Cisco Threat Grid Appliance Getting Started Guide Version 2.12

First Published: 2020-12-15

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED “AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

All printed copies and duplicate soft copies of this document are considered uncontrolled. See the current online version for the latest version.

Cisco has more than 200 offices worldwide. Addresses and phone numbers are listed on the Cisco website at www.cisco.com/go/offices.

CONTENTS

CHAPTER 1 **Introduction** 1

About Cisco Threat Grid Appliance 1

Audience 2

Assumptions 2

Product Documentation 2

What's New In This Release 3

Supported Browsers 3

Updates 3

Support 4

Setup and Configuration Overview 6

CHAPTER 2 **Initial Network Configuration** 9

Power On and Boot Up Appliance 9

Configure Network Using TGSH Dialog 10

CHAPTER 3 **Admin UI Configuration** 17

Introduction 17

Log In to the Admin UI 18

Change Admin Password 18

Review End User License Agreement 19

Configuration Wizard 20

Configure Network Settings 20

Install License 20

Configure NFS 22

Configure Clustering 23

Configuring First Cluster Node 24

Joining Additional Cluster Nodes 25

Configure Email 25

Configure Notifications 26

Configure Date and Time 27

Configure System Log 27

Review and Install Configuration Settings 28

Install Threat Grid Appliance Updates 30

Test the Appliance Setup 31

CHAPTER 1

Introduction

This chapter provide a brief description of the Cisco Threat Grid Appliance, the intended audience and how to access relevant product documentation. It includes the following:

- About Cisco Threat Grid Appliance, on page 1
- Audience, on page 2
- Assumptions, on page 2
- Product Documentation, on page 2
- What's New In This Release, on page 3
- Supported Browsers, on page 3
- Updates, on page 3
- Support, on page 4
- Setup and Configuration Overview, on page 6

About Cisco Threat Grid Appliance

The Cisco Threat Grid appliance provides safe and highly secure on-premises advanced malware analysis, with deep threat analytics and content. A Threat Grid Appliance provides the complete Threat Grid malware analysis platform, installed on a Cisco Threat Grid M5 Appliance server (v2.7.2 and later). It empowers organizations operating under various compliance and policy restrictions, to submit malware samples to the appliance.

Note Cisco UCS C220-M3 (TG5000) and Cisco UCS C220 M4 (TG5400) servers are still supported for Threat Grid Appliance but the servers are end of life. See the Server Setup chapter in the *Cisco Threat Grid Appliance Setup and Configuration Guide* (v2.7 and earlier) for instructions.

Many organizations that handle sensitive data, such as banks and health services, must follow various regulatory rules and guidelines that do not allow certain types of files, such as malware artifacts, to be sent outside of the network for malware analysis. By maintaining a Cisco Threat Grid Appliance on-premises, organizations can send suspicious documents and files to it to be analyzed without leaving the network.

With a Threat Grid Appliance, security teams can analyze all samples using proprietary and highly secure static and dynamic analysis techniques. The appliance correlates the analysis results with hundreds of millions of previously analyzed malware artifacts, to provide a global view of malware attacks and campaigns, and their distributions. A single sample of observed activity and characteristics can quickly be correlated against millions of other samples to fully understand its behaviors within an historical and global context. This ability helps security teams to effectively defend the organization against threats and attacks from advanced malware.

Audience

Before a new appliance can be used for malware analysis, it must be set up and configured for the organization's network. This guide is intended for the security team IT staff tasked with setting up and configuring a new Threat Grid Appliance.

This document describes how to complete the initial setup and configuration for a new Threat Grid Appliance, up to the point where malware samples can be submitted to it for analysis.

Assumptions

It is assumed that you have gathered the necessary information and completed the planning steps as described in the *Cisco Threat Grid Appliance Administration Guide*.

It is also assumed that you have already set up the Threat Grid Appliance based on the instructions in the *Cisco Threat Grid M5 Hardware Installation Guide*.

If you have not yet completed these two tasks, please do so before you begin the steps described in this Getting Started Guide.

Product Documentation

The latest versions of Cisco Threat Grid Appliance product documentation can be found on Cisco.com:

- *Cisco Threat Grid Appliance Release Notes*
- *Cisco Threat Grid Version Lookup Table*
- *Cisco Threat Grid Appliance Administration Guide*
- *Cisco Threat Grid M5 Hardware Installation Guide*

Note The Cisco Threat Grid M5 Appliance is supported in Threat Grid Version 3.5.27 and later, and appliance version 2.7.2 and later.

Note Prior versions of Cisco Threat Grid Appliance product documentation can be found at Threat Grid Install and Upgrade.

Threat Grid Portal UI Online Help

Threat Grid Portal user documentation, including Release Notes, Threat Grid Online Help, API documentation, and other information is available from the **Help** menu located in the navigation bar at the top of the user interface.

What's New In This Release

The following changes have been implemented in this guide in Version 2.12:

Table 1: Changes in Version 2.12 Release - November 5, 2020

Feature or Update	Section
Updated NFS configuration to include information about clustered appliances.	Configure NFS
Updated Clustering configuration to include steps to configure the first cluster node and join additional cluster nodes.	Configuring First Cluster Node

Supported Browsers

Threat Grid supports the following browsers:

- Google Chrome™
- Mozilla Firefox®
- Apple Safari®

Note Microsoft Internet Explorer is **not** supported.

Updates

The initial Threat Grid Appliance setup and configuration steps **must be completed** before installing any Threat Grid Appliance updates. We recommend that you check for updates immediately after completing the initial configuration (see Install Threat Grid Appliance Updates).

Threat Grid Appliance updates cannot be downloaded until the license is installed, and the update process requires that the initial appliance configuration is completed. Updates must be done in sequence.

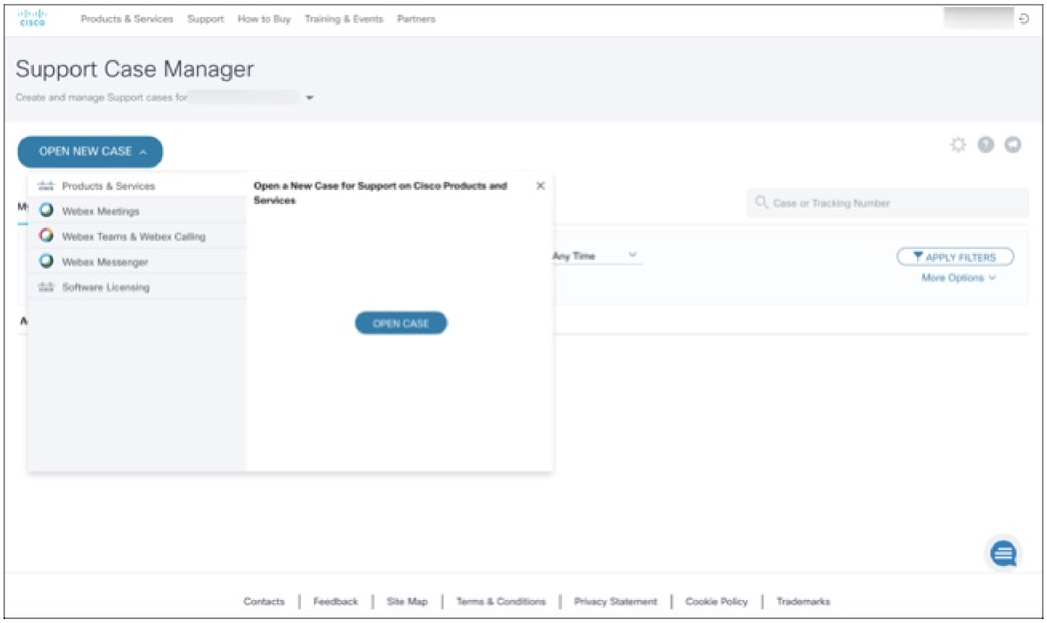
Note Verify that SSH is specified for updates.

Support

If you have questions or require assistance with Threat Grid, open a Support Case at https://mycase.cloudapps.cisco.com/case.

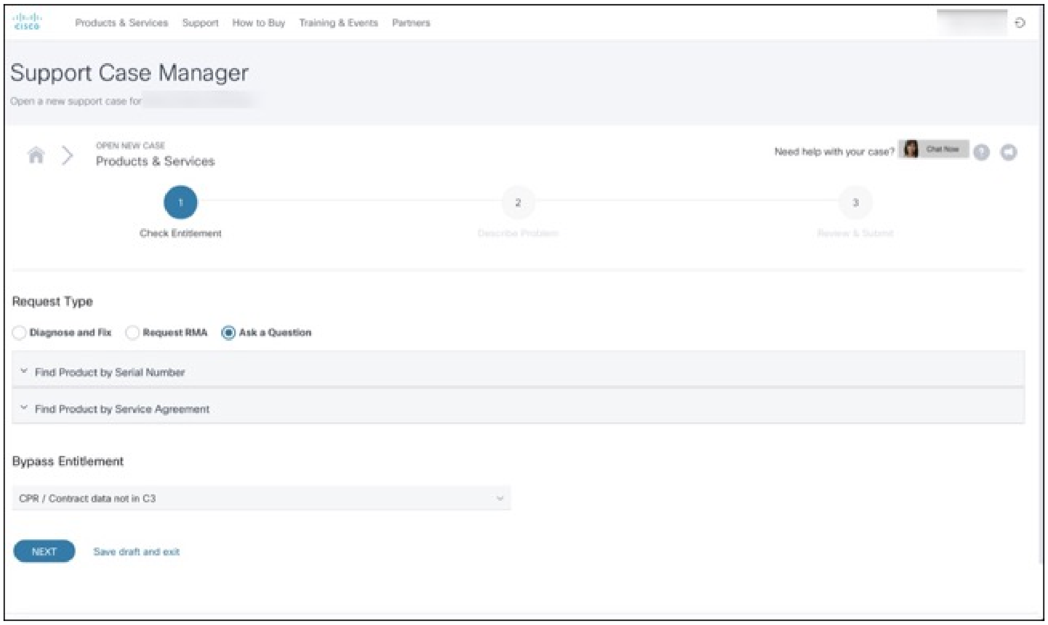
Step 1 In Support Case Manager, click **Open New Case** > **Open Case**.

Figure 1: Open New Case



Step 2 Click the **Ask a Question** radio button and search for your Cisco Security **Product Serial Number** or **Product Service Contract**. This should be the serial number or service contract for Threat Grid.

Figure 2: Check Entitlement



Support Case Manager

Open a new support case for [redacted]

OPEN NEW CASE
Products & Services

1 Check Entitlement
2 Describe Problem
3 Review & Submit

Request Type

○ Diagnose and Fix ○ Request RMA ● Ask a Question

Find Product by Serial Number

Find Product by Service Agreement

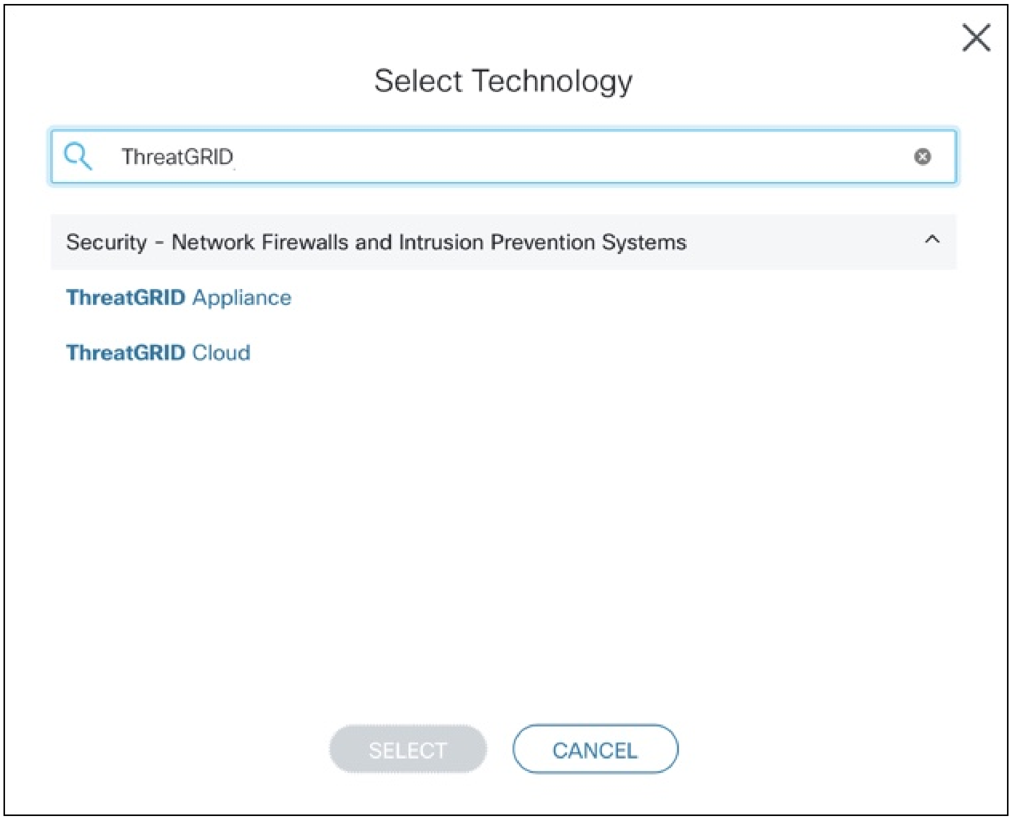
Bypass Entitlement

CPR / Contract data not in C3

Step 3 On the **Describe Problem** page, enter a **Title** and **Description** of the problem (mention Threat Grid Appliance in the title).

