



## Updates

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## Product Upgrades

This guide does not include information on how to upgrade the system software or firewall chassis. Instead, see the [Cisco Firepower Threat Defense Upgrade Guide for Firepower Management Center](#) for the version that the FMC is currently running.

## Content Updates

The system can obtain content updates from the internet. We recommend you schedule or enable automatic content updates whenever possible. Some updates are auto-enabled by the initial setup process or when you enable the related feature. After initial setup, we recommend you review all auto-updates and adjust them if necessary.

**Table 1: Content Updates**

| Component                    | Description                                                                                                                                                                                                                                                                                       | Details                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Vulnerability database (VDB) | The Cisco vulnerability database (VDB) is a database of known vulnerabilities to which hosts may be susceptible, as well as fingerprints for operating systems, clients, and applications. The system uses the VDB to help determine whether a particular host increases your risk of compromise. | <b>Schedule:</b> As a scheduled task.<br><b>Uninstall:</b> No.<br><b>See:</b> <a href="#">Update the Vulnerability Database (VDB)</a> , on page 3 |

| Component                      | Description                                                                                                                                                                                                                                                                                                  | Details                                                                                                                                                                                                 |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Geolocation database (GeoDB)   | The Cisco geolocation database (GeoDB) maps IP addresses to countries/continents.                                                                                                                                                                                                                            | <b>Schedule:</b> From its own update page<br><b>Uninstall:</b> No.<br><b>See:</b> <a href="#">Update the Geolocation Database (GeoDB), on page 5</a>                                                    |
| Intrusion rules (SRU/LSP)      | Intrusion rule updates provide new and updated intrusion rules and preprocessor rules, modified states for existing rules, and modified default intrusion policy settings.<br><br>Rule updates may also delete rules, provide new rule categories and default variables, and modify default variable values. | <b>Schedule:</b> From its own update page.<br><b>Uninstall:</b> No.<br><b>See:</b> <a href="#">Update Intrusion Rules, on page 6</a>                                                                    |
| Security Intelligence feeds    | Security Intelligence feeds are collections of IP addresses, domain names, and URLs that you can use to quickly filter traffic that matches an entry.                                                                                                                                                        | <b>Schedule:</b> From the object manager.<br><b>Uninstall:</b> No.<br><b>See:</b> <a href="#">Firepower Management Center Device Configuration Guide</a>                                                |
| URL categories and reputations | URL filtering allows you to control access to websites based on the URL's general classification (category) and risk level (reputation).                                                                                                                                                                     | <b>Schedule:</b> When you configure integrations/cloud services, or as a scheduled task.<br><b>Uninstall:</b> No.<br><b>See:</b> <a href="#">Firepower Management Center Device Configuration Guide</a> |

## Requirements and Prerequisites for Content Updates

### Model Support

Any

### Supported Domains

Global unless indicated otherwise.

### User Roles

Admin

# Guidelines and Limitations for Content Updates

## Release Notes

We recommend you read any release notes or advisory text that accompanies a content update. These provide critical and release-specific information, including compatibility, prerequisites, new capabilities, behavior changes, and warnings.

## Scheduled Updates

Review scheduled updates to be sure they occur when you intend. The system schedules tasks — including updates — in UTC. This means that when they occur locally depends on the date and your specific location. Also, because updates are scheduled in UTC, they do not adjust for Daylight Saving Time, summer time, or any such seasonal adjustments that you may observe in your location. If you are affected, scheduled updates occur one hour "later" in the summer than in the winter, according to local time.

## Update the Vulnerability Database (VDB)

The Cisco vulnerability database (VDB) is a database of known vulnerabilities to which hosts may be susceptible, as well as fingerprints for operating systems, clients, and applications. The system uses the VDB to help determine whether a particular host increases your risk of compromise.

Cisco issues periodic updates to the VDB. The time it takes to update the VDB and its associated mappings on the FMC depends on the number of hosts in your network map. As a rule of thumb, divide the number of hosts by 1000 to determine the approximate number of minutes to perform the update.

