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Cisco Threat Grid Appliance Setup and Configuration Guide Version 2.9

First Published: 2019-12-12 **Last Modified:** 2019-12-17

Americas Headquarters

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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
- What's New In This Release, on page 2
- Audience, on page 2
- Product Documentation, on page 2
- Threat Grid Support, on page 3

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.

What's New In This Release

The following changes have been implemented in this guide in Version 2.9:

Table 1: Changes in Version 2.9Mfg - December 17, 2019

Feature or Update	Section
No changes.	

Table 2: Changes in Version 2.9 - December 12, 2019

Feature or Update	Section
Threat Grid Shell command for disabling the Admin port.	Threat Grid Shell (tgsh)
Updated Network Interfaces to include ability to disable Admin port in Admin interface.	Network Interfaces
Updated Threat Grid Web portal UI Administrator password	Login Names and Passwords (Default) Test Appliance Setup
Updated Support information.	Threat Grid Support

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.

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 Administrator 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.

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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.

Threat Grid 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

cisc	Products & Services Support	How to Buy Training & Events Partners		Ð
	upport Case Manage Support cases for	ger		
	OPEN NEW CASE			000
	tent Products & Services	Open a New Case for Support on Cisco Products and Services	×	0.000
M	Webex Meetings	Dervices		Q. Case or Tracking Number
	Webex Teams & Webex Calling			
	Webex Messenger		Any Time 🗸	T APPLY FILTERS
	that Software Licensing			More Options ~
•		OPEN CASE		
		Contacts Feedback Site Map Terms & Condi	ions Philacy Statement Cookie Poli	cy Trademarks

- **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.
- Step 3 If you want to bypass entitlement, choose Contract Data not in C3 and click Next.

Figure 2: Check Entitlement

elsed Products & Services Support How to Buy Training & E	vents Partners	Ð
Support Case Manager Open a new support case for		
Products & Services		Need help with your case? 🚺 Own New 💿 🔘
0	2	3
Check Entitlement		
Diagnose and Fix Request RMA		
Bypass Entitlement		
CPR / Contract data not in C3		
NEXT Save draft and exit		

Step 4 On the **Describe Problem** page, enter a **Title** and **Description** of the problem (mention Threat Grid in the title).

Step 5 Click **Manually select a Technology** and search for **ThreatGRID**.

Figure 3: Select Technology

Select Technology	
Q ThreatGRID	0
Security - Network Firewalls and Intrusion Prevention Systems	^
ThreatGRID Appliance	
ThreatGRID Cloud	

Step 6 Choose **ThreatGRID** Appliance from the list and click **Select**.

Step 7 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 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

Enable Support Mode

If you require support from a Threat Grid engineer, they may ask you to enable Support Mode, which is a live support session that gives Threat Grid support engineers remote access to the appliance. Normal operations of the appliance will not be affected.

You can enable Support Mode from the OpAdmin portal **Support** menu. You can also enable it from the TGSH Dialog, the legacy Face Portal UI, and when booting up in Recovery Mode.

Step 1 In the OpAdmin portal, click the **Support** menu and choose **Live Support Session**.

Figure 4: OpAdmin Start a Live Support Session

0 0 0 ThreatGRID Appliance Adm ×	2
← → C fi (k https://100.67.2.100/support/sessions	☆ =
Apps 🥵 ThreatGRID	Cther Bookmarks
	Support ? Help
Configuration - Operations - Status - Support -	· ·
A support session can be created to facilitate secure remote access to yr support engineer. Start Support Session No support sessions have been started.	our appliance from a ThreatGRID
Viait ThreatGRID.com Documentation Support License	SThreatCRID'

Step 2 Click Start Support Session.

Note You can exit the OpAdmin configuration wizard to enable Support Mode prior to licensing.

Support Snapshots

A support snapshot is basically a snapshot of the running system, which contains logs, psoutput, etc., to help Support staff troubleshoot any issues.

- **Step 1** Verify that SSH is specified for Support Snapshot services.
- **Step 2** From the **Support** menu, choose **Support Snapshots**.
- **Step 3** Take the snapshot.
- **Step 4** Once you take the snapshot, download it as a **.tar** or **.gz** file, or click **Submit**, to automatically upload the snapshot to the Threat Grid snapshot server.



Planning

The Cisco Threat Grid Appliance is a Linux server with Threat Grid software installed by Cisco Manufacturing prior to shipment. Once a new Threat Grid Appliance is received, it must be set up and configured for your on-premises network environment.

