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User Documentation

Threat Grid Appliance user documentation is available on the Threat Grid Appliance Install and Upgrade Guides page on the Cisco website.

The 2.1 Upgrade

You must be at version 2.0.4 before you can upgrade to version 2.1.

The 2.0.4 Upgrade

You must be at version 1.4.6 or newer before you can complete the 2.0.4 update.

The 2.0 Upgrade

First, complete the 1.4.6 upgrade, which is the immediate step before 2.0.

After the 1.4.6 upgrade is complete, and before continuing on to the 2.0 upgrade, check the notices in the Threat Grid Portal to verify whether or not the following error has occurred:

Figure 1 Database Upgrade Not Successful Notice

A "Database Upgrade - Not Successful" message means that a new appliance is running an older version of PostgreSQL than it's supposed to, and the automatic database migration process has failed.

If you do not see the error notice, then you may proceed with the 2.0 upgrade.
Time Required for 2.0 Upgrade
Please note that the 2.0 upgrade can take some time - up to several hours - with a large ElasticSearch database.

DO NOT interrupt the upgrade before it is completed, as doing so may require support remediation. The best method for checking on the status of an ongoing upgrade is via console access.

Upgrading from a Release Prior to 1.4
If upgrading from a release prior to 1.4, be sure to read the section in the release notes for Version 1.4, below.

The 1.0+hotfix2 Update is Mandatory
The 1.0+hotfix2 is a mandatory update that fixes the update system itself to be able to handle large files without breaking.

Installing Updates
Before you can update the Threat Grid Appliance with newer versions, you must have completed the initial setup and configuration steps as described in the AMP Threat Grid Appliance Setup and Configuration Guide, which are available on the AMP Threat Grid Appliance product documentation page.

New Appliances: If you have a new Appliance that shipped with an older version and wish to install updates, you must complete the initial configuration first. Do Not apply the updates until all Appliance configuration is done.

Appliance updates will not download unless the license is installed, and may not apply correctly if the Appliance has not been fully configured, including the database.

Threat Grid Appliance updates are applied through the OpAdmin Portal.

Updates are one-directional: you cannot revert to a previous version after you upgrade to a more recent version.

To test the update, submit a sample for analysis.
## Build Number/Release Version Lookup Table

<table>
<thead>
<tr>
<th>Build Number</th>
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<th>Release Date</th>
<th>Notes</th>
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<tbody>
<tr>
<td>2016.05.20160905202824.1f7792890.rel</td>
<td>2.1.4</td>
<td>9/5/2016</td>
<td>Primarily of interest to Manufacturing</td>
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<td>2.1.3</td>
<td>8/11/2016</td>
<td>Offline update support key, M4 wipe support</td>
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<tr>
<td>2016.05.201607151655510.baed88a3.rel</td>
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<td>6/21/2016</td>
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<td>3/15/2016</td>
<td>Introduces AMP integration, CA mgmt., and split DNS</td>
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<tr>
<td>2014.10.20141125162160+hotfix2.8afc5e2f</td>
<td>v1.0+hotfix2</td>
<td></td>
<td><strong>NOTE:</strong> The 1.0+hotfix2 is a mandatory update that fixes the update system itself to be able to handle large files without breaking.</td>
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<td>2014.10.20141125162158.8afc5e2f</td>
<td>v1.0</td>
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Version 2.1.4

Released 9/5/2016

This release resolves numerous issues related to hardware support, particularly those issues that are prerequisites to providing support for software updates to air-gapped appliances.

New Features

Monitoring and reporting is now available for scenarios where the ElasticSearch service is under excessive load.

Bug Fixes

Support for automatically restarting failed services is extended (after a delay) to services which have failed with enough frequency to be temporarily disabled.

A scenario where some internal services could fail to start due to a delay in redis initialization has been addressed.

Storage device name or ID changes no longer prevent the system from booting successfully.

System wipe is now fully supported on TG-5004-K9 and TG-5504-K9 hardware.

Known Issues

Disk I/O throughput graphs contain only reads and writes to the operating system’s dedicated filesystem, rather than to customer-owned data. This frequently means that no I/O is shown at all, as the system is built to minimize interaction with the root filesystem after startup is complete.
Version 2.1.3

Released 8/11/2016

This release resolves numerous issues related to hardware support, particularly those issues that are prerequisites to providing support for software updates to airgapped appliances.

New Features

Monitoring and reporting is now available for scenarios where the ElasticSearch service is under excessive load.

