL for the Admin UI (**https://<adminIP>**/ or **https://<adminHostname>**/) to open the Secure Malware Analytics Admin UI login screen.

Note The Hostname is the appliance serial number.

Figure 1: Admin UI Login Screen



Secure Malware Analytics Appliance Administration

Appliance ID: [redacted]

Password: Password

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Step 2 Enter the initial **Admin Password** that you copied from the Admin TUI and click **Log In**.

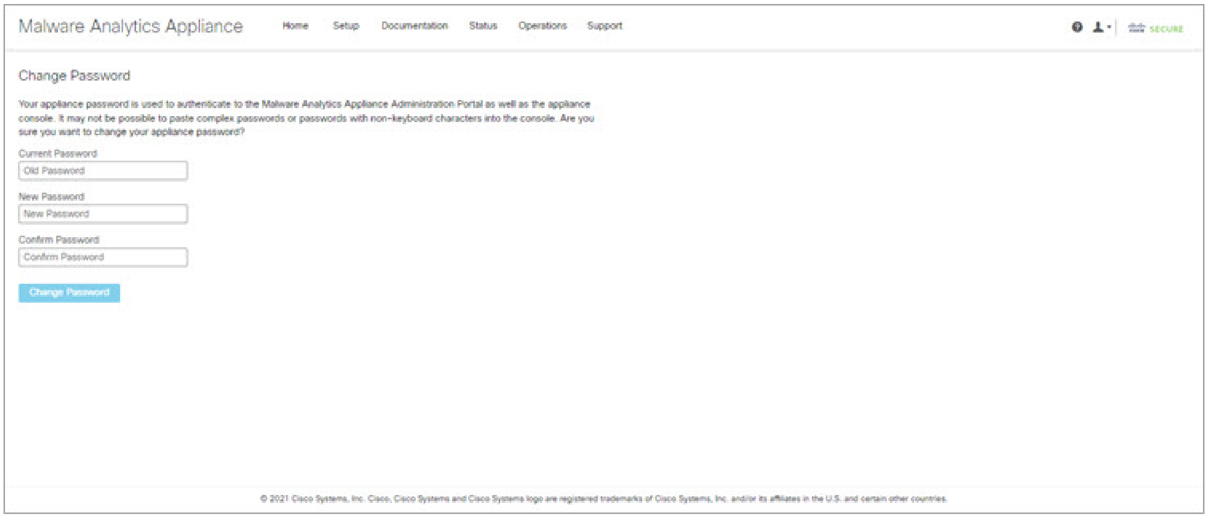
What to do next

Proceed to Change Admin Password.

Change Admin Password

The initial Admin password was generated randomly during the pre-ship Secure Malware Analytics installation and is visible as plain text in the Admin TUI. You must change the initial Admin password before continuing with the configuration.

Figure 2: Change Admin Password



Change Password

Your appliance password is used to authenticate to the Malware Analytics Appliance Administration Portal as well as the appliance console. It may not be possible to paste complex passwords or passwords with non-keyboard characters into the console. Are you sure you want to change your appliance password?

Current Password: Old Password

New Password: New Password

Confirm Password: Confirm Password

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Step 1 Enter the old password from the Admin TUI in the **Current Password** field. (You should have this password saved in a text file.)

Step 2 Enter a **New Password** and re-enter it in the **Confirm New Password** field.

The new password must contain the following: 8 characters minimum, one number, one special character, at least one uppercase and one lowercase character.

Step 3 Click **Change Password**. The password is updated.

Note The new password will not be displayed in visible text in the Admin TUI so be sure to save it somewhere.

What to do next

Proceed to Review End User License Agreement.

Review End User License Agreement

Review the license agreement and confirm that you agree to it.

Step 1 Review the End User License Agreement.

Step 2 Scroll to the end and click **I HAVE READ AND AGREE**.

Note We recommend that you follow the configuration workflow and configure the networks before you install the license.

What to do next

Proceed to Configure Network Settings.

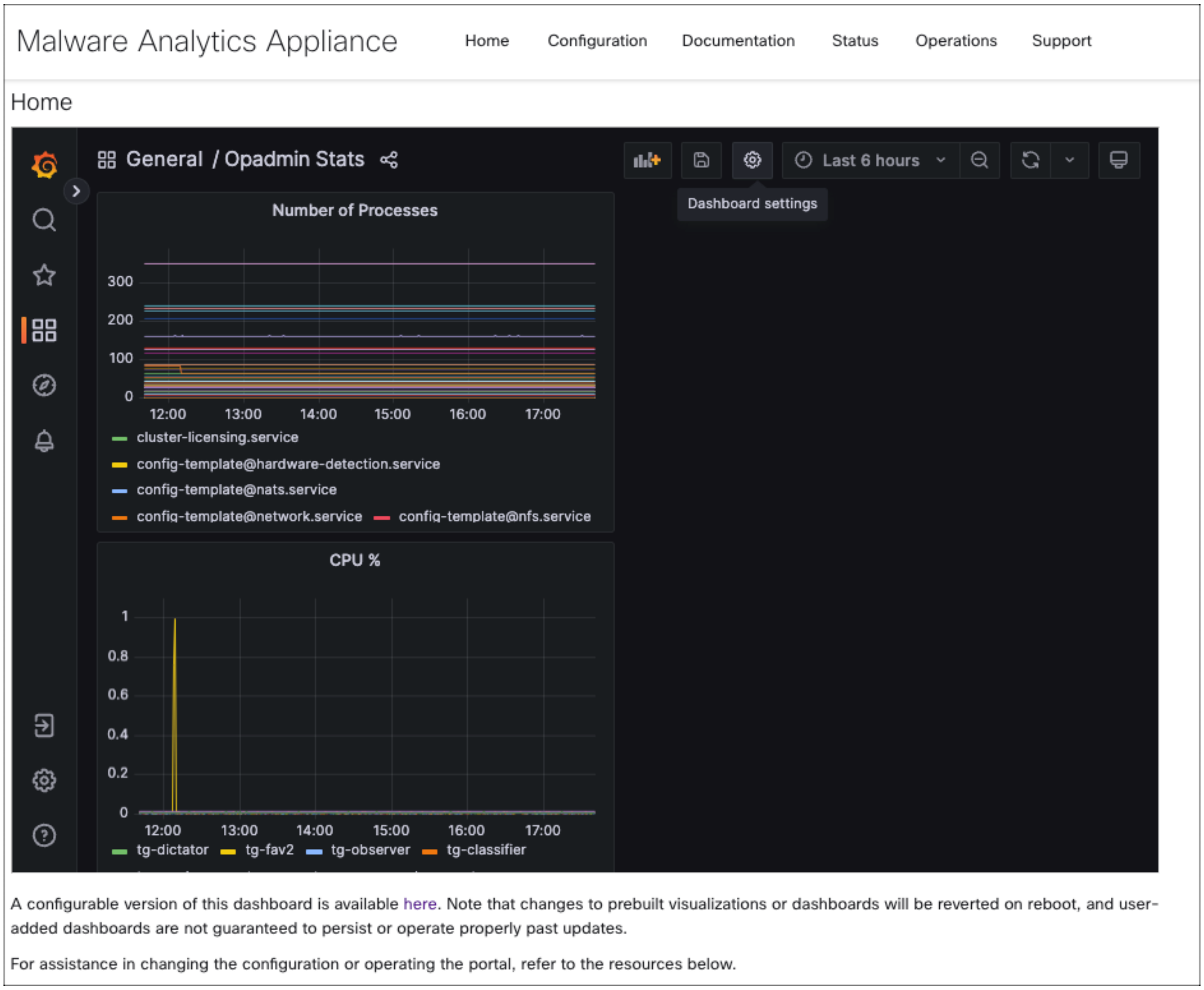
Configuration Wizard

The Configuration wizard takes you through configuring your Secure Malware Analytics Appliance.

If you need to make changes after you have completed the wizard configuration, you can access the settings from the **Configuration** tab in the Admin UI.