This chapter includes the following information about the environmental, hardware, and network requirements that should be reviewed prior to configuration:

- Supported Browsers, on page 7
- Environmental Requirements, on page 8
- Hardware Requirements, on page 8
- Network Requirements, on page 8
- DNS Server Access, on page 9
- NTP Server Access, on page 10
- Integrations, on page 10
- DHCP, on page 10
- License, on page 10
- Organization and Users, on page 10
- Updates, on page 11
- User Interfaces, on page 11
- Network Interfaces, on page 12
- Firewall Rules, on page 15
- Login Names and Passwords (Default), on page 18
- Setup and Configuration Overview, on page 18

Supported Browsers

Threat Grid supports the following browsers:

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



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

Environmental Requirements

Threat Grid Appliance (v2.7.2 and later) is deployed on the Threat Grid M5 Appliance server. Before you set up and configure the Threat Grid Appliance, make sure the necessary environmental requirements for power, rack space, cooling, and other issues are met, according to the specifications in the Cisco Threat Grid M5 Hardware Installation Guide.

Hardware Requirements

The SFP+ form factor is used for the Admin interface. If you are clustering Threat Grid Appliances, each one will require an additional SFP+ module on the Clust interface.

The SFP+ modules must be connected *before* the Threat Grid Appliance is powered on for the session in which the configuration wizard is going to be run.

If there are no SFP+ ports available on the switch, or SFP+ is not desirable, then a transceiver for 1000Base-T can be used (for example, Cisco Compatible Gigabit RJ 45 Copper SFP Transceiver Module Mini -GBIC -10/100/1000 Base-T Copper SFP Module).

Figure 5: Cisco 1000BASE-T Copper SFP (GLC-T)



You can attach a monitor to the server, or, if Cisco Integrated Management Controller (CIMC) is configured, you can use a remote KVM (on UCS C220-M3 and C220-M4 servers).

Note CIMC is not supported on the Threat Grid M5 Appliance server.

The Cisco UCS Power Calculator is available to get a power estimate.

Network Requirements

The Threat Grid Appliance requires three networks:

• ADMIN - The Administrative network must be configured to perform the Threat Grid Appliance setup.

Note

• OpAdmin Management Traffic (HTTPS)

• SSH

- NFSv4 (Outbound. If a NFS hostname is used instead of IP, this name will be resolved via Dirty DNS.)
- CLEAN The Clean network is used for inbound, trusted traffic to the Threat Grid Appliance (requests), and integrated appliances such as the Cisco Email Security Appliance and Web Security Appliance; integrated applicances connect to the IP address of the Clean interface.



Note The URL for the Clean network interface will not work until the OpAdmin portal configuration is complete.

The following specific, restricted types of network traffic can be outbound from the Clean network:

- Remote syslog connections
- · Email messages sent by the Threat Grid Appliance
- Disposition Update Service connections to AMP for Endpoints Private Cloud devices
- DNS requests (related to any of the above)

• LDAP

• **DIRTY** - The Dirty network is used for outbound traffic from the Threat Grid Appliance (including malware traffic).

Note To protect your internal network asses, we recommend using a dedicated external IP address (for example, the Dirty interface) that is different from your corporate IP.

For network interface setup information, see Network Interfaces.

DNS Server Access

The DNS server needs to be accessible via the Dirty network when used for purposes other than Disposition Update Service lookups, resolving remote syslog connections, and resolving the mail server used for notifications from the Threat Grid software.

By default, DNS uses the Dirty interface. The Clean interface is used for AMP for Endpoints Private Cloud integrations. If the AMP for Endpoints Private Cloud hostname cannot be resolved over the Dirty interface, then a separate DNS server that uses the Clean interface can be configured in the OpAdmin interface.

See the Cisco Threat Grid Appliance Administrator Guide for additional information.

NTP Server Access

The NTP server needs to be accessible via the Dirty network.

Integrations

Additional planning may be required if the Threat Grid Appliance is going to be used with other Cisco products, such as the Email Security Appliance, Web Security Appliance, or AMP for Endpoints Private Cloud. See the *Cisco Threat Grid Appliance Administrator Guide* for more information.

DHCP

If you are connected to a network configured to use DHCP, follow the instructions provided in the Using DHCP section of the *Cisco Threat Grid Appliance Administrator Guide*.

License

You will receive a license and password from Cisco Threat Grid.

For questions about licenses, contact Threat Grid Support.

Rate Limits

The API rate limit is global for the Threat Grid Appliance under the terms of the license agreement. This affects API submissions ONLY, not manual sample submissions.

Rate limits are based on a window of rolling time, not to a calendar day. When the submission limit is exhausted, the next API submission will return a 429 error, plus a message about how long to wait before retrying. See the FAQs in the Threat Grid portal UI online Help for a detailed description.

Organization and Users

Once you have completed the Threat Grid Appliance setup and network configuration, you must create the initial Threat Grid organizations and add user account(s), so that people can login and begin submitting malware samples for analysis. This task may require planning and coordination among multiple organizations and users, depending on your requirements.

See the Create New Organization section in the *Cisco Threat Grid Appliance Administrator Guide*. See the Threat Grid portal Help for information about managing users.