The initial setup on the FMC automatically downloads and installs the latest VDB from Cisco as a one-time operation. Optionally, schedule tasks to download and install VDB updates and deploy configurations. For more information, see [Vulnerability Database Update Automation](#).

For VDB 343+, all application detector information is available through [Cisco Secure Firewall Application Detectors](#). This site includes a searchable database of application detectors. The release notes provide information on changes for a particular VDB release.

For VDB 363+, the system installs a smaller VDB (also called *VDB lite*) on lower memory devices running Snort 2. This smaller VDB contains the same applications, but fewer detection patterns. Devices using the smaller VDB can miss some application identification versus devices using the full VDB.

## Schedule VDB Updates

If your FMC has internet access, we recommend you schedule regular VDB updates. See [Vulnerability Database Update Automation](#).

## Manually Update the VDB

Use this procedure to manually update the VDB.

**Caution**

Do not perform tasks related to mapped vulnerabilities while the VDB is updating. Even if the Message Center shows no progress for several minutes or indicates that the update has failed, do not restart the update. Instead, contact Cisco TAC.

In most cases, the first deploy after a VDB update restarts the Snort process, interrupting traffic inspection. The system warns you when this will happen (updated application detectors and operating system fingerprints require a restart; vulnerability information does not). Whether traffic drops or passes without further inspection during this interruption depends on how the targeted device handles traffic. For more information, see [Snort Restart Traffic Behavior](#).

**Before you begin**

If the FMC cannot access the internet, get the update yourself: <https://www.cisco.com/go/firepower-software>. Select or search for your model (or choose any model—you use the same VDB for all FMCs), then browse to the *Coverage and Content Updates* page.

**Procedure**

**Step 1** Choose **System** (⚙) > **Updates** > **Content Updates**.

**Step 2** Choose how you want to get the VDB onto the FMC.

- Direct download: Click the **Download Updates** button to immediately download the latest VDB, latest maintenance release, and the latest critical patches for your deployment.
- Manual upload: Click **Upload Update**, then **Choose File** and browse to the VDB. After you choose the file, click **Upload**.

**Step 3** Install the VDB.

- a) Click the **Install** icon next to the Vulnerability and Fingerprint Database update.
- b) Choose the FMC.
- c) Click **Install**.

Monitor update progress in the Message Center. After the update completes, the system uses the new vulnerability information. However, you must deploy before updated application detectors and operating system fingerprints can take effect.

**Step 4** Verify update success.

The VDB update page and **Help** (❓) > **About** both show the current version.

**What to do next**

Deploy configuration changes; see the [Firepower Management Center Device Configuration Guide](#).

# Update the Geolocation Database (GeoDB)

The geolocation database (GeoDB) is a database that you can leverage to view and filter traffic based on geographical location. We issue periodic updates to the GeoDB, and you must regularly update the GeoDB to have accurate geolocation information. As part of the initial configuration, the system schedules weekly GeoDB updates. We recommend you review this task and make changes if necessary, as described in [Schedule GeoDB Updates, on page 5](#).

A GeoDB update overrides any previous versions. The FMC automatically updates its managed devices, and unless the update adds new countries (this is rare) you do not need to redeploy. You can see your current version on **Help** (?) > **About**.



**Note** We no longer provide the geolocation IP package, which contained contextual data associated with routable IP addresses. This saves disk space and does not affect geolocation rules or traffic handling in any way. Any contextual data is now stale, and upgrading to most later versions deletes the IP package. Options to view contextual data have no effect, and are removed in later versions.

## Schedule GeoDB Updates

As part of the initial configuration, the system schedules weekly GeoDB updates. We recommend you review this task and make changes if necessary, as described in this procedure.

Note that the system does not automatically deploy after GeoDB updates because in most cases it is not necessary. However, after a scheduled GeoDB update adds a new country (this is rare), deploy as soon as you are able. This allows the new country to count as part of its continent. For example, if an update adds Country to Continent, rules that filter based on "Continent" do not match traffic through Country until you deploy.

