



Deploy TLS/SSL Rules With Examples 7.2

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CONTENTS

CHAPTER 1 TLS/SSL Rules Best Practices 1

TLS/SSL Rules Best Practices 1

Bypass Inspection with Prefilter and Flow Offload 2

Do Not Decrypt Best Practices 3

Decrypt - Resign and Decrypt - Known Key Best Practices 3

TLS/SSL Rules to Put First 4

TLS/SSL Rules to Put Last 4

CHAPTER 2 Recommended Policy and Rule Settings 5

Recommended Policy and Rule Settings 5

SSL Policy Settings 6

Access Control Policy Settings 7

CHAPTER 3 TLS/SSL Rule Examples 9

TLS/SSL Rule Examples 9

Traffic to Prefilter 9

First TLS/SSL Rule: Do Not Decrypt Specific Traffic 9

Next TLS/SSL Rules: Decrypt Specific Test Traffic 10

Do Not Decrypt Low-Risk Categories, Reputations, or Applications 11

Create a Decrypt - Resign Rule for Categories 13

Last TLS/SSL Rules: Block or Monitor Certificates and Protocol Versions 14

Example: TLS/SSL Rule to Monitor or Block Certificate Status 15

Example: TLS/SSL Rule to Monitor or Block Protocol Versions 17

Optional Example: TLS/SSL Rule to Monitor or Block Certificate Distinguished Name 19

TLS/SSL Rule Settings 20

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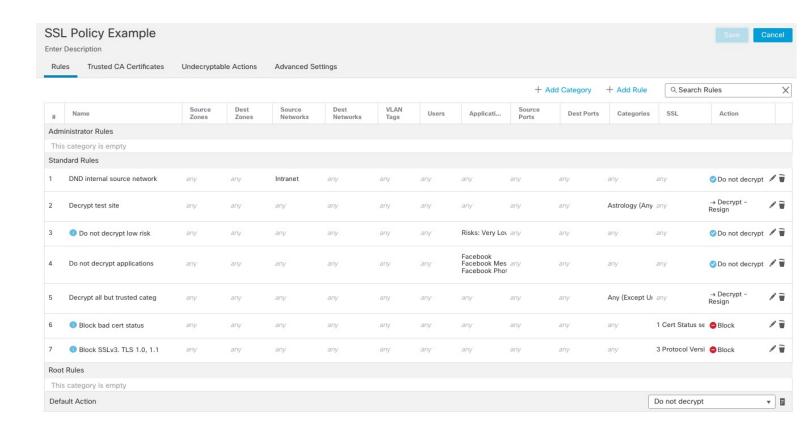
TLS/SSL Rules Best Practices

- TLS/SSL Rules Best Practices, on page 1
- Bypass Inspection with Prefilter and Flow Offload, on page 2
- Do Not Decrypt Best Practices, on page 3
- Decrypt Resign and Decrypt Known Key Best Practices, on page 3
- TLS/SSL Rules to Put First, on page 4
- TLS/SSL Rules to Put Last, on page 4

TLS/SSL Rules Best Practices

This chapter provides an example SSL policy with TLS/SSL rules that illustrates our best practices and recommendations. First we'll discuss settings for the SSL and access control policies and then walk through all the rules and why we recommend they be ordered in a particular way.

Following is the SSL policy we'll discuss in this chapter.



Bypass Inspection with Prefilter and Flow Offload

Prefiltering is the first phase of access control, before the system performs more resource-intensive evaluation. Prefiltering is simple, fast, and early. Prefiltering uses limited outer-header criteria to quickly handle traffic. Compare this to subsequent evaluation, which uses inner headers and has more robust inspection capabilities.

Configure prefiltering to:

- Improve performance— The sooner you exclude traffic that does not require inspection, the better. You can fastpath or block certain types of plaintext, passthrough tunnels based on their outer encapsulation headers, without inspecting their encapsulated connections. You can also fastpath or block any other connections that benefit from early handling.
- Tailor deep inspection to encapsulated traffic—You can rezone certain types of tunnels so that you can later handle their encapsulated connections using the same inspection criteria. Rezoning is necessary because after prefiltering, access control uses inner headers.

