

fpm package-group

To configure flexible packet matching (fpm) package support, use the **fpm package-group** command in global configuration mode. To disable fpm package support, use the **no** form of this command.

fpm package-group [*fpm-group-name*]

no fpm package-group [*fpm-group-name*]

Syntax Description

<i>fpm-group-name</i>	Specifies the fpm package group name.
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Command Default

FPM groups are not configured by default.

Command Modes

Global configuration (config)#

Command History

Release	Modification
15.0(1)M	This command was introduced.

Examples

The following example enables **fpm package-group**:

```
Router(config)# fpm package-group fpm-group-76
```

Related Commands

Command	Description
fpm package-info	Enables fpm package transfer.

fpm package-info

To configure flexible packet matching (fpm) package transfer from an fpm server to a local server, use the **fpm package-info** command in global configuration mode. To disable fpm packet transfer, use the **no** form of this command.

fpm package-info

no fpm package-info

Syntax Description This command has no keywords or arguments.

Command Default The command is not configured by default.

Command Modes Global configuration (config)#

Command History

Release	Modification
15.0(1)M	This command was introduced.

Examples

The following example enables fpm package transfer:

```
Router(config)# fpm package-info
```

Related Commands

Command	Description
fpm package-group	Configures fpm package group support.
show fpm package-group	Displays fpm package matching support configuration details.
show fpm package-info	Displays fpm package transfer configuration details.

grant auto rollover

To enable automatic granting of certificate reenrollment requests for a Cisco IOS subordinate certificate authority (CA) server or registration authority (RA) mode CA, use the **grant auto rollover command** in certificate server configuration mode. To disable automatic granting of certificate reenrollment requests for a Cisco IOS subordinate or RA-mode CA server, use the **no** form of this command.

grant auto rollover { ca-cert | ra-cert }

no grant auto rollover { ca-cert | ra-cert }

Syntax Description

ca-cert	Specifies that auto renewal is enabled for the subordinate CA rollover certificate.
ra-cert	Specifies that auto renewal is enabled for the RA-mode CA rollover certificate.

Command Default

Automatic granting of certificate reenrollment requests for a Cisco IOS subordinate CA server or RA-mode CA reenrollment requests is not enabled. Reenrollment requests will have to be granted manually.

Command Modes

Certificate server configuration (cs-server).

Command History

Release	Modification
12.4(4)T	This command was introduced.

Usage Guidelines

The first time a CA is enabled, a certificate request is sent to its superior CA. This initial request must be granted manually. The **grant auto rollover** command allows subsequent renewal certificate grant requests to be automatically processed by the CA for either a subordinate CA certificate (by designating the **ca-cert** keyword) or an RA-mode CA (by designating the **ra-cert** keyword), thereby eliminating the need for operator intervention.

Examples

The following example shows how the user can enable automatic granting of certificate reenrollment requests for a Cisco IOS subordinate CA server:

```
Router(cs-server)# grant auto rollover ca-cert
```

Related Commands

Command	Description
auto-rollover	Enables the automated CA certificate rollover functionality.
crypto pki server	Enables a Cisco IOS certificate server and enters certificate server configuration mode.

grant auto trustpoint

To specify the certification authority (CA) trustpoint of another vendor from which the Cisco IOS certificate server will automatically grant certificate enrollment requests, use the **grant auto trustpoint** command in certificate server configuration mode.

grant auto trustpoint *label*

Syntax Description

label Name of the non-Cisco IOS CA trustpoint.

Defaults

No default behavior or values.

Command Modes

Certificate server configuration

Command History

Release	Modification
12.3(11)T	This command was introduced.
12.2(18)SXE	This command was integrated into Cisco IOS Release 12.2(18)SXE.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.

Usage Guidelines

After the network administrator for the server configures and authenticates a trustpoint for the CA of another vendor, the **grant auto trustpoint** command is issued to reference the newly created trustpoint and enroll the router with a Cisco IOS CA.



Note

The newly created trustpoint can only be used one time (which occurs when the router is enrolled with the Cisco IOS CA). After the initial enrollment is successfully completed, the credential information will be deleted from the enrollment profile.