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.

User Interfaces

After the server has been correctly attached to the network and powered up, there are several user interfaces available for configuring the Threat Grid Appliance.



LDAP authentication is available for TGSH Dialog and OpAdmin (v2.1.6 and later).

TGSH Dialog

The **TGSH Dialog** interface is used to configure the network interfaces. The TGSH Dialog is displayed when the Threat Grid Appliance successfully boots up.

Reconnecting to the TGSH Dialog

The TGSH Dialog remains open on the console and can be accessed either by attaching a monitor to the appliance or, if CIMC is configured, via remote KVM.



CIMC is not supported on the Threat Grid M5 Appliance server.

To reconnect to the TGSH Dialog, ssh into the Admin IP address as the user threatgrid.

The required password is either the initial, randomly generated password, which is visible initially in the TGSH Dialog, or the new Admin password you create during the first step of the OpAdmin Portal Configuration.

Threat Grid Shell (tgsh)

The Threat Grid Shell (tgsh) is an administrator's interface that is used to execute commands (including destroy-data and forced backup), and for expert, low-level debugging. To access tgsh, select **CONSOLE** in the TGSH Dialog.

Note	OpAdmin uses the same credentials as the Threat Grid user, so any password changes/updates made via tgsh will also impact OpAdmin.
Â	
Caution	Network configuration changes made with tgsh are not supported unless specifically directed by Threat Grid support; OpAdmin or TGSH Dialog should be used instead.

OpAdmin Portal

This is the primary Threat Grid GUI configuration tool. Much of the Threat Grid Appliance configuration can ONLY be done via OpAdmin, including licenses, email host, and SSL certificates.

Threat Grid Portal

The Threat Grid user interface application is available as a cloud service, and is also installed on Threat Grid Appliances. There is no communication between Threat Grid Cloud service and the Threat Grid Portal that is included with a Threat Grid Appliance.

Network Interfaces

Interface	Description
Admin	• Connect to the Admin network. Only inbound from Admin network.
	OpAdmin UI traffic
	SSH (inbound) for TGSH Dialog
	• NFSv4 for backups and clustering (Outbound. If a NFS hostname is used instead of IP, this name will be resolved via Dirty DNS.) Must be accessible from all cluster notes.
	• The Admin port can be disabled (from the tgsh shell). When disabled, non-clustered Threat Grid Appliances can operate correctly with only the clean and dirty ports connected, and the admin UI will be presented on port 8443 of the clean interface. If the port is not disabled, unplugging the admin port results in a non-functional (or at best, a partially-functional) Threat Grid Appliance.
	Note The form factor for the Admin interface is SFP+. See Hardware Requirements.

The available network interfaces are described in the following table:

Interface	Description
Clust	The non-Admin SFP+ port is used for clustering.
	Clust interface required for clustering (optional)
	• Requires an additional SFP+ module for direct interconnect. This interface does not require any configuration. Addresses are automatically assigned.
Clean	• Connect to the Clean network. Clean must be accessible from the corporate network but requires no outbound access to the Internet.
	• UI and API traffic (inbound)
	Sample submissions
	• SMTP (outbound connection to the configured mail server)
	SSH (inbound for TGSH Dialog)
	• Syslog (outbound to configured syslog server)
	ESA/WSA and CSA Integrations
	AMP for Endpoints Private Cloud Integration
	• DNS optional
	• LDAP (outbound)

Interface	Description	
Dirty	Connect to the Dirty network; requires Internet access. Outbound Only.	
	You should not use your own DNS (private IP) for the Dirty Interface because traffic sent to a private IP is dropped at the Network Exit Localization firewall.	
	• DNS	
	Note If you are setting up an integration with a AMP for Endpoints Private Cloud, and the AMP for Endpoints appliance hostname cannot be resolved over the Dirty interface, then a separate DNS server that uses the Clean interface can be configured in OpAdmin.	
	• NTP	
	• Updates	
	Support session in Normal operations mode	
	Support snapshots	
	Malware sample-initiated traffic	
	Recovery mode support session (outbound)	
	OpenDNS, TitaniumCloud, VirusTotal, ClamAV	
	• SMTP outbound connections are redirected to a built-in honeypot	
	Note Using IPv4LL address space (168.254.0.16) for the Dirty interface is not supported.	
CIMC Interface	Recommended. If the Cisco Integrated Management Controller (CIMC) interface is configured, it can be used for server management and maintenance. For more information see the <i>Cisco Threat Grid Appliance Administrator Guide</i> .	
	Note CIMC is not supported on the Threat Grid M5 Appliance server.	

Network Interface Setup Diagram

This section describes the most logical and recommended setup for a Threat Grid Appliance. However, each customer's interface setup is different. Depending on your network requirements, you may decide to connect the Dirty interface to the inside, or the Clean interface to the outside with appropriate network security measures in place.

