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## 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. See the “Command Modes” section to determine the appropriate mode for each command. For more information, refer to the *Cisco MDS 9000 Family Configuration Guide*.

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## vsan database

To create multiple fabrics sharing the same physical infrastructure, to assign which ports are 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 vsan-id interface fc slot-number | port-channel port-number]
[vsan vsan-id interop loadbalancing src-dst-id | src-dst-ox-id] [vsan vsan-id loadbalancing
src-dst-id | src-dst-ox-id] [vsan vsan-id name name interop loadbalancing src-dst-id |
src-dst-ox-id] [vsan vsan-id name name loadbalancing src-dst-id | src-dst-ox-id] [vsan
vsan-id suspend interop | loadbalancing] [vsan vsan-id suspend]
```

Syntax Description		
<b>exit</b>		Exits from submode.
<b>no</b>		Negates a command or sets its defaults.
<b>vsan</b>		Configures VSAN information or membership.
<i>vsan-id</i>		The ID of the VSAN is from 1 to 4093.
<b>interface</b>		Adds interfaces to VSAN.
<b>fc</b>		Configures Fiber Channel interface.
<i>slot_number</i>		Specifies a slot number and port number.
<b>port-channel</b>		Configures PortChannel interface.
<i>port-number</i>		Specifies PortChannel number.
<b>interop</b>		Turns on interoperability mode.
<b>loadbalancing</b>		Configures loadbalancing scheme.
<b>src-dst-id</b>		Sets src-id/dst-id for loadbalancing.
<b>src-dst-ox-id</b>		Sets ox-id/src-id/dst-id for loadbalancing (default).
<b>suspend</b>		Suspends VSAN.

**Defaults** None.

**Command Modes** Configuration mode.

**Command History** This command was introduced in Cisco MDS SAN-OS Release 1.0(2).

**Usage Guidelines** Change to the VSAN database submode to issue this command.

**Examples** The following examples show how to create multiple fabrics sharing the same physical infrastructure and to assign which ports are in which VSAN.

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

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```
switch-config-db# vsan 2
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 in configuration mode. Use the **no** form of the command to revert to the factory defaults or to negate a command.

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

```
no vrrp vrrp-number
    [address | advertisement-interval | authentication | preempt | priority | shutdown | track]
```

### Syntax Description

<b>vrrp</b> <i>vrrp-number</i>	Configures a VRRP on the selected VSAN or management interface
<b>address</b>	Adds or removes an IP address to the virtual router.
<b>advertisement-interval</b>	Sets the time interval between advertisements.
<b>authentication</b>	Sets the authentication method.
<b>preempt</b>	Enables preemption of lower priority master.
<b>priority</b>	[1-254] Configure the virtual router priority.
<b>shutdown</b>	Enables or disables a virtual router.
<b>track</b>	Tracks the availability of another interface.

### Defaults

Disabled.

### Command Modes

Configuration mode.

### Command History

This command was introduced in Cisco MDS SAN-OS Release 1.0(2).

### Usage Guidelines

Enter the Virtual Router configuration submode to access the options for this command. From the VSAN or mgmt0 (management) interface configuration submode, enter **vrrp** *number* to enter the `switch(config-if-vrrp) #` prompt. By default, a virtual router is always disabled (**shutdown**). VRRP can be configured only if this state is disabled. Be sure to configure at least one IP address before attempting to enable a VR.

Refer to the Cisco MDS 9000 Family Configuration Guide.

### Examples

The following example enables VRRP configuration.

```
switch(config-if-vrrp) # no shutdown
```

The following example disables VRRP configuration.

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

The following example configures an IP address for the selected VRRP.

```
switch# config t
```

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```
switch(config)# interface vsan 1
switch(config-if)# vrrp 250
switch(config-if-vrrp)# address 10.0.0.10
```

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