The Cisco IOS certificate server will automatically grant only the requests from clients who were already enrolled with the CA of another vendor. All other requests must be manually granted—unless the server is set to be in auto grant mode (via the **grant automatic** command).



Caution

The **grant automatic** command can be used for testing and building simple networks and should be disabled before the network is accessible by the Internet. However, it is recommended that you do not issue this command if your network is generally accessible.

Examples

The following example shows how to configure a client router and a Cisco IOS certificate server to exchange enrollment requests via a certificate enrollment profile:

```
! Define the trustpoint "msca-root" that points to the non-Cisco IOS CA and enroll and
! authenticate the client with the non-Cisco IOS CA.
```

```

crypto pki trustpoint msca-root
  enrollment mode ra
  enrollment url http://msca-root:80/certsrv/mscep/mscep.dll
  ip-address FastEthernet2/0
  revocation-check crl
!
! Configure trustpoint "cs" for Cisco IOS CA.
crypto pki trustpoint cs
  enrollment profile cs1
  revocation-check crl
!
! Define enrollment profile "cs1," which points to Cisco IOS CA and mention (via the
! enrollment credential command) that "msca-root" is being initially enrolled with the
! Cisco IOS CA.
crypto pki profile enrollment cs1
  enrollment url http://cs:80
  enrollment credential msca-root!

! Configure the certificate server, and issue the grant auto trustpoint command to
! instruct the certificate server to accept enrollment request only from clients who are
! already enrolled with trustpoint "msca-root."
crypto pki server cs
  database level minimum
  database url nvram:
  issuer-name CN=cs
  grant auto trustpoint msca-root
!
crypto pki trustpoint cs
  revocation-check crl
rsa-keypair cs
!
crypto pki trustpoint msca-root
  enrollment mode ra
  enrollment url http://msca-root:80/certsrv/mscep/mscep.dll
  revocation-check crl

```

Related Commands

Command	Description
crypto pki server	Enables a Cisco IOS certificate server and enters certificate server configuration mode.

grant none

To specify all certificate requests to be rejected, use the **grant none** command in certificate server configuration mode. To disable automatic rejection of certificate enrollment, use the **no** form of this command.

grant none

no grant none

Syntax Description

This command has no arguments or keywords.

Defaults

Certificate enrollment is manual; that is, authorization is required.

Command Modes

Certificate server configuration

Command History

Release	Modification
12.3(4)T	This command was introduced.

Examples

The following example shows how to automatically reject all certificate enrollment requests for the certificate server “myserver”:

```
Router#(config) ip http server
Router#(config) crypto pki server myservers
Router#(cs-server) database level minimum
Router#(cs-server) # grant none
```

Related Commands

Command	Description
crypto pki server	Enables a Cisco IOS certificate server and enters certificate server configuration mode.
grant automatic	Specifies automatic certificate enrollment.

grant ra-auto

To specify that all enrollment requests from a Registration Authority (RA) be granted automatically, use the **grant ra-auto** command in certificate server configuration mode. To disable automatic certificate enrollment, use the **no** form of this command.

grant ra-auto

no grant ra-auto

Syntax Description

This command has no arguments or keywords.

Defaults

Certificate enrollment is manual; that is, authorization is required.

Command Modes

Certificate server configuration

Command History

Release	Modification
12.3(7)T	This command was introduced.

Usage Guidelines

When grant ra-auto mode is configured on the issuing certificate server, ensure that the RA mode certificate server is running in manual grant mode so that enrollment requests are authorized individually by the RA.



Note

For the **grant ra-auto** command to work, you have to include “cn=ioscs RA” or “ou=ioscs RA” in the subject name of the RA certificate.