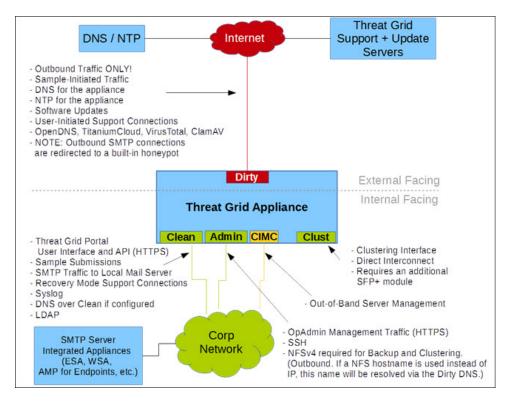


Figure 6: Network Interfaces Setup Diagram



In Threat Grid Appliance (v2.7.2 and later), the **enable_clean_interface**option is available but is disabled by default. This option (after applying configuration and rebooting) enables access to the administrative interface on port 8443 of the assigned clean IP.

Firewall Rules

This section provides suggested firewall rules.



Implementing a restrictive outgoing policy on the Dirty interface for ports 22 and 19791 requires tracking updates over time and spending more time maintaining the firewall.



Note

Using IPv4LL address space (168.254.0.16) for the Dirty interface is not supported.

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Dirty Interface Outbout

Source	Destination	Protocol	Port	Action	Note
Dirty Interface	Internet	ANY	ANY	Allow	Allow outbound traffic from samples. (To get accurate results it is required that malware be allowed to contact its command and control server using whatever port and protocol it is designed to use.)

Dirty Interface Inbound

Source	Destination	Protocol	Port	Action	Note
ANY	Dirty Internet	ANY	ANY	Deny	Deny all incoming connections.

Clean Interface Outbound

Source	Destination	Protocol	Port	Action	Note
Clean Interface	SMTP Servers	ТСР	25	Allow	The appliance uses the clean interface to initiate SMTP connections to the configured mail server.

Clean Interface Outbound (Optional)

Source	Destination	Protocol	Port	Action	Note
Clean Interface	Corporate DNS Server	TCP/UDP	53	Allow	Optional, only required if Clean DNS is configured.
Clean Interface	AMP Private Cloud	ТСР	443	Allow	Optional, only required if AMP for Endpoints Private Cloud integration is used.
Clean Interface	Syslog Servers	UDP	514	Allow	Allow connectivity to server designated to receive Syslog messages and Threat Grid notifications.
Clean Interface	LDAP Servers	TCP/UDP	389	Allow	Optional, only required if LDAP is configured.
Clean Interface	LDAP Servers	ТСР	636	Allow	Optional, only required if LDAP is configured.

Clean Interface Inbound

Source	Destination	Protocol	Port	Action	Note
User Subnet	Clean Interface	ТСР	22	Allow	Allow SSH conectivity to the TGSH Dialog.
User Subnet	Clean Interface	ТСР	80	Allow	Appliance API and Threat Grid user interface. This will redirect to HTTPS TCP/443.
User Subnet	Clean Interface	ТСР	443	Allow	Appliance API and Threat Grid user interface.
User Subnet	Clean Interface	ТСР	9443	Allow	Allow connectivity to the Threat Grid UI Glovebox.

Admin Interface Outbound (Optional)

The following depends on what services are configured.

Source	Destination	Protocol	Port	Action	Note
Admin Interface	NFSv4 Server	ТСР	2049	Allow	Optional, only required if Threat Grid Appliance is configured to send backups to an NFSv4 share.

Admin Interface Inbound

Source	Destination	Protocol	Port	Action	Note
Admin Subnet	Admin Interface	ТСР	22	Allow	Allow SSH connectivity to the TGSH Dialog.
Admin Subnet	Admin Interface	ТСР	80	Allow	Allow access to the OpAdmin Portal interface. This will redirect to HTTPS TCP/443.
Admin Subnet	Admin Interface	ТСР	443	Allow	Allow access to the OpAdmin Portal interface.

Dirty Interface for Non Cisco-Validated/Recommended Deployment

Source	Destination	Protocol	Port	Action	Note
Dirty Interface	Internet	ТСР	22	Allow	Update, support snapshot, and licensing services.
Dirty Interface	Internet	TCP/UDP	53	Allow	Allow outbound DNS.
Dirty Interface	Internet	UDP	123	Allow	Allow outbound NTP.

Source	Destination	Protocol	Port	Action	Note
Dirty Interface	Internet	ТСР	19791	Allow	Allow connectivity to Threat Grid support.
Dirty Interface	Cisco Umbrella	ТСР	443	Allow	Connect with third-party detection and enrichment services.
Dirty Interface	VirusTotal	ТСР	443	Allow	Connect with third-party detection and enrichment services.
Dirty Interface	TitaniumCloud	ТСР	443	Allow	Connect with third-party detection and enrichment services.