Home

Figure 3: Home



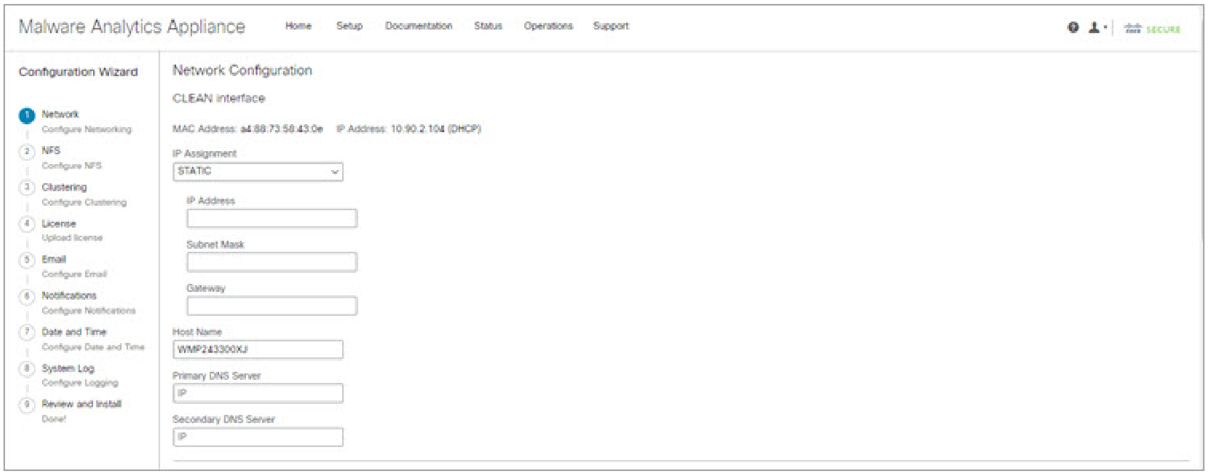
A configurable version of this dashboard is available here. Note that changes to prebuilt visualizations or dashboards will be reverted on reboot, and user-added dashboards are not guaranteed to persist or operate properly past updates.

For assistance in changing the configuration or operating the portal, refer to the resources below.

Configure Network Settings

If you configured static network settings in the Admin TUI, the IP addresses displayed on the **Network Configuration** page reflect the values you entered in the Admin TUI during the Secure Malware Analytics Appliance network configuration.

Figure 4: Network Configuration



Network Configuration

CLEAN interface

MAC Address: a4:88:73:58:43:0e IP Address: 10.90.2.104 (DHCP)

IP Assignment: STATIC

IP Address:

Subnet Mask:

Gateway:

Host Name: WMP243300XJ

Primary DNS Server: IP

Secondary DNS Server: IP

Step 1 Review the IP addresses and confirm they are accurate.

Step 2 If you used DHCP for your initial connection and now need to change the Clean and Dirty IP networks to static IP addresses, follow the steps in the Using DHCP section of the Cisco Secure Malware Analytics Appliance Administration Guide.

What to do next

Proceed to Configure NFS, on page 6.

Configure NFS

The next step in the workflow is NFS configuration. This task is required for backups and for clustering. See the NFS Requirements section in the *Cisco Secure Malware Analytics Appliance Administration Guide* for more information.

The configuration process includes mounting the NFS store, mounting the encrypted data, and initializing the Secure Malware Analytics Appliance local datastores from the contents of the NFS store.

If you would like to skip this step or continue and return later, click **Continue without NFS**.

Step 1 Click **NFS** in the navigation pane to open the **NFS Configuration** page.

Step 2 Enter the following information. Appliances in a cluster should share the same Host and Path as those set in the first cluster node.

- **Host** - The NFSv4 host server. We recommend using the IP address.
- **Path** - The absolute path to the location on the NFS host server under which files will be stored. This does not include the Key ID suffix, which will be added automatically.
- **Options** - NFS mount options to be used, if this server requires any deviations from standard Linux defaults for NFSv4. The default is **rw**.

- **FS Encryption Key Hash** - Click **Generate Key** to generate a new encryption key. You will need this key to restore backups later. (At that time, click **Upload** and upload the key required for the backup.)

The **Status** is **Enabled_Pending Key**.

Step 3 Click **Save**. The page refreshes and the **Generate Key** and **Activate** buttons become available.

Note If the key correctly matches the one used to create a backup, the **Key ID** displayed in Admin UI after upload will match the name of a directory in the configured path. Backups cannot be restored without the encryption key. The configuration process includes the process of mounting the NFS store, mounting the encrypted data, and initializing the appliance's local datastores from the NFS store's contents.

Step 4 Click **Generate Key** to generate a new NFS encryption key.

Step 5 Click **Activate**. The **State** changes to **Active**. The **Upload** button changes to **Download.**

Step 6 Click **Download** to download a copy of the encryption key for safekeeping.

If this appliance is the first node in a cluster, you will need the key for joining additional nodes to the cluster. If the first node has already been configured, then click **Upload** and choose the NFS encryption key you downloaded from the first node when you started the new cluster.

Step 7 Click **Save**.

The page refreshes; the **Key ID** is displayed and the **Activate** button is enabled.

Step 8 Click**Activate**.

The **Status** changes to **Active** after a few seconds (lower left corner).

Step 9 When activation has succeeded, click **Continue**.

What to do next

Proceed to Configuring First Cluster Node.

Configure Clustering

The next step in the wizard workflow is to configure clustering. If the appliance being configured is not going to be part of a cluster, then skip to the next configuration step, Install License, on page 9.

The main goal of clustering is to increase the sample analysis capacity of a single system. Each appliance in a cluster saves data in the shared file system, and has the same data as the other nodes in the cluster. Clustering does not increase storage capacity, and it does not increase the *speed* of sample analysis. Instead, clustering makes it possible to analyze more samples in the same amount of time that you can achieve with a single appliance. Because the data is the same on all nodes, sample analysis can be passed from the submitting node to another cluster node that is not as busy. Clusters can include 2-7 appliances.

Clustering also helps support recovery from failure of one or more appliances in the cluster, depending on the cluster size.

You can create a cluster with new appliances, with appliances that have had their data removed (not Wiped), or a combination of new and existing appliances. When joining a Secure Malware Analytics Appliance to a cluster, it's convenient if the NFS and clustering are configured during the initial setup. You can start a cluster post-installation from the **Cluster Configuration** page, but you can't join an installed appliance into an existing cluster.

For more information about clustering, see the *Secure Malware Analytics Appliance Administrator Guide v2.17*.

If you have questions about installing or reconfiguring clusters, contact Support for assistance.

Note If you are joining an existing appliance to a cluster, remove existing data with the `destroy-data`command, as documented in Reset Appliance as Backup Restore Target section in the *Secure Malware Analytics Appliance Administrator Guide v2.17*. Do not use the Wipe Appliance feature.

Configuring First Cluster Node

Begin a cluster by configuring the first node, and then configure each additional node and join them to the cluster using the NFS key that you downloaded when you configured the first node.

If you've already configured the first node, go to Joining Additional Cluster Nodes.

Clusters are configured and managed in the Admin UI on the **Cluster Configuration** page . This section describes the fields on this page to gain an understanding of an active and healthy cluster (the screenshot shows a cluster with three nodes).

Step 1 Click **Clustering** in the navigation pane to open the **Cluster Configuration** page.

Step 2 Click **Start Cluster** and then click **OK** on the confirmation dialog.

The **Clustering State** changes to **Clustered**.

Step 3 Complete the remaining steps in the wizard and click **Start Installation**. This initiates a restore of the data in cluster mode.

Step 4 Check the health of the newcluster on the **Clustering** page.

What to do next

Proceed to Joining Additional Cluster Nodes

Joining Additional Cluster Nodes

This section describes how to join additional appliances to a cluster. It assumes that the first appliance in the cluster is configured as described in Configuring First Cluster Node. You can now start the configuration steps for the next node.

Step 1 Click the **Configuration** tab and choose **NFS** to open the **NFS Configuration** page.

Step 2 Specify the **Host** and **Path** to match what was set in the first node in the cluster.

Step 3 Click **Save**. The page refreshes and the **Upload** button becomes available.

Step 4 In the **Configuration** menu, choose **Clustering** to open the **Cluster Configuration** page.

Step 5 Click **Join Cluster** and then click **OK** on the confirmation dialog.

The **Cluster State** changes to **Clustered**.

Step 6 Finish the installation. This will initiate a restore of the data in cluster mode.

Step 7 Repeat the procedure for each node you want to join to the cluster.