Examples

The following output shows that the issuing certificate server is configured to issue a certificate automatically if the request comes from an RA:

```
Router (config)# crypto pki server myserver
Router-ca (cs-server)# grant ra-auto
% This will cause all certificate requests that are already authorized by known RAs to be
automatically granted.
```

```
Are you sure you want to do this? [yes/no]:yes
```

Related Commands

Command	Description
crypto pki server	Enables a Cisco IOS certificate server and enters certificate server configuration mode.

group (authentication)

To specify the authentication, authorization, and accounting (AAA) TACACS+ server group to use for preauthentication, use the **group** command in AAA preauthentication configuration mode. To remove the **group** command from your configuration, use the **no** form of this command.

```
group {tacacs+ server-group}
```

```
no group {tacacs+ server-group}
```

Syntax Description

tacacs+	Uses a TACACS+ server for authentication.
<i>server-group</i>	Name of the server group to use for authentication.

Defaults

No method list is configured.

Command Modes

AAA preauthentication configuration

Command History

Release	Modification
12.1(2)T	This command was introduced.
12.2(33)SRA	This command was integrated into Cisco IOS release 12.(33)SRA.
12.2SX	This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.

Usage Guidelines

You must configure the **group** command before you configure any other AAA preauthentication command (**clid**, **ctype**, **dnis**, or **dnis bypass**).

Examples

The following example enables Dialed Number Identification Service (DNIS) preauthentication using the abc123 server group and the password aaa-DNIS:

```
aaa preauth
group abc123
dnis password aaa-DNIS
```

Related Commands

Command	Description
aaa preauth	Enters AAA preauthentication mode.
dnis (authentication)	Enables AAA preauthentication using DNIS.

group (IKE policy)

To specify the Diffie-Hellman group identifier within an Internet Key Exchange (IKE) policy, use the **group** command in Internet Security Association Key Management Protocol (ISAKMP) policy configuration mode. To reset the Diffie-Hellman group identifier to the default value, use the **no** form of this command.

```
group { 1 | 2 | 5 | 14 | 15 | 16 }
```

```
no group
```

Syntax Description

1	Specifies the 768-bit Diffie-Hellman group.
2	Specifies the 1024-bit Diffie-Hellman group.
5	Specifies the 1536-bit Diffie-Hellman group.
14	Specifies the 2048-bit Diffie-Hellman group.
15	Specifies the 3072-bit Diffie-Hellman group.
16	Specifies the 4096-bit Diffie-Hellman group.

Command Default

The 768-bit Diffie-Hellman (group 1) identifier is the default.

Command Modes

ISAKMP policy configuration (config-isakmp-policy)

Command History

Release	Modification
11.3 T	This command was introduced.
12.1(1.3)T	Support was added for Diffie-Hellman group 5.
12.4(4)T	Support for IPv6 was added.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.(33)SRA.
12.2SX	This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.
Cisco IOS XE Release 2.2	Support was added for Diffie-Hellman groups 14, 15, and 16 on the Cisco ASR 1000 series routers.

Usage Guidelines

IKE policies define a set of parameters to be used during IKE negotiation.

Use this command to specify the Diffie-Hellman group to be used in an IKE policy.

The 1024-bit Diffie-Hellman prime modulus group, **group 2**, provides more security than **group 1** but requires more processing time than **group 1**.

The group chosen must be strong enough (have enough bits) to protect the IPsec keys during negotiation. While there is some disagreement regarding how many bits are necessary in the Diffie-Hellman group to protect a specific key size, it is generally agreed that **group 14** is good protection for 128-bit keys, **group 15** is good protection for 192-bit keys, and **group 16** is good protection for 256-bit keys.

**Note**

group 5 may be used for 128-bit keys, but **group 14** is better.

The ISAKMP group and the IPsec perfect forward secrecy (PFS) group should be the same if PFS is used. If PFS is not used, a group is not configured in the IPsec crypto map.

Examples

The following example shows how to configure an IKE policy with the 1024-bit Diffie-Hellman group (all other parameters are set to the defaults):

```
crypto isakmp policy 15
 group 2
 exit
```

Related Commands

Command	Description
authentication (IKE policy)	Specifies the authentication method within an IKE policy.
crypto isakmp policy	Defines an IKE policy.
encryption (IKE policy)	Specifies the encryption algorithm within an IKE policy.
hash (IKE policy)	Specifies the hash algorithm within an IKE policy.
lifetime (IKE policy)	Specifies the lifetime of an IKE SA.
show crypto isakmp policy	Displays the parameters for each IKE policy.

group (local RADIUS server)