Login Names and Passwords (Default)

The default login names and passwords are listed in the following table:

User	Login/Password
OpAdmin and Shell User	Use the initial Threat Grid/TGSH Dialog randomly generated password, and then the new password entered during the first step of the OpAdmin configuration workflow.
	If you lose the password, see the Reset Administrator Password section in the of the <i>Cisco Threat Grid</i> <i>Appliance Administrator Guide</i> .
Threat Grid Web portal UI Administrator	Login: admin
	Password: Initialize with the first OpAdmin password, and then it becomes independent.
CIMC	Login: admin
	Password: password

Setup and Configuration Overview

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

- Initial Network Configuration
- OpAdmin Portal Configuration
- Installing Updates
- Testing Appliance Setup

Complete the remaining administrative configuration tasks (such as license installation, email server, and SSL certificates) in the OpAdmin Portal as documented in the *Cisco Threat Grid Appliance Administrator Guide*.

You should allow approximately 1 hour to complete the initial configuration steps.



Initial Network Configuration

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

- Power On and Boot Up Appliance, on page 21
- Configure Network Using TGSH Dialog, on page 22

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 7: 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...

Note If you want to configure this interface, press **F8** after the memory check is completed. See the CICM Configuration appendix in the *Cisco Threat Grid Appliance Administrator Guide*.

The **TGSH Dialog** is displayed on the console when the server has successfully booted up and connected. *Figure 8: TGSH Dialog*

00	198.18.2.23 - KVM Console	
C	isco ThreatGRID - Unified Malware Analysis and Threat Intelligence	
-	Hain Henu	
	Your ThreatGRID device can be managed at: Admin URL / MAC : (UMAVAILABLE> / Application URL / MAC : (UMAVAILABLE> / Password	
	The password shown above has been automatically generated for you. You will be required to change this password when you first login.	
	CONFIG_NETWORKConfigure the system's network interfaces.SUPPORT_MODEAllow remote access by customer support.UPDATESDownload and optionally install updatesSNAPSHOTSGenerate and submit support snapshotsAPPLYReboot and fully assert configuration state	
	CONSOLE CLI-based configuration access. EXIT Complete configuration session.	
	<u>< ok</u> >	
	198.18.2.23 admin 0.0	fps 0.002 KB/s 🗃

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

C) Important

The **TGSH Dialog** displays the initial administrator Password, which will be needed to access and configure the OpAdmin Portal interface 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 OpAdmin portal, 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 Administrator Guide*.

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

Figure 9: TGSH Dialog - Network Configuration Console

Cisc	DNS Servers DNS Primary DNS Secondary Interface: clean DHCP Enabled? (Y/N) Configure Non-Default Routes? (Y/N) Address Netmask Default Gateway DHS Name Interface: dirty DHCP Enabled? (Y/N) Configure Non-Default Routes? (Y/N) Address Netmask Default Gateway DHS Mame The the second secon	1 4	
	<pre></pre>		

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.

DNS Primary 198.19.3.200 DMS Secondary Interface: clean DHCP Enabled? (Y/N) N Configure Non-Default Routes? (Y/N) N Address 100.67.1.100 Metmask 255.255.255.0 Default Gateway 100.67.1.1 DHS Name tg-app-clean.acm Interface: dirty N DHCP Enabled? (Y/N) N Address 198.19.3.100 Netmask 255.255.255.0 DHCP Enabled? (Y/N) N Address 198.19.3.100 Netmask 255.255.255.0 Default Gateway 198.19.3.100 Netmask 255.255.255.0 Default Gateway 198.19.3.1 DMS Name 198.19.3.1	(Y/N) N 100.67.1.100
Interface: clean DHCP Enabled? (Y/N) Configure Non-Default Routes? (Y/N) Address Default Gateway DMS Name Interface: dirty DHCP Enabled? (Y/N) Configure Non-Default Routes? (Y/N) Address Metmask Default Gateway DHS Name 198.19.3.100 Metmask DMS Name DMS Name 198.19.3.100 Metmask DMS Name	100.67.1.100
Configure Non-Default Routes? (Y/N)NAddress109.67.1.100Netmask255.255.255.0Default Gateway100.67.1.1DNS Nametg-app-clean.acmInterface: dirtyHDHCP Enabled? (Y/N)NAddress198.19.3.100Metmask255.255.05Default Gateway198.19.3.1DMS Name198.19.3.1	100.67.1.100
Address 100.67.1.100 Metmask 255.255.0 Default Gateway 100.67.1.1 DNS Name 109.67.1.1 Interface: dirty 100.67.1.1 DHCP Enabled? (Y/N) N Address 198.19.3.100 Metmask 255.255.6 Default Gateway 198.19.3.1 DNS Name 198.19.3.1	100.67.1.100
Metmask 255.255.255.0 Default Gateway 100.67.1.1 DNS Name tg-app-clean.acm Interface: dirty DHCP Enabled? (Y/N) DHCP Enabled? (Y/N) N Address 198.19.3.100 Metmask 255.255.255.0 Default Gateway 198.19.3.10 DNS Name 198.19.3.1	
Default Gateway 100.67.1.1 DNS Name tg-app-clean.acm Interface: dirty N 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 198.19.3.1	
Interface: dirty DHCP Enabled? (Y/N) Configure Non-Default Routes? (Y/N) Address Netmask Default Gateway DHS Name Netmask	100.67.1.1
DHCP Enabled? (Y/N) Configure Non-Default Routes? (Y/N) Address Netmask Default Gateway DNS Name	tg-app-clean.acm
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	N
Address 198.19.3.100 Metmask 255.255.255.0 Default Gateway 198.19.3.1 DNS Name 198.19.3.1	(Y/N)
Default Gateway 198.19.3.1 DNS Name	198.19.3.100
DNS Name	
	198.19.3.1
10%	75%
	(Cancel)
(Ualidate) (Cancel >	Cancel >