### Before you begin

Make sure the FMC can access the internet.

### Procedure

- Step 1** Choose **System** (⚙) > **Updates** > **Geolocation Updates**.
- Step 2** Under **Recurring Geolocation Updates**, check **Enable Recurring Weekly Updates....**
- Step 3** Specify the **Update Start Time**.
- Step 4** Click **Save**.

## Manually Update the GeoDB

Use this procedure to perform an on-demand GeoDB update.

**Before you begin**

If the FMC cannot access the internet, get the update yourself: <https://www.cisco.com/go/firepower-software>. Select or search for your model (or choose any model—you use the same GeoDB for all FMCs), then browse to the *Coverage and Content Updates* page.

**Procedure**


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**Step 1** Choose **System** (⚙️) > **Updates** > **Geolocation Updates**.

**Step 2** Under **One-Time Geolocation Update**, choose how you want to update the GeoDB.

- Direct download: Choose **Download and install...**
- Manual upload: Choose **Upload and install...**, then click **Choose File** and browse to the package you downloaded earlier.

**Step 3** Click **Import**.

Monitor update progress in the Message Center.

**Step 4** Verify update success.

The GeoDB update page and **Help** (❓) > **About** both show the current version.

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**What to do next**

If the update adds a new country (this is rare), deploy now. Until you deploy, the new country does not count as part of its continent. For example, if an update adds Country to Continent, rules that filter based on "Continent" do not match traffic through Country until you deploy.

## Update Intrusion Rules

As new vulnerabilities become known, the Talos Intelligence Group releases intrusion rule updates. These updates affect intrusion rules, preprocessor rules, and the policies that use the rules. Intrusion rule updates are cumulative and we recommend you keep the system up to date. You cannot import an intrusion rule update that either matches or predates the version of the currently installed rules.

An intrusion rule update may provide the following:

- **New and modified rules and rule states**—Rule updates provide new and updated intrusion and preprocessor rules. For new rules, the rule state may be different in each system-provided intrusion policy. For example, a new rule may be enabled in the Security over Connectivity intrusion policy and disabled in the Connectivity over Security intrusion policy. Rule updates may also change the default state of existing rules, or delete existing rules entirely.
- **New rule categories**—Rule updates may include new rule categories, which are always added.
- **Modified preprocessor and advanced settings**—Rule updates may change the advanced settings in the system-provided intrusion policies and the preprocessor settings in system-provided network analysis

policies. They can also update default values for the advanced preprocessing and performance options in your access control policies.

- **New and modified variables**—Rule updates may modify default values for existing default variables, but do not override your changes. New variables are always added.

In a multidomain deployment, you can import local intrusion rules in any domain, but you can import intrusion rule updates from Talos in the Global domain only.

### Understanding When Intrusion Rule Updates Modify Policies

Intrusion rule updates can affect both system-provided and custom network analysis policies, as well as all access control policies:

- **System provided**—Changes to system-provided network analysis and intrusion policies, as well as any changes to advanced access control settings, automatically take effect when you re-deploy the policies after the update.
- **Custom**—Because every custom network analysis and intrusion policy uses a system-provided policy as its base, or as the eventual base in a policy chain, rule updates can affect custom network analysis and intrusion policies. However, you can prevent rule updates from automatically making those changes. This allows you to update system-provided base policies manually, on a schedule independent of rule update imports. Regardless of your choice (implemented on a per-custom-policy basis), updates to system-provided policies do not override any settings you customized.

Note that importing a rule update discards all cached changes to network analysis and intrusion policies. For your convenience, the Rule Updates page lists policies with cached changes and the users who made those changes.

### Deploying Intrusion Rule Updates

For changes made by an intrusion rule update to take effect, you must redeploy configurations. When importing a rule update, you can configure the system to automatically redeploy to affected devices. This approach is especially useful if you allow the intrusion rule update to modify system-provided base intrusion policies.



