

Real Server Host Configuration Mode Commands

Real server host configuration mode commands allow you to create and configure host real servers that are used in server load balancing (SLB). The parameters that you configure determine how the ACE interacts with the servers used for web content and services. For details about SLB, see the *Cisco 4700 Series Application Control Engine Appliance Server Load-Balancing Configuration Guide*.

To create a host real server and access real server host configuration mode, use the **rserver host** command in configuration mode. The CLI prompt changes to (config-rserver-host). For information about commands available in this mode, see the following commands.

Use the **no** form of this command to remove an existing real server from the configuration.

rserver [**host**] *name*

no rserver *name*

Syntax Description		
<i>name</i>		Unique identifier of the real server. Enter an unquoted text string with no spaces and a maximum of 64 alphanumeric characters.
host		(Optional) Specifies that the real server is a typical server that provides web services and content.

Command Modes	
	Configuration mode Admin and user contexts

Command History	Release	Modification
	A1(7)	This command was introduced.

Usage Guidelines	
	The commands in this mode require the rserver feature in your user role unless otherwise specified. For details about role-based access control (RBAC) and user roles, see the <i>Cisco 4700 Series Application Control Engine Appliance Virtualization Configuration Guide</i> .

Examples To create a host server named SERVER1, enter:

```
host1/Admin(config)# rserver SERVER1
host1/Admin(config-rserver-host)#
```

To delete the host server named SERVER1, enter:

```
host1/Admin(config)# no rserver SERVER1
```

Related Commands [\(config-sfarm-host\) rserver](#)

(config-rserver-host) conn-limit

To configure the maximum and minimum number of connections that you want to allow for a host real server, use the **conn-limit** command. Use the **no** form of this command to reset the maximum number of connections and the minimum connection threshold for a real server to the default of 4294967295.

conn-limit max *max-conns* **min** *min-conns*

no conn-limit max

Syntax Description

max <i>maxconns</i>	Specifies the maximum number of connections allowed for this real server. Enter an integer from 2 to 4294967295. The default is 4294967295.
min <i>minconns</i>	Specifies the connection threshold below which the real server will start accepting connections again after the number of connections exceeds the configured maximum number of connections. Enter an integer from 2 to 4294967295. The default is <i>minconns</i> equal to <i>maxconns</i> .

Command Modes

Real server host configuration mode
Admin and user contexts

Command History

Release	Modification
A1(7)	This command was introduced.

Usage Guidelines

Use this command to specify the maximum number of connections and the minimum connection threshold for a real server. The *minconns* value must be less than or equal to the *maxconns* value. When the number of connections to a real server reaches the *maxconns* value, the ACE stops sending connections to that server and assigns it a state of OUTOFSERVICE. The ACE uses the *minconns* value as a threshold for load balancing to start accepting connections again after the *maxconns* limit is reached.

Examples

To configure the maximum number of connections and the minimum connection threshold for a real server, enter:

```
host1/Admin(config-rserver-host) # conn-limit max 65535 min 40000
```

To reset the maximum number of connections and the minimum connection threshold for a real server to the default of 4294967295, enter:

```
host1/Admin(config-rserver-host) # no conn-limit
```

Related Commands

This command has no related commands.

(config-rserver-host) description

To configure a description for a real server, use the **description** command. Use the **no** form of this command to remove the real server description from the configuration.

description *text*

no description

Syntax Description

<i>text</i>	User-defined description of the real server and related information. Enter an unquoted text string with a maximum of 240 alphanumeric characters.
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Command Modes

Real server host configuration mode
Admin and user contexts

Command History

Release	Modification
A1(7)	This command was introduced.

Usage Guidelines

This command has no usage guidelines.

Examples

To configure a description for a real server, enter:

```
host1/Admin(config-rserver-host)# description database application server
```

To delete a description for a real server, enter:

```
host1/Admin(config-rserver-host)# no description
```

Related Commands

This command has no related commands.

(config-rserver-host) inservice

To place a real server in service, use the **inservice** command in real server host configuration mode. Use the **no** form of this command to gracefully shut down a real server.

inservice

no inservice

Syntax Description This command has no keywords or arguments.

Command Modes Real server host configuration mode
Admin and user contexts

Command History	Release	Modification
	A1(7)	This command was introduced.

Usage Guidelines This command requires the real-inservice feature in your user role. For details about role-based access control (RBAC) and user roles, see the *Cisco 4700 Series Application Control Engine Appliance Virtualization Configuration Guide*.

Use the **no** form of this command to shut down a real server gracefully for maintenance or software upgrades. When you enter this command, the ACE tears down all non-TCP connections. For TCP connections, the ACE allows existing connections to end before taking the server out of service. No new connections are allowed. To place the real server back in service, use the **inservice** command.

The ACE resets all SSL connections to a particular real server when you enter the **no inservice** command for that server.

Examples To place a real server in service, enter:

```
host1/Admin(config-rserver-host)# inservice
```

To take a real server out of service, enter:

```
host1/Admin(config-rserver-host)# no inservice
```

Related Commands This command has no related commands.