Figure 10: Network Configuration In-Progress (Clean and Dirty)

00	198.18.2.23 - KVM Console	
	Cisco T Network Configuration	
	Netmask255.255Default Gateway100.67.1DMS Nametg-appedInterface: dirtyDHCP Enabled? (Y/N)Configure Non-Default Routes? (Y/N)Address198.19.2DMS Name198.19.3Interface: adminDHCP Enabled? (Y/N)N Mame198.19.3Interface: adminDHCP Enabled? (Y/N)Address198.19.3DHS Name198.19.3Interface: adminNDHCP Enabled? (Y/N)NAddress100.67.2Netmask255.255Default Gateway100.67.2	1.1 1ean.acm 3.100 255.0 3.1 2.100 2.55.0
	<pre></pre>	
	1	98.18.2.23 admin 3.2 fps 10.416 KB/s 卣

Figure 11: Network Configuration In-Progress (Admin)

Step 7After 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 12: Network Configuration Confirmation

DNS Servers	
DNS Primary	
DNS Secondary Interface: clean	
DHCP Enabled? (Y/N)	
Configure Non-Default Routes? (Y/N)	
Address	
Netmask	
Default Gateway	
DNS Name	
Interface: dirty DHCP Enabled? (Y/N)	
Configure Non-Default Routes? (Y/N)	
Address	
Netmask	
Default Gateway	
DNS Name	
	752
(Apply > (Cance	el >

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

After the configuration settings are applied (it may take 10 minutes or more to complete), details about the changes are displayed.





Step 9 Select OK.

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

Figure 14: IP Addresses

9.0	198.18.2.23 - KVM Console		-	
Cis	co ThreatGRID - Unified Malware Analysis and Threat Intellige	nce		
	Your ThreatGRID device can be managed at: Admin URL / MAC : https://100.67.2.100 / 90:e2:ba:82 Application URL / MAC : https://100.67.1.100 / 7c:0e:ce:67 Password : hJaB5pkPRu009tnua60v The password shown above has been automatically generated for You will be required to change this password when you first	r you.		
	CONFIG_NETWORKSUPPORT_MODEConfigure the system's network interfaces.UPDATESDownload and optionally install updatesSNAPSHOTSGenerate and submit support snapshotsAPPLYReboot and fully assert configuration statCONSOLECLI-based configuration access.EXITComplete configuration session.	1		
	<u>< DK</u> >			
	198.18.2.2	23 admin	1.2 fps	2.727 KB/s

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

Note The URL for the Clean interface is not active until the OpAdmin portal 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 OpAdmin Portal, as described in OpAdmin Portal Configuration.



OpAdmin Portal Configuration

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

- Introduction, on page 29
- Configuration Wizard, on page 31
- Install Threat Grid Appliance Updates, on page 39
- Test Appliance Setup, on page 40

Introduction

The OpAdmin Portal is the Threat Grid administrator's portal on the appliance and is the recommended tool for configuring your 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 OpAdmin Admin Password
- Review End User License Agreement
- Review Network Configuration Settings (not configured using wizard)
- Install License
- Configure NFS
- Configure Email Host
- Configure Notifications
- Configure Date and Time (NTP Server)
- Configure SysLog
- Review and Install Configuration Settings



Note

Not all configuration steps are completed using the configuration wizard. See the *Cisco Threat Grid Appliance Administrator Guide* for configuring settings not included in the wizard, such as SSL Certificates and Clustering.



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 OpAdmin Portal

Perform the following steps to log in to the Threat Grid OpAdmin portal.

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

Note The Hostname is the appliance serial number (v2.7 or later).

