



W Commands

This chapter describes the Cisco NX-OS unicast routing commands that begin with the letter W.

weighting

To specify the initial weighting value of the Gateway Load Balancing Protocol (GLBP) gateway, use the **weighting** command. To restore the default values, use the **no** form of this command.

weighting *maximum* [**lower** *lower*] [**upper** *upper*]

no weighting *maximum* [**lower** *lower*] [**upper** *upper*]

Syntax Description		
	<i>maximum</i>	Maximum weighting value. The range is from 1 to 254. The default value is 100.
	lower <i>lower</i>	(Optional) Specifies a lower weighting value. The range is from 1 to the specified maximum weighting value. The default value is 1.
	upper <i>upper</i>	(Optional) Specifies an upper weighting value. The range is from the lower weighting to the maximum weighting value. The default value is the specified maximum weighting value.

Defaults The default gateway weighting value is 100 and the default lower weighting value is 1.

Command Modes GLBP configuration

SupportedUserRoles Network Administrator
VDC Administrator

Command History	Release	Modification
	4.0(1)	This command was introduced.

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Usage Guidelines

The weighting value of a virtual gateway is a measure of the forwarding capacity of the gateway. If a tracked interface on the router fails, the weighting value of the router may fall from the maximum value to below the lower threshold, causing the gateway to give up its role as a virtual forwarder. When the weighting value of the gateway rises above the upper threshold, the gateway can resume its active virtual forwarder role.

Use the **glbp weighting track** and **track** commands to track an interface. If the interface goes down, GLBP reduces the weighting for the gateway by the specified value.

This command does not require a license.

Examples

This example shows how to set the weighting of the gateway for GLBP group 10:

```
switch(config)# interface ethernet 1/1
switch(config-if)# glbp 10
switch(config-glbp)# weighting 110 lower 95 upper 105
```

Related Commands

Command	Description
glbp	Enters GLBP configuration mode and creates a GLBP group.
glbp weighting track	Specifies an object to be tracked that affects the weighting of a GLBP gateway.
track	Configures an interface to be tracked.

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weighting track

To specify a tracking object where the Gateway Load Balancing Protocol (GLBP) weighting changes based on the availability of the object being tracked, use the **weighting track** command. To remove the tracking, use the **no** form of this command.

weighting track *object-number* [**decrement** *value*]

no weighting track *object-number* [**decrement** *value*]

Syntax Description

<i>object-number</i>	Object number that represents an item to be tracked. Use the track command to configure the tracked object. The range is from 1 to 500.
decrement <i>value</i>	(Optional) Specifies an amount by which the GLBP weighting for the router is decremented (or incremented) when the interface goes down (or comes back up). The range is from 1 to 255. The default is 10.

Defaults

The default decrement value is 10.

Command Modes

GLBP configuration

Supported User Roles

Network Administrator
VDC Administrator

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

The **weighting track** command ties the weighting of the GLBP gateway to the availability of its interfaces. This command is useful for tracking interfaces that are not configured for GLBP; for instance, you can track the interface that connects the gateway to the IP network.

When a tracked interface goes down, the GLBP gateway weighting decreases by the configured decrement value. For each GLBP group, you can track a separate list of interfaces.

When the tracked interface comes back up, GLBP increments the weighting by the same amount.

When multiple tracked interfaces are down, the configured weighting decrements are cumulative.

Use the **track** command to configure each interface that you want to track.

This command does not require a license.

Examples

This example shows that ethernet interface 1/1 tracks two interfaces represented by the numbers 1 and 2. If interface 1 goes down, the GLBP gateway weighting decreases by the default value of 10. If interface 2 goes down, the GLBP gateway weighting decreases by 5.

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```
switch(config)# interface fastethernet 0/0
switch(config-if)# glbp 10
switch(config-glbp)# weighting track 1
switch(config-glbp)# weighting track 2 decrement 5
```

Related Commands

Command	Description
glbp	Enters GLBP configuration mode and creates a GLBP group.
weighting	Specifies the initial weighting value of a GLBP gateway.
track	Configures an interface to be tracked.

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wide-metric-only

To advertise wide metric links only, use the **wide-metric-only** configuration mode command. To remove the restriction, use the **no** form of this command.

wide-metric-only

no wide-metric-only

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Router configuration
VRF configuration

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Metric values are assigned to a link and are used to calculate the path cost from the links to the destination points. The metric styles are as follows:

- Wide metrics—Metric value ranges from 1 to 16777214.
- Narrow metrics—Metric value ranges from 1 to 63.

The **wide-metric-only** command advertises only the links that are assigned a wide metric value.

Examples The following command shows how to advertise only wide metric links:

```
switch(config)# router isis 100
switch(config-router)# vrf management
switch(config-router-vrf)# wide-metric-only
```

The following command shows how to remove the wide-metric link only restriction:

```
switch(config)# router isis 100
switch(config-router)# vrf management
switch(config-router-vrf)# no wide-metric-only
```

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Related Commands	Command	Description
	exit	Exits the current configuration mode.
	feature isis	Enables IS-IS on the router.
	no	Negates a command or sets its defaults.
	router isis	Enables IS-IS.
	vrf	Creates a VPN routing and forwarding instance (VRF) or enters the VRF configuration mode.