Bug Fixes

- Support for automatically restarting failed services is extended (after a delay) to services which have failed with enough frequency to be temporarily disabled.
- A scenario where some internal services could fail to start due to a delay in redis initialization has been addressed.
- Storage device name or ID changes no longer prevent the system from booting successfully.
- System wipe is now fully supported on TG-5004-K9 and TG-5504-K9 hardware.

Known Issues

Disk I/O throughput graphs contain only reads and writes to the operating system’s dedicated filesystem, rather than to customer-owned data. This frequently means that no I/O is shown at all, as the system is built to minimize interaction with the root filesystem after startup is complete.
Version 2.1.2

Released 7/15/2016

This is a minor bugfix release.

Bug Fixes

- An unclean shutdown can no longer leave the system in a state where the redis key/value store blocks service startup.
- A regression in qemu connectivity to tg-tunnel (for customers using this off-by-default feature) has been resolved.
- Modifying a system to no longer use tg-tunnel is now an automated process.

Known Issues

- Wipe support is known to be broken on TG-5004-K9 and TG-5504-K9 hardware with some specific BIOS releases. This is expected to be resolved prior to this hardware’s release.
- Disk I/O throughput graphs contain only reads and writes to the operating system’s dedicated filesystem, rather than to customer-owned data. This frequently means that no I/O is shown at all, as the system is built to minimize interaction with the root filesystem after startup is complete.
Version 2.1.1

Released 7/6/2016

This release addresses some issues in separate clean-network DNS support, resolves an important security bug, and provides various minor fixes and improvements.

New Features

• SMART warnings regarding potential hard drive failures can be silenced by the user by modifying their visibility setting, which will prevent any further notices of the same error until and unless the nature or status of the error changes.

Bug Fixes

• Separate clean-network DNS now functions correctly.
• A spurious warning during post-reconfiguration backup is avoided.

Security Fixes

• CVE-2016-1443 is addressed.
• SSH is no longer enabled by default in recovery mode.

Known Issues

• Wipe support is known to be broken on TG-5004-K9 and TG-5504-K9 hardware with some specific BIOS releases. This is expected to be resolved prior to this hardware’s release.
• Disk I/O throughput graphs contain only reads and writes to the operating system’s dedicated filesystem, rather than to customer-owned data. This frequently means that no I/O is shown at all, as the system is built to minimize interaction with the root filesystem after startup is complete.
Version 2.1

Released 6/21/2016

**Important Note:** The starting point for this update is v2.0.4.

This release fully supports upcoming hardware revisions, incorporates numerous security enhancements, and moves to a contemporary release of the Threat Grid Portal product.

**New Features**

- File types js, dot, dotx, and dotm can now be submitted as malicious to FireAMP Private Cloud via the Disposition Update Service.
- Secure Boot is fully supported when running on the upcoming TG-5004-K9 and TG-5504-K9 hardware.
- On all hardware, module loading and kexec are disabled at runtime to reduce exposure to kernel-based rootkits, and signatures of the operating system kernel and initrd are validated by the bootloader before invocation.
- Service notices related to hard drive SMART warnings can be hidden in such a way that they can only be automatically re-opened if their contents change.
- Database transactions that are left open for excessive periods of time are detected and reported as service notices, which supports remediation before the scenario has become so severe as to require extended downtime to repair.

**Bug Fixes**

- Glovebox reliability is greatly improved.
- Network reliability is improved in recovery mode in scenarios where a network interface requires an extended amount of time to become ready.
- Service notices related to hardware errors from IPMI could incorrectly claim that the number of warnings active was 0.
- NTP failures no longer cause service notices to be raised before system configuration has been completed.
- Failures due to expected services not being active cannot be logged until at least 10 minutes after boot, allowing time for services to initialize properly.

**Security Fixes**

- The underlying virtualization technology is updated to address a potential buffer overflow in the VGA driver.

**Known Issues**

- Wipe support is known to be broken on TG-5004-K9 and TG-5504-K9 hardware with some specific BIOS releases. This is expected to be resolved prior to this hardware's release.
- Disk I/O throughput graphs contain only reads and writes to the operating system's dedicated filesystem, rather than to customer-owned data. This frequently means that...
no I/O is shown at all, as the system is built to minimize interaction with the root filesystem after startup is complete.
Version 2.0.4

Released 5/1/2016

Important Note: The starting point for this update is v1.4.6.

This release includes numerous reliability improvements and bugfixes.

Note that boot times may be slower, particularly for appliances with a large amount of data; however, this increase in boot time resolves several failures which could happen shortly after boot.