To enter user group configuration mode and to configure shared settings for a user group, use the **group** command in local RADIUS server configuration mode. To remove the group configuration from the local RADIUS server, use the **no** form of this command.

group *group-name*

no group *group-name*

Syntax Description

<i>group-name</i>	Name of user group.
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Defaults

No default behavior or values

Command Modes

Local RADIUS server configuration

Command History

Release	Modification
12.2(11)JA	This command was introduced on Cisco Aironet Access Point 1100 and Cisco Aironet Access Point 1200.
12.3(11)T	This command was implemented on the following platforms: Cisco 2600XM, Cisco 2691, Cisco 2811, Cisco 2821, Cisco 2851, Cisco 3700, and Cisco 3800 series routers.

Examples

The following example shows that shared settings are being configured for group “team1”:

```
group team1
```

Related Commands

Command	Description
block count	Configures the parameters for locking out members of a group to help protect against unauthorized attacks.
clear radius local-server	Clears the statistics display or unblocks a user.
debug radius local-server	Displays the debug information for the local server.
nas	Adds an access point or router to the list of devices that use the local authentication server.
radius-server host	Specifies the remote RADIUS server host.
radius-server local	Enables the access point or router to be a local authentication server and enters into configuration mode for the authenticator.
reauthentication time	Specifies the time (in seconds) after which access points or wireless-aware routers must reauthenticate the members of a group.

Command	Description
show radius local-server statistics	Displays statistics for a local network access server.
ssid	Specifies up to 20 SSIDs to be used by a user group.
user	Authorizes a user to authenticate using the local authentication server.
vlan	Specifies a VLAN to be used by members of a user group.

group (RADIUS)

To specify the authentication, authorization, and accounting (AAA) RADIUS server group to use for preauthentication, use the **group** command in AAA preauthentication configuration mode. To remove the **group** command from your configuration, use the **no** form of this command.

```
group server-group
```

```
no group server-group
```

Syntax Description

<i>server-group</i>	Specifies a AAA RADIUS server group.
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Defaults

No default behavior or values.

Command Modes

AAA preauthentication configuration

Command History

Release	Modification
12.1(2)T	This command was introduced.

Usage Guidelines

You must configure a RADIUS server group with the **aaa group server radius** command in global configuration mode before using the **group** command in AAA preauthentication configuration mode.

You must configure the **group** command before you configure any other AAA preauthentication command (**clid**, **ctype**, **dnis**, or **dnis bypass**).

Examples

The following example shows the creation of a RADIUS server group called “maestro” and then specifies that DNIS preauthentication be performed using this server group:

```
aaa group server radius maestro
  server 10.1.1.1
  server 10.2.2.2
  server 10.3.3.3

aaa preauth
  group maestro
  dnis required
```

Related Commands

Command	Description
aaa group server radius	Groups different RADIUS server hosts into distinct lists and distinct methods.
clid	Preauthenticates calls on the basis of the CLID number.
ctype	Preauthenticates calls on the basis of the call type.

Command	Description
dnis (RADIUS)	Preauthenticates calls on the basis of the DNIS number.
dnis bypass (AAA preauthentication configuration)	Specifies a group of DNIS numbers that will be bypassed for preauthentication.

group-lock

The **group-lock** command attribute is used to check if a user attempting to connect to a group belongs to this group. This attribute is used in conjunction with the extended authentication (Xauth) username. The user name must include the group to which it belongs. The group is then matched against the VPN group name (ID_KEY_ID) that is passed during the Internet Key Exchange (IKE). If the groups do not match, then the client connection is terminated.

To allow the extended authentication (Xauth) username to be entered when preshared key authentication is used with IKE, use the **group-lock** command in Internet Security Association Key Management Protocol (ISAKMP) group configuration mode. To remove the group lock, use the **no** form of this command.



Note

Preshared keys are supported only. Certificates are not supported.

group-lock

no group-lock

Syntax Description

This command has no arguments or keywords.

Defaults

Group lock is not configured.