#### Caution

Although a rule update by itself does not restart the Snort process when you deploy, other changes you have made may. Restarting Snort briefly interrupts traffic flow and inspection on all devices, including those configured for high availability/scalability. Interface configurations determine whether traffic drops or passes without inspection during the interruption. When you deploy without restarting Snort, resource demands may result in a small number of packets dropping without inspection.

### Recurring Intrusion Rule Updates

As part of the initial configuration, the system schedules daily intrusion rule updates. We recommend you review this task and make changes if necessary, as described in [Schedule Intrusion Rule Updates, on page 8](#). You may want to change the frequency, or enable automatic deploy after rule imports. For high availability FMCs, you only need to import the update on the active unit.

### Importing Local Intrusion Rules

A local intrusion rule is a custom standard text rule that you import from a local machine as a plain text file with ASCII or UTF-8 encoding. You can create local rules using the instructions in the Snort users manual, which is available at <http://www.snort.org>.

In a multidomain deployment, you can import local intrusion rules in any domain. You can view local intrusion rules imported in the current domain and ancestor domains.

## Schedule Intrusion Rule Updates

As part of the initial configuration, the system schedules daily intrusion rule updates. We recommend you review this task and make changes if necessary, as described in this procedure.

### Before you begin

- Make sure your process for updating intrusion rules complies with your security policies.
- Consider the update's effect on traffic flow and inspection due to bandwidth constraints and Snort restarts. We recommend performing updates in a maintenance window.
- Make sure the FMC can access the internet.

### Procedure

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- |               |                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------|
| <b>Step 1</b> | Choose <b>System</b> (⚙) > <b>Updates</b> > <b>Rule Updates</b> .                                |
| <b>Step 2</b> | Under <b>Recurring Rule Update Imports</b> , check <b>Enable Recurring Rule Update Imports</b> . |
| <b>Step 3</b> | Specify the <b>Import Frequency</b> and start time.                                              |
| <b>Step 4</b> | (Optional) Check <b>Reapply all policies...</b> to deploy after each update.                     |
| <b>Step 5</b> | Click <b>Save</b> .                                                                              |
- 

## Manually Update Intrusion Rules

Use this procedure to perform an on-demand intrusion rule update.

### Before you begin

- Make sure your process for updating intrusion rules complies with your security policies.
- Consider the update's effect on traffic flow and inspection due to bandwidth constraints and Snort restarts. We recommend performing updates in a maintenance window.
- If the FMC cannot access the internet, get the update yourself: <https://www.cisco.com/go/firepower-software>. Select or search for your model (or choose any model—you use the same update for all FMCs), then browse to the *Coverage and Content Updates* page.



## Procedure

- 
- Step 1** Choose **System** (⚙️) > **Updates** > **Rule Updates**.
- Step 2** Under **One-Time Rule Update/Rules Import**, choose how you want to update intrusion rules.
- Direct download: Choose **Download new rule update...**
  - Manual upload: Choose **Rule update or text rule file...**, then click **Choose File** and browse to the intrusion rule update.
- Step 3** (Optional) Check **Reapply all policies...** to deploy after the update.
- Step 4** Click **Import**.
- Monitor update progress in the Message Center. Even if the Message Center shows no progress for several minutes or indicates that the update has failed, do not restart the update. Instead, contact Cisco TAC.
- Step 5** Verify update success.
- The rule update page and **Help** (❓) > **About** both show the current version.
- 

## What to do next

If you did not deploy as a part of the update, deploy now.

# Import Local Intrusion Rules

Use this procedure to import local intrusion rules. Imported intrusion rules appear in the local rule category in a disabled state. You can perform this task in any domain.

## Before you begin

- Make sure your local rule file follows the guidelines described in [Best Practices for Importing Local Intrusion Rules, on page 10](#).
- Make sure your process for importing local intrusion rules complies with your security policies.
- Consider the import's effect on traffic flow and inspection due to bandwidth constraints and Snort restarts. We recommend scheduling rule updates during maintenance windows.