Step 4 Click **Manually select a Technology** and search for **ThreatGRID**.

Figure 3: Select Technology



Select Technology

ThreatGRID

Security - Network Firewalls and Intrusion Prevention Systems

ThreatGRID Appliance

ThreatGRID Cloud

Step 5 Choose **ThreatGRID Appliance** from the list and click **Select**.

Step 6 Complete the remainder of the form and click **Submit**.

If you are unable to open a case online, contact Cisco Support:

- **US and Canada**: 1-800-553-2447
- **Worldwide Contacts**: https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html

For additional information on how to request support:

- See Enable Support Mode and Support Snapshots in the *Threat Grid Appliance Administration Guide*.
- See the blog post: **Changes to the Cisco Threat Grid Support Experience** at https://community.cisco.com/t5/security-blogs/changes-to-the-cisco-threat-grid-support-experience/ba-p/3911407
- See the main **Cisco Support & Downloads** page at: https://www.cisco.com/c/en/us/support/index.html

Setup and Configuration Overview

The following setup and initial configuration steps are described in this guide:

- Initial Network Configuration
- Admin UI Configuration
- Installing Updates
- Testing Appliance Setup

Note You should allow approximately 1 hour to complete the configuration.

Additional tasks that require administrator configuration (such as license installation, email server, and SSL certificates) are documented in the *Cisco Threat Grid Appliance Administration Guide*.

CHAPTER 2

Initial Network Configuration

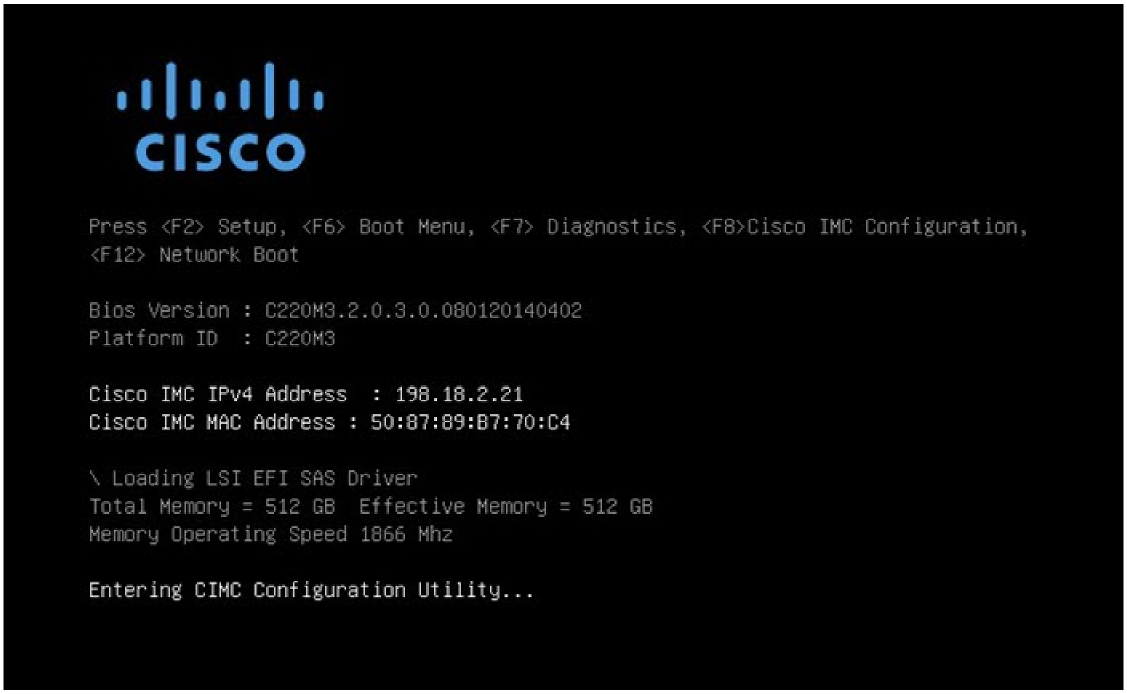
This chapter provides instructions for completing the initial network configuration using the TGSH Dialog. It includes the following topics:

- Power On and Boot Up Appliance, on page 9
- Configure Network Using TGSH Dialog, on page 10

Power On and Boot Up Appliance

Once you have connected the server peripherals, network interfaces, and power cables, turn on the Threat Grid M5 Appliance and wait for it to boot up. The Cisco screen is briefly displayed.

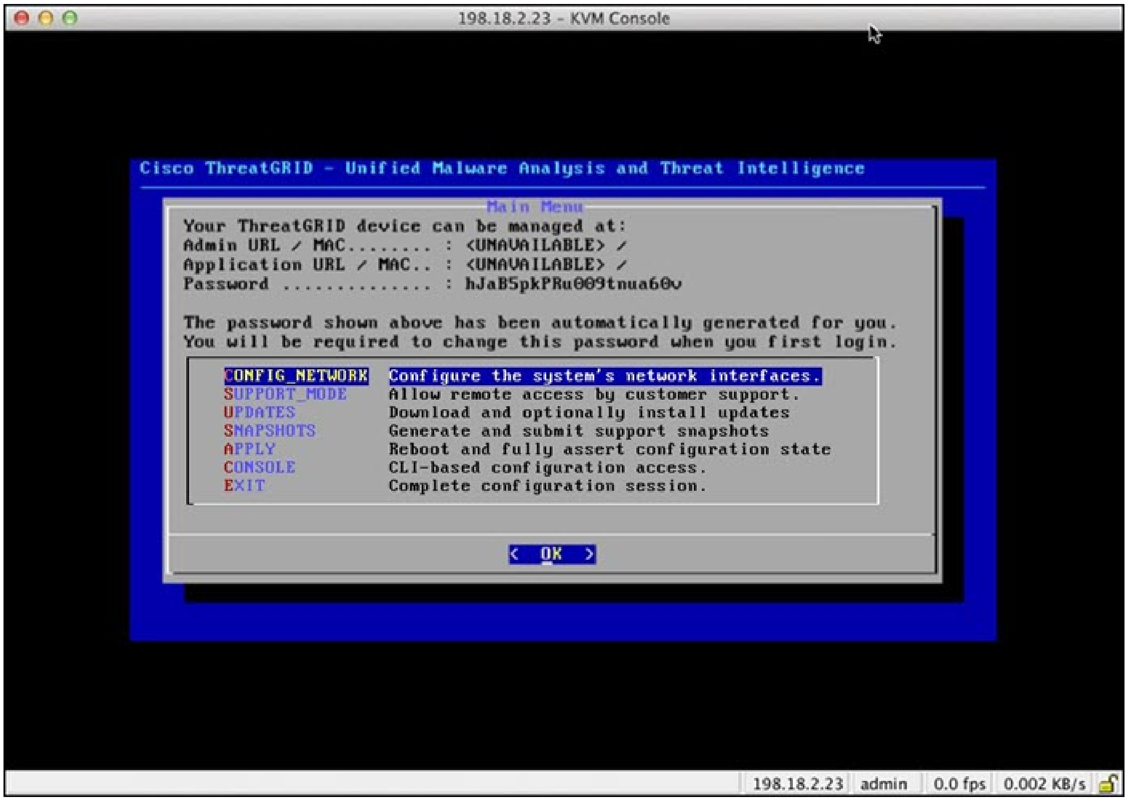
Figure 4: Cisco Screen During Bootup



```
Press <F2> Setup, <F6> Boot Menu, <F7> Diagnostics, <F8>Cisco IMC Configuration,
<F12> Network Boot

Bios Version : C220M3.2.0.3.0.080120140402
Platform ID  : C220M3

Cisco IMC IPv4 Address  : 198.18.2.21
Cisco IMC MAC Address : 50:87:89:B7:70:C4

\ Loading LSI EFI SAS Driver
Total Memory = 512 GB  Effective Memory = 512 GB
Memory Operating Speed 1866 Mhz

Entering CIMC Configuration Utility...
```

The **TGSH Dialog** is displayed on the console when the server has successfully booted up and connected.

Figure 5: TGSH Dialog



```
Cisco ThreatGRID - Unified Malware Analysis and Threat Intelligence

                         Main Menu
  Your ThreatGRID device can be managed at:
  Admin URL / MAC........ : <UNAVAILABLE> /
  Application URL / MAC.. : <UNAVAILABLE> /
  Password .............. : hJaB5pkPRu009tnua60v

  The password shown above has been automatically generated for you.
  You will be required to change this password when you first login.

      CONFIG_NETWORK   Configure the system's network interfaces.
      SUPPORT_MODE     Allow remote access by customer support.
      UPDATES          Download and optionally install updates
      SNAPSHOTS        Generate and submit support snapshots
      APPLY            Reboot and fully assert configuration state
      CONSOLE          CLI-based configuration access.
      EXIT             Complete configuration session.

                         <  OK  >
```

The Admin URL shows as unavailable because the network interface connections are not yet configured and the Admin UI cannot be reached yet to perform this task.

Important The **TGSH Dialog** displays the initial administrator Password, which will be needed to access and configure the Admin UI later in the configuration. Make a note of the Password in a separate text file (copy and paste).

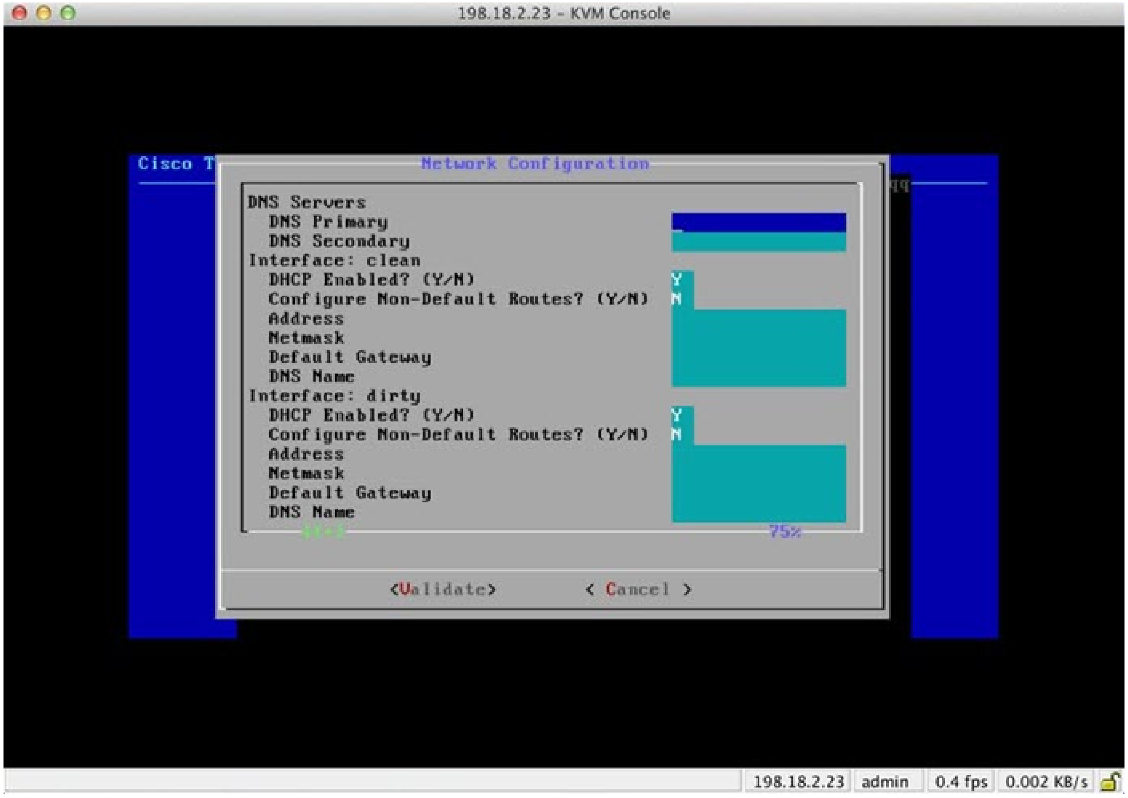
Configure Network Using TGSH Dialog

The initial network configuration is completed in the TGSH Dialog. The basic configuration, once completed, allows access to the Admin UI, where you can complete additional configuration tasks.