Command Modes

ISAKMP group configuration (config-isakmp-group)

Command History

Release	Modification
12.2(13)T	This command was introduced.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
12.2SX	This command is supported in the Cisco IOS 12.2SX family of releases. Support in a specific 12.2SX release is dependent on your feature set, platform, and platform hardware.

Usage Guidelines

The Group-Lock attribute can be used if preshared key authentication is used with IKE. When the user enables the **group-lock** command attribute, one of the following extended Xauth usernames can be entered:

name/group

name\group

name@group

name%group

where the \ / @ % are the delimiters. The group that is specified after the delimiter is then compared against the group identifier that is sent during IKE aggressive mode. The groups must match or the connection is rejected.

**Caution**

Do not use the Group-Lock attribute if you are using RSA signature authentication mechanisms such as certificates. Use the User-VPN-Group attribute instead.

The Group-Lock attribute is configured on a Cisco IOS router or in the RADIUS profile. This attribute has local (gateway) significance only and is not passed to the client.

**Note**

If local authentication is used, then the Group-Lock attribute is the only option.

The username in the local or RADIUS database must be of the following format:

username[/,\,%,@]group.

Examples

The following example shows how Group-Lock attribute is configured in the CLI using the **group-lock** command:

**Note**

You must enable the **crypto isakmp client configuration group** command, which specifies group policy information that has to be defined or changed, before enabling the **group-lock** command.

```
crypto isakmp client configuration group cisco
group-lock
```

The following example shows how an attribute-value (AV) pair for the User-VPN-Group attribute is added in the RADIUS configuration:

**Note**

If RADIUS is used for user authentication, then use the User-VPN-Group attribute instead of the Group-Lock attribute.

```
ipsec:group-lock=1
```

Related Commands

Command	Description
acl	Configures split tunneling.
crypto isakmp client configuration group	Specifies the DNS domain to which a group belongs.

hash (ca-trustpoint)

To specify the cryptographic hash function the Cisco IOS client will use for self-signed certificates, use the **hash** command in ca-trustpoint configuration mode. To return to the default cryptographic hash function, use the **no** form of this command.

```
hash {md5 | sha1 | sha256 | sha384 | sha512}
```

```
no hash
```

Syntax Description

md5	Specifies that Message-Digest algorithm 5 (MD5), the default hash function, will be used.
sha1	Specifies that Secure Hash Algorithm (SHA-1) hash function will be used.
sha256	Specifies that the SHA-256 hash function will be used.
sha384	Specifies that the SHA-384 hash function will be used.
sha512	Specifies that the SHA-512 hash function will be used.

Command Default

By default, for self-signed certificates, the Cisco IOS client uses the MD5 cryptographic hash function.

Command Modes

Ca-trustpoint configuration (ca-trustpoint)

Command History

Release	Modification
12.4(15)T	This command was introduced.
Cisco IOS XE Release 2.4	This command was implemented on the Cisco ASR 1000 series routers.

Usage Guidelines

The **hash** command in ca-trustpoint configuration mode sets the hash function for the signature that the Cisco IOS client will use to sign its self-signed certificates. This hash setting does not specify what kind of signature the certificate authority (CA) will use when it issues a certificate to this client.

Examples

The following example configures the trustpoint “MyTP” and sets the cryptographic hash function to SHA-384:

```
crypto pki trustpoint MyTP
  enrollment url http://MyTP
  ip-address FastEthernet0/0
  revocation-check none
  hash sha384
```

Related Commands

Command	Description
hash (cs-server)	Specifies the cryptographic hash function the Cisco IOS certificate server will use to sign certificates issued by the CA.

hash (cs-server)

To specify the cryptographic hash function the Cisco IOS certificate server will use to sign certificates issued by the certificate authority (CA), use the **hash** command in cs-server configuration mode. To return to the default cryptographic hash function, use the no form of this command.

```
hash {md5 | sha1 | sha256 | sha384 | sha512}
```

```
no hash
```

Syntax Description

md5	Specifies that the Message-Digest algorithm 5 (MD5), the default hash function, will be used.
sha1	Specifies that the Secure Hash Algorithm (SHA-1) hash function will be used.
sha256	Specifies that the SHA-256 hash function will be used.
sha384	Specifies that the SHA-384 hash function will be used.
sha512	Specifies that the SHA-512 hash function will be used.

