N Commands

This chapter describes the Cisco NX-OS Fibre Channel, virtual Fibre Channel, and Fibre Channel over Ethernet (FCoE) commands that begin with N.

npv auto-load-balance disruptive

To enable N Port Virtualization (NPV) disruptive load balancing, use the **npv auto-load-balance disruptive** command. To disable this feature, use the **no** form of this command.

npv auto-load-balance disruptive

no npv auto-load-balance disruptive

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Usage Guidelines

Disruptive load balancing can be configured only in NPV mode.

When disruptive load balancing is enabled, NPV redistributes the server interfaces across all available NP uplinks when a new NP uplink becomes operational. To move a server interface from one NP uplink to another NP uplink, NPV forces reinitialization of the server interface so that the server performs a new login to the core switch. This action causes traffic disruption on the attached end devices.

To avoid disruption of server traffic, enable this feature only after adding a new NP uplink, and then disable it again after the server interfaces have been redistributed.

Examples

This example shows how to enable disruptive load balancing:

```
switch(config)# npv auto-load-balance disruptive
```

Related Commands

Command	Description
feature npv	Enables NPV mode.
show npv status	Displays the NPV current status.

npv traffic-map

To configure an N Port Virtualization (NPV) traffic map, use the **npv traffic-map** command. To disable this feature, use the **no** form of this command.

npv traffic-map server-interface {**fc** *slot*/*port* | **vfc** *vfc-id*} **external-interface fc** *slot*/*port*

no npv traffic-map server-interface {**fc** *slot*/*port* | **vfc** *vfc-id*} **external-interface fc** *slot*/*port*

Syntax Description

server-interface	Specifies the server interface or a range of server interfaces.
fc *slot*/*port*	Specifies the slot number and port number for a native Fibre Channel interface.
vfc *vfc-id*	Specifies a virtual Fibre Channel interface.
external-interface	Specifies the NP/TNP uplink interface or a range of NP/TNP uplink interfaces that can be selected by the server interface.

Command Default

No traffic map. The switch uses automatic uplink selection to select an NP uplink for the server interface.

Command Modes

Global configuration mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Usage Guidelines

This command is only available when the switch is operating in NPV mode.

NPV traffic maps can be configured only in NPV mode.

Examples

This example shows how to create a mapping between server interface vfc1 and NP uplink fc 3/1:

```
switch(config)# npv traffic-map server-interface vfc 1 external-interface fc 3/1
```

Related Commands

Command	Description
feature npv	Enables NPV mode.
show npv status	Displays the NPV current status.