Note For DHCP users, the following steps assume that you are using static IP addresses. If you are using DHCP to obtain your IP addresses, see the *Cisco Threat Grid Appliance Administration Guide*.

Step 1 On the TGSH Dialog, select **CONFIG_NETWORK**. The **Network Configuration** console opens.

Figure 6: TGSH Dialog - Network Configuration Console



```
Cisco T          Network Configuration
 DNS Servers
   DNS Primary
   DNS Secondary
 Interface: clean
   DHCP Enabled? (Y/N)                       Y
   Configure Non-Default Routes? (Y/N)       N
   Address
   Netmask
   Default Gateway
   DNS Name
 Interface: dirty
   DHCP Enabled? (Y/N)                       Y
   Configure Non-Default Routes? (Y/N)       N
   Address
   Netmask
   Default Gateway
   DNS Name
      (+)                                        75%

            <Validate>         < Cancel >
```

Step 2 Complete the blank fields according to the settings provided by your network administrator for the Clean, Dirty, and Admin interfaces.

Step 3 Change **DHCP Enabled** to **N**.

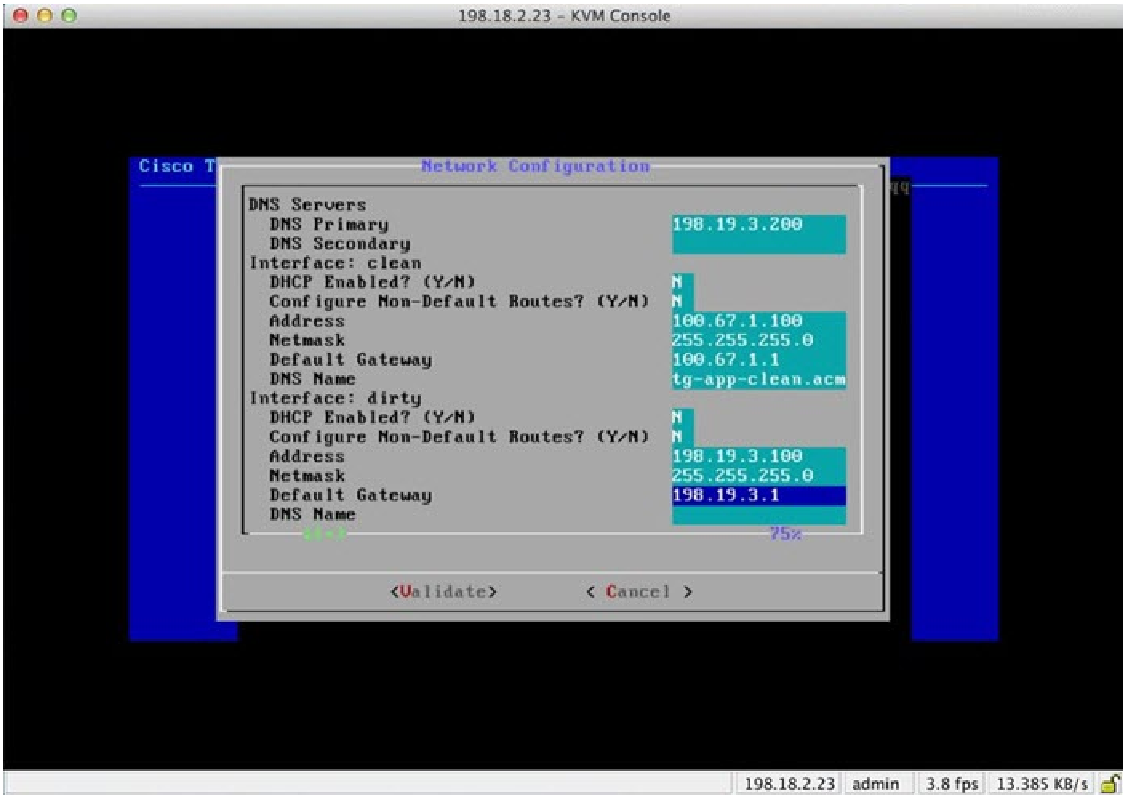
Note You need to backspace over the old character before you can enter the new one.

Step 4 Leave the **Configure Non-Default Routes** field set to the default **N** (unless additional routes are needed).

Step 5 If your network is using a DNS name for the Clean network, enter the name in the **DNS Name** field.

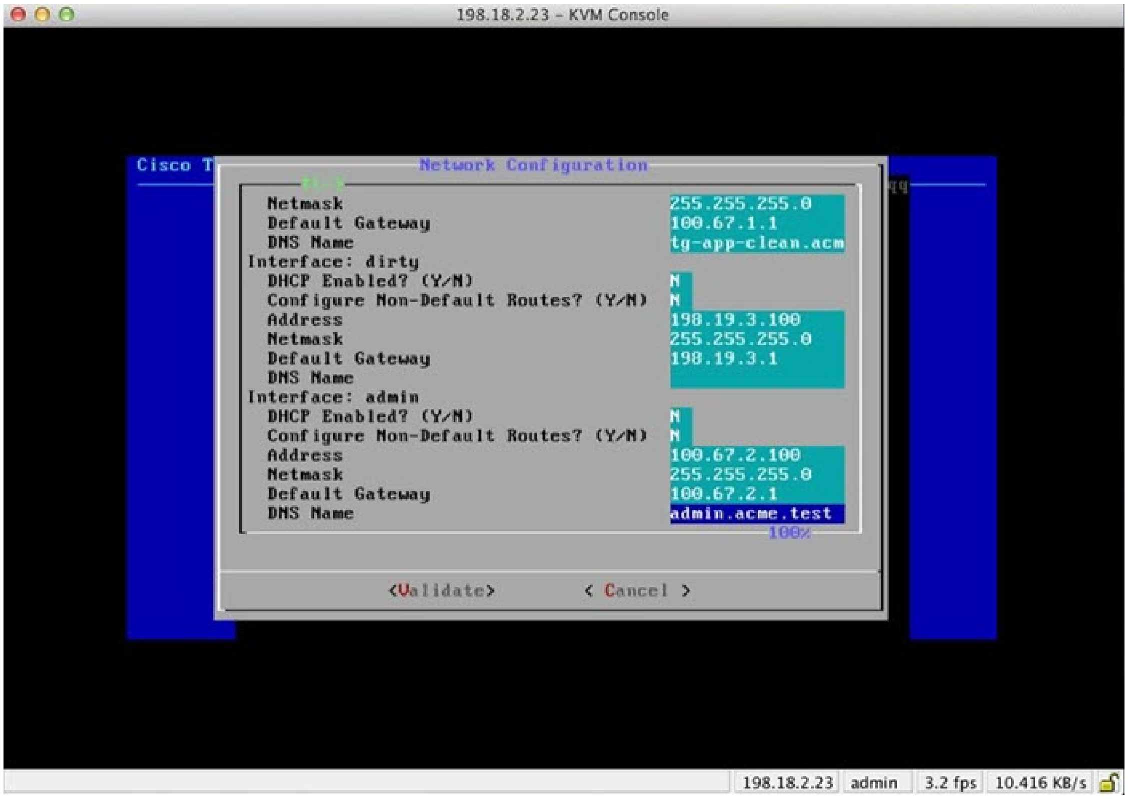
Step 6 Leave the Dirty network **DNS Name** field blank.

Figure 7: Network Configuration In-Progress (Clean and Dirty)



```
DNS Servers
  DNS Primary                              198.19.3.200
  DNS Secondary
Interface: clean
  DHCP Enabled? (Y/N)                      N
  Configure Non-Default Routes? (Y/N)      N
  Address                                  100.67.1.100
  Netmask                                  255.255.255.0
  Default Gateway                          100.67.1.1
  DNS Name                                 tg-app-clean.acm
Interface: dirty
  DHCP Enabled? (Y/N)                      N
  Configure Non-Default Routes? (Y/N)      N
  Address                                  198.19.3.100
  Netmask                                  255.255.255.0
  Default Gateway                          198.19.3.1
  DNS Name
```

Figure 8: Network Configuration In-Progress (Admin)



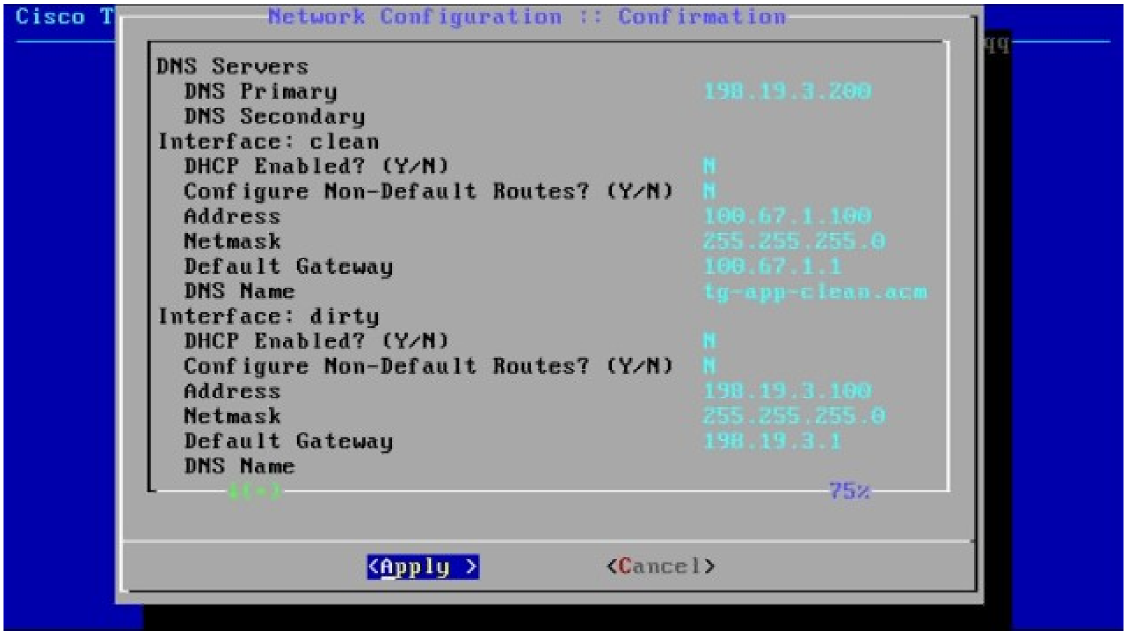
```
Cisco T              Network Configuration
    Netmask                                    255.255.255.0
    Default Gateway                            100.67.1.1
    DNS Name                                   tg-app-clean.acm
  Interface: dirty
    DHCP Enabled? (Y/N)                        N
    Configure Non-Default Routes? (Y/N)        N
    Address                                    198.19.3.100
    Netmask                                    255.255.255.0
    Default Gateway                            198.19.3.1
    DNS Name
  Interface: admin
    DHCP Enabled? (Y/N)                        N
    Configure Non-Default Routes? (Y/N)        N
    Address                                    100.67.2.100
    Netmask                                    255.255.255.0
    Default Gateway                            100.67.2.1
    DNS Name                                   admin.acme.test
                                                   100%

              <Validate>          < Cancel >
```

Step 7 After you finish entering all the network settings, tab down and select **Validate** to verify your entries.

If errors occur, fix the invalid values and select **Validate** again.

After validation, the **Network Configuration Confirmation** page displays the entered values.

