

Z Commands

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

zone clone

To clone a zone name, use the **zone clone** command.

zone clone current-zone-name new-zone-name vsan vsan-id

current-zone-name new-zone-name	Zone attribute group name. The name can be a maximum of 64 characters.
vsan vsan-id	Specifies the VSAN ID. The range is from 1 to 4093.
None	
Global configuration n	node
Release	Modification
5.0(2)N1(1)	This command was introduced.
Use the no form of the	zone name (configuration mode) command to delete the zone name.
This example shows how to create a clone of the original zone group called origZone into the clone zone group cloneZone on VSAN 45:	
<pre>switch(config)# zone</pre>	e clone origZone cloneZone vsan 45
Command	Description
show zone	Displays zone information.
	new-zone-name vsan vsan-id None Global configuration m Release 5.0(2)N1(1) Use the no form of the This example shows he group cloneZone on V switch(config)# zone Command

zone commit

To commit zoning changes to a Virtual SAN (VSAN), use the **zone commit** command. To negate the command, use the **no** form of this command.

zone commit vsan vsan-id [force]

no zone commit vsan vsan-id [force]

Syntax Description	vsan vsan-id	Specifies the VSAN ID. The range is from 1 to 4093.
	force	(Optional) Forces the commit.
Command Default	None	
Command Modes	Global configuration	on mode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines	Use the no form of originated.	the zone commit command to clear a session lock on a switch where the lock
Examples	This example show	s how to commit zoning changes to VSAN 200:
	switch(config)# z	cone commit vsan 200
Related Commands	Command	Description
	show zone	Displays zone information.
		· ·

zone compact

To compact a zone database in a Virtual SAN (VSAN), use the **zone compact** command.

zone compact vsan vsan-id

Syntax Description	vsan vsan-id	Specifies the VSAN ID. The range is from 1 to 4093.
Command Default	None	
Command Modes	Global configuration m	ode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines	If you attempt to merge the neighboring VSAN	ed in a Cisco Nexus 5500 Series switch. VSANs, the merge will fail if more than 2000 zones are present in a VSAN and cannot support more than 2000 zones. Hore than 2000 zones are present in the VSAN and one or more switches in the
	fabric cannot support m	•
Examples	This example shows ho switch(oongif)# zone	w to compact a zone database in VSAN 1: compact vsan 1
Related Commands	Command	Description
	show zone	Displays zone information.
	show zone analysis	Displays detailed analysis and statistical information about the zoning database.

zone copy

To copy the active zone set to the full zone set, use the **zone copy** command. To negate the command or revert to the factory defaults, use the **no** form of this command.

zone copy active-zoneset full-zoneset [include-auto-zones] vsan vsan-id

zone copy vsan vsan-id active-zoneset {bootflash: | ftp: | full-zoneset | scp: | sftp: | tftp: |
volatile: }

no zone copy

Syntax Description	active-zoneset	Copies from the active zone set.
	full-zoneset	Copies the active zone set to the full zone set.
	include-auto-zones	(Optional) Specifies that auto-zones be included when copying the active zone set.
	vsan vsan-id	Configures to copy the active zone set on a VSAN to the full zone set. The ID of the VSAN is from 1 to 4093.
	bootflash:	Copies the active zone set to a location in the bootflash: directory.
	ftp:	Copies the active zone set to a remote location using the File Transfer Protocol (FTP) protocol.
	scp:	Copies the active zone set to a remote location using the SCP protocol.
	sftp:	Copies the active zone set to a remote location using the SFTP protocol.
	tftp:	Copies the active zone set to a remote location using the TFTP protocol.
	volatile:	Copies the active zone set to a location in the volatile: directory.
Command Modes	EXEC mode	
Command History	Release	Modification
-	5.0(2)N1(1)	This command was introduced.
Examples	switch# zone copy ac	we to copy the active zone set to the full zone set: tive-zoneset full-zoneset vsan 1 we to copy the active zone set in VSAN 3 to a remote location using SCP:
	switch# zone copy vs	an 3 active-zoneset scp://guest@myserver/tmp/active_zoneset.txt

Related Commands	Command	Description
	show zone	Displays zone information.

zone default-zone

To define whether a default zone (assigned to nodes not assigned to a created zone) permits or denies access to all nodes in the default zone, use the **zone default-zone** command. To negate the command or revert to the factory defaults, use the **no** form of this command.