Figure 15: OpAdmin Login Screen

O O ThreatCRID Appliance O O ThreatCRID Appliance Apps ThreatGRID	Adr. x	w ² ☆ ≡ Other Bookmarks
	ThreatGRID'	
	Password Required	
	Authentication is required to administer your ThreatGRID Appliance. The password can be found on the appliance console of your Appliance server.	
	Login	
	This site is best viewed in: internet Explorer 10+, Firefox 14+, Safari 6+, or Chrome 20+	
	Support	
	ThreatGRID.com	
	Support	

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

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.

Step 1 Enter the password from the TGSH Dialog in the Old Password field. (You should have this saved in a text file.)

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

Configure Network Settings

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

- **Step 1** Review the IP addreses 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 Administrator 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 16: License Page Prior to Installation

Appliance ID	
FCH1832V32N	
License	
No license has been installed.	
Upload New License	
Choose File No file chosen	
Upload	
Retrieve License From Server	
Retrieve	

Step 2 In the Upload New License pane, click Choose File and select the license from your file manager.

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

- **Step 3** Enter your license password in the **Passphrase** field.
- **Step 4** Click **Upload** to install the license. The page refreshes and your license information is displayed.

FCH1832V32N	
License	
Licensee	No Name Provided provision@threatgrid.com
Business	2f518e6d-dd45-4397-9533-3c6d38239c32
Validity	Fri, 22 Sep 2017 14:47:46 +0000 - Mon, 21 Sep 2020 14:47:46 +0000
Product SKU	
Daily Submissions	1500
Choose File No file	chosen
Upload	
Retrieve License From	m Server
Retrieve	

Figure 17: License Information After Successful Installation

Step 5 Click Next to 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 clustering. See the NFS Requirements section in the *Cisco Threat Grid Appliance Administrator Guide* for more information.

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

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

Figure 18: NFS Configuration

Configuration - Op	erations - Stat	us • S	upport -			N
Configuration > Network License > NFS > Clustering	; NFS	;				
> Email > Notifications	NFS Con	figuration				
Date and Time Syslog	✓ Host	•				
Other > Review and Install	Path					
Start Installation	Opts	æ				
	Status	Q	Disabled	•		
					Next	>

Step 2 Enter the following information:

- 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.
- Opts NFS mount options to be used, if this server requires any deviations from standard Linux defaults for NFSv4.
- Status Choose Enabled from the drop-down list (Pending Key).

Step 3 Click Next. The page refreshes and a FS Encryption Password Key ID is displayed.

The first time you configure this page, options to **Remove** or **Download** the encryption key become visible. The **Upload** option is available if you have NFS enabled but do not have a key created. Once you create a key, the **Upload** button changes to **Download**. (If you delete the key, the **Download** button becomes **Upload** again.)

- **Note** If the key correctly matches the one used to create a backup, the **Key ID** displayed in OpAdmin after upload will match the name of a directory in the configured path. Backups cannot be restored without the encryption key.
- **Step 4** Click **Next** to continue.

What to do next

Proceed to Configure Email Host.

Configure Email Host

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

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

Figure 19: Email Configuration

Configuration Network Vestwork Network Clearing Detaining Date and Time Systeig Preview and Install Detaining Start Installation Distaining Start Installation	#	Configuration - Operatio	ons - Status - Support	*						100	
> Email > Notifications > Date and Time > Systog Other > Review and Install > Start Installation Start Installation Other > Review and Install > Start Installation Other > Review and Install > Start Installation Other > Review and Install > Start Installation Other > Start Installation O HELP O HELP O HELP O HELP O Detect from Port O Authentication O HELP		> Network > License	Email								
> Systog Upstream Hote Upstream Helay Image: Control of the control of		> Email	SMTP Configuration								
> Review and install OFFICE INTEGRATION OFFICE INTEGRATION STID_ACTRE.test : 567 > Start Installation SSL OHELP Detect from Port + Upstream Authentication OHELP Image: Comparison of the c			Delivery Mode	0 HELP	-	Upstream Relay	\$				
Start Installation Upstream Authentication OHELP No Authentication From Address OHELP			Upstream Host	0 HELP	0	smtp.acme.test		5	87		
From Address		Start Installation	SSL	@ HELP	•	Detect from Port	•				
			Upstream Authentication	0 HELP	•	No Authentication	•				
Next			From Address	0 HELP							
									No	xt >	

- **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 **Next** to continue.

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 Configuration

6				
O HELP	۵	admin@acme.test		
O HELP	0	Every 5 Minutes	\$	
O HELP	0	Every 5 Minutes	\$	
			Ne	axt >
	O HELP O HELP O HELP	O HELP	HELP admin@acme.test O HELP O Every 5 Minutes	O HELP admin@acme.test O HELP O Every 5 Minutes O HELP O Every 5 Minutes

- **Step 2** In the **Notification Recipients** field, enter one or more email addresses separated by commas.
- **Step 3** Choose the **Critical Notification Frequency** and the **Notification Frequency** from the drop-down lists.
- Step 4 Click Next to continue.