Figure 9: Network Configuration Confirmation

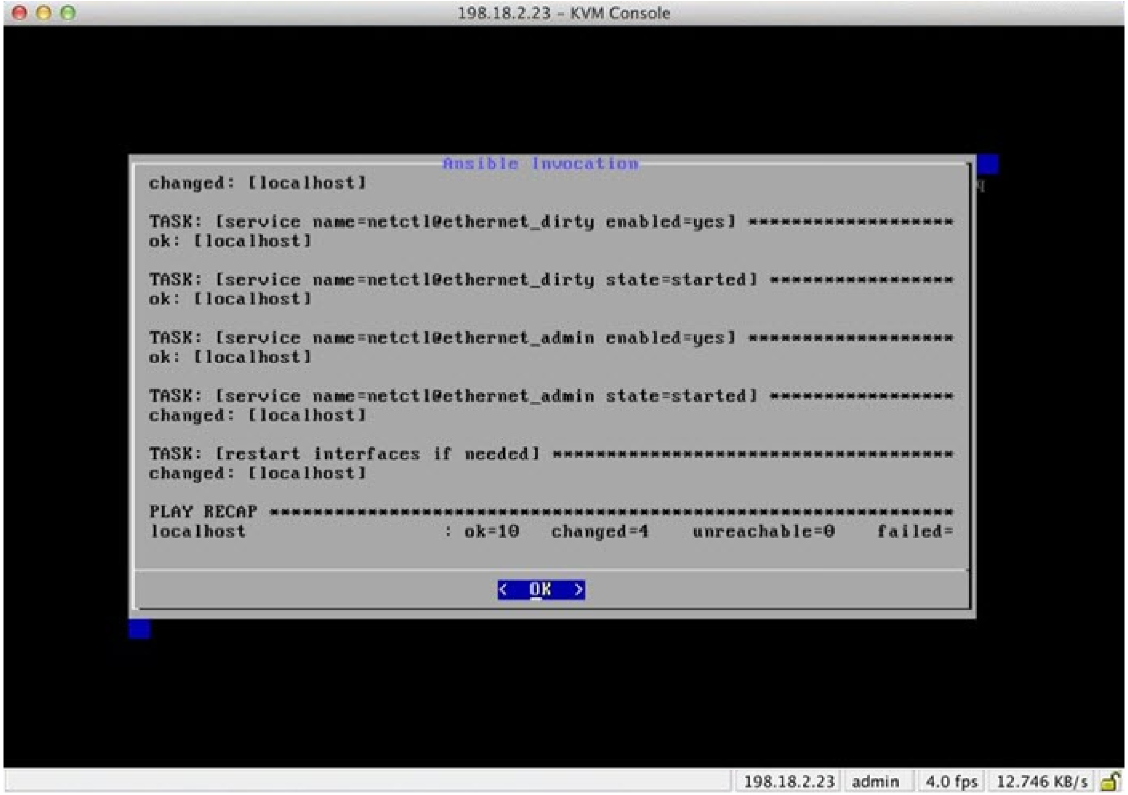


```
Cisco T        Network Configuration :: Confirmation

DNS Servers
  DNS Primary                                  198.19.3.200
  DNS Secondary
Interface: clean
  DHCP Enabled? (Y/N)                          N
  Configure Non-Default Routes? (Y/N)          N
  Address                                      100.67.1.100
  Netmask                                      255.255.255.0
  Default Gateway                              100.67.1.1
  DNS Name                                     tg-app-clean.acm
Interface: dirty
  DHCP Enabled? (Y/N)                          N
  Configure Non-Default Routes? (Y/N)          N
  Address                                      198.19.3.100
  Netmask                                      255.255.255.0
  Default Gateway                              198.19.3.1
  DNS Name
                                                  75%

              <Apply >          <Cancel>
```

Step 8 Select **Apply** to apply your configuration settings.

After the configuration settings are applied, details about the changes are displayed.

Figure 10: Network Configuration - List of Changes Made

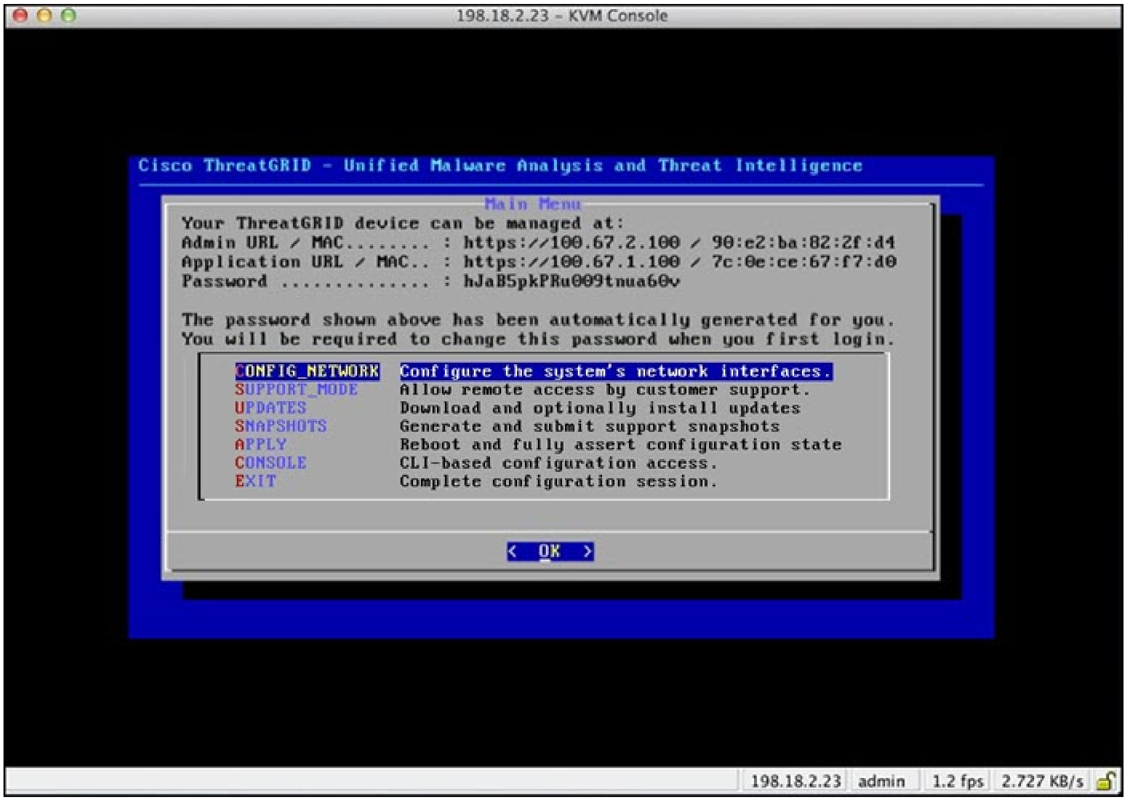


```
changed: [localhost]

TASK: [service name=netctl@ethernet_dirty enabled=yes] *******************
ok: [localhost]

TASK: [service name=netctl@ethernet_dirty state=started] *****************
ok: [localhost]

TASK: [service name=netctl@ethernet_admin enabled=yes] *******************
ok: [localhost]

TASK: [service name=netctl@ethernet_admin state=started] *****************
changed: [localhost]

TASK: [restart interfaces if needed] *************************************
changed: [localhost]

PLAY RECAP ***************************************************************
localhost                  : ok=10   changed=4    unreachable=0    failed=
```

Step 9 Select **OK**.

The **Network Configuration** console refreshes again and displays the entered IP addresses.

Figure 11: IP Addresses



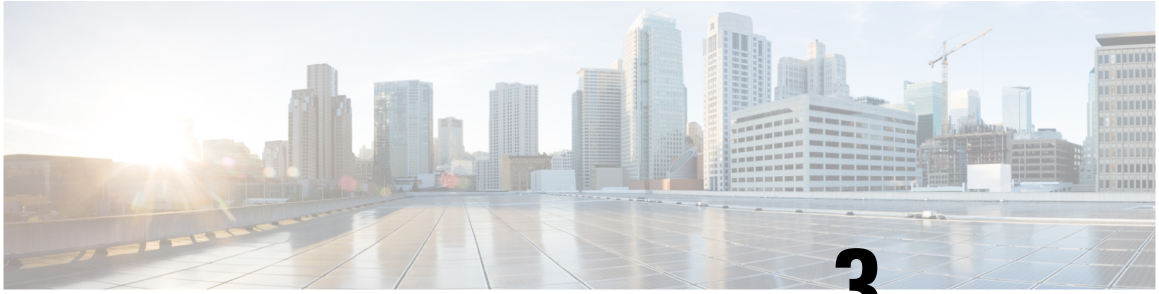
```
Cisco ThreatGRID - Unified Malware Analysis and Threat Intelligence

                              Main Menu
Your ThreatGRID device can be managed at:
Admin URL / MAC........ : https://100.67.2.100 / 90:e2:ba:82:2f:d4
Application URL / MAC.. : https://100.67.1.100 / 7c:0e:ce:67:f7:d0
Password .............. : hJaB5pkPRu009tnua60v

The password shown above has been automatically generated for you.
You will be required to change this password when you first login.

    CONFIG_NETWORK    Configure the system's network interfaces.
    SUPPORT_MODE      Allow remote access by customer support.
    UPDATES           Download and optionally install updates
    SNAPSHOTS         Generate and submit support snapshots
    APPLY             Reboot and fully assert configuration state
    CONSOLE           CLI-based configuration access.
    EXIT              Complete configuration session.

                            <  OK  >
```

You have completed the network configuration of your Threat Grid Appliance.

Note The URL for the Clean interface is not active until the Admin UI configuration is complete.

What to do next

The next step in the Threat Grid Appliance setup is to complete the remaining configuration tasks using the Admin UI, as described in Admin UI Configuration.



CHAPTER 3

Admin UI Configuration

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

- Introduction, on page 17
- Configuration Wizard, on page 20
- Install Threat Grid Appliance Updates, on page 30
- Test the Appliance Setup, on page 31

Introduction

The Admin UI is the recommended tool for administrators to use to configure the Threat Grid 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 Threat Grid 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.

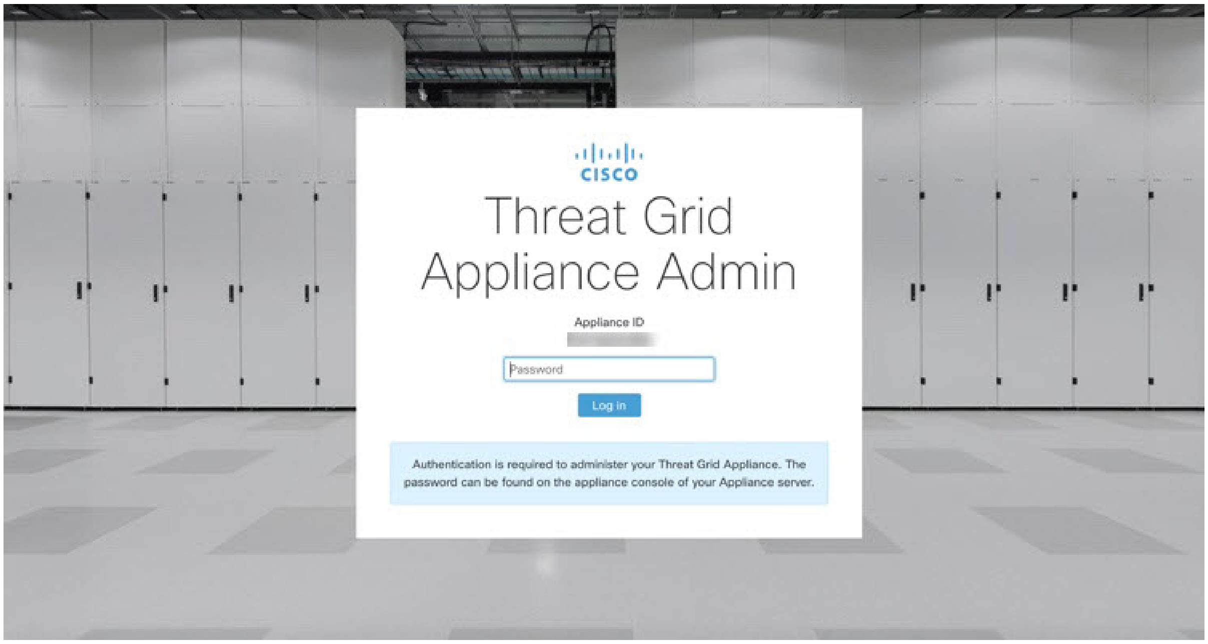
Log In to the Admin UI

Perform the following steps to log in to the Threat Grid Admin UI.