## Procedure

- 
- Step 1** Choose **System** (⚙️) > **Updates** > **Rule Updates**.
- You can also click **Import Rules** in the intrusion rules editor (**Objects** > **Intrusion Rules**).
- Step 2** (Optional) Delete existing local rules.

Click **Delete All Local Rules**, then confirm that you want to move all created and imported intrusion rules to the deleted folder.

**Step 3** Under **One-Time Rule Update/Rules Import**, choose **Rule update or text rule file to upload and install**, then click **Choose File** and browse to your local rule file.

**Step 4** Click **Import**.

You can monitor import progress in the Message Center. Even if the Message Center shows no progress for several minutes or indicates that the update has failed, do not restart the import. Instead, contact Cisco TAC.

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### What to do next

- Edit intrusion policies and enable the rules you imported.
- Deploy configuration changes; see the [Firepower Management Center Device Configuration Guide](#).

## Best Practices for Importing Local Intrusion Rules

Observe the following guidelines when importing a local rule file:

- The rules importer requires that all custom rules are imported in a plain text file encoded in ASCII or UTF-8.
- The text file name can include alphanumeric characters, spaces, and no special characters other than underscore (\_), period (.), and dash (-).
- The system imports local rules preceded with a single pound character (#), but they are flagged as deleted.
- The system imports local rules preceded with a single pound character (#), and does not import local rules preceded with two pound characters (##).
- Rules cannot contain any escape characters.
- In a multidomain deployment, the system assigns a GID of 1 to a rule imported into or created in the Global domain, and a domain-specific GID between 1000 and 2000 for all other domains.
- You do not have to specify a Generator ID (GID) when importing a local rule. If you do, specify only GID 1 for a standard text rule.
- When importing a rule for the first time, do *not* specify a Snort ID (SID) or revision number. This avoids collisions with SIDs of other rules, including deleted rules. The system will automatically assign the rule the next available custom rule SID of 1000000 or greater, and a revision number of 1.

If you must import rules with SIDs, a SID can be any unique number 1,000,000 or greater.

In a multidomain deployment, if multiple administrators are importing local rules at the same time, SIDs within an individual domain might appear to be non-sequential because the system assigned the intervening numbers in the sequence to another domain.

- When importing an updated version of a local rule you have previously imported, or when reinstating a local rule you have deleted, you *must* include the SID assigned by the system and a revision number greater than the current revision number. You can determine the revision number for a current or deleted rule by editing the rule.



**Note** The system automatically increments the revision number when you delete a local rule; this is a device that allows you to reinstate local rules. All deleted local rules are moved from the local rule category to the deleted rule category.

- Import local rules on the primary FMC in a high availability pair to avoid SID numbering issues.
- The import fails if a rule contains any of the following:
  - A SID greater than 2147483647.
  - A list of source or destination ports that is longer than 64 characters.
  - When importing into the Global domain in a multidomain deployment, a GID:SID combination uses GID 1 and a SID that already exists in another domain; this indicates that the combination existed before Version 6.2.1. You can reimport the rule using GID 1 and a unique SID.
- Policy validation fails if you enable an imported local rule that uses the deprecated `threshold` keyword in combination with the intrusion event thresholding feature in an intrusion policy.
- All imported local rules are automatically saved in the local rule category.
- The system always sets local rules that you import to the disabled rule state. You must manually set the state of local rules before you can use them in your intrusion policy.

## View Intrusion Rule Update Logs

The system generates logs of rule updates/imports, listed by timestamp, user, and whether each update succeeded or failed. These logs contain detailed import information on all updated rules and components; see [Intrusion Rule Update Log Details, on page 11](#). Use this procedure to view rule import logs. Note that deleting an import log does not delete the imported objects. In a multidomain deployment, you can view data for the current domain and for any descendant domains. You cannot view data from higher level or sibling domains.