What to do next

Proceed to Install License, on page 9.

Install License

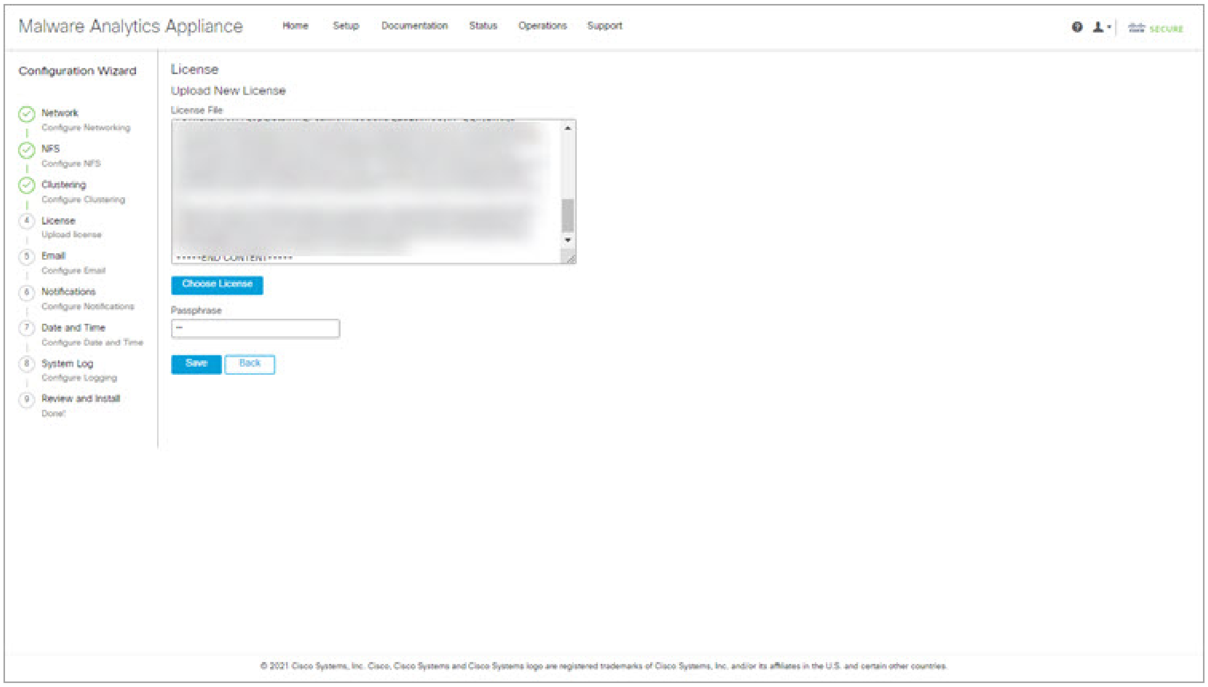
After the clustering, you are ready to install the Secure Malware Analytics license.

Step 1 Click **Upload License** and select the license file from your file manager.

Alternatively, you can retrieve the license from the server. If the appliance has network access when being installed, click **Retrieve License From Server** to get the license over the network.

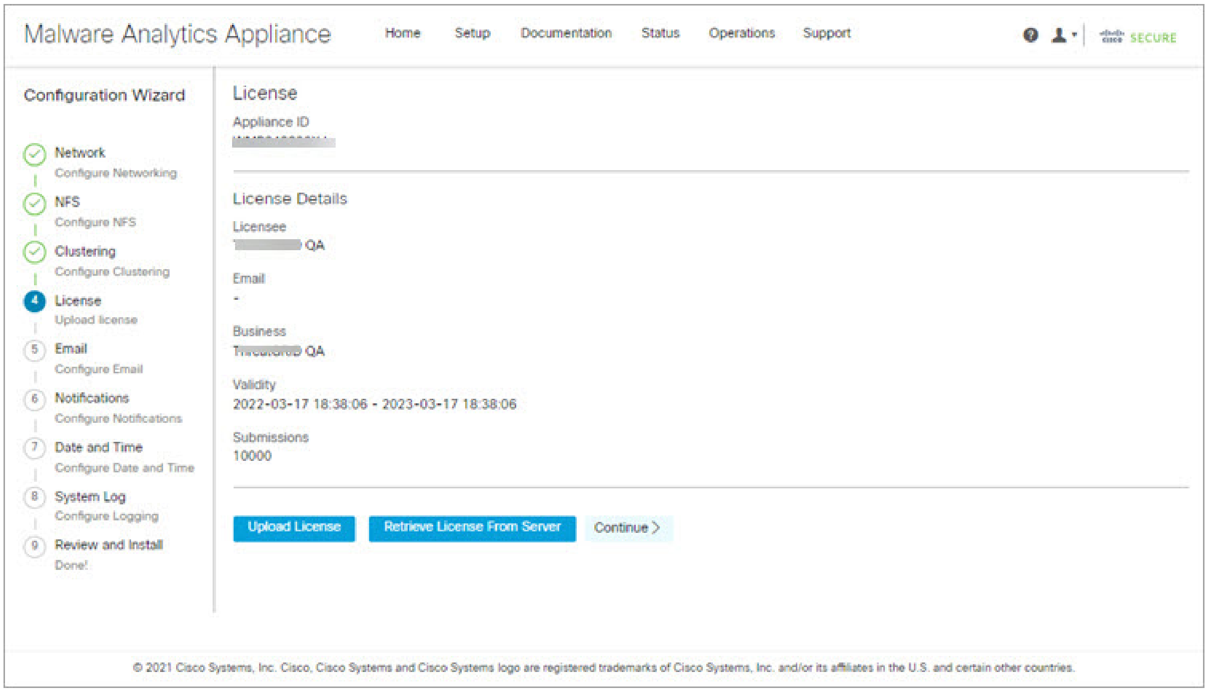
Step 2 Enter your license password in the **Passphrase** field.

Figure 5: Upload New License



Step 3 Click **Save** to install the license. The page refreshes and your license information is displayed.

Figure 6: License Information After Successful Installation



License

Appliance ID
[redacted]

License Details

Licensee
[redacted] QA

Email
-

Business
[redacted] QA

Validity
2022-03-17 18:38:06 - 2023-03-17 18:38:06

Submissions
10000

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Step 4 Click **Continue**.

What to do next

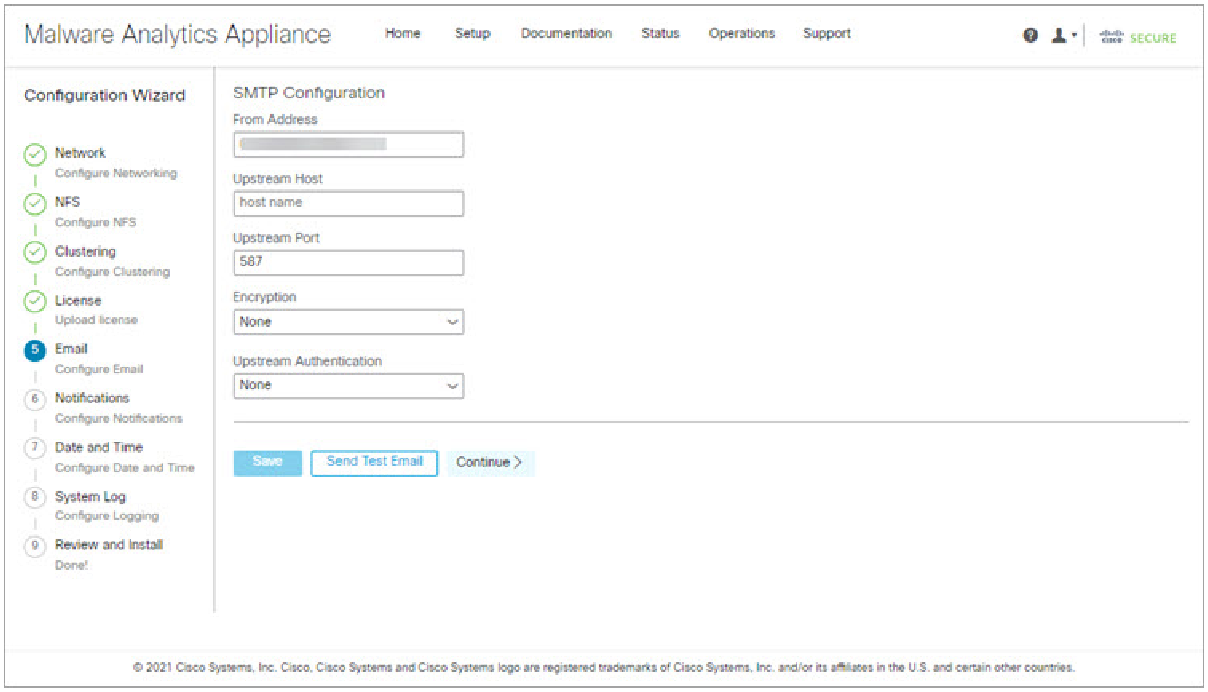
Proceed to Configure Email, on page 10.