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

Note The Hostname is the appliance serial number.

Figure 12: Admin UI Login Screen



Authentication is required to administer your Threat Grid Appliance. The password can be found on the appliance console of your Appliance server.

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

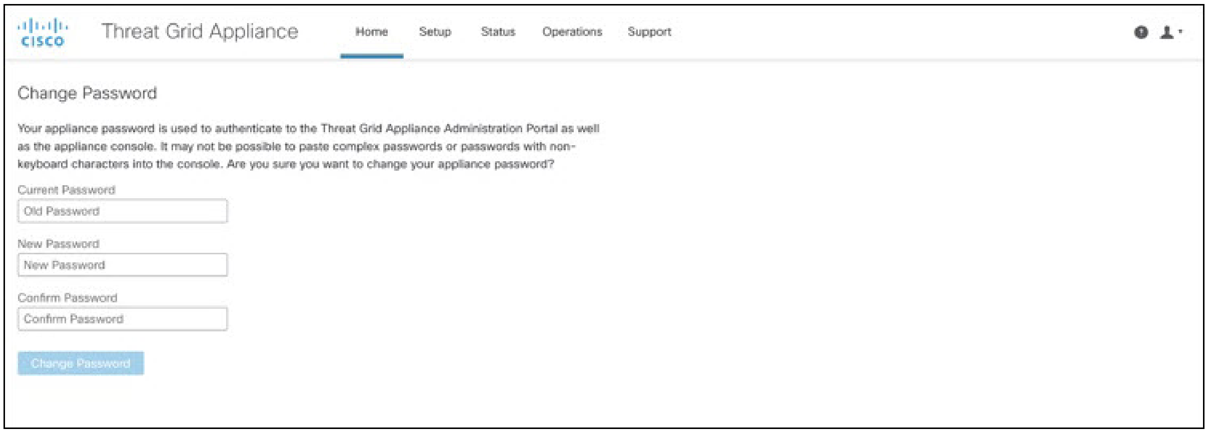
What to do next

Proceed to Change Admin Password.

Change Admin Password

The initial Admin password was generated randomly during the pre-ship Threat Grid installation and is visible as plain text in the TGSH Dialog. You must change the initial Admin password before continuing with the configuration.

Figure 13: Change Admin Password



Change Password

Your appliance password is used to authenticate to the Threat Grid 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

Change Password

Step 1 Enter the old password from the TGSH Dialog 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 TGSH Dialog 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

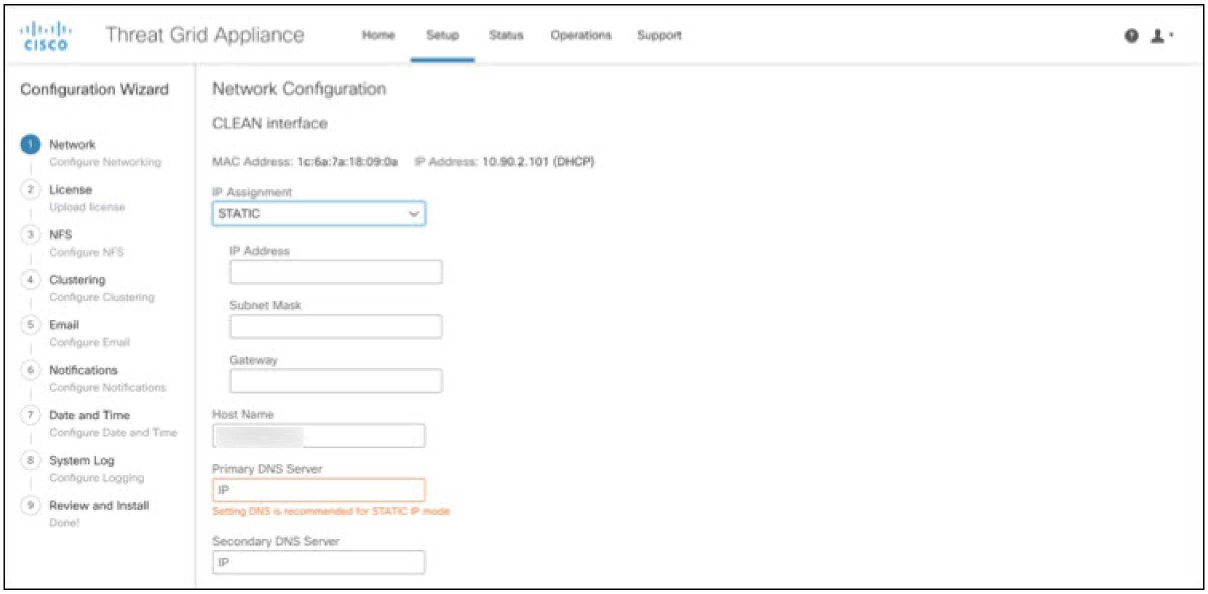
The Configuration wizard takes you through configuring your Threat Grid Appliance.

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.

Configure Network Settings

If you configured static network settings in the TGSH Dialog, the IP addresses displayed on the **Network Configuration** page reflect the values you entered in the TGSH Dialog during the Threat Grid Appliance network configuration.

Figure 14: Network Configuration



Network Configuration

CLEAN interface

MAC Address: 1c:6a:7a:18:09:0a IP Address: 10.90.2.101 (DHCP)

IP Assignment: STATIC

IP Address:

Subnet Mask:

Gateway:

Host Name: [redacted]

Primary DNS Server: IP

Setting DNS is recommended for STATIC IP mode

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 Threat Grid Appliance Administration Guide.

What to do next

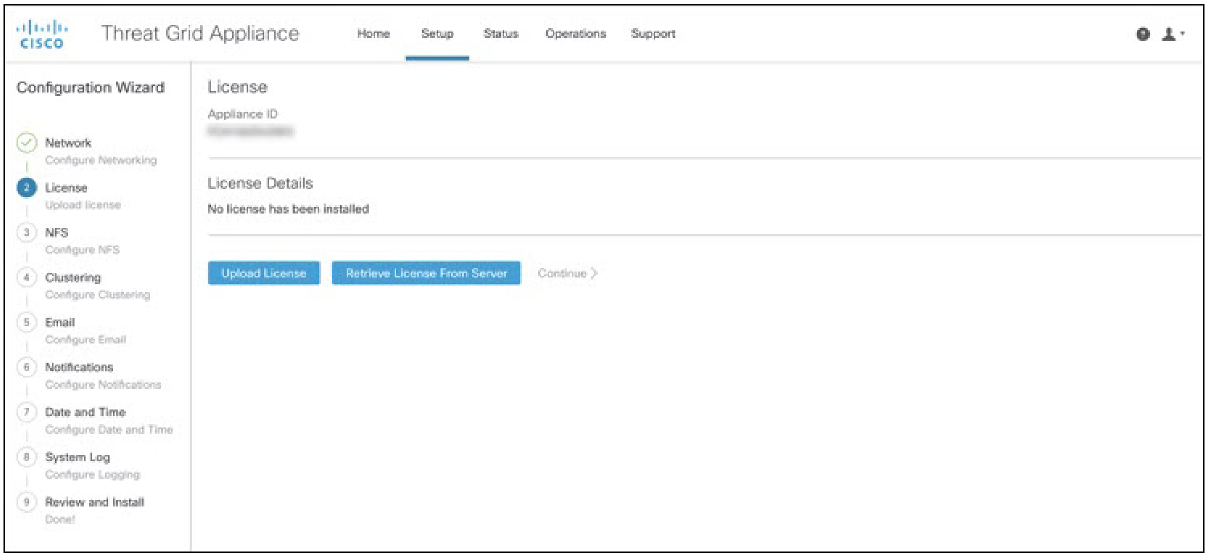
Proceed to Install License.

Install License

After the networks are configured, you are ready to install the Threat Grid license.

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

Figure 15: License Page Prior to Installation



Configuration Wizard

- Network — Configure Networking
- 2 License — Upload license
- 3 NFS — Configure NFS
- 4 Clustering — Configure Clustering
- 5 Email — Configure Email
- 6 Notifications — Configure Notifications
- 7 Date and Time — Configure Date and Time
- 8 System Log — Configure Logging
- 9 Review and Install — Done!

License

Appliance ID

[redacted]

License Details

No license has been installed

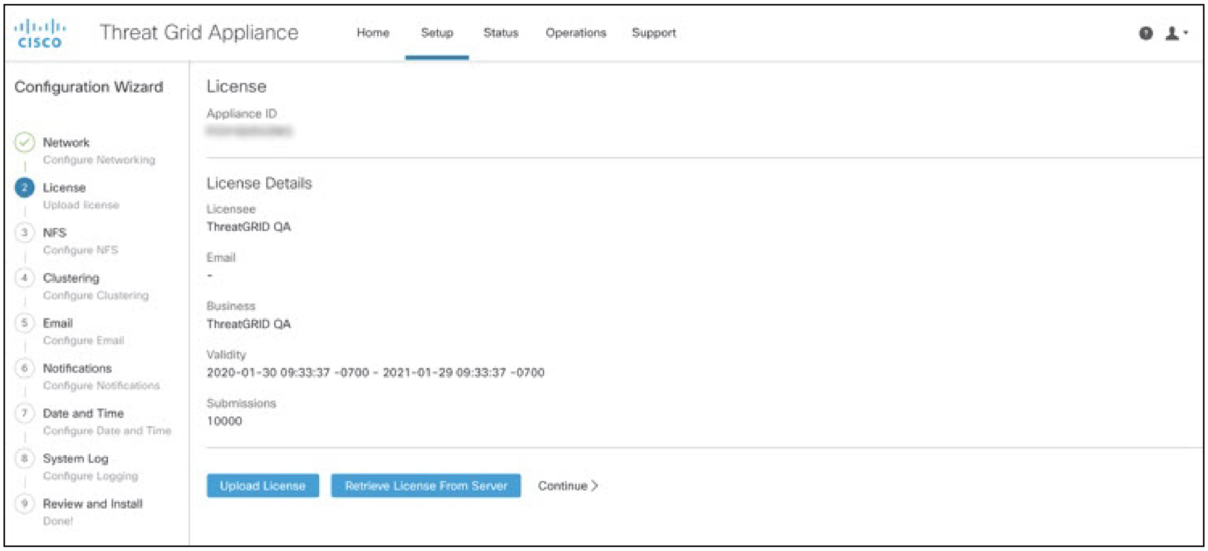
Step 2 Click **Upload License** and select the license file from your file manager.

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 3 Enter your license password in the **Passphrase** field.

Step 4 Click **Save** to install the license. The page refreshes and your license information is displayed.

Figure 16: License Information After Successful Installation



Configuration Wizard

- Network — Configure Networking
- 2 License — Upload license
- 3 NFS — Configure NFS
- 4 Clustering — Configure Clustering
- 5 Email — Configure Email
- 6 Notifications — Configure Notifications
- 7 Date and Time — Configure Date and Time
- 8 System Log — Configure Logging
- 9 Review and Install — Done!

License

Appliance ID

[redacted]

License Details

Licensee

ThreatGRID QA

Email

-

Business

ThreatGRID QA

Validity

2020-01-30 09:33:37 -0700 - 2021-01-29 09:33:37 -0700

Submissions

10000

Step 5 Click **Continue**.

What to do next

Proceed to Configure NFS.