If you have a Firepower 4100/9300 available, you can use *large flow offload*, a technique where trusted traffic can bypass the inspection engine for better performance. You can use it, for example, in a data center to transfer server backups.

Do Not Decrypt Best Practices

Log traffic

We recommend *against* creating **Do Not Decrypt** rules that do not log anything because these rules still take processing time on the managed device. If you set up any type of TLS/SSL rules, *enable logging* so you can see what traffic is being matched.

Guidelines for undecryptable traffic

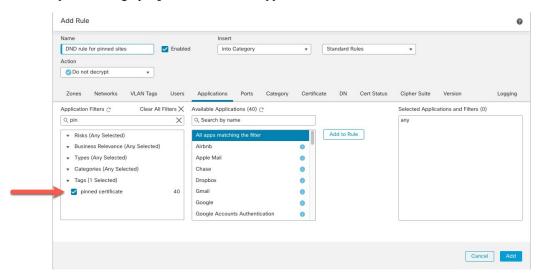
We can determine that certain traffic is not decryptable either because the website itself is not decryptable or because the website uses SSL pinning, which effectively prevents users from accessing a decrypted site without errors in their browser.

We maintain the list of these sites as follows:

- A Distinguised Name (DN) group named Cisco-Undecryptable-Sites
- The pinned certificate application filter

If you are decrypting traffic and you do not want users to see errors in their browsers when going to these sites, we recommend you set up a **Do Not Decrypt** rule toward the bottom of your TLS/SSL rules.

An example of setting up a **pinned certificate** application filter follows.



Decrypt - Resign and Decrypt - Known Key Best Practices

This topic discusses best practices for **Decrypt - Resign** and **Decrypt - Known Key** TLS/SSL rule.

Decrypt - Resign Best Practices With Certificate Pinning

Some applications use a technique referred to as *TLS/SSL pinning* or *certificate pinning*, which embeds the fingerprint of the original server certificate in the application itself. As a result, if you configured a TLS/SSL

rule with a **Decrypt - Resign** action, when the application receives a resigned certificate from a managed device, validation fails and the connection is aborted.

Because TLS/SSL pinning is used to avoid man-in-the-middle attacks, there is no way to prevent or work around it. You have the following options:

- Create a **Do Not Decrypt** for those applications rule ordered before **Decrypt Resign** rules.
- Instruct users to access the applications using a web browser.

For more information about certificate pinning, see the section on SSL pinning in the Cisco Secure Firewall Management Center Device Configuration Guide.

Decrypt - Known Key Best Practices

Because a **Decrypt - Known Key** rule action is intended to be used for traffic going to an internal server, you should always add a destination network to these rules (**Networks** rule condition). That way the traffic goes directly to the network on which the server is located, thereby reducing traffic on the network.

TLS/SSL Rules to Put First

Put first any rules that can be matched by the first part of the packet; an example is a rule that references IP addresses (**Networks** rule condition).

TLS/SSL Rules to Put Last

Rules with the following rule conditions should be last because those rules require traffic to be examined for the longest amont of time by the system:

- Applications
- · Category
- Certificate
- Distinguished Name (DN)
- Cert Status
- Cipher Suite
- Version



Recommended Policy and Rule Settings

- Recommended Policy and Rule Settings, on page 5
- SSL Policy Settings, on page 6
- Access Control Policy Settings, on page 7

Recommended Policy and Rule Settings

We recommend the following policy settings:

- SSL policy:
 - Default action Do Not Decrypt.
 - · Enable logging.
 - Set Undecryptable Actions to Block for both SSL v2 Session and Compressed Session.
 - Enable TLS 1.3 decryption in the policy's advanced settings.
- TLS/SSL rule: Enable logging for every rule except those with a **Do Not Decrypt** rule action. (It's up to you; if you want to see information about traffic that isn't decrypted, enable logging for those rules also.)
- Access control policy:
 - Associate your SSL policy with an access control policy. (If you fail to do this, your SSL policy and rules have no effect.)
 - Set the default policy action to Intrusion Prevention: Balanced Security and Connectivity.
 - · Enable logging.