Configure Email

The next step in the workflow is to configure the email host in the **SMTP Configuration** page.

Step 1 Enter the email **From Address**.

Figure 7: SMTP Configuration



SMTP Configuration

From Address: [redacted]

Upstream Host: host name

Upstream Port: 587

Encryption: None

Upstream Authentication: None

Step 2 Enter the name of the **Upstream Host** (email host).

Step 3 Change the port from **587** to **25**.

Step 4 Keep the defaults for the other settings.

Step 5 Click **Save** to save your settings.

Step 6 Click **Continue** to move to the next step in the workflow.

What to do next

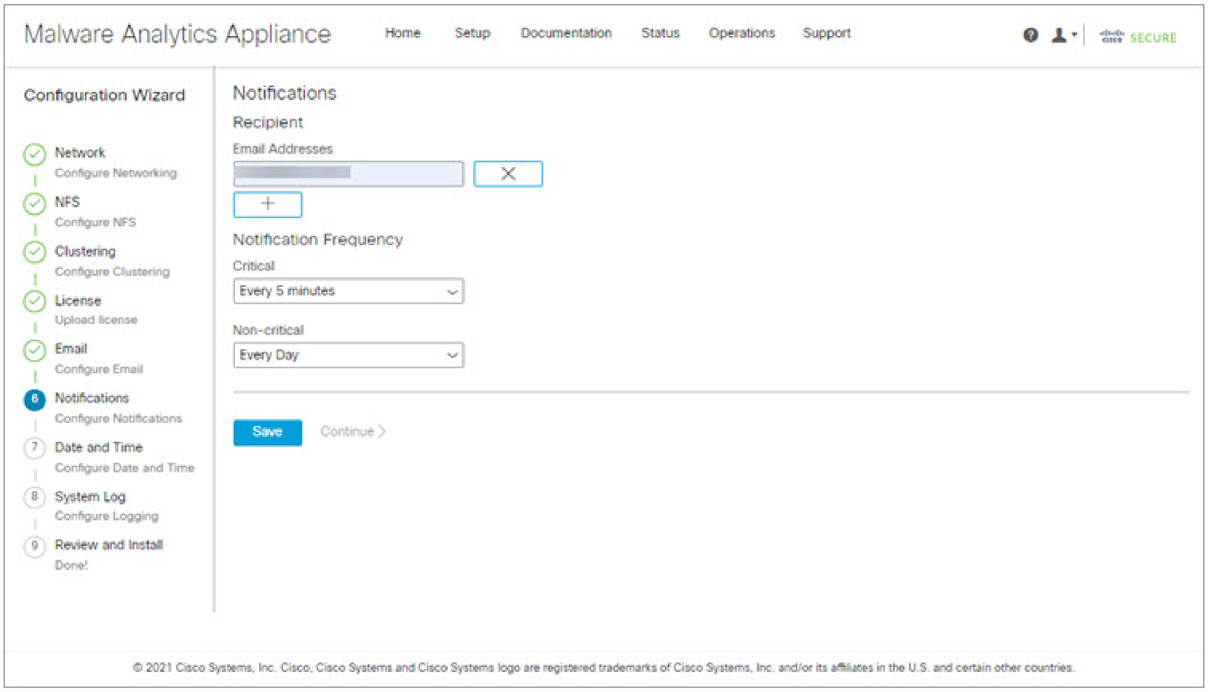
Proceed to Configure Notifications.

Configure Notifications

The next step in the workflow is to configure notifications that can be delivered periodically to one or more email addresses. System notifications are displayed in the Secure Malware Analytics portal interface, but this page allows you to set up **Notifications** that are also sent via email.

Step 1 Under **Recipients**, enter the **Email Address** for at least one notifications recipient. If you need to add multiple email addresses, click the **+** icon to add another field; repeat as needed.

Figure 8: Notifications



Email Addresses: [redacted]

Critical: Every 5 minutes

Non-critical: Every Day

Step 2 Under **Notification Frequency**, choose the settings for **Critical** and **Non-critical** from the drop-down lists.

Step 3 Click **Save**.

Step 4 Click **Continue** to move to the next step in the workflow.

What to do next

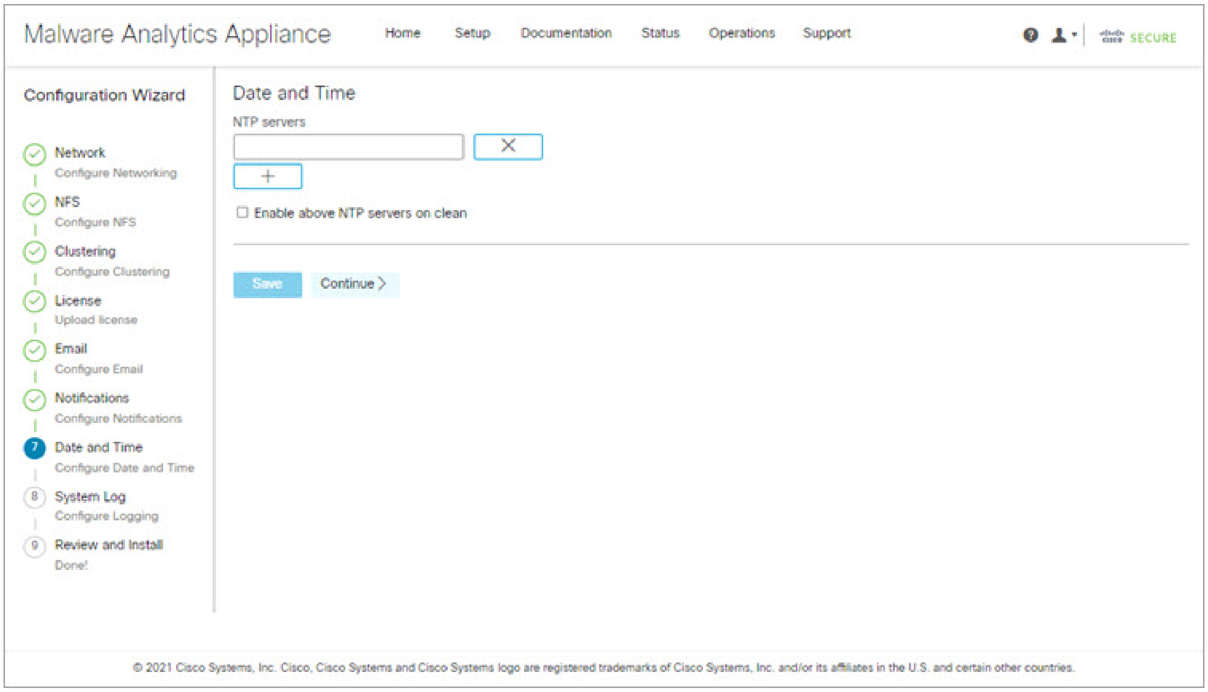
Proceed to Configure Date and Time.

Configure Date and Time

The next step is to specify the Network Time Protocol (NTP) servers to configure the date and time.

Step 1 Enter the **NTP Server(s)** IP or NTP name.

Figure 9: Date and Time



☐ Enable above NTP servers on clean

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If there are multiple NTP servers, click the + icon to add another field; repeat as needed.

Step 2 Click **Save**.

Step 3 Click **Continue** to move to the next step in the workflow.