Configure NFS

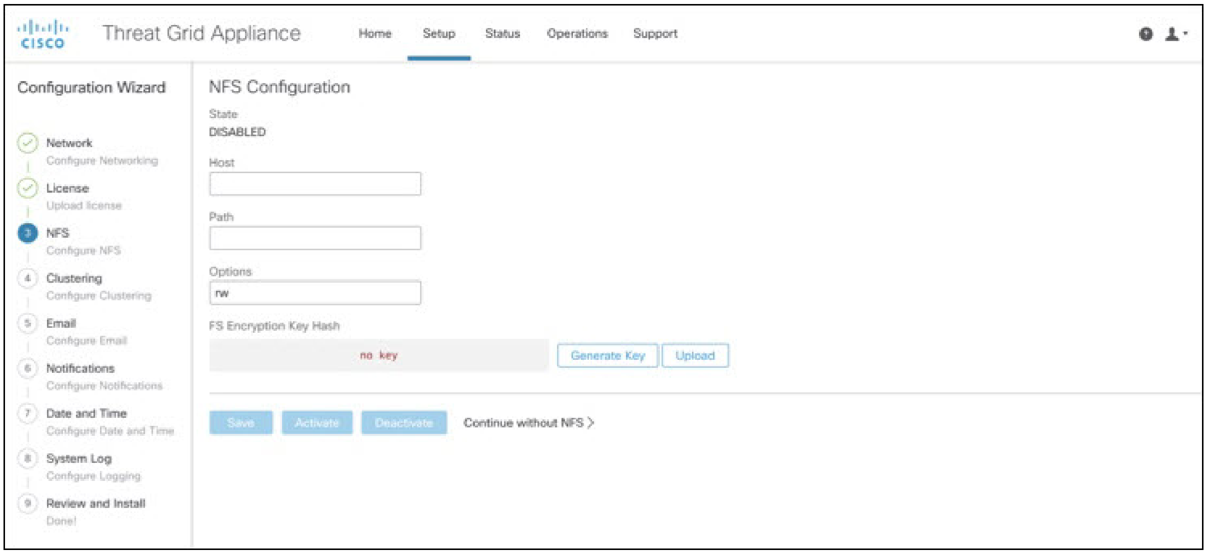
The next step in the workflow is NFS configuration. This task is required for backups and for clustering. See the NFS Requirements section in the *Cisco Threat Grid Appliance Administration Guide* for more information.

The configuration process includes mounting the NFS store, mounting the encrypted data, and initializing the Threat Grid 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.

Figure 17: NFS Configuration



NFS Configuration

State
DISABLED

Host

Path

Options
rw

FS Encryption Key Hash
no key

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, Configure Email.

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 Threat Grid 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 *Threat Grid Appliance Administrator Guide v2.12*.

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 *Threat Grid Appliance Administrator Guide v2.12*. Do not use the Wipe Appliance feature.

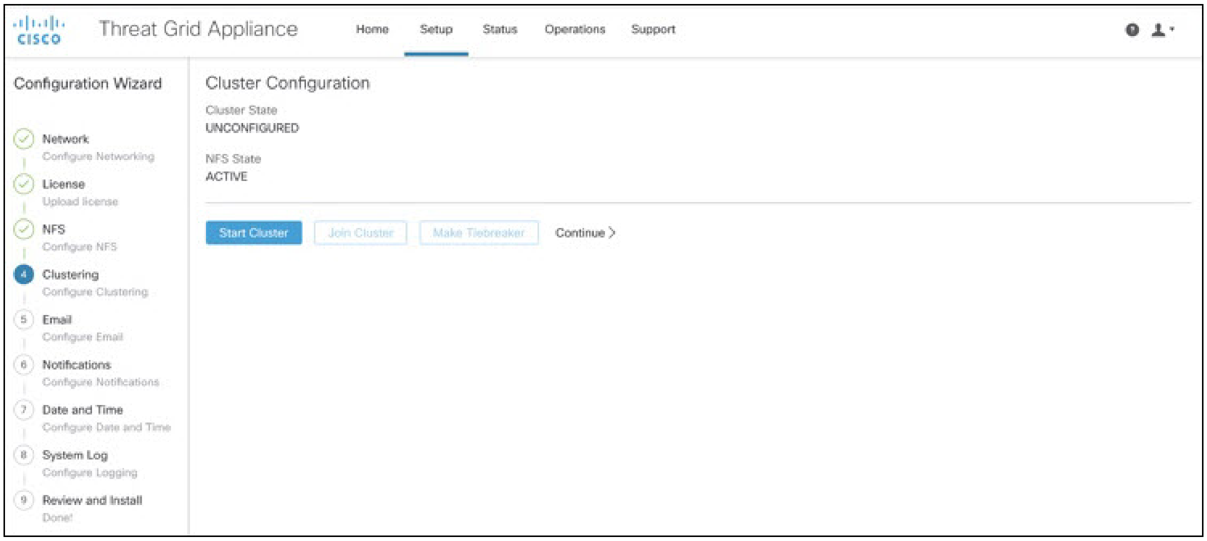
Configuring First Cluster Node

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.

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

Figure 18: Cluster Configuration



Cluster Configuration

Cluster State
UNCONFIGURED

NFS State
ACTIVE

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

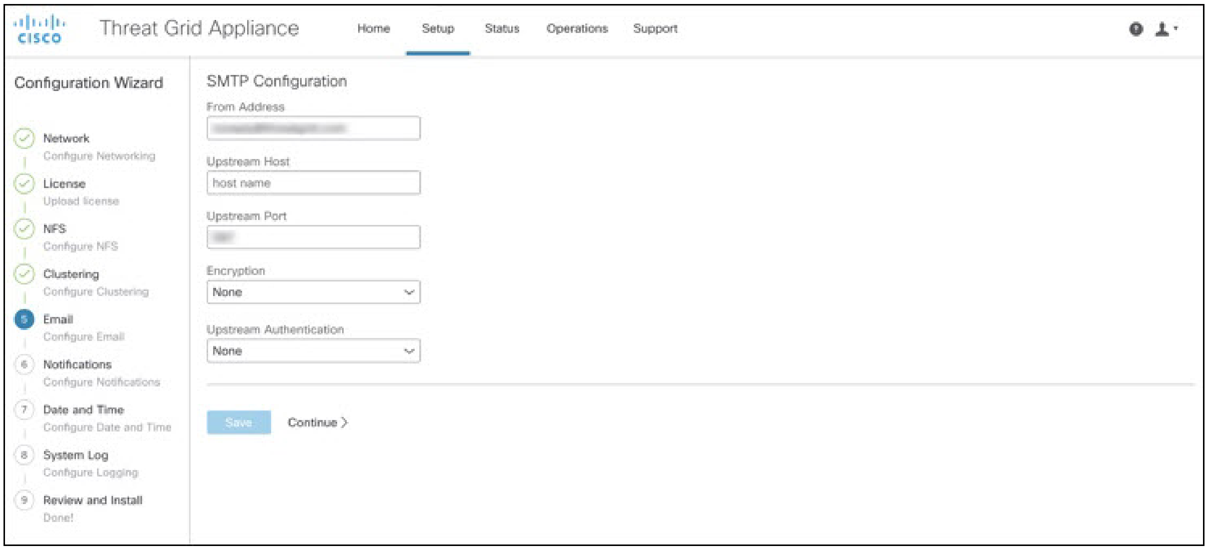
Proceed to Configure Email.

Configure Email

The next step in the workflow is to configure the email host.

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

Figure 19: SMTP Configuration



SMTP Configuration

From Address

Upstream Host: host name

Upstream Port

Encryption: None

Upstream Authentication: None

Step 2 Enter the email From Address.

Step 3 Enter the name of the Upstream Host (email host).

Step 4 Change the port from **587** to **25**.

Step 5 Keep the defaults for the other settings.

Step 6 Click **Save** to save your settings.

Step 7 Click **Continue** to move to the next step in the workflow.

What to do next

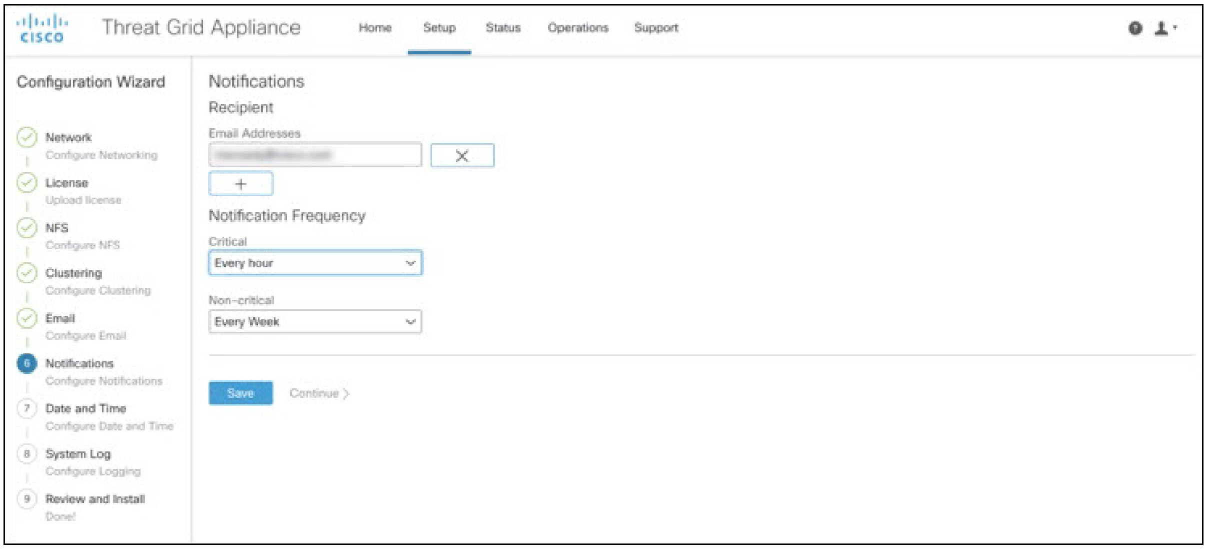
Proceed to Configure Notifications.

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 Threat Grid portal interface, but this page allows you to set up notifications that are also sent via email.

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

Figure 20: Notifications



Notifications

Recipient

Email Addresses: [redacted]

Notification Frequency

Critical: Every hour

Non-critical: Every Week

Step 2 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.

Step 3 Under **Notification Frequency**, choose the settings for **Critical** and **Non-critical** from the drop-down lists.

Step 4 Click **Save**.

Step 5 Click **Continue** to move to the next step in the workflow.

What to do next

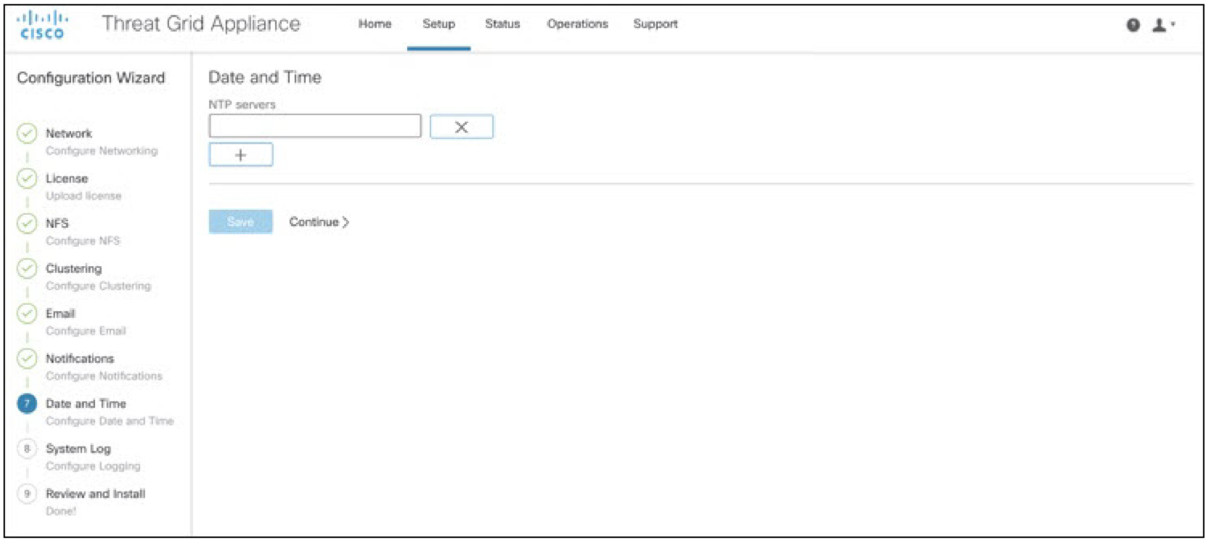
Proceed to Configure Date and Time.

Configure Date and Time

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

Step 1 Click **Date and Time** in the navigation pane to open the **Date and Time** page.

Figure 21: Date and Time



Step 2 Enter the **NTP Server(s)** IP or NTP name.

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

Step 3 Click **Save**.