New Features

- SMTP connections made for email alerting now can take advantage of locally configured certificate authorities.
- Disposition Update Service integration has been improved, and is fully compatible with FireAMP Private Cloud release 2.2.0.

Bug Fixes

- The appliance now updates the disposition indexes so they match their intended state. This fixes several customer-impacting bugs, which could be caused by an inconsistent or out-of-date index state.
- The appliance waits for the ElasticSearch cluster to be fully available before starting dependent services.
- The amount of memory allocated for ElasticSearch, and thus the maximum possible amount of data which can be indexed in ElasticSearch without error, has been increased.
- Temporary bootloader configuration overrides, such as those put in place during the upgrade from 1.x to 2.x, are cleared. In consequence, a scenario which could cause an appliance previously upgraded from a 1.x release to present an upgrade-mode menu when recovery mode is in use has been resolved.
- A bug which could cause email alerting to fail has been resolved.
Version 2.0.3

Released 3/15/2016

This point release introduces a number of features to support FireAMP Private Cloud device integrations. These include the ability to split DNS between the Clean and Dirty interfaces, CA Management, and FireAMP Integration Configuration.

Generated SSL certificates now have the CN duplicated as a subjectAltName. This addresses an incompatibility with SSL clients which ignore the CN field when at least one subjectAltName is present. It may be necessary to regenerate any previously appliance-generated certificates if using such tools.
Version 2.0.2

Released 2/18/2016

This bugfix-only release addresses an urgent security issue.

Security Updates

The GNU C library is patched to address CVE-2015-7547 and CVE-2015-1781.
Version 2.0.1

Released 2/12/2016

This bugfix-only release corrects some issues present in 2.0.

Bug Fixes

Calls to check a device's quota are no longer counted against that quota.

An issue that could occasionally cause an appliance to hang at boot time has been solved.

Known Issues

Disk I/O throughput graphs contain only reads and writes to the operating system's dedicated filesystem, rather than to customer-owned data. This frequently means that no I/O is shown at all, as the system is built to minimize interaction with the root filesystem after startup is complete.
Version 2.0

Released 2/11/2016

Important Note: Force update to 2.0.1 from here.

This is a major release, built upon an updated operating system. It includes enhancements that will support future hardware releases, and is able to use the same software as the Threat Grid Cloud Portal product.

Please note that the 2.0 upgrade can take some time, up to several hours, with a large ElasticSearch database.

DO NOT interrupt the upgrade before it is completed, as doing so may require support remediation. The best method for checking on the status of an ongoing upgrade is via console access.

The following Threat Grid Appliance-specific updates are also included:

New Features

• Windows 7 64-bit VMs are now supported.
• Traces that are initiated by customer support are now automatically rotated and deleted, so they can be run for longer periods of time without the risk of exhausting available space.
• Internal configuration backups are more exhaustive, allowing an appliance to be recovered without major data loss even should both SSDs fail.

Bug Fixes

• Unauthenticated SMTP works correctly even with mail servers that advertise authentication with an empty method list (particularly, Microsoft Exchange).
• Service notices regarding failures during the nightly updates download are now delivered properly.

Security Fixes

• Application-level notices regarding account creation or CSA device (i.e., ESA/WSA/etc.) registration are sent to the first email address that has been configured for notice alerts. If no address is configured, the notices will not be sent. (Previous release versions sent these notices to admin@test.threatgrid.com, which could potentially result in data leakage.)
• OpenSSL is updated to version 1.0.2f.

Known Issues

Disk I/O throughput graphs contain only reads and writes to the operating system's dedicated filesystem, rather than to customer-owned data. This frequently means that no I/O is shown at all, as the system is built to minimize interaction with the root filesystem after startup is complete.

Future releases may modify the way I/O usage is determined to work around this issue.
Version 1.4.6

Released 1/27/2016

Release 1.4.6 installs tools used during the upgrade to 2.0.

New Features

Appliances at release 1.4.6 are eligible for upgrade to the 2.0 release.
Version 1.4.5

11/25/2015

The Wipe Appliance feature is now functional on demo appliances that were shipped with 1.4.4. For more information, please see the "Wipe Appliance" section in the Threat Grid Appliance Administrator's Guide.
Version 1.4.4

This release fixes a critical issue impacting license validation, and addresses a bug which was preventing errors in the nightly update check from being presented to the user.

IMPORTANT: If upgrading from a release prior to 1.4, be sure to read the release notes for version 1.4, below.