Related Topics

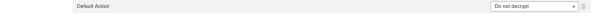
SSL Policy Settings, on page 6
TLS/SSL Rule Settings, on page 20
Access Control Policy Settings, on page 7

SSL Policy Settings

How to configure recommended the following best practice settings for your SSL policy:

- Default action Do Not Decrypt.
- Enable logging.
- Set Undecryptable Actions to Block for both SSL v2 Session and Compressed Session.
- Enable TLS 1.3 decryption in the policy's advanced settings.
- **Step 1** Log in to the Secure Firewall Management Center if you haven't already done so.
- Step 2 Click Policies > Access Control > SSL.
- **Step 3** Click **Edit** () next to your SSL policy.
- **Step 4** From the **Default Action** list at the bottom of the page, click **Do Not Decrypt**.

The following figure shows an example.

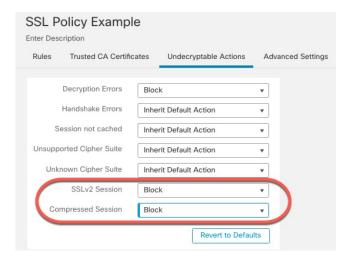


- **Step 5** At the end of the row, click **Logging** ().
- Step 6 Select the Log at End of Connection check box.
- Step 7 Click OK.
- Step 8 Click Save.
- **Step 9** Click the **Undecryptable Actions** tab.
- Step 10 We recommend setting the action for SSLv2 Session and Compressed Session to Block.

You shouldn't allow SSL v2 on your network and compressed TLS/SSL traffic is not supported so you should block that traffic as well.

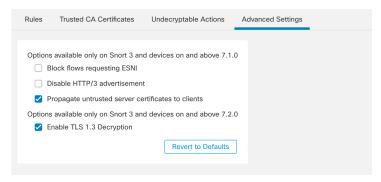
See the section on Default Handling Options for Undecryptable Traffic in the Cisco Secure Firewall Management Center Device Configuration Guide for more information about setting each option.

The following figure shows an example.



- **Step 11** Click the **Advanced Settings** tab page.
- Step 12 Select the Enable TLS 1.3 Decryption check box.

Following is an example.



Step 13 At the top of the page, click **Save**.

What to do next

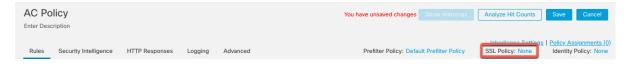
Configure TLS/SSL rules and set each one as discussed in TLS/SSL Rule Settings, on page 20.

Access Control Policy Settings

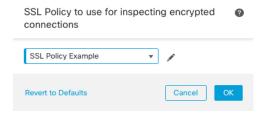
How to configure recommended the following best practice settings for your access control policy:

- Associate your SSL policy with an access control policy. (If you fail to do this, your SSL policy and rules have no effect.)
- Set the default policy action to Intrusion Prevention: Balanced Security and Connectivity.
- · Enable logging.

- **Step 1** Log in to the Secure Firewall Management Center if you haven't already done so.
- Step 2 Click Policies > Access Control.
- **Step 3** Click **Edit** (✓) next to your access control policy.
- **Step 4** (If your SSL policy isn't set up yet, you can do this later.)
 - a) Click the word **None** next to **SSL Policy** at the top of the page as the following figure shows.



b) From the list, click the name of your SSL policy. The following figure shows an example.



- c) Click OK.
- d) At the top of the page, click **Save**.
- **Step 5** From the **Default Action** list at the bottom of the page, click **Intrusion Prevention: Balanced Security and Connectivity**. The following figure shows an example.