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

If there are multiple NTP servers, separate them with a space or comma.

- Step 3 Ignore the Current System Time and Synchronize with Browser fields.
- Step 4 Click Next to continue.

What to do next

Proceed to Configure Syslog.

Configure Syslog

The Syslog page is used to configure a Syslog server to receive syslog messages and Thread Grid notifications.

Step 1 Click **Syslog** in the navigation pane.

Step 2Complete the information on page and click Next to continue.See the Cisco Threat Grid Appliance Administrator 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 installation may take over 10 minutes to complete. The screen displays configuration information as it is applied.

Figure 21: Appliance Is Installing

Apps 😭 ThreatGRID				Cther Bookmarks
	The appliance is	installing		
	[missing "en-TG.js.job.running_	.HTML" translation]		
Please wa	ait for this page to redirect you. Refreshing manually might cause	e problems. Installation time is typic	cally under 20 minutes.	
II State		# Finished	O Duration	
II State	Started Tue Dec 16 2014 03:39:30 GMT-0700 (MST) 0 day, 7 hours, 1 minute, 56 seconds ago	Finished O Please wait	O Duration O Please wait	
	Tue Dec 16 2014 03:39:30 GMT-0700 (MST)	O Please wait		

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

Figure 22: Successful Appliance Installation

← → C	fi 🖹 https:	//100.67.2.100/setup/details			☆ =			
Apps 😭	ThreatGRID				Cther Bookmark			
			ance is installing.					
	Please wait for this page to redirect you. Refreshing manually might cause problems. Installation time is typically under 20 minutes.							
	## State		Finished	O Duration				
	✓ Successful	Tue Dec 16 2014 03:39:30 GMT-0700 (MST) 0 day, 7 hours, 3 minutes, 34 seconds ago	Tue Dec 16 2014 03:40:45 GMT-0700 (MST) 0 day, 7 hours, 2 minutes, 19 seconds ago	0 day, 0 hour, 1 minute, 14 seconds	5			
		Your appliance w	ill need to be rebooted after this operation.					
	■ Output	Error						
	ok: [local TASK: [rel changed:] TASK: [fla	le path=/etc/issue.d/10-error state=abso host] puild /etc/issue] [localhost] g install completion for opadmin] ***** [localhost]						

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 23: Appliance Is Rebooting

Θ Θ Θ / ThreatCRID Appliance Adm x	x ²
← → C fi	☆ =
III Apps n threatGRID	Other Bookmarks
The appliance is rebooting	
Waiting for the server to respond.	
Please wait for this page to redirect you as refreshing manually might cause problems. Reboot time is typically under 5 minutes. If th page does not redirect make sure the IP address of your appliance did not change, and check your appliance console for problems	

After reboot, a message is displayed on the Home page indicating that the Threat Grid Appliance is configured.

Figure 24: Appliance Successfully Configured

0 0 ThreatGRID Appliance Adm x				x ²
← → C fi (k https://100.67.2.100				☆ ≡
III Apps 🔹 ThreatGRID				Cther Bookmarks
	Support Cogout	? Help		
Configuration • Operations • Status • Support •			14	•
Home Your ThreatGRID appliance is configured.				-
For assistance in changing the configuration or operating the portal, refer to the resources below.				
Documentation				
Support				

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 OpAdmin portal.

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

Step 1 If you are not already in the OpAdmin portal, log in to the portal.

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

Figure 25: Appliance Build Number

Threat GRID App	liance Admir	nistration Po	rtal
Configuration - Operat	ions 👻 🖇	Status 🔻	Support -
Your appliance can be u have an up-to-date back	and the second		
appliance is current 2014.10.20150203155			
Check/Download Updates	-		
Run Update	This app	pliance has n	never been updated.

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

Step 3 Click Check/Download 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 **Run Update** to install them.

Test 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 1Sign in to the Threat Grid Portal using the address you configured as the Clean interface.The Threat Grid login page opens.

L

Figure 26: Threat Grid Portal Login

Welcome, ple	ase sign in.
Login	
Password	
Login	
Forgot your passwor	rd?

Step 2 Enter the default credentials:

- Login admin
- **Password** Use the new password entered during the first step of the OpAdmin configuation workflow. We encourage you to change it for the portal when you have a chance.
- Step 3 Click Login to open the main Threat Grid Sample Analysis page.
- **Step 4** In the **Submit a Sample** box located in the upper-right corner, select a sample file or enter a URL to submit for malware analysis.

Step 5 Click Upload Sample.

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 **Submissions** section. Once analysis is completed, the results should be available in the **Samples** section, with details in the Analysis Report.

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 Administrator Guide* for information about administrator tasks.