zone default-zone permit vsan vsan-id

no zone default-zone permit vsan vsan-id

Syntax Description	permit	Permits access to all nodes in the default zone.
	vsan vsan-id	Sets default zoning behavior for the specified Virtual SAN (VSAN). The ID of the VSAN is from 1 to 4093.
Command Default	All default zones are p	permitted access.
Command Modes	Global configuration r	node
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines		zone permit vsan command to define the operational values for the default zone nand applies to existing VSANs; it has no effect on VSANs that have not yet been
	-	It zone default-zone permit command to use the default values defined for the SANs. The default values are used when you initially create a VSAN and it
Examples	-	ow to permit the default zoning in VSAN 2:
	switch(coniig)# zone	e default-zone permit vsan 2
Related Commands	Command	e default-zone permit vsan 2 Description
Related Commands		

zone merge-control restrict vsan

To restrict zone database merging, use the **zone merge-control restrict vsan** command. To disable this feature, use the **no** form of this command.

zone merge-control restrict vsan vsan-id

no zone merge-control restrict vsan vsan-id

Syntax Description	vsan vsan-id	Specifies the VSAN ID. The range is from 1 to 4093.
Command Default	Disabled	
Command Modes	Global configuratio	n mode
Command History	Release	Modification
	Release 6.0	This command was introduced.
Usage Guidelines	-	set to restricted and the two databases are not identical, the merge fails and (ISLs) between the switches become isolated.
Examples	-	s how to set the zone merge control for VSAN 10 to restricted: one merge-control restrict vsan 10
Related Commands	Command	Description
	show zone	Displays zone information.

zone mode enhanced

To enable enhanced zoning for a Virtual SAN (VSAN), use the **zone mode enhanced** command. To disable this feature, use the **no** form of this command.

zone mode enhanced vsan vsan-id

no zone mode enhanced vsan vsan-id

Syntax Description	vsan vsan-id	Specifies the VSAN ID. The range is from 1 to 4093.
Command Default	Disabled	
Command Modes	Global configuration	on mode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines	working in enhance zoning mode, the ro When the zone mo starts a session, dis configuration chang	one mode enhanced command, verify that all switches in the fabric are capable of ed zoning mode. If one or more switches are not capable of working in enhanced equest to enable enhanced zoning mode is rejected. de enhanced vsan command completes successfully, the software automatically stributes the zoning database using the enhanced zoning data structures, applies the ges, and sends a release change authorization (RCA) to all switches in the fabric. All ric then enable enhanced zoning mode.
Examples	-	vs how to enable enhanced zoning mode:
Related Commands	Command	Description

zone name (configuration mode)

To create a zone, use the **zone name** command. To negate the command or revert to the factory defaults, use the **no** form of this command.

zone name zone-name vsan vsan-id member

zone name zone-name vsan vsan-id no member

no zone name zone-name vsan vsan-id

Syntax Description	zone-name	Name of the zone. The name can be a maximum of 64 characters.
	vsan vsan-id	Specifies the VSAN ID. The range is from 1 to 4093.
Command Default	None	
Command Modes	Global configuration	on mode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines	fabric to all switcher storage). zone nam from the config-zon	to zone sets. Zone sets are then activated from one switch and propagate across the es. Zones allow security by permitting and denying access between nodes (hosts and e commands are entered from the configuration mode. Configure a zone for a VSAN ne mode. switch command to retrieve the switch world wide name (sWWN). If you do not
Examples	This example show type (pWWN, fabri switch(config)# z switch(config-zon This example show	the software automatically uses the local sWWN. Is how to configure attributes for the specified zone (Zone1) based on the member to pWWN, FCID, or Fibre Channel alias) and value specified: Is none name Zone1 vsan 10 he) # member device-alias device1 Is how to configure the members for the specified zone (Zone2) based on the member
	switch(config)# z switch(config-zon	c pWWN, FCID, or Fibre Channel alias) and value specified: cone name Zone2 vsan 10 ne)# member fcalias Payroll ne)# member domain-id 2 portnumber 23

Related Commands	Command	Description
	show zone	Displays zone information.
	zone rename	Renames zones.
	zone-attribute-group name	Configures zone attribute groups.

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zone name (zone set configuration mode)

To configure a zone in a zone set, use the **zone name** command. To delete the zone from the zone set, use the **no** form of this command.

zone name *zone-name*

no zone name zone-name

Syntax Description	zone-name	Name of the zone. The name can be a maximum of 64 characters.
Command Default	None	
Command Modes	Zone set configuration	ion mode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Examples	This example shows	s how to configure a zone in a zone set:
		oneset name Sample vsan 1 eset)# zone name MyZone
	This example shows	s how to delete a zone from a zone set:
	switch(config-zond switch(config-zond	eset)# no zone name Zone2 eset)#
Related Commands	Command	Description
	show zoneset	Displays zone set information.
	zone name	Configures zones.

Configures zone set attributes.