- Step 6 Click Logging ().
- Step 7 Select the Log at End of Connection check box and click OK.
- Step 8 Click Save.

What to do next

See TLS/SSL Rule Examples, on page 9.

TLS/SSL Rule Examples

- TLS/SSL Rule Examples, on page 9
- Traffic to Prefilter, on page 9
- First TLS/SSL Rule: Do Not Decrypt Specific Traffic, on page 9
- Next TLS/SSL Rules: Decrypt Specific Test Traffic, on page 10
- Do Not Decrypt Low-Risk Categories, Reputations, or Applications, on page 11
- Create a Decrypt Resign Rule for Categories, on page 13
- Last TLS/SSL Rules: Block or Monitor Certificates and Protocol Versions, on page 14
- TLS/SSL Rule Settings, on page 20

TLS/SSL Rule Examples

This chapter provides an example of TLS/SSL rule that illustrate our best practices.

Traffic to Prefilter

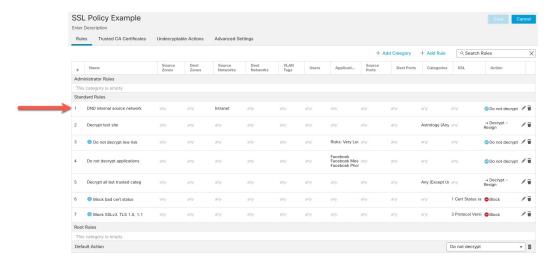
Prefiltering is the first phase of access control, before the system performs more resource-intensive evaluation. Prefiltering is simple, fast, and early compared to subsequent evaluation, which uses inner headers and has more robust inspection capabilities.

Based on your security needs and traffic profile, you should consider prefiltering and therefore excluding from any policy and inspection the following:

- Common intraoffice applications such as Microsoft Outlook 365
- Elephant flows, such as server backups

First TLS/SSL Rule: Do Not Decrypt Specific Traffic

The first TLS/SSL rule in the example does not decrypt traffic that goes to an internal network (defined as **intranet**). **Do Not Decrypt** rule actions are matched during ClientHello so they are processed very fast.

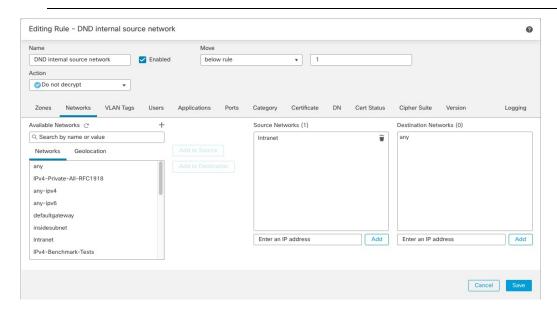




Note

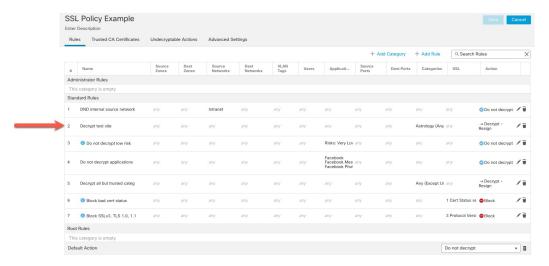
If you have traffic going from internal DNS servers to internal DNS resolvers (such as Cisco Umbrella Virtual Appliances), you can add **Do Not Decrypt** rules for them as well. You can even add those to prefiltering policies if the internal DNS servers do their own logging.

However, we strongly recommend you *do not* use **Do Not Decrypt** rules or prefiltering for DNS traffic that goes to the internet, such as internet root servers (for example, Microsoft internal DNS resolvers built into Active Directory). In those cases, you should fully inspect the traffic or even consider blocking it.