Command Default

By default, to sign certificates issued by CA, the Cisco IOS client uses the MD5 cryptographic hash function.

Command Modes

Cs-server configuration (cs-server)

Command History

Release	Modification
12.4(14)XK	This command was introduced.
Cisco IOS XE Release 2.4	This command was implemented on the Cisco ASR 1000 series routers.

Usage Guidelines

The **hash** command in cs-server configuration mode sets the hash function for the signature that the Cisco IOS CA will use to sign all of the certificates issued by the server. If the CA is a root CA, it will use the hash function in its own, self-signed certificate.

Examples

The following example configures a certificate server, MyCS, and sets the cryptographic hash function to SHA-512 for the certificate server:

```
crypto pki server MyCS
database level complete
issuer-name CN=company,L=city,C=country
grant auto
hash sha512
lifetime crl 168
```

The following is sample output from the **show crypto ca certificates** command. This output shows that the CA has been configured and that the hash function SHA-512 has been specified.

```
CA Certificate
Status: Available
Certificate Serial Number: 01
Certificate Usage: Signature
Issuer:
cn=company
l=city
c=country
Subject:
cn=company
l=city
c=country
Validity Date:
start date: 01:32:35 GMT Aug 3 2006
end date: 01:32:35 GMT Aug 2 2009
Associated Trustpoints: MyTP
Certificate Subject:
Name: MyCS.cisco.com
IP Address: 192.168.10.2
Status: Pending Key
Usage: General Purpose
Certificate Request Fingerprint SHA1: 05080A60 82DE9395 B35607C2 38F3A0C3 50609EF8
Associated Trustpoint: MyTP
```

Related Commands

Command	Description
hash (ca-trustpoint)	Specifies the cryptographic hash function the Cisco IOS client will use for self-signed certificates.

hash (IKE policy)

To specify the hash algorithm within an Internet Key Exchange policy, use the **hash** command in Internet Security Association Key Management Protocol (ISAKMP) policy configuration mode. IKE policies define a set of parameters to be used during IKE negotiation. To reset the hash algorithm to the default SHA-1 hash algorithm, use the **no** form of this command.

```
hash {sha | md5}
```

```
no hash
```

Syntax Description

sha	Specifies SHA-1 (HMAC variant) as the hash algorithm.
md5	Specifies MD5 (HMAC variant) as the hash algorithm.

Defaults

The SHA-1 hash algorithm

Command Modes

ISAKMP policy configuration

Command History

Release	Modification
11.3 T	This command was introduced.
12.4(4)T	IPv6 support was added.
12.2(33)SRA	This command was integrated into Cisco IOS release 12.(33)SRA.
12.2SX	This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.

Usage Guidelines

Use this command to specify the hash algorithm to be used in an IKE policy.

Examples

The following example configures an IKE policy with the MD5 hash algorithm (all other parameters are set to the defaults):

```
crypto isakmp policy 15
 hash md5
 exit
```

Related Commands

Command	Description
authentication (IKE policy)	Specifies the authentication method within an IKE policy.
crypto isakmp policy	Defines an IKE policy.
encryption (IKE policy)	Specifies the encryption algorithm within an IKE policy.
group (IKE policy)	Specifies the Diffie-Hellman group identifier within an IKE policy.

Command	Description
lifetime (IKE policy)	Specifies the lifetime of an IKE SA.
show crypto isakmp policy	Displays the parameters for each IKE policy.

heading

To configure the heading that is displayed above URLs listed on the portal page of a SSL VPN, use the **heading** command in webvpn URL list configuration mode. To remove the heading, use the **no** form of this command.

heading *text-string*

no heading

Syntax Description

<i>text-string</i>	The URL list heading entered as a text string. The heading must be in quotation marks if it contains spaces.
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Command Default

A heading is not configured.

Command Modes

Webvpn URL list configuration

Command History

Release	Modification
12.3(14)T	This command was introduced.