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

What to do next

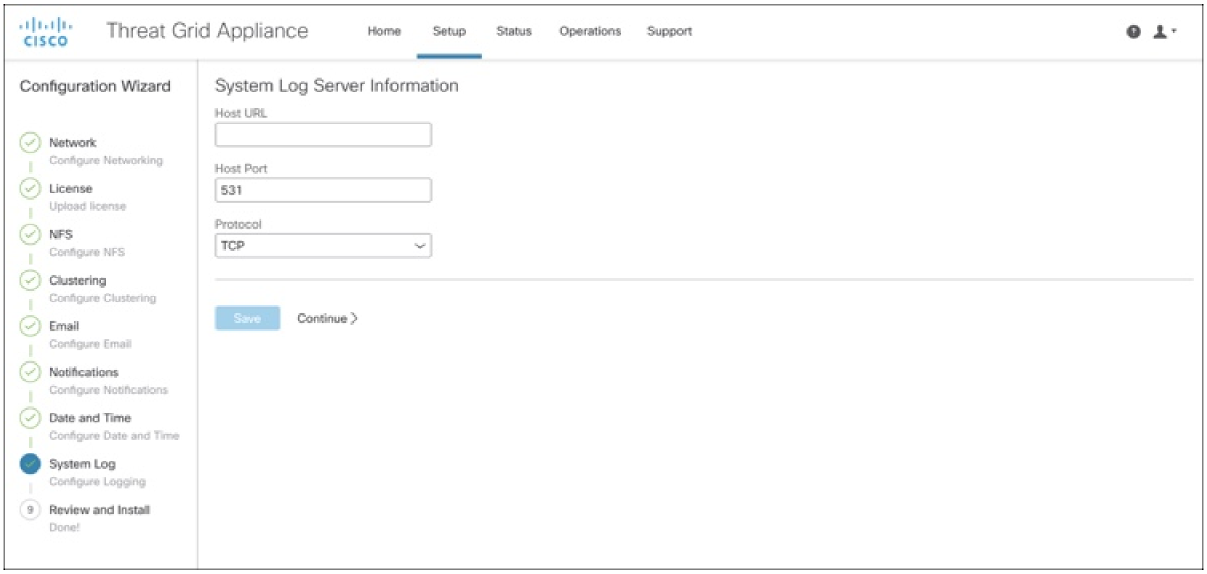
Proceed to Configure System Log.

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 Click **System Log** in the navigation pane to open the **System Log Server Information** page.

Figure 22: System Log Server Information



System Log Server Information

Host URL:

Host Port: 531

Protocol: TCP

Step 2 Complete the Host URL, Host Port, and Protocol fields and click **Save**.

Step 3 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.

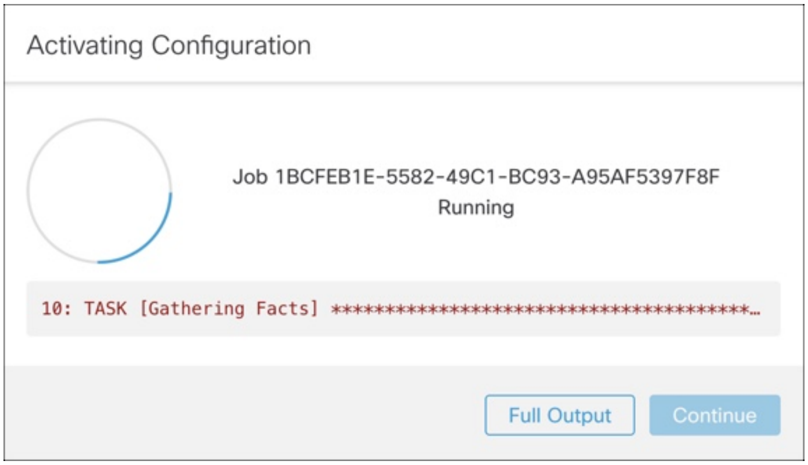
Review and Install Configuration Settings

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 **Start Installation** to begin installing the configuration scripts.

Note The screen displays configuration information as it is applied.