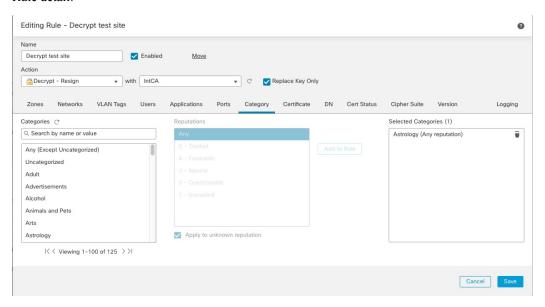


Next TLS/SSL Rules: Decrypt Specific Test Traffic

The next rule is *optional* in the example; use it to decrypt and monitor limited types of traffic before determining whether or not to allow it on your network.



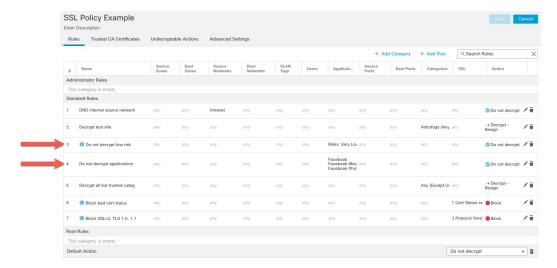
Rule detail:



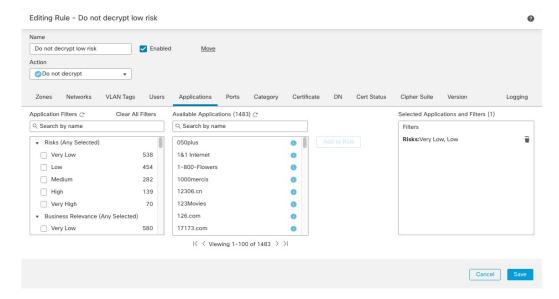
Do Not Decrypt Low-Risk Categories, Reputations, or Applications

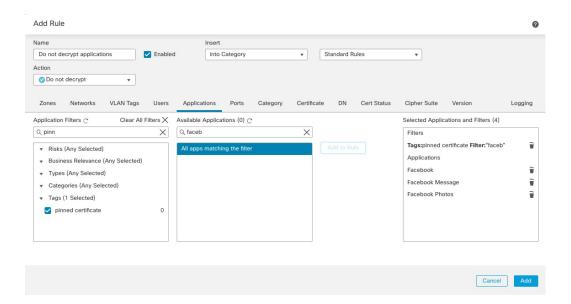
Evaluate the traffic on your network to determine which would match low-risk categories, reputations, or applications, and add those rules with a **Do Not Decrypt** action. Put these rules *after* other more specific **Do Not Decrypt** rules because the system needs more time to process the traffic.

Following is the example.



Rule details:





Create a Decrypt - Resign Rule for Categories

This topic shows an example of creating a TLS/SSL rule with a **Decrypt - Resign** action for all but uncategorized sites. The rule uses the optional **Replace Key Only** option, which we always recommend with a **Decrypt-Resign** rule action.

Replace Key Only causes the user to see a security warning in the web browser when they browse to a site that uses a self-signed certificate, making the user aware that they are communicating with an unsecure site.

By putting this rule near the bottom, you get the best of both worlds: you can decrypt and optionally inspect traffic while not affecting performance as much as if you had put the rule earlier in the policy.

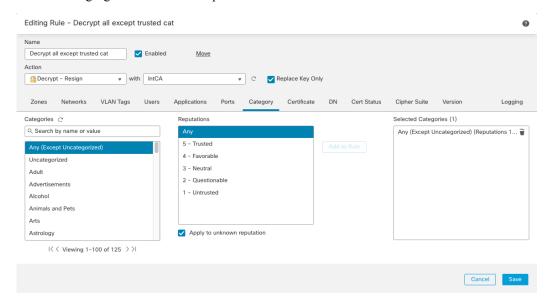
- **Step 1** Log in to the Secure Firewall Management Center if you haven't already done so.
- Step 2 If you haven't already done so, upload an internal certificate authority (CA) to the Secure Firewall Management Center (Objects > Object Management, then PKI > Internal CAs).
- Step 3 Click Policies > Access Control > SSL.
- **Step 4** Click **Edit** () next to your SSL policy.
- Step 5 Click Add Rule.
- **Step 6** In the Name field, enter a name to identify the rule.
- **Step 7** From the **Action** list, click **Decrypt Resign**.
- **Step 8** From the with list, click the name of your internal CA.
- **Step 9** Check the **Replace Key Only** box.