Examples

The following example configures a heading for a URL list:

```
Router(config)# webvpn context context1
Router(config-webvpn-context)# url-list ACCESS
Router(config-webvpn-url)# heading "Quick Links"
Router(config-webvpn-url)#
```

Related Commands

Command	Description
url-list	Enters webvpn URL list configuration mode to configure the list of URLs to which a user has access on the portal page of a SSL VPN.

hide-url-bar

To prevent the URL bar from being displayed on the SSL VPN portal page, use the **hide-url-bar** command in webvpn group policy configuration mode. To display the URL bar on the portal page, use the **no** form of this command.

hide-url-bar

no hide-url-bar

Syntax Description This command has no arguments or keywords.

Command Default The URL bar is displayed on the SSL VPN portal page.

Command Modes Webvpn group policy configuration

Command History	Release	Modification
	12.4(6)T	This command was introduced.

Usage Guidelines The configuration of this command applies only to clientless mode access.

Examples The following example hides the URL bar on the SSL VPN portal page:

```
Router(config)# webvpn context context1
Router(config-webvpn-context)# policy group ONE
Router(config-webvpn-group)# hide-url-bar
Router(config-webvpn-group)#
```

Related Commands	Command	Description
	policy group	Enters webvpn group policy configuration mode to configure a policy group.
	webvpn context	Enters webvpn context configuration mode to configure the SSL VPN context.

host (webvpn url rewrite)

To select the name of the host site to be mangled on a Secure Socket Layer virtual private network (SSL VPN) gateway, use the **host** command in webvpn url rewrite configuration mode. To deselect a site, use the **no** form of this command.

host *host-name*

no host *host-name*

Syntax Description

<i>host-name</i>	Hostname of the site to be mangled.
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Command Default

A host site is not selected.

Command Modes

Webvpn url rewrite (config-webvpn-url-rewrite)

Command History

Release	Modification
12.4(20)T	This command was introduced.

Examples

The following example shows that the site www.examplecompany.com is to be mangled:

```
Router (config)# webvpn context
Router (config-webvpn-context)# url rewrite
Router (config-webvpn-url-rewrite)# host www.examplecompany.com
```

Related Commands

Command	Description
ip (webvpn url rewrite)	Configures the IP address of the site to be mangled on an SSL VPN gateway.
unmatched-action (webvpn url rewrite)	Defines the action when the user request does not match the IP address or host site configuration.

hostname (WebVPN)

To configure the hostname for a SSL VPN gateway, use the **hostname** command in webvpn gateway configuration mode. To remove the hostname from the SSL VPN gateway configuration, use the **no** form of this command.

hostname *name*

no hostname

Syntax Description

<i>name</i>	Specifies the hostname.
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Command Default

The hostname is not configured.

Command Modes

Webvpn gateway configuration

Command History

Release	Modification
12.4(6)T	This command was introduced.

Usage Guidelines

A hostname is configured for use in the URL and cookie-mangling process. In configurations where traffic is balanced among multiple SSL VPN gateways, the hostname configured with this command maps to the gateway IP address configured on the load-balancing device(s).

Examples

The following example configures a hostname for a SSL VPN gateway:

```
Router(config)# webvpn gateway GW_1
Router(config-webvpn-gateway)# hostname VPN_Server
```

Related Commands

Command	Description
webvpn gateway	Defines a SSL VPN gateway and enters webvpn gateway configuration mode.

http proxy-server

To direct Secure Socket Layer virtual private network (SSL VPN) user requests through a backend HTTP proxy server, use the **http proxy-server** command in webvpn policy group configuration mode. To redirect user requests to internal servers, use the **no** form of this command.

http proxy-server {*dns-name* | *ip-address*} **port** *port-number*

no http proxy-server

Syntax Description

<i>dns-name</i>	Domain Name System (DNS) to be directed to the HTTP proxy server.
<i>ip-address</i>	IP address to be directed to the HTTP proxy server.
port <i>port-number</i>	Port number of the backend HTTP proxy server.

Command Default

User requests are routed directly to internal servers.

Command Modes

Webvpn policy group configuration (config-webvpn-group)

Command History

Release	Modification
12.4(20)T	This command was introduced.