What to do next

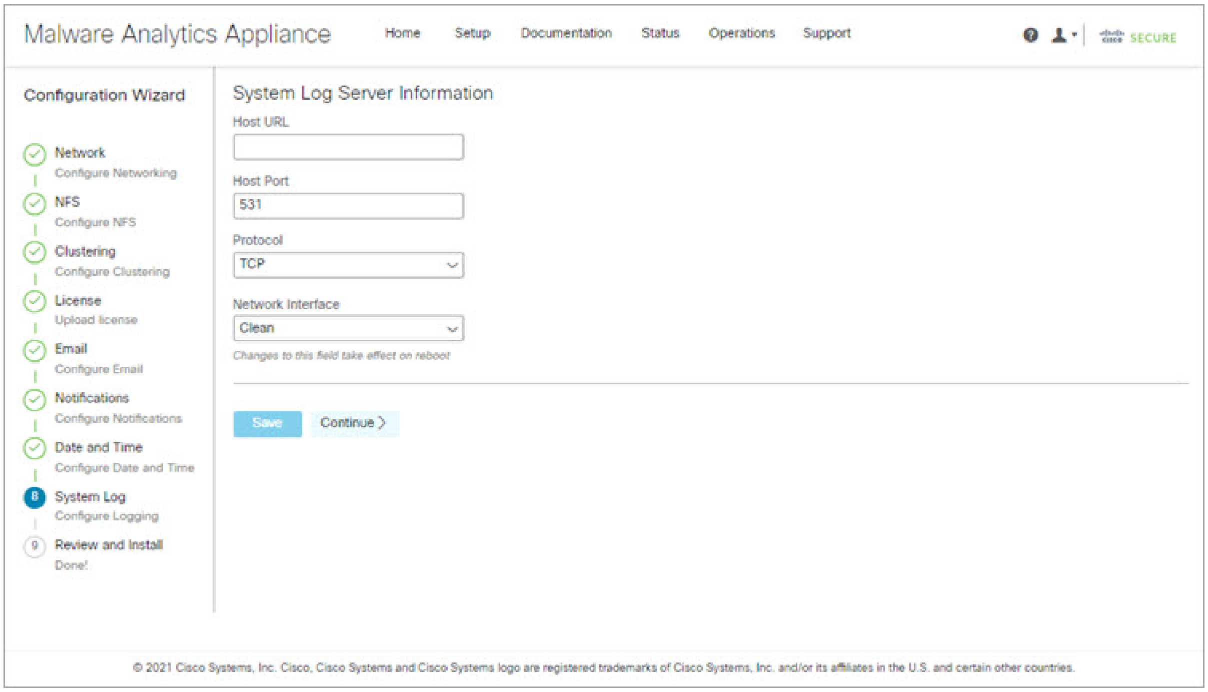
Proceed to Configure System Log.

Configure System Log

The **System Log Server Information** page is used to configure a system log server to receive syslog messages and Thread Grid notifications.

Step 1 Complete the Host URL, Host Port, and Protocol fields and click **Save**.

Figure 10: System Log Server Information



System Log Server Information

Host URL

Host Port: 531

Protocol: TCP

Network Interface: Clean

Changes to this field take effect on reboot

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Step 2 Click **Continue** to move to the final step in the workflow.

See the *Cisco Threat Grid Appliance Administration Guide* for more information.

What to do next

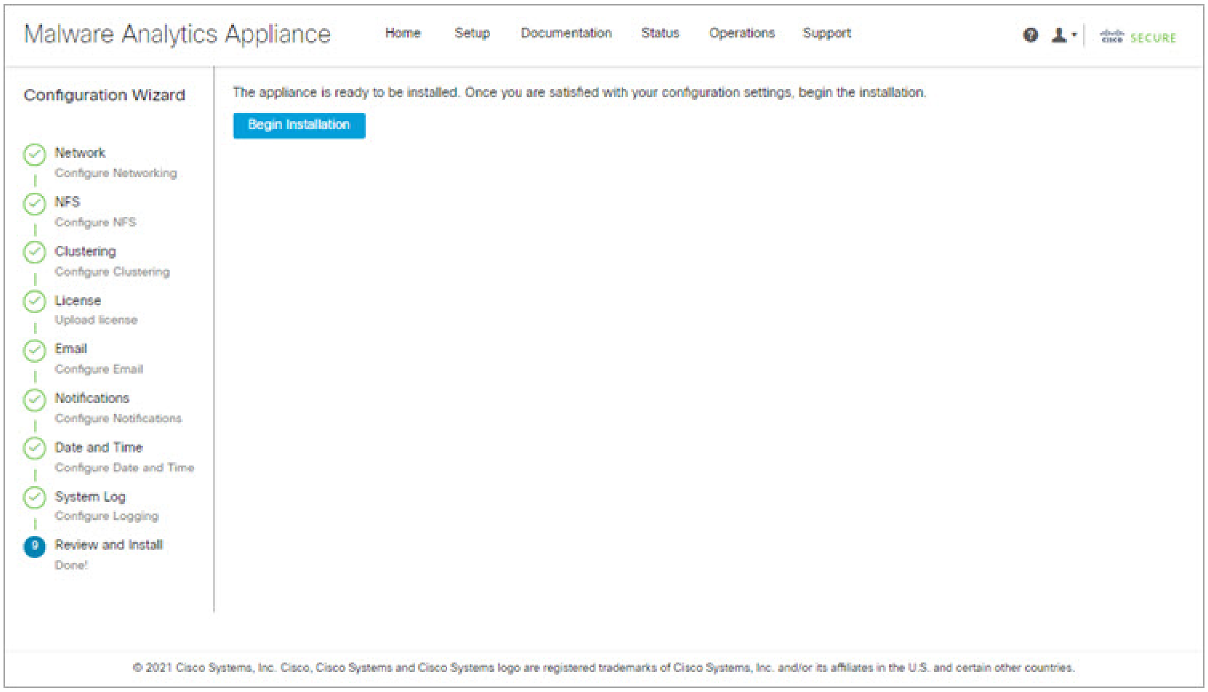
Proceed to Review and Install Configuration Settings.

Review and Install Configuration Settings

The final step in the workflow is to review and install your network configuration settings.

Step 1 Click **Review and Install** in the navigation pane and then click **Begin Installation** to begin installing the configuration scripts.

Figure 11: Begin Installation



The appliance is ready to be installed. Once you are satisfied with your configuration settings, begin the installation.

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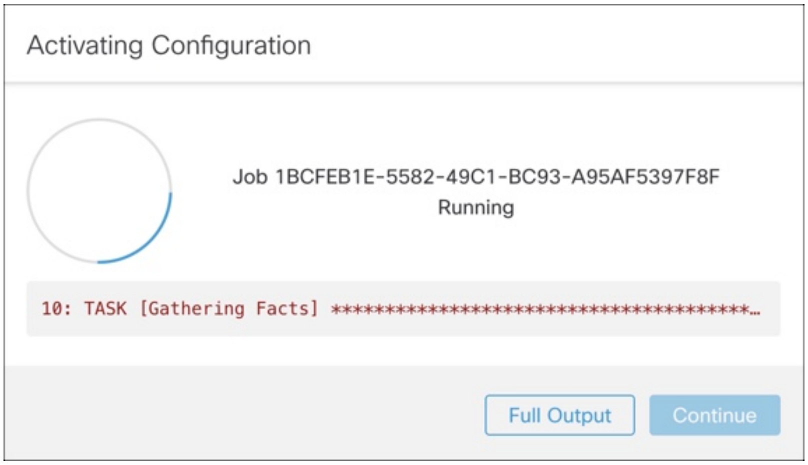
Note The screen displays configuration information as it is applied.