(config-rserver-host) ip address

To configure an IP address for a real server, use the **ip address** command in real server host configuration mode. Use the **no** form of this command to remove the real server IP address from the configuration.

ip address *ip-address*

no ip address

Syntax Description	<i>ip-address</i>	IP address for the real server of type host. Enter an IP address in dotted-decimal notation (for example, 192.168.12.6).
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Command Modes	Real server host configuration mode Admin and user contexts
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Command History	Release	Modification
	A1(7)	This command was introduced.

Usage Guidelines	Use this command to provide a unique IP address for a real server. The address that you choose must not be a VIP of an existing virtual server.
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Examples	To configure the IP address of a real server, enter: <pre>host1/Admin(config-rserver-host)# ip address 192.168.12.6</pre> <p>To delete the real server IP address from the configuration, enter: <pre>host1/Admin(config-rserver-host)# no ip address 192.168.12.6</pre></p>
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Related Commands	This command has no related commands.
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(config-rserver-host) probe

To configure a probe to monitor the health of a real server, use the **probe** command. Use the **no** form of this command to remove the probe from the real server.

probe *probe-name*

no probe *probe-name*

Syntax Description	<i>probe-name</i>	Identifier of an existing probe that you want to assign to a real server to monitor its health. Enter an unquoted text string with no spaces and a maximum of 64 alphanumeric characters.
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Command Modes	Real server host configuration mode Admin and user contexts
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Command History	Release	Modification
	A1(7)	This command was introduced.

Usage Guidelines	You can associate multiple probes with each real server.
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Examples	To configure a probe for a real server of type host , enter: host1/Admin(config-rserver-host) # probe SERVER1_PROBE
	To remove a probe from a real server of type host , enter: host1/Admin(config-rserver-host) # no probe SERVER1_PROBE

Related Commands	This command has no related commands.
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(config-rserver-host) weight

To configure the capacity of a real server in relation to other servers in a server farm, use the **weight** command. The weight value that you specify for a server is used in the weighted round-robin and least-connections predictor load-balancing methods. Use the **no** form of this command to reset the real server weight to the default.

weight *number*

no weight

Syntax Description

number

Weight value assigned to a real server in a server farm. This value is used in the weighted round-robin and least-connections predictor load-balancing algorithms. Enter an integer from 0 to 100. The default is 8.

Command Modes

Real server host configuration mode.

Admin and user contexts

Command History

Release

Modification

A1(7)

This command was introduced.

Usage Guidelines

To specify different weight values for a real server in a server farm, you can assign multiple IP addresses to the server. You can also use the same IP address of a real server with different port numbers.

Server weights take effect only when there are open connections to the servers. When there are no sustained connections to any of the servers, the leastconns predictor method behaves like the roundrobin method.

Examples

To configure a weight value for a real server, enter:

```
host1/Admin(config-rserver-host)# weight 50
```

To reset the weight of a real server to the default of 8, enter:

```
host1/Admin(config-rserver-host)# no weight
```

Related Commands

This command has no related commands.

Real Server Redirect Configuration Mode Commands

Real server redirect configuration mode commands allow you to configure parameters for redirection real servers used in server load balancing (SLB). A redirection real server is used only for redirecting network traffic to another server as indicated in the Webhost redirection string. See the [\(config-rserver-redirect\) webhost-redirection](#) command. The parameters that you configure determine how the ACE interacts with the servers used for redirection. Redirection servers are useful for content that has physically moved to another location, either temporarily or permanently. For details about SLB and redirection, see the *Cisco 4700 Series Application Control Engine Appliance Server Load-Balancing Configuration Guide*.

To create a redirect real server and access real server configuration mode, use the **rserver redirect** command in configuration mode. The CLI prompt changes to (config-rserver). For information about commands available in this mode, see the commands that follow this section.

Use the **no** form of this command to remove an existing real server from the configuration.

rserver redirect *name*

no rserver redirect *name*

Syntax Description	<i>name</i>	Unique identifier of the real server. Enter an unquoted text string with no spaces and a maximum of 64 alphanumeric characters.				
Command Modes	Configuration mode Admin and user contexts					
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>A1(7)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	A1(7)	This command was introduced.	
Release	Modification					
A1(7)	This command was introduced.					
Usage Guidelines	All commands in this mode require the Real feature in your user role. For details about role-based access control (RBAC) and user roles, see the <i>Cisco 4700 Series Application Control Engine Appliance Virtualization Configuration Guide</i> .					
Examples	<p>To create a redirect server named SERVER1, enter:</p> <pre>host1/Admin(config)# rserver redirect SERVER1</pre> <p>To delete the redirect server named SERVER1, enter:</p> <pre>host1/Admin(config)# no rserver redirect SERVER1</pre>					
Related Commands	(config-rserver-redirect) webhost-redirection					

(config-rserver-redirect) conn-limit

To configure the maximum and minimum (optional) number of connections that you want to allow for a real server, use the **conn-limit** command. Use the **no** form of this command to reset the maximum number of connections and the minimum connection threshold for a real server to the default of 4294967295.

conn-limit **max** *max-conns* **min** *min-conns*

no conn-limit max

Syntax Description	max <i>max-conns</i>	min <i>min-conns</i>
	Specifies the maximum number of connections allowed for this real server. Enter an integer from 2 to 4294967295.	Specifies the connection threshold below which the real server will start accepting connections again after the number of connections exceeds the configured maximum number of connections. Enter an integer from 2 to 4294967295. The default is <i>minconns</i> equal to <i>maxconns</i> .