Examples

The following example shows that requests from IP address 10.1.1.1 are to be routed to the proxy server (port number 2034):

```
Router (config)# webvpn context e1
Router (config-webvpn-context)# policy group g1
Router (config-webvpn-group)# http proxy-server 10.1.1.1 port 2034
Router (config-webvpn-group)# exit
Router (config-webvpn-context)# default-group-policy g1
```

http-redirect

To configure HTTP traffic to be carried over secure HTTP (HTTPS), use the **http-redirect** command in webvpn gateway configuration mode. To remove the HTTPS configuration from the SSL VPN gateway, use the **no** form of this command.

http-redirect [*port number*]

no http-redirect

Syntax Description	port number (Optional) Specifies a port number. The value for this argument is a number from 1 to 65535.
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Command Default	The following default value is used if this command is configured without entering the port keyword: port number : 80
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Command Modes	Webvpn gateway configuration
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Command History	Release	Modification
	12.4(6)T	This command was introduced.

Usage Guidelines	When this command is enabled, the HTTP port is opened and the SSL VPN gateway listens for HTTP connections. HTTP connections are redirected to use HTTPS. Entering the port keyword and <i>number</i> argument configures the gateway to listen for HTTP traffic on the specified port. Entering the no form, disables HTTP traffic redirection. HTTP traffic is handled by the HTTP server if one is running.
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Examples	The following example, starting in global configuration mode, redirects HTTP traffic (on TCP port 80) over to HTTPS (on TCP port 443):
-----------------	--

```
Router(config)# webvpn gateway SSL_GATEWAY
Router(config-webvpn-gateway)# http-redirect
```

Related Commands	Command	Description
	webvpn gateway	Defines a SSL VPN gateway and enters webvpn gateway configuration mode.

hw-module slot subslot only


Note

This command is deleted effective with Cisco IOS Release 12.2SXI.

To change the mode of the Cisco 7600 SSC-400 card to allocate full buffers to the specified subslot, use the **hw-module slot subslot only** command in global configuration mode. If this command is not used, the total amount of buffers available is divided between the two subslots on the Cisco 7600 SSC-400.


Note

This command automatically generates a reset on the Cisco 7600 SSC-400. See Usage Guidelines below for details.

hw-module slot *slot* subslot *subslot* only

Syntax Description

<i>slot</i>	Chassis slot number where the Cisco 7600 SSC-400 is located. Refer to the appropriate hardware manual for slot information. For SIPs and SSCs, refer to the platform-specific SPA hardware installation guide or the corresponding “Identifying Slots and Subslots for SIPs and SPAs” topic in the platform-specific SPA software configuration guide.
<i>subslot</i>	Secondary slot number on the SSC where the IPsec VPN SPA is installed.

Defaults

No default behavior or values.

Command Modes

Global configuration mode

Command History

Release	Modification
12.2(18)SXF2	This command was introduced.
12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
12.2SX	This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.
12.2SXI	This command was deleted.

Usage Guidelines

Follow these guidelines and restrictions when configuring a Cisco 7600 SSC-400 and IPsec VPN SPAs using the **hw-module slot subslot only** command:

- This command is useful when supporting IP multicast over GRE on the IPsec VPN SPA.
- When this command is executed, it automatically takes a reset action on the Cisco 7600 SSC-400 and issues the following prompt to the console:

Module n will be reset? Confirm [n]:

The prompt will default to “N” (no). You must type “Y” (yes) to activate the reset action.

- When in this mode, if you manually plug in a second SPA, or if you attempt to reset the SPA (by entering a **no hw-module subslot shutdown** command, for example), a message is displayed on the router console which refers you to the customer documentation.

Examples

The following example allocates full buffers to the SPA that is installed in subslot 0 of the SIP located in slot 1 of the router and takes a reset action of the Cisco 7600 SSC-400.

```
Router(config)# hw-module slot 4 subslot 1 only  
Module 4 will be reset? Confirm [no]: y
```

Note that the prompt will default to “N” (no). You must type “Y” (yes) to activate the reset action.

Related Commands

Command	Description
ip multicast-routing	Enables IP multicast routing.
ip pim	Enables Protocol Independent Multicast (PIM) on an interface.