

V Commands

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virtual-domain (SDV virtual device configuration submode)

To configure a persistent virtual domain, use the **virtual-domain** command in SDV virtual device configuration submode. To remove a persistent virtual domain, use the **no** form of the command.

virtual-domain *domain-name*
no virtual-domain *domain-name*

Syntax Description

domain-name	Specifies the persistent virtual domain. The range is 1 to 239 or 0x1 to 0xef.

Command Default

No virtual domains are configured by default.

Command Modes

SDV virtual device configuration submode.

Command History

Release	Modification
3.1(2)	This command was introduced.

Usage Guidelines

None.

Examples

The following example shows how to configure a persistent virtual domain:

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# sdv virtual-device name sqa1 vsan 1
switch(config-sdv-virt-dev)# virtual-domain 1
```

Related Commands

Command	Description
sdv enable	Enables or disables SAN device virtualization.
show sdv statistics	Displays SAN device virtualization statistics.

virtual-fcid (SDV virtual device configuration submode)

To configure a persistent virtual FC ID, use the **virtual-fcid** command in SDV virtual device configuration submode. To remove a persistent virtual FC ID, use the the **no** form of the command.

virtual-fcid *fc-id*
no virtual-fcid *fc-id*

Syntax Description

fc-id	Specifies the persistent virtual FC ID. The format is *0xhhhhhh*, where *h* is a hexadecimal number.

Command Default

No virtual FC IDs are configured by default.

Command Modes

SDV virtual device configuration submode.

Command History

Release	Modification
3.1(2)	This command was introduced.

Usage Guidelines

None.

Examples

The following example shows how to configure a persistent virtual FC ID:

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# sdv virtual-device name sqa1 vsan 1
switch(config-sdv-virt-dev)# virtual-fcid 0xd66e54
```

Related Commands

Command	Description
sdv enable	Enables or disables SAN device virtualization.
show sdv statistics	Displays SAN device virtualization statistics.

vims range

To limit the Local VE IDs a hypervisor HBA driver can use, use the **vims range** command. By restricting the Local VE ID range to use a subset of bits in the CS_CTL field, it can be partitioned and shared with future Fibre Channel features.

vmis range *range***vsan** *id*

Syntax Description

range	Specifies the low range and high range values for Virtual Machine Identifier (VMID). The range is from 1 to 255.
vsan *id*	Specifies a VSAN ID for which the range is being configured.

Command Default

None

Command Modes

Configuration mode (config)

Command History

Release	Modification
8.2(1)	This command was introduced.

Usage Guidelines

There is no mechanism in the VMID protocol for the Virtual Machine Identification Server (VMIS) to notify the attached hypervisor HBA driver clients of a new VE ID range. For clients to detect a new range, they must query the VMIS again. To force the clients to query again after a range modification, the user must manually log the FCIDs out and back in to the fabric. Therefore, local clients continue to tag the VM traffic with the previous range until this occurs. This restriction applies when enabling and disabling VMID, and changing the VE ID range of a VSAN.

Examples

This example shows how to configure multiple Local VE ID ranges for use by VEMs in a VSAN:

```
switch# configure terminal
switch(config)# vmis range 3-45,51-70 vsan 1
```

Related Commands

Command	Description
feature vmis	Enables the VMID feature.
show vmis range	Displays the VMIS range.

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 *ipv4-vr-group-number* {**address** *ip-address* [**secondary**] | **advertisement-interval** *seconds* | **authentication** {**md5** *keyname* **spi** *index* | **text** *password*} | **preempt** | **priority** *value* | **shutdown** | **track** **interface** {**mgmt 0** | **vsan** *vsan-id*} **ipv6** *ipv6-vr-group-number* {**address** *ipv6-address* | **advertisement-interval** *centiseconds* | **preempt** | **priority** *value* | **shutdown** | **track** **interface** {**mgmt 0** | **vsan** *vsan-id*}}}
no vrrp *ipv4-vr-group-number* {**address** *ip-address* [**secondary**] | **advertisement-interval** *seconds* | **authentication** {**md5** *keyname* **spi** *index* | **text** *password*} | **preempt** | **priority** *value* | **shutdown** | **track** **interface** {**mgmt 0** | **vsan** *vsan-id*} **ipv6** *ipv6-vr-group-number* {**address** *ipv6-address* | **advertisement-interval** *centiseconds* | **preempt** | **priority** *value* | **shutdown** | **track** **interface** {**mgmt 0** | **vsan** *vsan-id*}}}