### Procedure

- Step 1** Choose **System** (⚙️) > **Updates** > **Rule Updates**.
- Step 2** Click **Rule Update Log**.
- Step 3** (Optional) View details for any rule update by clicking **View** (🔍) next to the log file.

## Intrusion Rule Update Log Details



**Tip** You search the entire Rule Update Import Log database even when you initiate a search by clicking **Search** on the toolbar from the Rule Update Import Log detailed view with only the records for a single import file displayed. Make sure you set your time constraints to include all objects you want to include in the search.

Table 2: Intrusion Rule Update Log Details

| Field          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action         | <p>An indication that one of the following has occurred for the object type:</p> <ul style="list-style-type: none"> <li>• <code>new</code> (for a rule, this is the first time the rule has been stored on this appliance)</li> <li>• <code>changed</code> (for a rule update component or rule, the rule update component has been modified, or the rule has a higher revision number and the same GID and SID)</li> <li>• <code>collision</code> (for a rule update component or rule, import was skipped because its revision conflicts with an existing component or rule on the appliance)</li> <li>• <code>deleted</code> (for rules, the rule has been deleted from the rule update)</li> <li>• <code>enabled</code> (for a rule update edit, a preprocessor, rule, or other feature has been enabled in a default policy provided with the system)</li> <li>• <code>disabled</code> (for rules, the rule has been disabled in a default policy provided with the system)</li> <li>• <code>drop</code> (for rules, the rule has been set to Drop and Generate Events in a default policy provided with the system)</li> <li>• <code>error</code> (for a rule update or local rule file, the import failed)</li> <li>• <code>apply</code> (the <b>Reapply all policies after the rule update import completes</b> option was enabled for the import)</li> </ul> |
| Default Action | The default action defined by the rule update. When the imported object type is <code>rule</code> , the default action is <code>Pass</code> , <code>Alert</code> , or <code>Drop</code> . For all other imported object types, there is no default action.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Details        | A string unique to the component or rule. For rules, the GID, SID, and previous revision number for a changed rule, displayed as <code>previously (GID:SID:Rev)</code> . This field is blank for a rule that has not changed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Domain         | The domain whose intrusion policies can use the updated rule. Intrusion policies in descendant domains can also use the rule. This field is only present in a multidomain deployment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| GID            | The generator ID for a rule. For example, 1 (standard text rule, Global domain or legacy GID) or 3 (shared object rule).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Name           | The name of the imported object, which for rules corresponds to the rule Message field, and for rule update components is the component name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Policy         | For imported rules, this field displays <code>All</code> . This means that the rule was imported successfully, and can be enabled in all appropriate default intrusion policies. For other types of imported objects, this field is blank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Rev            | The revision number for a rule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Rule Update    | The rule update file name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SID            | The SID for a rule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Time           | The time and date the import began.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Field | Description                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type  | The type of imported object, which can be one of the following: <ul style="list-style-type: none"><li>• <code>rule update component</code> (an imported component such as a rule pack or policy pack)</li><li>• <code>rule</code> (for rules, a new or updated rule)</li><li>• <code>policy apply</code> (the <b>Reapply all policies after the rule update import completes</b> option was enabled for the import)</li></ul> |
| Count | The count (1) for each record. The Count field appears in a table view when the table is constrained, and the Rule Update Log detailed view is constrained by default to rule update records. This field is not searchable.                                                                                                                                                                                                   |

## Maintain Your Air-Gapped Deployment

If your FMC is not connected to the internet, essential updates will not occur automatically. You must manually obtain and install these updates.