(configuration mode)

zoneset

zone rename

To rename a zone, use the **zone rename** command.

zone rename current-name new-name vsan vsan-id

Syntax Description	current-name	Current fcalias name. The name can be a maximum of 64 characters.
	new-name	New fcalias name. The name can be a maximum of 64 characters.
	vsan vsan-id	Specifies the VSAN ID. The range is from 1 to 4093.
Command Default	None	
Command Modes	Global configuration	on mode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Examples	This example show	s how to rename a zone:
	switch# zone rena	The Report Report 10
	Switchin Zone Tend	Ime ZoneA zoneB vsan 10
Related Commands	Command	
Related Commands		Description Displays zone information.

zoneset (configuration mode)

To group zones under one zone set, use the **zoneset** command. To negate the command or revert to the factory defaults, use the **no** form of this command.

- zoneset {activate [name zoneset-name] vsan vsan-id | clone zoneset-currentName
 zoneset-cloneName vsan vsan-id | distribute full vsan vsan-id name zoneset-name vsan
 vsan-id | rename current-name new-name vsan vsan-id}
- **no zoneset** {activate [name zoneset-name] vsan vsan-id | clone zoneset-currentName zoneset-cloneName vsan vsan-id | distribute full vsan vsan-id name zoneset-name vsan vsan-id | rename current-name new-name vsan vsan-id}

Syntax Description	activate	Activates a zone set.
	name zoneset-name	(Optional) Specifies a name for a zone set. The name can be a maximum of 64 characters.
	vsan vsan-id	Activates a zone set on the specified Virtual SAN (VSAN). The range is from 1 to 4093.
	clone zoneset-currentName zoneset-cloneName	Clones a zone set from the current name to a new name. The name can be a maximum of 64 characters.
	distribute full	Enables zone set propagation.
	rename	Renames a zone set.
	current-name	Current fcalias name.
	new-name	New fcalias name.
Command Modes	Global configuration me	ode
Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.
Usage Guidelines	Zones are activated by a	activating the parent zone set.
	The zoneset distribute full vsan command distributes the operational values for the default zone to all zone sets in a VSAN. If you do not want to distribute the operation values, use the system default zone distribute full command to distribute the default values. The default values are used when you initially create a VSAN and it becomes active.	

The **zoneset distribute full vsan** command applies to existing VSANs; it has no effect on VSANs that have not yet been created.

Examples This example shows how to activate a zone set called zSet1 in VSAN 333: switch(config)# zoneset activate name zSet1 vsan 333 This example shows how to clone a zone set called zSet1 into a new zone set called zSetClone in VSAN 45: switch(config)# zoneset clone existing zSet1 zSetClone vsan 45 This example shows how to distribute the operational values for the default zone to all zone sets in VSAN 22: switch(config)# zoneset distribute full vsan 22

Related Commands	Command	Description
	system default zone distribute full	Configures default values for distribution to a zone set.
	show zoneset	Displays zone set information.

zoneset (EXEC mode)

To merge zone set databases, use the **zoneset** command.

zoneset {distribute | export | import interface {fc slot/port | san-port-channel port-number}}
vsan vsan-id

Syntax Description	distribute	Distributes the full zone set in the fabric.	
	export	Exports the zone set database to the adjacent switch on the specified Virtual SAN (VSAN). The active zone set in this switch becomes the activated zone set of the merged SAN.	
	import	Imports the zone set database to the adjacent switch on the specified interface. The active zone set in the adjacent switch becomes the activated zone set of the merged SAN.	
	interface	Configures the interface.	
	fc slot/port	Configures a Fibre Channel interface for the specified slot number and port number.	
	san-port-channel port-number	Specifies a SAN port channel interface.	
	vsan vsan-id	Merges the zone set database of a VSAN on the specified interface. The ID of the VSAN is from 1 to 4093.	
Command Default	None EXEC mode		
Command History	Release	Modification	
•••••••	5.0(2)N1(1)	This command was introduced.	
Usage Guidelines	You can also enter the zoneset import and the zoneset export commands for a range of VSANs.		
	The zoneset distribute vsan <i>vsan-id</i> command is supported in interop 2 and interop 3 modes, and not in interop 1 mode.		
Examples	This example shows how to import the zone set database from the adjacent switch connected through the VSAN 2 interface:		
	<pre>switch# zoneset import interface fc2/3 vsan 2</pre>		
	This example shows how to export the zone set database to the adjacent switch connected through VSAN 5:		
	switch# zoneset exp	ort vsan 5	

This example shows how to distribute the zone set in VSAN 333: switch# zoneset distribute vsan 333

Related Commands

Command	Description
show zone status vsan	Displays the distribution status for the specified VSAN.
show zoneset	Displays zone set information.

zoneset (EXEC mode)