



# Selective Enabling of Applications Using an HTTP or HTTPS Server

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The Selective Enabling of Applications Using an HTTP or HTTPS Server feature eliminates a potential security vulnerability by providing a facility to enable selected HTTP and HTTP over Secure Socket Layer (HTTPS) services on both the Cisco IOS HTTP and HTTPS server infrastructure. This feature also provides the capability to view the current state of the HTTP and HTTPS services, including which services are enabled or disabled.

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## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the Feature Information Table at the end of this document.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

## Information About Selective Enabling of Applications Using an HTTP or HTTPS Server

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## Selective Enabling of Applications Within the HTTP and HTTPS Infrastructure

The Selective Enabling of Applications Using an HTTP or HTTPS Server feature eliminates a potential security vulnerability by providing a facility to enable selected HTTP and HTTPS services on both the Cisco IOS HTTP and HTTPS server infrastructure. This feature also provides the capability to view the current state of the HTTP and HTTPS services, including which services are enabled or disabled.

Prior to this feature, HTTP or HTTPS applications running on a router or a switch, were either all enabled or all disabled when the HTTP server or HTTPS server was enabled or disabled, respectively (using the **ip http server** and **ip http secure-server** commands). In the situation where all HTTP or HTTPS applications were enabled, remote end-users were given potential access to services that could allow them to pose a potential security threat to service providers.

With this new feature, the Cisco IOS HTTP and HTTPS infrastructure provides a way to enable only selected HTTP and HTTPS applications to run on a router or a switch, thereby bypassing a potential security vulnerability. Selected HTTP and HTTPS applications can be enabled using the new **ip http active-session-modules** and **ip http secure-active-session-modules** configuration commands, respectively.

**Note**

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The maximum number of sessions that can be registered with the Cisco IOS HTTP or HTTPS server is 32.

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## How to Enable Selected Applications Using an HTTP or HTTPS Server

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### Enabling Selected HTTP Applications

Perform this task to selectively enable the HTTP applications that will service incoming HTTP requests from remote clients.

**SUMMARY STEPS**

1. **enable**
2. **configure terminal**
3. **ip http session-module-list** *listname prefix1 [prefix2,...,prefixn]*
4. **ip http active-session-modules** {*listname* | **none** | **all**}
5. **end**
6. **show ip http server session-module**

## DETAILED STEPS

Command or Action	Purpose
<p><b>Step 1</b> <code>enable</code></p> <p><b>Example:</b></p> <pre>Router&gt; enable</pre>	<p>Enables privileged EXEC mode.</p> <ul style="list-style-type: none"> <li>Enter your password if prompted.</li> </ul>
<p><b>Step 2</b> <code>configure terminal</code></p> <p><b>Example:</b></p> <pre>Router# configure terminal</pre>	<p>Enters global configuration mode.</p>
<p><b>Step 3</b> <code>ip http session-module-list listname prefix1 [prefix2,...,prefixn]</code></p> <p><b>Example:</b></p> <pre>Router(config)# ip http session-module-list list1 SCEP,HOME_PAGE</pre>	<p>Defines a list of HTTP or HTTPS application names.</p>
<p><b>Step 4</b> <code>ip http active-session-modules {listname   none   all}</code></p> <p><b>Example:</b></p> <pre>Router(config)# ip http active-session-modules list1</pre>	<p>Selectively enables HTTP applications that will service incoming HTTP requests from remote clients.</p> <ul style="list-style-type: none"> <li>The <i>listname</i> argument enables only those HTTP services configured in the list identified by the <code>ip http session-module-list</code> command to serve HTTP requests.</li> <li>The keyword <b>none</b> disables all HTTP services from serving HTTP requests.</li> <li>The keyword <b>all</b> enables all HTTP services to serve HTTP requests.</li> </ul>
<p><b>Step 5</b> <code>end</code></p> <p><b>Example:</b></p> <pre>Router(config)# end</pre>	<p>Ends your configuration session and returns the CLI to Privileged Exec mode.</p>
<p><b>Step 6</b> <code>show ip http server session-module</code></p> <p><b>Example:</b></p> <pre>Router# show ip http server session-module</pre>	<p>(Optional) Displays information about all HTTP and HTTPS services available on the router or switch, including their current state of service, such as whether they are enabled or disabled.</p>

## Enabling Selected HTTPS Applications

Perform this task to selectively enable the HTTPS applications that will service incoming HTTPS requests from remote clients.

### SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **ip http session-module-list** *listname prefix1 [prefix2,...,prefixn]*
4. **ip http secure-active-session-modules** {*listname* | **none**| **all**}
5. **end**
6. **show ip http server session-module**

### DETAILED STEPS

Command or Action	Purpose
<p><b>Step 1</b> <b>enable</b></p> <p><b>Example:</b></p> <pre>Router&gt; enable</pre>	<p>Enables privileged EXEC mode.</p> <ul style="list-style-type: none"> <li>• Enter your password if prompted.</li> </ul>
<p><b>Step 2</b> <b>configure terminal</b></p> <p><b>Example:</b></p> <pre>Router# configure terminal</pre>	<p>Enters global configuration mode.</p>
<p><b>Step 3</b> <b>ip http session-module-list</b> <i>listname prefix1 [prefix2,...,prefixn]</i></p> <p><b>Example:</b></p> <pre>Router(config)# ip http session-module-list list1 SCEP,HOME_PAGE</pre>	<p>Defines a list of HTTP or HTTPS application names.</p>
<p><b>Step 4</b> <b>ip http secure-active-session-modules</b> {<i>listname</i>   <b>none</b>  <b>all</b>}</p> <p><b>Example:</b></p> <pre>Router(config)# ip http secure-active-session-modules list1</pre>	<p>Selectively enables HTTPS applications that will service incoming HTTPS requests from remote clients.</p> <ul style="list-style-type: none"> <li>• The <i>listname</i> argument enables only those HTTPS services configured in the list identified by the <b>ip http session-module-list</b> command to serve HTTPS requests.</li> <li>• The keyword <b>none</b> disables all HTTPS services from serving HTTPS requests.</li> <li>• The keyword <b>all</b> enables all HTTPS services to serve HTTPS requests.</li> </ul>

Command or Action	Purpose
<b>Step 5</b> <code>end</code>  <b>Example:</b>  <pre>Router(config)# end</pre>	Ends your configuration session and returns the CLI to Privileged Exec mode.
<b>Step 6</b> <code>show ip http server session-module</code>  <b>Example:</b>  <pre>Router# show ip http server session-module</pre>	(Optional) Displays information about all HTTP and HTTPS services available on the router or switch, including their current state of service, such as whether they are enabled or disabled.

## Configuration Examples for Selective Enabling of Applications Using an HTTP or HTTPS Server

- [Enabling Selected HTTP and HTTPS Applications Example, page 5](#)

### Enabling Selected HTTP and HTTPS Applications Example

The following configuration sample shows a configuration with different set of services available for HTTP and HTTPS requests. In this example, all HTTP applications are enabled for providing services to remote clients, but for HTTPS services, only the HTTPS applications defined in list1 (Simple Certificate Enrollment Protocol [SCEP] and HOME\_PAGE) are enabled.

```
ip http session-module-list list1 SCEP,HOME_PAGE
ip http active-session-modules all
ip http server
ip http secure-server
ip http secure-active-session-modules list1
```

## Additional References

The following sections provide references related to the Selective Enabling of Applications Using an HTTP or HTTPS Server feature.

#### Related Documents

Related Topic	Document Title
Additional HTTP configuration information	Using the Cisco Web Browser User Interface feature module

Related Topic	Document Title
Additional HTTPS configuration information	HTTPS - HTTP Server and Client with SSL 3.0 feature module
Additional HTTP and HTTPS commands	<i>Cisco IOS Network Management Command Reference</i>

### Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	--

### MIBs

MIBs	MIBs Link
None	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: <a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a>

### RFCs

RFCs	Title
No new or modified RFCs are supported by this feature, and support for existing RFCs has not been modified by this feature.	--

### Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.  To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.  Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	<a href="http://www.cisco.com/public/support/tac/home.shtml">http://www.cisco.com/public/support/tac/home.shtml</a>

# Feature Information for Selective Enabling of Applications Using an HTTP or HTTPS Server

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

**Table 1** Feature Information for Selective Enabling of Applications Using an HTTP or HTTPS Server

Feature Name	Releases	Feature Information
Selective Enabling of Applications Using an HTTP or HTTPS Server	12.3(14)T	The Selective Enabling of Applications Using an HTTP or HTTPS Server feature eliminates a potential security vulnerability by providing a facility to enable selected HTTP and HTTP over Secure Socket Layer (HTTPS) services on both the Cisco IOS HTTP and HTTPS server infrastructure. This feature also provides the capability to view the current state of the HTTP and HTTPS services, including which services are enabled or disabled.

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