Figure 12: Activating Configuration



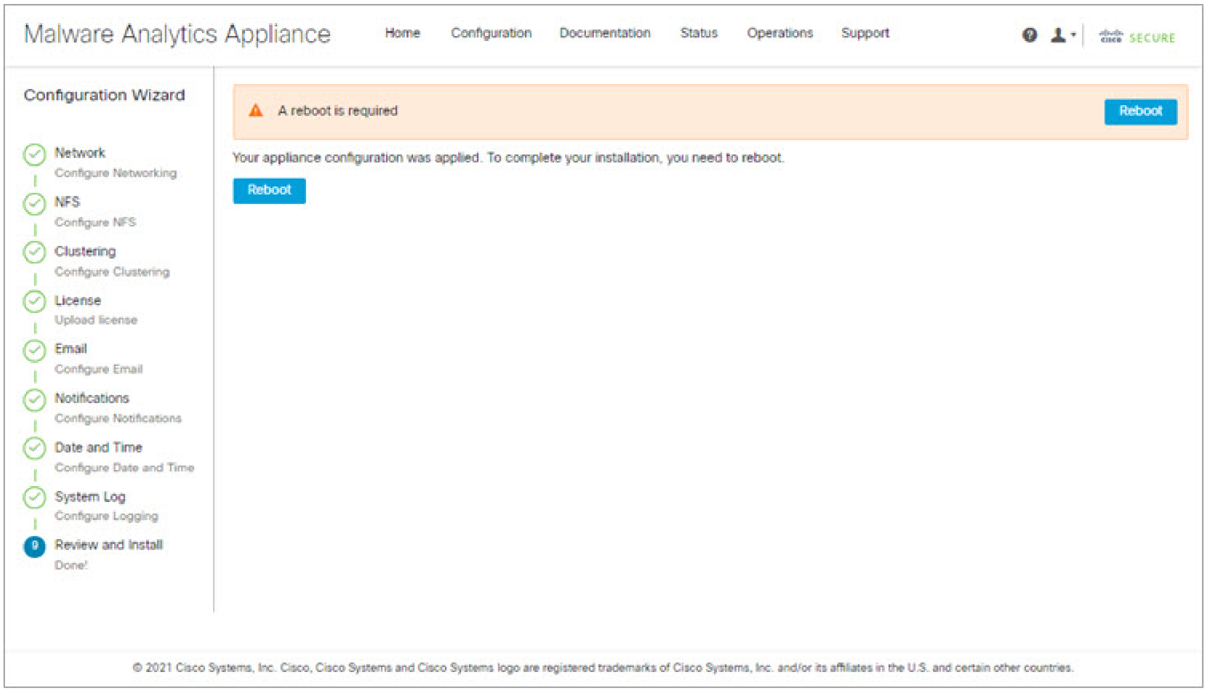
Job 1BCFEB1E-5582-49C1-BC93-A95AF5397F8F

Running

```
10: TASK [Gathering Facts] ******************************************…
```

After successful installation, the **State** changes from **Running** to **Successful**, and the **Reboot** button becomes enabled (green). The configuration output is also displayed.

Figure 13: Successful Appliance Installation



A reboot is required

Your appliance configuration was applied. To complete your installation, you need to reboot.

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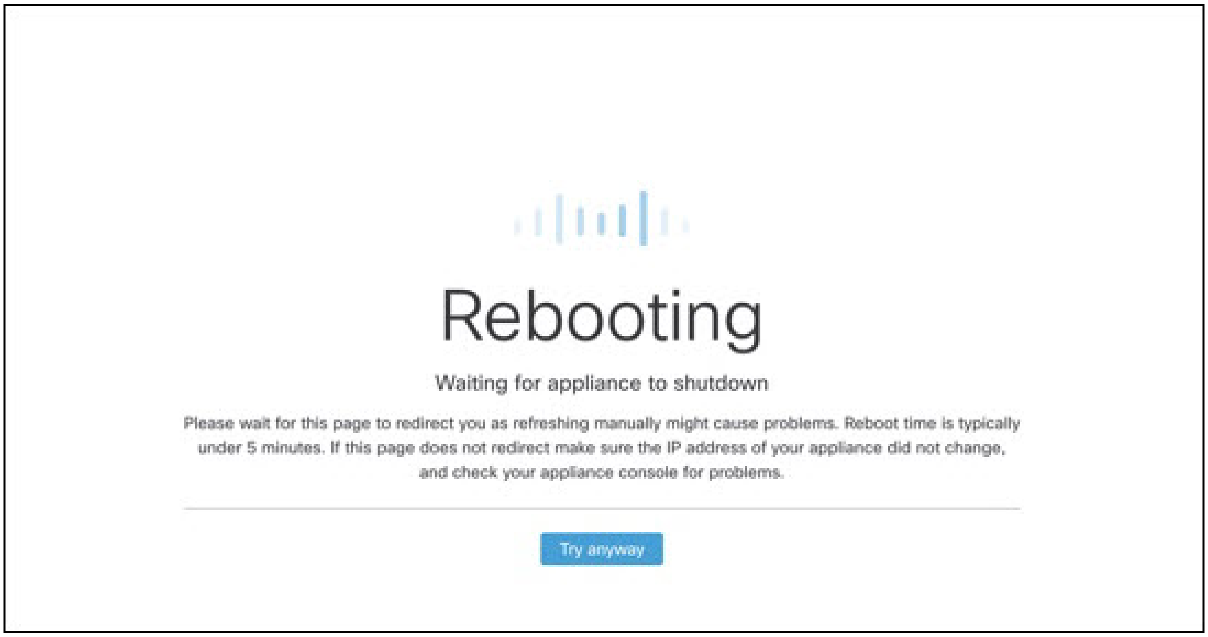
Step 2 Click **Reboot**.

Note Rebooting may take up to 5 minutes. Do not make any changes while the Threat Grid Appliance is rebooting.

Figure 14: Appliance is Rebooting



Rebooting

Waiting for appliance to shutdown

Please wait for this page to redirect you as refreshing manually might cause problems. Reboot time is typically under 5 minutes. If this page does not redirect make sure the IP address of your appliance did not change, and check your appliance console for problems.

After reboot, the appliance opens to the Admin UI **Home** page. This completes the configuration process.

Install Secure Malware Analytics Appliance Updates

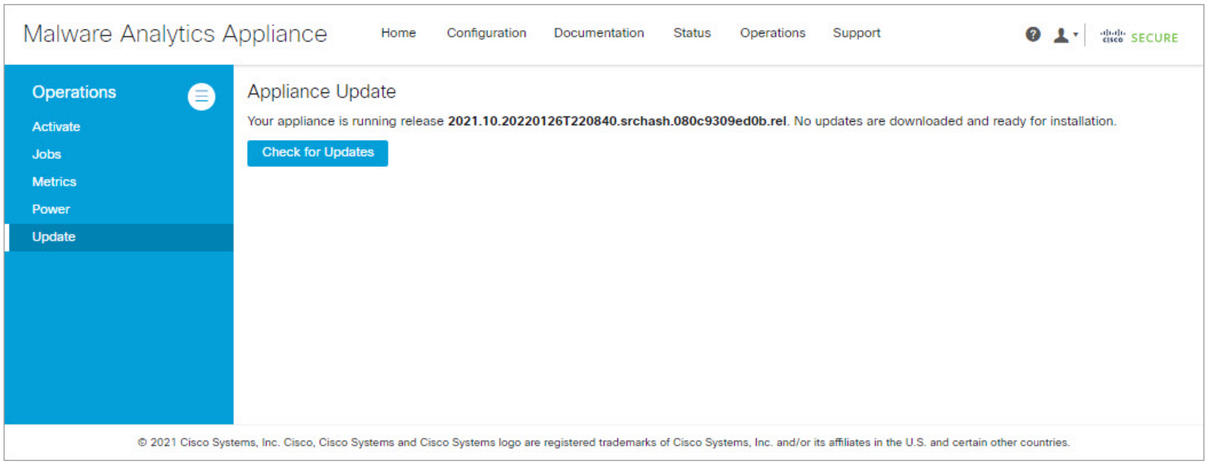
After you complete the initial Secure Malware Analytics Appliance setup, we recommend that you install any available updates before continuing. Secure Malware Analytics Appliance updates are applied through the Admin UI.

Users with air-gapped implementations may contact Secure Malware Analytics Support and request a downloadable update boot image.

Note For more information about installing updates, see the *Cisco Secure Malware Analytics Appliance Administration Guide*.

Step 1 Click the **Operations** tab and choose **Update** to open the**Appliance Updates** page.

Figure 15: Appliance Updates Page



Your appliance is running release **2021.10.20220126T220840.srchash.080c9309ed0b.rel**. No updates are downloaded and ready for installation.

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The current release version is displayed in the upper portion of the page. It also informs you if there is an update available to install. For information about the release versions, see the *Cisco Secure Malware Analytics Appliance Version Lookup Table*.

Step 2 Click **Check for Updates**.

