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## CHAPTER 19

# V Commands

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The commands in this chapter apply to the Cisco MDS 9000 Family of multilayer directors and fabric switches. All commands are shown here in alphabetical order regardless of command mode. Please see the Command Mode section to determine the appropriate mode for each command. For more information, see the *Cisco MDS 9000 Family Configuration Guide*.

- vsan
- vrrp

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## vsan

To create multiple fabrics sharing the same physical infrastructure, to assign which ports will be in which VSAN, whether Interop mode is on or off, and whether load balancing is per exchange or src-dest ID., use the **vsan** command.

```
vsan database [ exit ] [ no ] [ vsan number interface fc slot_number | port-channel number ] [ vsan
number interop loadbalancing src-dst-id | src-dst-ox-id ] [ vsan number loadbalancing
src-dst-id | src-dst-ox-id ] [ vsan number name name interop loadbalancing src-dst-id |
src-dst-ox-id ] [ vsan number name name loadbalancing src-dst-id | src-dst-ox-id ] [ vsan
number name name suspend interop | loadbalancing ] [ vsan number suspend ]
```

### Syntax Description

<b>vsan</b>	Configure VSANs.
<b>database</b>	Enter the vsan configuration mode
<b>exit</b>	Exit from submenu
<b>no</b>	Negate a command or set its defaults
<b>vsan</b>	Configure VSAN information or membership
<i>number</i>	Enter VSAN id range 1-4094
<b>interface</b>	Add interfaces to vsan
<b>fc</b>	Fiber Channel interface
<i>slot_number</i>	Fiber Channel slot number
<b>port-channel</b>	Port Channel interface
<i>number</i>	Port Channel number
<b>interop</b>	Turn on interoperability mode
<b>loadbalancing</b>	Configure loadbalancing scheme
<b>src-dst-id</b>	Src-id/dst-id for loadbalancing
<b>src-dst-ox-id</b>	Ox-id/src-id/dst-id for loadbalancing(Default)
<b>name</b>	Assign a name to vsan
<b>suspend</b>	Suspend vsan

### Defaults

None

### Command Modes

**vsan** command available in **config t** command mode. **vsan database** configuration commands available in **vsan database** submenu.

### Usage Guidelines

None

### Examples

```
switch# config t
switch(config)# vsan database
switch(config-db)#
switch-config-db# vsan 2
```

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```
switch(config-vsan-db) #
switch(config-vsan-db) # vsan 2 name TechDoc
updated vsan 2
switch(config-vsan-db) #
switch(config-vsan-db) # vsan 2 loadbalancing src-dst-id
switch(config-vsan-db) #
switch(config-vsan-db) # vsan 2 loadbalancing src-dst-ox-id
switch(config-vsan-db) #
switch(config-vsan-db) # vsan 2 suspend
switch(config-vsan-db) #
switch(config-vsan-db) # no vsan 2 suspend
vs.-config-vsan-db#
switch(config-vsan-db) # end
switch#
```

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## vrrp

To enable VRRP, use the **vrrp** command.

```
vrrp [address | advertisement-interval | authentication | exit | preempt | priority | shutdown | track]
```

Syntax Description	Command	Description
	<b>address</b>	Add/remove an IP address to the vr
	<b>advertisement-interval</b>	Set the time interval between advertisement
	<b>authentication</b>	Select authentication method
	<b>exit</b>	Exit from this submode
	<b>no</b>	Negate a command or set its defaults
	<b>preempt</b>	Enable preemption of lower priority master
	<b>priority</b>	[1-254] configure the vr priority
	<b>shutdown</b>	Enable or disable a VR
	<b>track</b>	Track the availability of another interface

**Defaults** None

**Command Modes** Configuration

**Usage Guidelines** None.

### Examples

```
switch(config-if-vrrp)# address ?
<A.B.C.D>

switch(config-if-vrrp)# address 1.1.11.1 ?
secondary Secondary: a virtual IP address without owner
<cr> Carriage Return

switch(config-if-vrrp)# address 1.1.11.1

switch(config-if-vrrp)#
```