Command Modes
Real server redirect configuration mode
Admin and user contexts

Command History	Release	Modification
	A1(7)	This command was introduced.

Usage Guidelines
Use this command to specify the maximum number of connections and the minimum connection threshold for a real server. The *minconns* value must be less than or equal to the *maxconns* value. When the number of connections to a real server reaches the *maxconns* value, the ACE stops sending connections to that server and assigns it a state of OUTFSERVICE. The ACE uses the *minconns* value as a threshold for load balancing to start accepting connections again after the *maxconns* limit is reached.

Examples
To configure the maximum number of connections and the minimum connection threshold for a real server, enter:

```
host1/Admin(config-rserver-redirect)# conn-limit maxconns 65535 minconns 40000
```

To reset the maximum number of connections and the minimum connection threshold for a real server of type **redirect** to the default of 4294967295, enter:

```
host1/Admin(config-rserver-redirect)# no conn-limit
```

Related Commands
This command has no related commands.

(config-rserver-redirect) description

To configure a description for a real server, use the **description** command. Use the **no** form of this command to remove the real server description from the configuration.

description *text*

no description

Syntax Description	<i>text</i>	User-defined description of the real server and related information. Enter an unquoted text string with a maximum of 240 alphanumeric characters.
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Command Modes	Real server redirect configuration mode Admin and user contexts
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Command History	Release	Modification
	A1(7)	This command was introduced.

Usage Guidelines	Use this command to provide a unique description for the real server with a maximum of 240 characters.
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Examples	To configure a real server description, enter: host1/Admin(config-rserver-redirect)# description database application server
	To delete a real server description, enter: host1/Admin(config-rserver-redirect)# no description

Related Commands	This command has no related commands.
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(config-rserver-redirect) inservice

To place a real server in service, use the **inservice** command. Use the **no** form of this command to remove the real server from service.

inservice

no inservice

Syntax Description This command has no keywords or arguments.

Command Modes Real server redirect configuration mode
Admin and user contexts

Command History	Release	Modification
	A1(7)	This command was introduced.

Usage Guidelines This command requires the real-inservice feature in your user role. For details about role-based access control (RBAC) and user roles, see the *Cisco 4700 Series Application Control Engine Appliance Virtualization Configuration Guide*.

Use the **no** form of this command to shut down a real server gracefully for maintenance or software upgrades. When you enter this command, the ACE tears down all non-TCP connections. For TCP connections, the ACE allows existing connections to end before taking the server out of service. No new connections are allowed. To place the real server back in service, use the **inservice** command.

Examples To place a real server in service, enter:

```
host1/Admin(config-rserver-redirect)# inservice
```

To take a real server out of service, enter:

```
host1/Admin(config-rserver-redirect)# no inservice
```

Related Commands This command has no related commands.


(config-rserver-redirect) webhost-redirect

To configure the relocation URL string used for redirection, use the **webhost-redirect** command. You can configure a port number to redirect a request in the relocation string. Use the **no** form of this command to remove the real server redirection URL string from the configuration.

webhost-redirect *relocation_string* [**301** | **302**]

no webhost-redirect

Syntax Description

<i>relocation_string</i>	<p>URL string used to redirect requests to another server. Enter an unquoted text string with no spaces and a maximum of 255 alphanumeric characters. The redirection string supports the following special characters:</p> <ul style="list-style-type: none"> • %h—Inserts the hostname from the request Host header • %p—Inserts the URL path string from the request <p> Note To insert a question mark (?) in the relocation string, press ctrl-v before you type the question mark.</p>
[301 302]	<p>(Optional) Specifies the redirection status code returned to a client. The codes indicate the following:</p> <ul style="list-style-type: none"> • 301—The requested resource has been moved permanently. For future references to this resource, the client should use one of the returned URIs. • 302—The requested resource has been found but has been moved temporarily to another location. For future references to this resource, the client should continue to use the request URI because the resource may be moved to other locations from time to time. <p>For more information, see RFC 2616.</p>

Command Modes

Real server redirect configuration mode
Admin and user contexts

Command History

Release	Modification
A1(7)	This command was introduced.

Usage Guidelines

Enter this command only on a real server that you have configured as a redirection server.

Examples

To configure a redirection string on a real server, enter:

```
host1/Admin(config-rserver-redir)# webhost-redirect www.acme.com/common/images/*.jpg  
301 redirect port 4000
```

To remove the redirection string from a real server, enter:

```
host1/Admin(config-rserver-redir)# no webhost-redirect
```

Related Commands

This command has no related commands.