A check is run to see if there is a more recent update/version of the Secure Malware Analytics Appliance software, and if so, downloads it. This may take some time.

Step 3 Once the update has been downloaded, click **Apply Update** to install it.

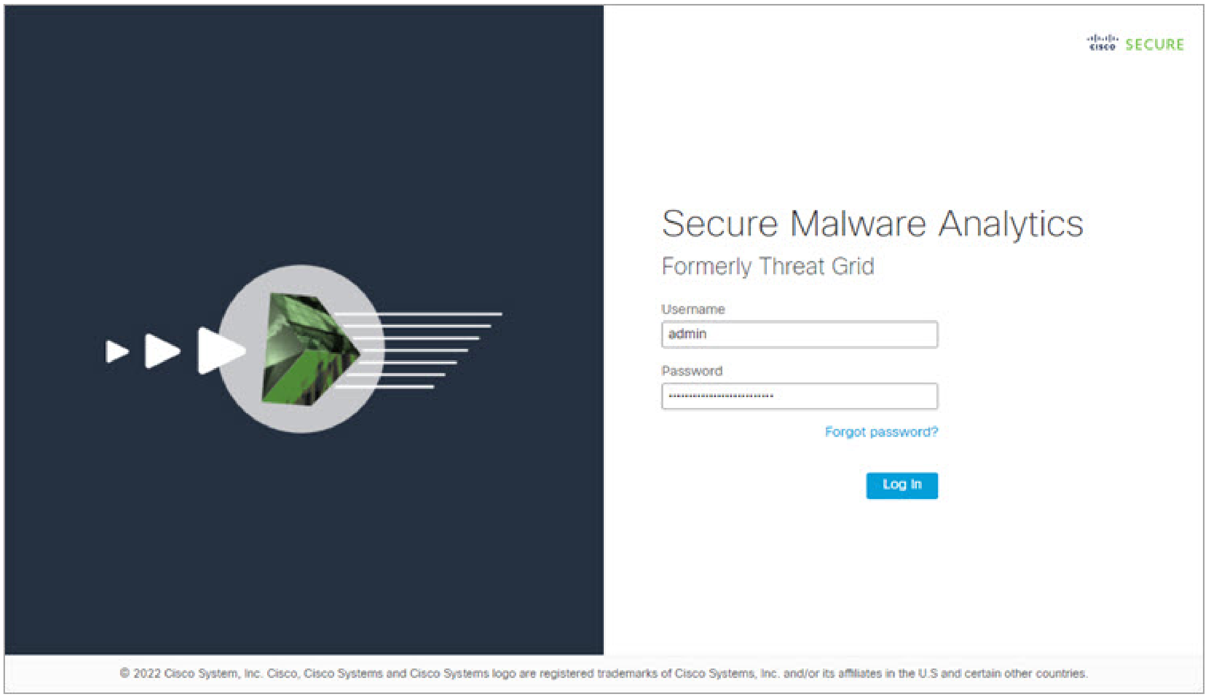
Test the Appliance Setup

Once the Secure Malware Analytics Appliance is updated to the current version, you should test that it has been configured properly by submitting a malware sample to Secure Malware Analytics.

Step 1 In a browser, open Secure Malware Analytics using the address you configured as the Clean interface.

The Secure Malware Analytics login page opens.

Figure 16: Secure Malware Analytics Login



Secure Malware Analytics

Formerly Threat Grid

Username: admin

Password: ••••••••••••••••••••

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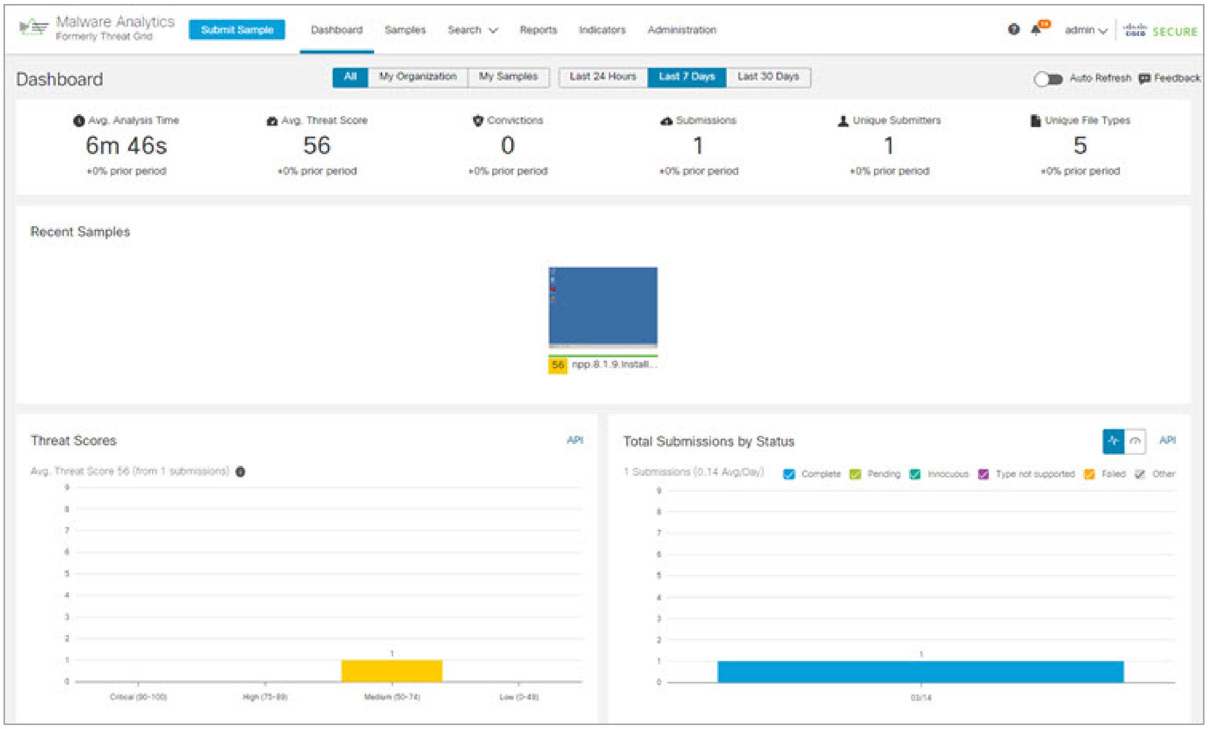
Step 2 Enter the default credentials:

- **Login** - admin
- **Password** - Use the new password entered during the first step of the Admin UI configuation workflow. We encourage you to change it for the portal when you have a chance.