The following figure shows an example.



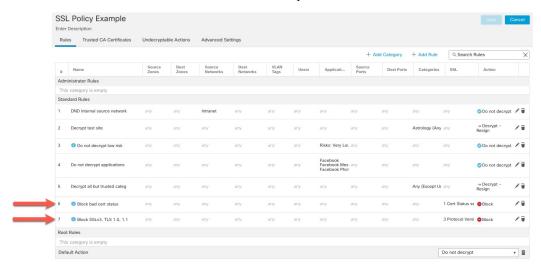
- **Step 10** Click the **Category** tab page.
- **Step 11** From the top of the Categories list, click Any (Except Uncategorized).
- **Step 12** From the **Reputations** list, click **Any**.
- Step 13 Click Add to Rule.

The following figure shows an example.

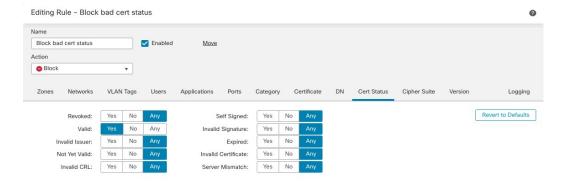


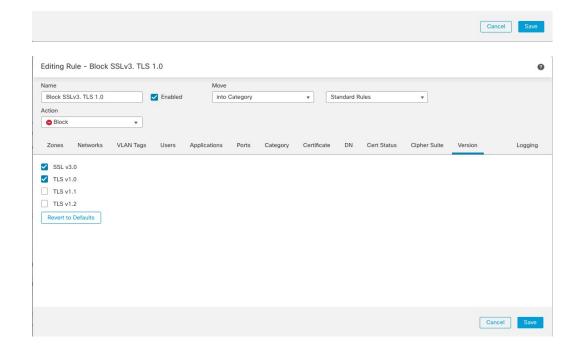
Last TLS/SSL Rules: Block or Monitor Certificates and Protocol Versions

The last TLS/SSL rules, because they are the most specific and require the most processing, are rules that either monitor or block bad certificates and unsecure protocol versions.



Rule details:





Example: TLS/SSL Rule to Monitor or Block Certificate Status

The last TLS/SSL rules, because they are the most specific and require the most processing, are rules that either monitor or block bad certificates and unsecure protocol versions. The example in this section shows how to monitor or block traffic by certificate status.



Note

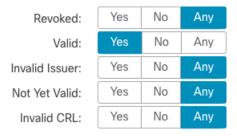
Use the **Cipher Suite** and **Version** rule conditions *only* in rules with either the **Block** or **Block with reset** rule actions. The use of these conditions in rules with other rule actions can interfere with the system's ClientHello processing, resulting in unpredictable performance.

- **Step 1** Log in to the Secure Firewall Management Center if you haven't already done so.
- Step 2 Click Policies > Access Control > SSL.
- **Step 3** Click **Edit** () next to your SSL policy.
- **Step 4** Click **Edit** () next to a TLS/SSL rule.
- Step 5 Click Add Rule.
- **Step 6** n the Add Rule dialog box, in the **Name** field, enter a name for the rule.
- Step 7 Click Cert Status
- **Step 8** For each certificate status, you have the following options:
 - Click **Yes** to match against the presence of that certificate status.
 - Click **No** to match against the absence of that certificate status.
 - Click **Any** to skip the condition when matching the rule. In other words, choosing **Any** means the rule matches whether the certificate status is present or absent.
- Step 9 From the Action list, click either Monitor to only monitor and log traffic that matches the rule or click Block or Block with Reset to block the traffic and optionally reset the connection.
- **Step 10** To save changes to the rule, at the bottom of the page, click **Save**.
- **Step 11** To save changes to the policy, at the top of the page, click **Save**.