Figure 23: Activating Configuration

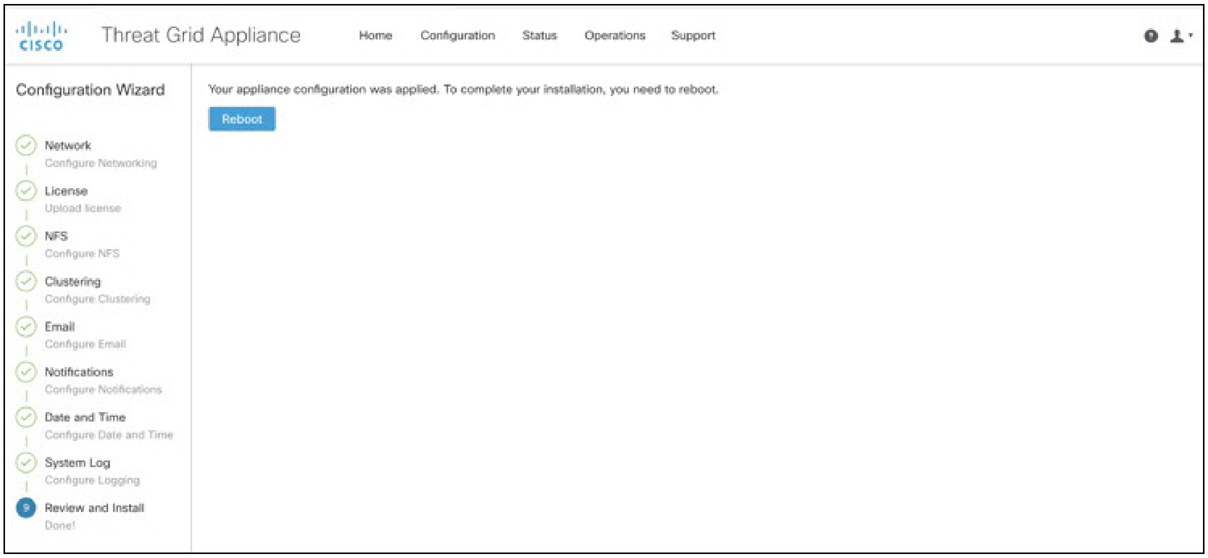


Job 1BCFEB1E-5582-49C1-BC93-A95AF5397F8F
Running

```
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 24: Successful Appliance Installation

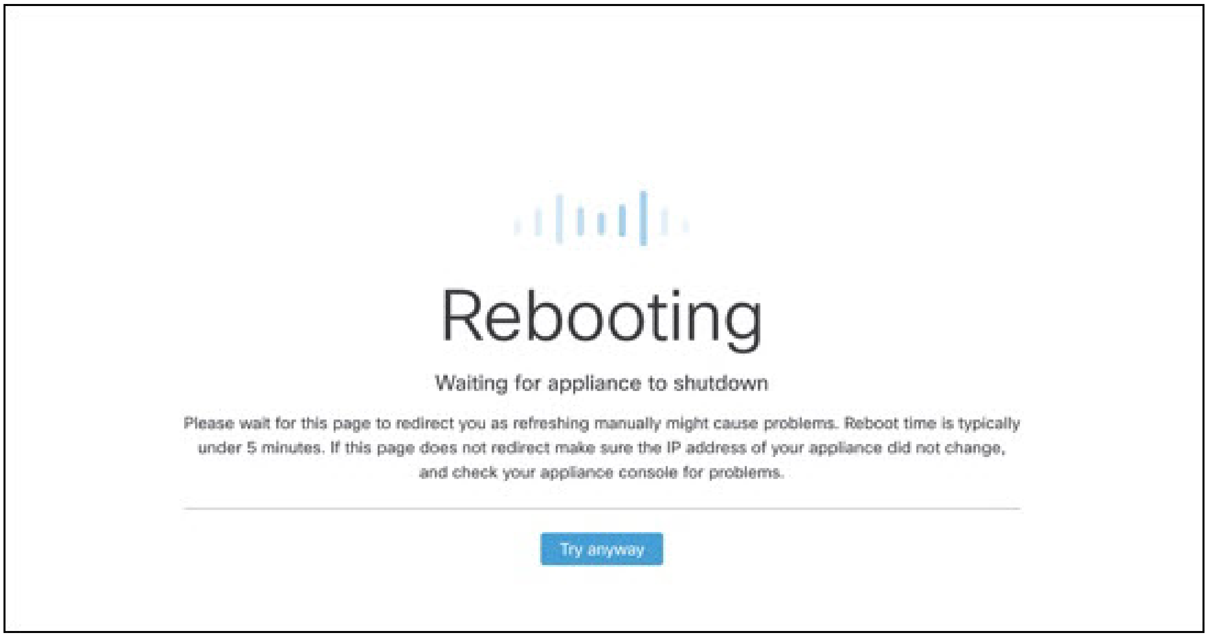


Your appliance configuration was applied. To complete your installation, you need to reboot.

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 25: 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 Threat Grid Appliance Updates

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

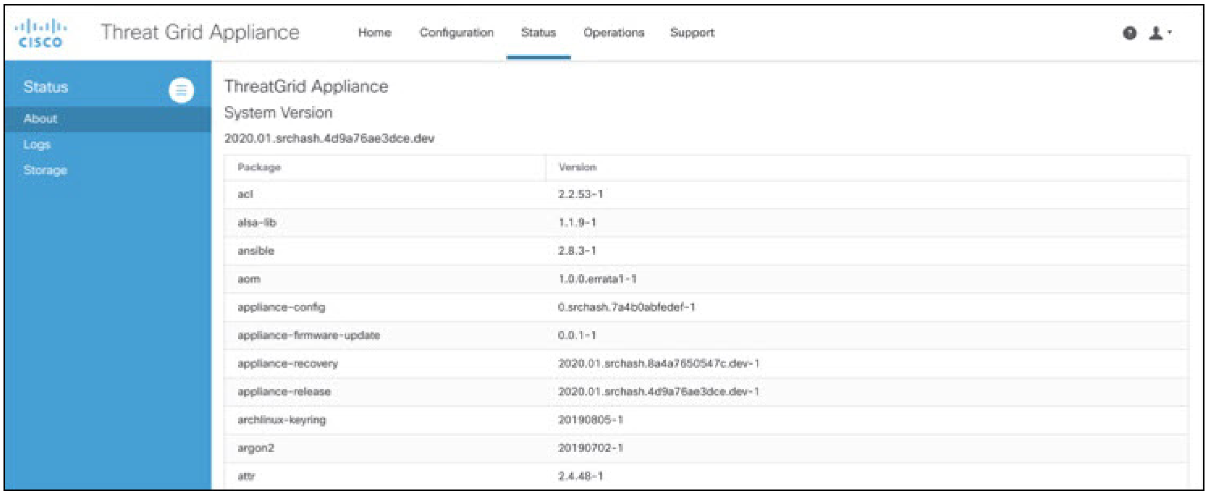
Users with air-gapped implementations may contact Support and request a downloadable update boot image.

Note For more information about installing updates, see the *Cisco Threat Grid Appliance Administration Guide*.

Step 1 Log in to the Admin UI, if you are not already logged in.

Step 2 From the **Operations** menu, choose **Update Appliance** to open the **Updates** page, which displays the current build of the appliance.

Figure 26: Appliance Build Number



ThreatGrid Appliance

System Version

2020.01.srchash.4d9a76ae3dce.dev

Package	Version
acl	2.2.53-1
alsa-lib	1.1.9-1
ansible	2.8.3-1
aom	1.0.0.errata1-1
appliance-config	0.srchash.7a4b0abfedef-1
appliance-firmware-update	0.0.1-1
appliance-recovery	2020.01.srchash.8a4a7650547c.dev-1
appliance-release	2020.01.srchash.4d9a76ae3dce.dev-1
archlinux-keyring	20190805-1
argon2	20190702-1
attr	2.4.48-1

Note See the *Cisco Threat Grid Appliance Version Lookup Table* for the corresponding release version.

Step 3 Click **Check for Updates**.

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

Step 4 Once the updates have been downloaded, click **Apply Update** to install them.

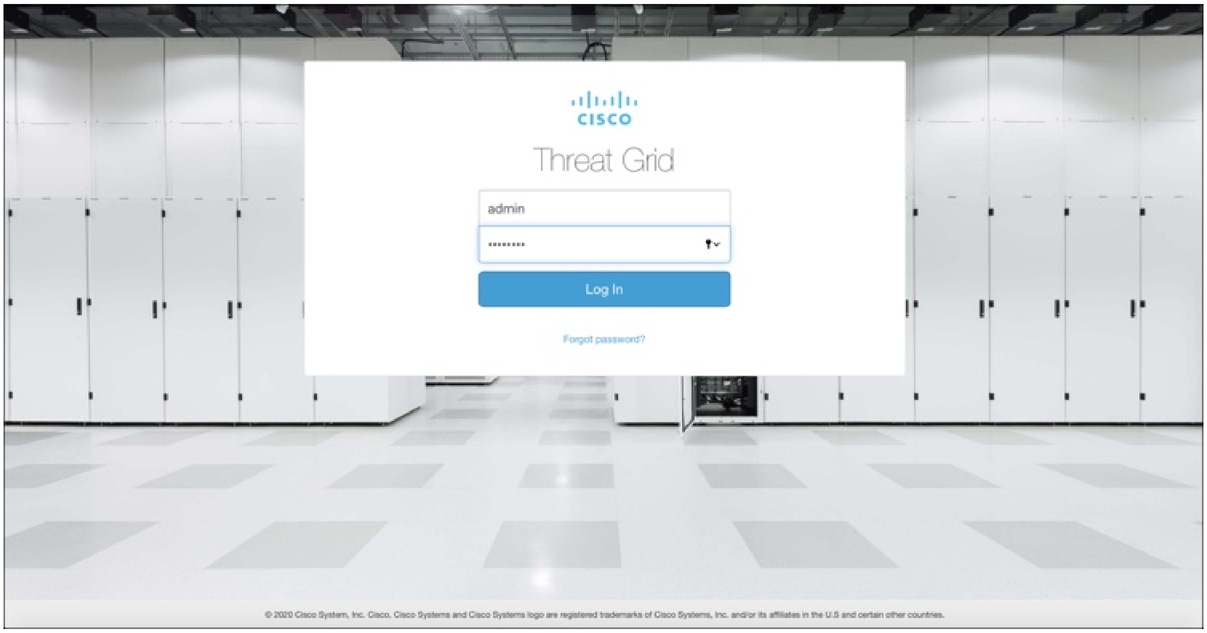
Test the Appliance Setup

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

Step 1 In a browser, open Threat Grid using the address you configured as the Clean interface.

The Threat Grid login page opens.

Figure 27: Threat Grid Login



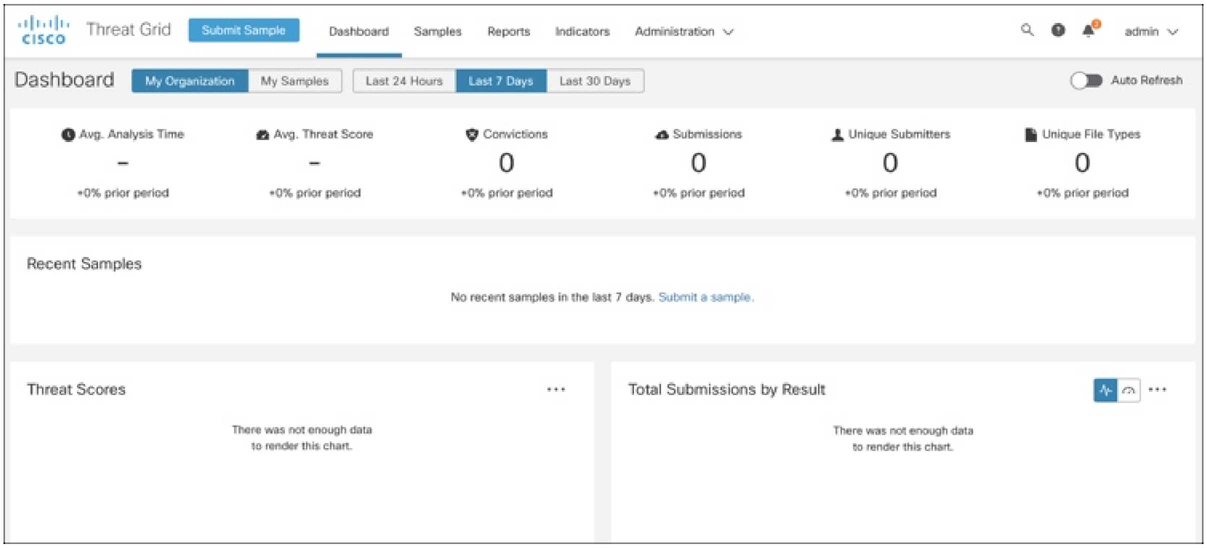
© 2020 Cisco System, Inc. Cisco, Cisco Systems and Cisco Systems logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S and certain other countries.

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 **Threat Grid** dashboard. There will be no sample data available yet.

Figure 28: Threat Grid Dashboard



Avg. Analysis Time	Avg. Threat Score	Convictions	Submissions	Unique Submitters	Unique File Types
-	-	0	0	0	0
+0% prior period	+0% prior period	+0% prior period	+0% prior period	+0% prior period	+0% prior period

Recent Samples

No recent samples in the last 7 days. Submit a sample.

Threat Scores

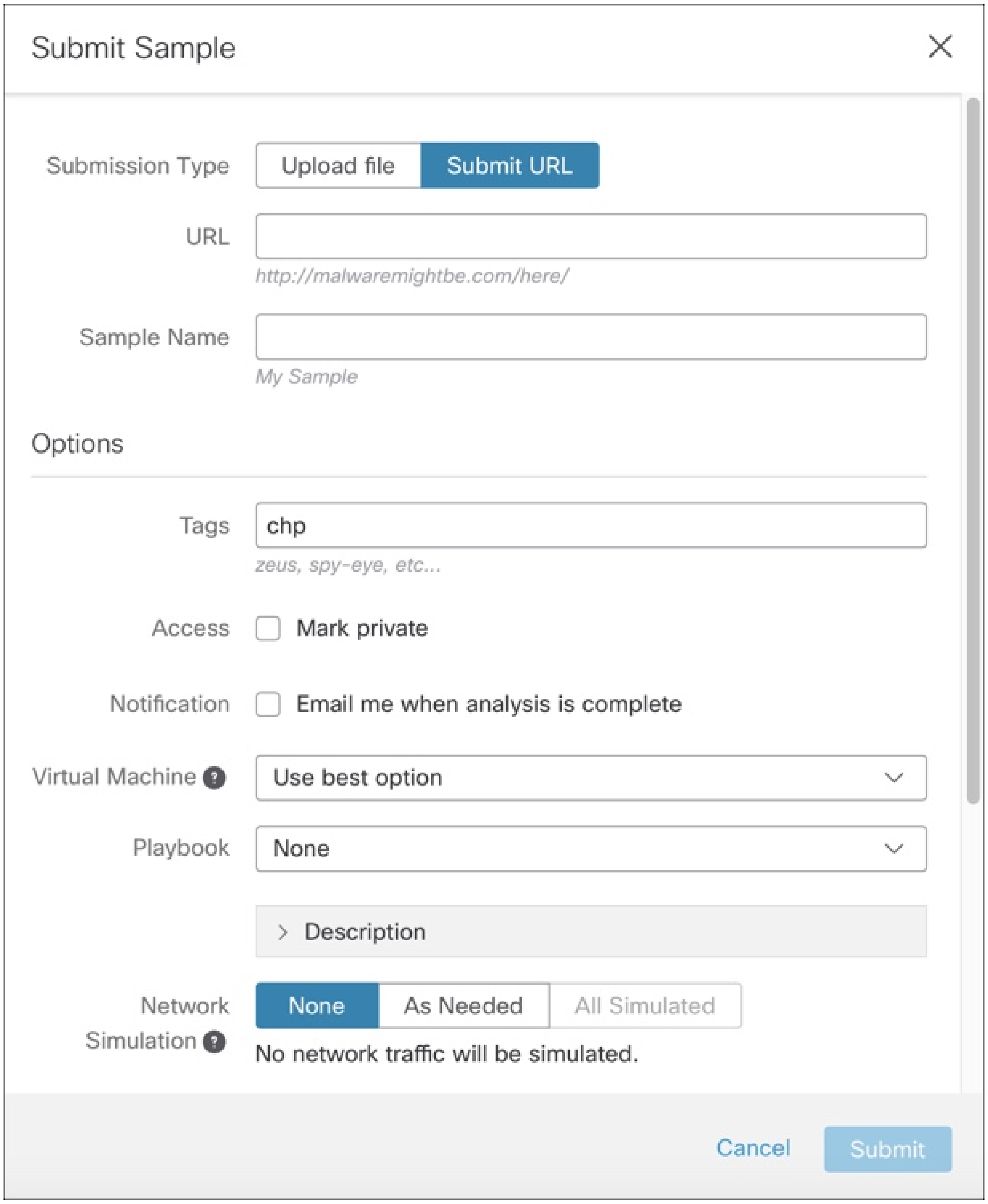
There was not enough data to render this chart.

Total Submissions by Result

There was not enough data to render this chart.

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

Figure 29: Submit Sample



Submit Sample

Submission Type: Upload file [✓ Submit URL]

URL:
http://malwaremightbe.com/here/

Sample Name:
My Sample

Options

Tags: chp
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.

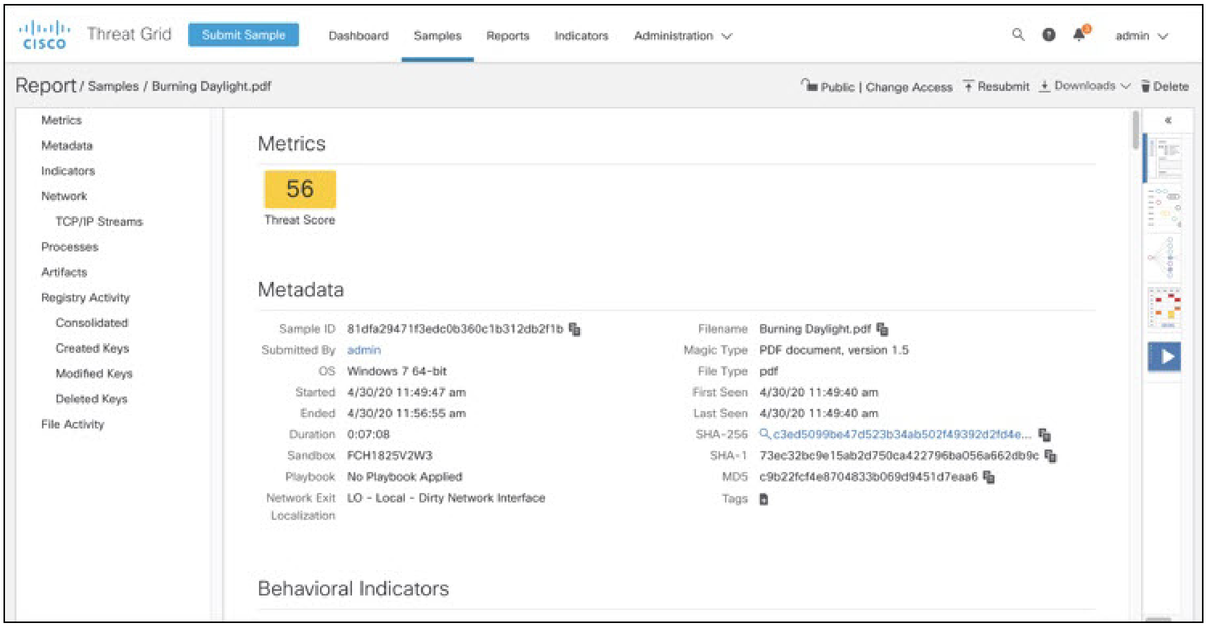
Note There is help available at the bottom of this form, describing sample submission file types, size, and other information. You can also click the **?** icon located in the upper-right corner to view the Threat Grid Release Notes and online help, including complete documentation on how to submit a 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 Threat Grid 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 30: Analysis Report



Sample ID	81dfa29471f3edc0b360c1b312db2f1b	Filename	Burning Daylight.pdf
Submitted By	admin	Magic Type	PDF document, version 1.5
OS	Windows 7 64-bit	File Type	pdf
Started	4/30/20 11:49:47 am	First Seen	4/30/20 11:49:40 am
Ended	4/30/20 11:56:55 am	Last Seen	4/30/20 11:49:40 am
Duration	0:07:08	SHA-256	c3ed5099be47d523b34ab502f49392d2fd4e...
Sandbox	FCH1825V2W3	SHA-1	73ec32bc9e15ab2d750ca422796ba056a662db9c
Playbook	No Playbook Applied	MD5	c9b22fcf4e8704833b069d9451d7eaa6
Network Exit Localization	LO - Local - Dirty Network Interface	Tags	

What to do next

Once the Threat Grid 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 Threat Grid Appliance Administration Guide* for information about administrator tasks.