Bug Fixes

- License validation no longer attempts to rebuild an internal read-only database (which could result in licenses being falsely rejected as invalid).
- Errors in the nightly update check are now correctly displayed to the user.
Version 1.4.3

This release includes minor security updates for the underlying virtualization infrastructure, and adds a user-accessible mechanism to wipe an appliance's disks (for decommissioning or return of borrowed hardware to the Cisco Demo Loan Program).

New Features

- **Wipe:** A new boot menu option is available that will allow you to wipe the disks on a Threat Grid Appliance. Note that after performing this operation, the appliance will no longer operate without being returned to Cisco for reimaging.

Security Updates

- A potential denial-of-service using crafted Ethernet packets to cause running samples to hang is no longer possible.

Known Issues

- In rare circumstances, VM analysis on Windows XP has been known to fail. Video for the sample analysis will show a black screen when this occurs. This failure is independent of the individual sample; if this occurs, resubmitting the sample (or switching to Windows 7) is suggested.
Version 1.4.2

This release updates the underlying virtualization technology used in the product, and bundles several small but important bug-fixes.

IMPORTANT: If upgrading from a release prior to 1.4, be sure to read the release notes for version 1.4, below.

Bug Fixes

- Flash (SWF) documents are now correctly activated.
- Support for interacting with live sample analysis runs in the "Glovebox" tool is now compatible with new security defaults in Firefox 40.
- The "Regenerate" button generates SSL certificates acceptable to some software and tools which previously rejected them.
- Windows 7 virtual machines are no longer prone to hanging during execution.

Known Issues

- In rare circumstances, VM analysis on Windows XP has been known to fail. Video for the sample analysis will show a black screen when this occurs. This failure is independent of the individual sample; if this occurs, resubmitting the sample (or switching to Windows 7) is suggested.
Version 1.4.1

This release updates the Windows 7 image incorporated in the product, suppressing the Microsoft Office activation dialog.

IMPORTANT: If upgrading from a release prior to 1.4, be sure to read the release notes for version 1.4, below.

Bug Fixes

- When analyzing Microsoft Office documents using Windows 7, the Microsoft Office activation dialog is no longer displayed.
- Use of customer support tools for analysis of system behavior early in the boot process no longer results in a service notice when these tools are no longer active.
Version 1.4

This release is focused on storage-format changes that are necessary to prepare for upgrade to the upcoming 2.0 release.

IMPORTANT:

For appliances that were initially shipped with 1.0-series software, with a large amount of database content, this upgrade may require a longer-than-usual maintenance window to apply.

For appliances that initially shipped with a software release prior to 1.2, which have been in use for several months, we suggest that you allow 90 minutes for the upgrade to be applied.

For appliances that had sample data transferred from a pre-1.0 (non-Cisco-branded) device, the upgrade process may take even longer; please contact customer support with any questions.

New Features

- Upgrades database storage on all appliances to use a build of PostgreSQL 9.4 compatible with standard upstream database releases.

- Re-added APPLY button to tgsh-dialog, with a new function: Completes self-configuration and update tasks in the same manner as performed after a system update. May be used to repair a system that has been left in an inconsistent state after an aborted update attempt.

- Added a mechanism by which customer support may select the default virtual machine used for jobs triggered by other Cisco devices.

Bug Fixes

- Updates with new virtual machine images are no longer prone to failure if system write performance is degraded.

- Update jobs that are invoked from the console are no longer prone to being incorrectly described as failed in Opadmin.

- Service notices are no longer created during the upgrade process.

- Incorrect filename extensions that were being generated for some Microsoft Office document types have been fixed.
Version 1.3

This release adds a significant number of appliance-specific features, including: remote syslog support; email alerting of system-level issues; and availability of performance graphs. This release moves to a slightly newer version of the ThreatGRID service implementing support for integration with Cisco FireSIGHT Management Center products. The release also incorporates appliance-specific bug fixes.

Note that remote syslogs -- if configured -- use the clean interface for outbound traffic. Please see the updated administrative documentation for 1.3 for more information.

New Features

- Emailed notices can be configured to trigger on system monitoring events.
- Button added to the SSL configuration page of the administrative interface generate new self-signed SSL certificates.
- Graphs for CPU, I/O, and memory usage over time are available in the administrative interface.
- Network interface names at the operating system level now match their logical names ("clean", "dirty", "admin") as used in the documentation.
- Hotplugging network interfaces is supported; an interface need not be plugged in at boot time to be able to function later, and interfaces which require DHCP refresh on hotplug events will do so. (Interfaces requiring SFPs still must have those SFPs installed at boot).
- Failed services are automatically restarted.
- Failed services generate service notices in the application.
- Failed attempts at NTP synchronization generate service notices in the application.
- Excessive database checkpoint backlog causes a user-visible warning.
- Added a service notice for free space events.
- Added release note contents to service notices regarding upgrade availability.