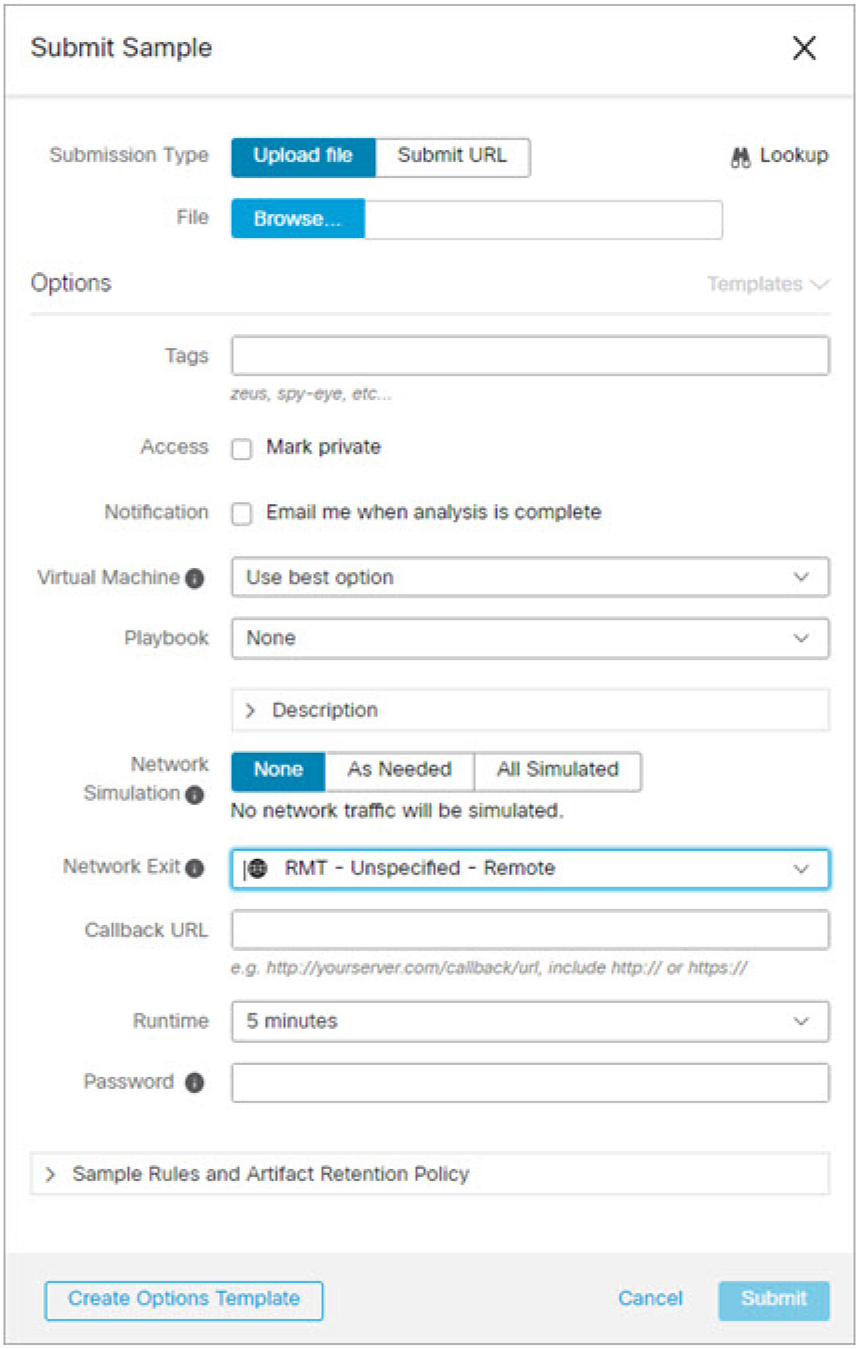
Step 3 Click **Log In** to open the main **Secure Malware Analytics** dashboard. There will be no sample data available yet.

Figure 17: Secure Malware Analytics Dashboard



Step 4 Click **Submit a Sample** to open the sample submission dialog.

Figure 18: Submit Sample



Submit Sample

Submission Type: Upload file | Submit URL

File: Browse...

Options

Tags:

zeus, spy-eye, etc...

Access: ☐ Mark private

Notification: ☐ Email me when analysis is complete

Virtual Machine: Use best option

Playbook: None

Description

Network Simulation: None | As Needed | All Simulated

No network traffic will be simulated.

Network Exit: RMT - Unspecified - Remote

Callback URL:

e.g. http://yourserver.com/callback/url, include http:// or https://

Runtime: 5 minutes

Password:

Sample Rules and Artifact Retention Policy

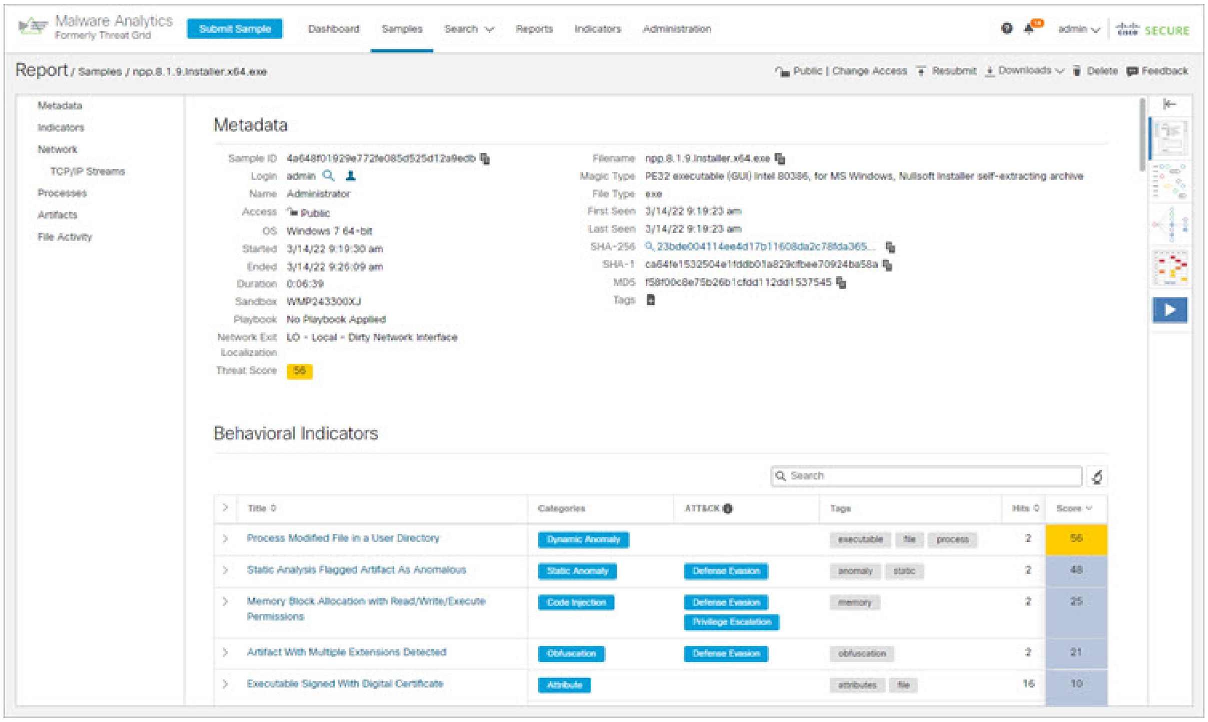
Note There is help available at the bottom of this form, describing sample submission file types, size, and other information. You can also click the **?** icon located in the upper-right corner to view the Secure Malware Analytics Release Notes and online help, including complete documentation on how to submit a sample and review the analysis results.

Step 5 Upload a file or enter a URL to submit for malware analysis. Leave the other options set at the defaults if you are not yet sure what they mean.

Step 6 Click **Submit**.

The Secure Malware Analytics sample analysis process is launched. You should see your sample going through several stages of analysis. During analysis, the sample is listed in the **Samples** page. Once analysis is completed, the results should be available in the Analysis Report.

Figure 19: Analysis Report



Report / Samples / npp.8.1.9.Installer.x64.exe

Metadata

Sample ID	4a648f01929e772fe085d525d12a9edb	Filename	npp.8.1.9.Installer.x64.exe
Login	admin	Magic Type	PE32 executable (GUI) Intel 80386, for MS Windows, Nullsoft Installer self-extracting archive
Name	Administrator	File Type	exe
Access	Public	First Seen	3/14/22 9:19:23 am
OS	Windows 7 64-bit	Last Seen	3/14/22 9:19:23 am
Started	3/14/22 9:19:30 am	SHA-256	23bde004114ee4d17b11608da2c78fda365...
Ended	3/14/22 9:26:09 am	SHA-1	ca64fe1532504e1fddb01a829cfbee70924ba58a
Duration	0:06:39	MD5	f58f00c8e75b26b1cfdd112dd1537545
Sandbox	WMP243300XJ	Tags	
Playbook	No Playbook Applied		
Network Exit Localization	LO - Local - Dirty Network Interface		
Threat Score	56		

Behavioral Indicators

Title	Categories	ATT&CK	Tags	Hits	Score
Process Modified File in a User Directory	Dynamic Anomaly		executable file process	2	56
Static Analysis Flagged Artifact As Anomalous	Static Anomaly	Defense Evasion	anomaly static	2	48
Memory Block Allocation with Read/Write/Execute Permissions	Code Injection	Defense Evasion Privilege Escalation	memory	2	25
Artifact With Multiple Extensions Detected	Obfuscation	Defense Evasion	obfuscation	2	21
Executable Signed With Digital Certificate	Attribute		attributes file	16	10

What to do next

Once the Secure Malware Analytics Appliance has been set up and initial configuration is completed, additional tasks can be performed by the appliance administrator, such as managing SSL certificates and adding users. See the *Cisco Secure Malware Analytics Appliance Administration Guide* for information about administrator tasks.