Example

The organization trusts the Verified Authority certificate authority. The organization does not trust the Spammer Authority certificate authority. The system administrator uploads the Verified Authority certificate and an intermediate CA certificate issued by Verified Authority to the system. Because Verified Authority revoked a certificate it previously issued, the system administrator uploads the CRL that Verified Authority provided.

The following figure shows a certificate status rule condition checking for valid certificates, those issued by a Verified Authority, are not on the CRL, and still within the Valid From and Valid To date. Because of the configuration, traffic encrypted with these certificates is not decrypted and inspected with access control.



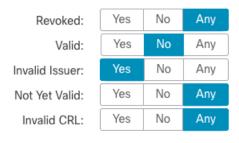


The following figure shows a certificate status rule condition checking for the absence of a status. In this case, because of the configuration, it matches against traffic encrypted with a certificate that has not expired and monitors that traffic.



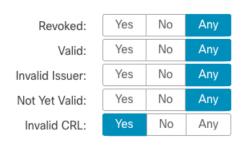


In the following example, traffic would match this rule condition if the incoming traffic is using a certificate that has an invalid issuer, is self-signed, expired, and it is an invalid certificate.





The following graphic illustrates a certificate status rule condition that matches if the SNI of the request matches the server name or if the CRL is not valid.





Example: TLS/SSL Rule to Monitor or Block Protocol Versions

This example shows how to block TLS and SSL protocols on your network that are no longer considered secure, such as TLS 1.0, TLS 1.1, and SSLv3. It's included to give you a little more detail about how protocol version rules work.

You should exclude nonsecure protocols from your network because they are all exploitable. In this example:

- You can block some protocols using **Version** page on the SSL rule.
- Because the system considers SSLv2 as undecryptable, you can block it using the **Undecryptable Actions** on the SSL policy.
- Similarly, because compressed TLS/SSL is not supported, you should block it as well.

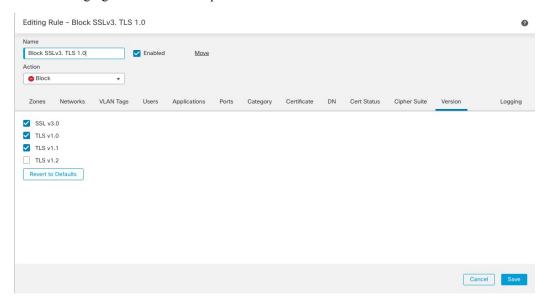


Note

Use the **Cipher Suite** and **Version** rule conditions *only* in rules with either the **Block** or **Block with reset** rule actions. The use of these conditions in rules with other rule actions can interfere with the system's ClientHello processing, resulting in unpredictable performance.

- **Step 1** Log in to the Secure Firewall Management Center if you haven't already done so.
- Step 2 Click Policies > Access Control > SSL.
- **Step 3** Click **Edit** (✓) next to your SSL policy.
- **Step 4** Click **Edit** () next to a TLS/SSL rule.
- Step 5 Click Add Rule.
- **Step 6** In the Add Rule dialog box, in the **Name** field, enter a name for the rule.
- **Step 7** From the **Action** list, click **Block** or **Block with reset**.
- Step 8 Click Version page.
- Step 9 Check the check boxes for protocols that are no longer secure, such as SSL v3.0, TLS 1.0, and TLS 1.1. Clear the check boxes for any protocols that are still considered secure.

The following figure shows an example.



- **Step 10** Choose other rule conditions as needed.
- Step 11 Click Save.