Bug Fixes

- Netmasks with high bits beyond /24 are no longer truncated prematurely.

Security Updates

- Patches qemu to disable exploits via CD-ROM driver; see CVE-2015-5154.
- Opportunities for local privilege escalations via application debugging interfaces mitigated.
Other Notes

- EULA terms updated.
Version 1.2.1

This updates the ThreatGRID appliance to be based on software from a newer version of the cloud service. Key among features added is support for integration with other Cisco appliances -- including ESA and WSA appliances.

No appliance-specific code or infrastructure is modified in this release.

New Features

- Support for the Cisco Sandboxing API

Security Updates

- Patches qemu to disable floppy controller emulation, avoiding CVE-2015-3456
Version 1.2

This point release improves integration with other Cisco products, streamlines the software update process, and adds hardware monitoring support.

New Features

- Checks for software updates now happen automatically in the background on a nightly basis.
- Notice is now provided inside the Threat Grid application when a software update is available.

Bugs Fixed

- Software updates no longer time out on slow connections.
- Samples that are being processed at the time of a shutdown or a reboot are no longer lost or inserted as duplicates. After the 1.2 update is applied, sample processing delays shutdown until the process has reached an appropriate stopping point. Sample processing resumes once the appliance has booted back up. (Previously, sample processing could result in a much longer delay in system shutdown as well as the loss of samples.)
- "502 Bad Gateway" errors no longer occur while the appliance is booting up.
- NTP (Network Time Protocol) synchronization now occurs correctly.
- Generated SSL certificate serial numbers are now unique across all appliances. **NOTE:** This fix only impacts systems that were first installed with version 1.2 or newer.
- A storage misconfiguration that was causing appliances to run out of disk space after processing a relatively low number of samples has been fixed.
- Audit logs now correctly show the client IP address.
- Text on the SSH key configuration page correctly reflects that this configures keys for the threatgrid user, not root.
- Password reset links in generated emails are now correct.

Security Updates

- Session cookies for the administrative interface are no longer portable across Threat Grid appliances.
- OpenSSL is upgraded to incorporate upstream fixes.

Other Improvements

- On appliances that are first installed with version 1.2 or newer, the PostgreSQL database uses a storage format binary-compatible with upstream PostgreSQL and related projects such as EnterpriseDB.
Known Issues

- Before Windows 7 jobs can be run, the following user intervention is required:

  1. Log into the primary ThreatGRID application console on the clean (interface) as the admin user. 2. Click **Welcome Admin** in the top right-hand corner to access the drop-down menu. 3. Click **Manage Orgs**. 4. Click **Initial Organization**. 5. In the **Additional VMS** field, enter **win7**. 6. Click **Update**.

After this has been done, when submitting a sample, under **Advanced Options**, the user can select **win7**.

- Licensing parsing is sensitive to text file format. Licenses must be stored in UNIX text files -- with lines delimited by CR rather than CRLF.
Version 1.1 Hotfix 1

Hotfix 1 is identical to 1.1, but also fixes a bug that impacts update download reliability over slow connections.
Version 1.1

This point release adds several new features to the Threat Grid appliance (including Window 7 support), and fixes several bugs.

New Features

- Windows 7 support has been added.
- Email can be sent via mail servers connected on the appliance’s **Clean** network, rather than allowing only mail servers accessible via the **Dirty** (i.e., malware) interface to be used.
- Support snapshots can be submitted to Threat Grid Support directly from the appliance.
- Support snapshots can be viewed prior to submission to Threat Grid Support.
- Updates can be applied from the textual (curses) interface, as opposed to the web-based administrative interface (**OpAdmin**) only.
- The system password can be successfully modified from recovery mode.
- Fewer administrative changes require a reboot to become effective.
- Added more client-side Javascript validation for GUI configuration workflow.

Bugs Fixed

- Various issues with outbound email configuration have been resolved.
- Notices inside the administrative interface are displayed correctly.
- Status of long-running jobs in the configuration UI is now streamed with minimal latency.
- Fixed a case where the administrative interface could refuse to start.
- The configuration GUI did not always accurately reflect whether a reboot was needed for configuration changes to take effect. This has been fixed.
- Removed unsupported menu items from the tgsh-dialog (curses-based) administrative interface.

Security Updates

- Updated upstream packages with known vulnerabilities (ntpd, bash, openssl).
- Configuration backups are no longer stored world-readable.