For more information, see:

- [Manually Update the VDB, on page 3](#)
- [Manually Update Intrusion Rules, on page 8](#)
- [Manually Update the GeoDB, on page 5](#)

## History for Content Updates

*Table 3: History for Content Updates*

| Feature                                                | Minimum Management Center | Minimum Threat Defense | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|---------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Custom intrusion rule import warns when rules collide. | 6.7.0                     | Any                    | <p>The FMC now warns you of rule collisions when you import custom (local) intrusion rules. Previously, the system would silently skip the rules that cause collisions—with the exception of Version 6.6.0.1, where a rule import with collisions would fail entirely.</p> <p>On the Rule Updates page, if a rule import had collisions, a warning icon is displayed in the Status column. For more information, hover your pointer over the warning icon and read the tooltip.</p> <p>Note that a collision occurs when you try to import an intrusion rule that has the same SID/revision number as an existing rule. You should always make sure that updated versions of custom rules have new revision numbers.</p> <p>New/modified screens: We added a warning icon to <b>System</b>(⚙️) &gt; <b>Updates</b> &gt; <b>Rule Updates</b>.</p> |

| Feature                                         | Minimum Management Center | Minimum Threat Defense | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------|---------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Automatic VDB update during initial setup.      | 6.6.0                     | Any                    | <p>When you set up a new or reimaged FMC, the system automatically attempts to update the vulnerability database (VDB).</p> <p>This is a one-time operation. If the FMC has internet access, we recommend you schedule tasks to perform automatic recurring VDB update downloads and installations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Automatic software downloads and GeoDB updates. | 6.5.0                     | Any                    | <p>When you set up a new or reimaged FMC, the system automatically attempts to update the vulnerability database (VDB).</p> <p>This is a one-time operation. If the FMC has internet access, we recommend you schedule tasks to perform automatic recurring VDB update downloads and installations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Signed SRU, VDB, and GeoDB updates.             | 6.4.0                     | Any                    | <p>So the system can verify that you are using the correct update files, Version 6.4+ uses <i>signed</i> updates for intrusion rules (SRU), the vulnerability database (VDB), and the geolocation database (GeoDB). Earlier versions continue to use unsigned updates.</p> <p>Unless you manually download updates, for example, in an air-gapped deployment—you should not notice any difference in functionality. If, however, you do manually download and install SRU, VDB, and GeoDB updates, make sure you download the correct package for your current version.</p> <p>Signed update files begin with 'Cisco' instead of 'Sourcefire,' and terminate in .sh.REL.tar instead of .sh, as follows:</p> <ul style="list-style-type: none"> <li>• SRU: Cisco_Firepower_SRU-date-build-vrt.sh.REL.tar</li> <li>• VDB: Cisco_VDB_Fingerprint_Database-4.5.0-version.sh.REL.tar</li> <li>• GeoDB: Cisco_GEODB_Update-date-build.sh.REL.tar</li> </ul> <p>We will provide both signed and unsigned updates until the end-of-support for versions that require unsigned updates. Do not untar signed (.tar) packages. If you accidentally upload a signed update to an older FMC or ASA FirePOWER device, you must manually delete it. Leaving the package takes up disk space, and also may cause issues with future upgrades.</p> |
| FMC warns of Snort restart before VDB updates.  | 6.2.3                     | Any                    | <p>The FMC now warns you that vulnerability database (VDB) updates restart the Snort process. This interrupts traffic inspection and, depending on how the managed device handles traffic, possibly interrupts traffic flow. You can cancel the install until a more convenient time, such as during a maintenance window.</p> <p>These warnings can appear:</p> <ul style="list-style-type: none"> <li>• After you download and manually install a VDB.</li> <li>• When you create a scheduled task to install the VDB.</li> <li>• When the VDB installs in the background, such as during a previously scheduled task or as part of a software upgrade.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Feature</b>                  | <b>Minimum Management Center</b> | <b>Minimum Threat Defense</b> | <b>Details</b>                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Deprecated: Geolocation details | 6.2.3                            | Any                           | We no longer provide the geolocation IP package, which contained contextual data associated with routable IP addresses. This saves disk space and does not affect geolocation rules or traffic handling in any way. Any contextual data is now stale, and upgrading to most later versions deletes the IP package. Options to view contextual data have no effect, and are removed in later versions. |