Optional Example: TLS/SSL Rule to Monitor or Block Certificate Distinguished Name

This rule is included to give you an idea about how to monitor or block traffic based on the server certificate's Distinguished Name. It's included to give you a little more detail.

The distinguished name can consist of country code, common name, organization, and organizational unit, but typically consists of a common name only. For example, the common name in the certificate for https://www.cisco.com is cisco.com. (However, it's not always this simple; the section on Distinguished Name Rule Conditions in the Cisco Secure Firewall Management Center Device Configuration Guide shows how to find common names.)

The host name portion of the URL in the client request is the Server Name Indication (SNI). The client specifies which hostname they want to connect to (for example, auth.amp.cisco.com) using the SNI extension in the TLS handshake. The server then selects the corresponding private key and certificate chain that are required to establish the connection while hosting all certificates on a single IP address.

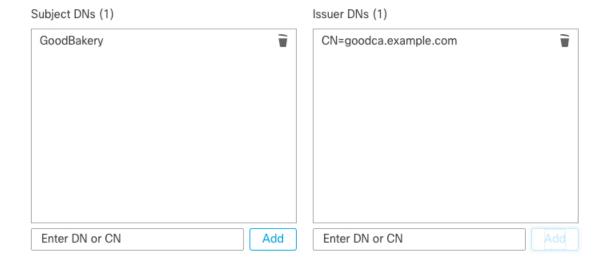
- **Step 1** Log in to the Secure Firewall Management Center if you haven't already done so.
- Step 2 Click Policies > Access Control > SSL.
- **Step 3** Click **Edit** (✓) next to your SSL policy.
- **Step 4** Click **Edit** () next to a TLS/SSL rule.
- Step 5 Click Add Rule.
- **Step 6** In the Add Rule dialog box, in the **Name** field, enter a name for the rule.
- **Step 7** From the **Action** list, click **Block** or **Block with reset**.
- Step 8 Click DN
- **Step 9** Find the distinguished names you want to add from the **Available DNs**, as follows:
 - To add a distinguished name object on the fly, which you can then add to the condition, click **Add** () above the **Available DNs** list.
 - To search for distinguished name objects and groups to add, click the **Search by name or value** prompt above the **Available DNs** list, then type either the name of the object, or a value in the object. The list updates as you type to display matching objects.
- **Step 10** To select an object, click it. To select all objects, right-click and then select **Select All**.
- Step 11 Click Add to Subject or Add to Issuer.
 - **Tip** You can also drag and drop selected objects.
- Add any literal common names or distinguished names that you want to specify manually. Click the **Enter DN or CN** prompt below the **Subject DNs** or **Issuer DNs** list; then type a common name or distinguished name and click **Add**.

Although you can add a CN or DN to either list, it's more common to add them to the **Subject DNs** list.

- **Step 13** Add or continue editing the rule.
- **Step 14** When you're done, to save changes to the rule, click **Save** at the bottom of the page.
- **Step 15** To save changes to the policy, click **Save** at the top of the page.

Example

The following figure shows a distinguished name rule condition searching for certificates issued to goodbakery.example.com or issued by goodca.example.com. Traffic encrypted with these certificates is allowed, subject to access control.



TLS/SSL Rule Settings

How to configure recommended best practice settings for your TLS/SSL rules.

TLS/SSL rule: Enable logging for every rule except those with a **Do Not Decrypt** rule action. (It's up to you; if you want to see information about traffic that isn't decrypted, enable logging for those rules also.)

- **Step 1** Log in to the Secure Firewall Management Center if you haven't already done so.
- Step 2 Click Policies > Access Control > SSL.
- **Step 3** Click **Edit** () next to your SSL policy.
- **Step 4** Click **Edit** () next to a TLS/SSL rule.
- **Step 5** Click the **Logging** tab.
- Step 6 Click Log at End of Connection.
- Step 7 Click Save.
- **Step 8** Click **Save** at the top of the page.