Syntax Description

ipv4-vr-group-number	Specifies an IPv4 virtual router group number. The range is 1 to 255.
address *ip-address*	Adds or removes an IP address to the virtual router.
secondary	(Optional) Configures a virtual IP address without an owner.
advertisement-interval *seconds*	Sets the time interval between advertisements. For IPv4, the range is 1 to 255 seconds.
authentication	Configures the authentication method.
md5 *keyname*	Sets the MD5 authentication key. Maximum length is 16 characters.
spi *index*	Sets the security parameter index. The range is 0x0 to 0xffffff.
text *password*	Sets an authentication password. Maximum length is 8 characters.
preempt	Enables preemption of lower priority master.
priority *value*	Configures the virtual router priority. The range is 1 to 254.
shutdown	Disables the VRRP configuration.
track	Tracks the availability of another interface.
interface fc *slot/port*	Adds a member using the Fibre Channel interface to a Cisco MDS 9000 Family switch.
mgmt 0	Specifies the management interface.
vsan *vsan-id*	Specifies a VSAN ID. The range is 1 to 4093.
ipv6 *ipv6-vr-group-number*	Specifies VRRP IPv6 on the interface. The range is 1 to 255.
address *ipv6-address*	Adds or removes an IPv6 address to the virtual router.

advertisement-interval *centiseconds*	Sets the time interval between advertisements. For IPv6, the range is 100 to 4095 centiseconds.

Command Default

Disabled.

Command Modes

Interface configuration mode.

Command History

Release	Modified
1.0(2)	This command was introduced.
3.0(1)	• Added the **IPv6** option. • Added the **address** and **advertisement-interval** options that are specific to IPv6.

Usage Guidelines

You 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 virtual router.

The total number of of VRRP groups that can be configured on a Gigabit Ethernet port, including main interfaces and subinterfaces, cannot exceed seven. This limitation applies to both IPv4 and IPv6 groups.



Note If you configure secondary VRRP IPv6 addresses on an IPFC VSAN interface, you must remove the secondary VRRP IPv6 addresses before downgrading to a release prior to Cisco Release 3.0(1). This is required only when you configure IPv6 addresses.

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 IPv4 address for the selected VRRP:

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

switch(config-if-vrrp)# address 10.0.0.10
```

Related Commands

Command	Description
clear vrrp	Clears all the software counters for the specified virtual router.
show vrrp	Displays VRRP configuration information.

vsan (iSCSI initiator configuration and iSLB initiator configuration)

To assign an iSCSI or iSLB initiator to a VSAN other than the default VSAN, use the **vsan** command in iSCSI initiator configuration submode or iSLB initiator configuration submode. To disable this feature, use the **no** form of the command.

vsan *vsan-id*
no vsan *vsan-id*

Syntax Description

vsan-id	Specifies a VSAN ID. The range 1 to 4093.

Command Default

None.

Command Modes

iSCSI initiator configuration submode.iSLB initiator configuration submode.

Command History

Release	Modification
1.3(2)	This command was introduced.
3.0(1)	Added iSLB initiator configuration submode.

Usage Guidelines

When you configure an iSLB initiator in a VSAN other than VSAN 1 (the default VSAN), the initiator is automatically removed from VSAN 1. For example, if you configure an iSLB initiator in VSAN 2 and you also want it to be present in VSAN 1, you must explicitly configure the initiator in VSAN 1.

Examples

The following example assigns an iSCSI initiator to a VSAN other than the default VSAN:

```
switch# config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
switch(config)# iscsi initiator name iqn.1987-02.com.cisco.initiator
switch(config-iscsi-init)# vsan 40
switch(config-iscsi-init)#
```

The following example assigns an iSLB initiator to a VSAN other than the default VSAN:

```
switch# config t
switch(config)# islb initiator ip-address 100.10.10.10
```

ips-hac2(config-islb-init)# vsan ?

<1-4093> Enter VSAN

ips-hac2(config-islb-init)# vsan 10

The following example removes the iSLB initiator:

```
switch (config-islb-init)# no
 vsan 10
```

Related Commands

Command	Description
iscsi initiator name	Assigns an iSCSI name and changes to iSCSI initiator configuration submode.
show islb initiator	Displays iSLB initiator information.
show iscsi initiator	Displays information about a configured iSCSI initiator.
show iscsi initiator configured	Displays iSCSI initiator information for the configured iSCSI initiator.
show iscsi initiator detail	Displays detailed iSCSI initiator information.
show iscsi initiator summary	Displays iSCSI initiator summary information.
show islb initiator	Displays iSLB initiator information.
show islb initiator configured	Displays iSLB initiator information for the configured iSLB initiator.
show islb initiator detail	Displays detailed iSLB initiator information.
show islb initiator summary	Displays iSLB initiator summary information.

vsan database

To create multiple fabrics sharing the same physical infrastructure, assign ports to VSANs, turn on or off interop mode, load balance either per originator exchange or by source-destination ID, and in order to be able to define these VSANs and specify the various VSAN attributes, use the vsan database command in the vsan database submode.

Syntax Description

This command has no arguments or keywords.

Command Default

None.

Command Modes

Configuration mode.

Command History

Release	Modification
1.2(2)	This command was introduced.

Usage Guidelines

None.

Examples

The following examples show how to create multiple fabrics sharing the same physical infrastructure and how to assign ports to VSANs:

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

Related Commands

Command	Description
vsan wwn	Configures a WWN for a suspended VSAN that has interop mode 4 enabled.

vsan interface

To add interfaces to VSAN, use the **vsan interface** command. To delete a configured role, use the **no** form of this command.

vsan *vsan-id* **interface** {**fc** *slot/port* | **fcip** *fcip-id* | **iscsi** *slot/port* | **port-channel** *portchannel-number* | **vfc** *ID/slot* | **vfc-port-channel** *ID* }
no vsan *vsan-id* **interface** {**fc** *slot/port* | **fcip** *fcip-id* | **iscsi** *slot/port* | **port-channel** *portchannel-number* | **vfc** *ID/slot* | **vfc-port-channel** *ID* }

Syntax Description

vsan *vsan-id*	Specifies the VSAN ID. The range is 1 to 4093.
interface fc *slot/port*	(Optional) Specifies the Fibre Channel interface slot and port number.
fcip *fcip-id*	(Optional) Specifies the FCIP interface.
iscsi *slot/port*	(Optional) Configures the iSCSI interface slot or port.
port-channel *portchannel-number*	(Optional) Specifies the port channel number. The range is 1 to 256.
vfc *ID/slot*	(Optional) Specifies the virtual Fibre Channel interface ID or slot. The range is 1 to 8192.
vfc-port-channel *ID*	(Optional) Specifies the virtual Fibre Channel port channel virtual interface ID. The range is 513 to 4096.

Command Default

All interfaces are in VSAN 1 by default.

Command Modes

Configuration mode—vsan database submode.

Command History

Release	Modification
1.2(1)	This command was introduced.

Usage Guidelines

You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples

The following example show how to add interfaces to VSAN:

```
switch# configure
switch(config)# vsan database
switch(config-vsan-db)# vsan 2
switch(config-vsan-db)# vsan 2 interface iscsi 2/1
switch(config-vsan-db)# end
switch#
```

vsan interop

To specify the VSAN interoperability mode value, use the **vsan interop** command. Use the **no** form of this command to delete a configured role.

vsan vsan-id interop [*mode*] [**loadbalancing** {**src-dst-id** | **src-dst-ox-id**}]
no vsan vsan-id interop [*mode*] [**loadbalancing** {**src-dst-id** | **src-dst-ox-id**}]

Syntax Description

vsan *vsan-id*	Specifies the VSAN ID. The range is 1 to 4093.
interop	Turns on interoperability mode.
mode	Specifies the interop mode. The range is 1 to 4.
loadbalancing	Configures load-balancing scheme.
src-dst-id	Sets src-id/dst-id for load-balancing.
src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).

Command Default

interop mode none and src-dst-ox-id.

Command Modes

Configuration mode—vsan database submode.

Command History

Release	Modification
1.2(1)	This command was introduced.

Usage Guidelines

You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples

The following example shows how to specify the Interoperability mode value for Src-id/dst-id loadbalancing:

```
switch# config terminal
switch(config)# vsan database
switch(config-vsan-db)# vsan 2
switch(config-vsan-db)# vsan 1 interop 1 loadbalancing src-dst-id
vsan 1:interoperability mode 1 allowed domain list [97-127] does not include all
 assigned and configured domains or conflicts with existing allowed domain lists
switch(config-vsan-db)#
```

vsan loadbalancing

To configure the VSAN loadbalancing scheme, use the **vsan loadbalancing** command. Use the **no** form of this command to delete a configured role.

vsan vsan-id loadbalancing {**src-dst-id** | **src-dst-ox-id**}
no vsan vsan-id loadbalancing {**src-dst-id** | **src-dst-ox-id**}

Syntax Description

vsan *vsan-id*	Specifies the VSAN ID. The range is 1 to 4093.
loadbalancing	Configures load-balancing scheme.
src-dst-id	Sets src-id/dst-id for load-balancing.
src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).

Command Default

. src-dst-ox-id

Command Modes

Configuration mode—vsan database submode.

Command History

Release	Modification
1.2(1)	This command was introduced.

Usage Guidelines

You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples

The following example shows how to configure loadbalancing scheme for a Src-id/dst-id loadbalancing:

```
switch# config terminal
switch(config)# vsan database
switch(config-vsan-db)# vsan 2 loadbalancing src-dst-ox-id
switch(config-vsan-db)#
```

vsan name

To assign a name to a VSAN, use the **vsan name** command. Use the **no** form of this command to delete a configured role.

vsan *vsan-id* **name** *name* **interop** [*mode*] **loadbalancing** {*src-dst-idsrc-dst-ox-id*}
loadbalancing {*src-dst-idsrc-dst-ox-id*}
suspend [**interop** [*mode*] [**loadbalancing** {*src-dst-idsrc-dst-ox-id*}]]
no vsan *vsan-id* **name** *name* **interop** [*mode*] **loadbalancing** {*src-dst-idsrc-dst-ox-id*}
loadbalancing {*src-dst-idsrc-dst-ox-id*}
suspend [**interop** [*mode*] [**loadbalancing** {*src-dst-idsrc-dst-ox-id*}]]

Syntax Description

vsan *vsan-id*	Specifies the VSAN ID. The range is 1 to 4093.
name *name*	Assigns a name to the VSAN. Maximum length is 32 characters.
interop	Turns on interoperability mode.
mode	Specifies the interop mode. The range is 1 to 4.
loadbalancing	Configures load-balancing scheme.
src-dst-id	Sets src-id/dst-id for load-balancing.
src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).

Command Default

no name, no suspend, interop mode none and src-dst-ox-id.

Command Modes

Configuration mode—vsan database submode.

Command History

Release	Modification
1.2(1)	This command was introduced.

Usage Guidelines

You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples

The following example shows how to assign a name to a VSAN:

```
switch# config terminal
switch(config)# vsan database
switch(config-vsan-db)# vsan 2 name vname
switch(config-vsan-db)#
```

vsan policy deny

To configure a VSAN-based role, use the **vsan policy deny** command in configuration mode. Use the **no** form of this command to delete a configured role.

vsan policy deny permit vsan *vsan-id*
no vsan policy deny permit vsan *vsan-id*

Syntax Description

permit	Remove commands from the role.
vsan *vsan-id*	Specifies the VSAN ID. The range is 1 to 4093.

Command Default

Permit.

Command Modes

Configuration mode—role name submode.

Command History

Release	Modification
1.2(1)	This command was introduced.

Usage Guidelines

You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples

The following example places you in sangroup role submode:

```
switch# config t
switch(config)# role name sangroup
switch(config-role)#
```

The following example changes the VSAN policy of this role to deny and places you in a submode where VSANs can be selectively permitted:

```
switch(config)# vsan policy deny
switch(config-role-vsan)
```

The following example deletes the configured VSAN role policy and reverts to the factory default (permit):

```
switch(config-role)# no vsan policy deny
```

The following example permits this role to perform the allowed commands for VSANs 10 through 30:

```
switch(config-role)# permit vsan 10-30
```

The following example removes the permission for this role to perform commands for VSAN 15 to 20:

```
switch(config-role-vsan)# no permit vsan 15-20
```

vsan suspend

To suspend a VSAN, use the **vsan suspend** command. Use the **no** form of this command to delete a configured role.

vsan vsan-id suspend [**interop** [**mode**] [**loadbalancing** {**src-dst-id** | **src-dst-ox-id**}] **src-dst-ox-id**]
no vsan vsan-id suspend [**interop** [**mode**] [**loadbalancing** {**src-dst-id** | **src-dst-ox-id**}] **src-dst-ox-id**]

Syntax Description

vsan *vsan-id*	Specifies the VSAN ID. The range is 1 to 4093.
suspend	Suspends the VSAN.
interop	Turns on interoperability mode.
mode	Specifies the interop mode. The range is 1 to 4.
loadbalancing	Configures load-balancing scheme.
src-dst-id	Sets src-id/dst-id for load-balancing.
src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).

Command Default

interop mode none and src-dst-ox-id..

Command Modes

Configuration mode—vsan database submode.

Command History

Release	Modification
1.2(1)	This command was introduced.

Usage Guidelines

You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Danger vsan suspend command done on an active VSAN is a very invasive command that requires a lot of supervisor processing. The supervisor is responsible for logging each device out, deprogramming ACLs, removing FCNS entries, generating RSCNs, etc. Because of this, care should be taken when doing this when there are many devices logged into the switch in the VSAN. After suspending the VSAN a minimum of 5 minutes should elapse prior to doing an no vsan suspend to ensure that all of the prior processing has completed.

Examples

The following example shows how to suspend a VSAN and enable interop mode 4:

```
switch# config t
switch(config)# vsan database
switch(config-vsan-db)# vsan 100 suspend
```

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

vsan wwn fcid

To allocate an FCID to a WWN in the persistent FCID database, use the **vsan wwn fcid** command. To remove this allocation, use the **no** form of this command.

vsan *vID* **wwn** *wID* **fcid** *fID* [**area**] [**dynamic**]
no vsan *vID* **wwn** *wID* **fcid** *fID* [**area**] [**dynamic**]

Syntax Description

vsan *vID*	Specifies the VSAN ID. Range is 1–4093.
wwn *wID*	Specifies the MAC address. The address is in the format hh:hh:hh:hh:hh:hh:hh:hh.
fcid *fID*	Specifies the persistent FCID. Range is 0x0-0xffffff.
area	(Optional) Specifies to reserve all non xxxx00 FCIDs in the specified domain and area from being allocated to devices.
dynamic	(Optional) Marks the entry as a dynamic type.

Command Default

A unique FCID is allocated to a WWN the first time it FLOGIs in to the switch.

Command Modes

FCID database configuration submode (config-fcid-db)

Command History

Release	Modification
1.1(1)	This command was introduced.

Usage Guidelines

To assist in predictability, the MDS switch has the capability to always assign the same FCID to the same WWN of a device that logs in to the fabric. This allows devices to be zoned by FCID, for example. When the persistent FCID database is enabled, a **vsan** *vID* **wwn** *wID* **fcid** *fID* configuration line is automatically added whenever a device FLOGIs in to the switch. There may be occasions where this configuration needs to be manually manipulated, for example when an HBA is replaced then the old WWN must be removed from the FCID and the new HBA WWN assigned to the same FCID.

To allow only a single FCID to be allocated in a particular domain and area, set the last 2 digits of the **fcid** argument as *00* and use the **area** option. This causes the *xxxx00* FCID from the domain and area to be allocated to the WWN and the 255 remaining FCIDs in the area to be unavailable.

The **dynamic** keyword marks an entry as purgeable by the **purge fcdomain fcid** command. If an entry is static (not marked as dynamic) then it will be ignored by the **purge fcdomain fcid** command. Entries automatically created by the system in the FCID persistent database are marked as dynamic.

To avoid assigning a duplicate FCID, use the **show fcdomain address-allocation vsan** command to display the FCIDs that are in use.

Examples

The following example displays how to configure the WWN of a device with an FCID in VSAN 10 as a static entry:

```
switch# configure
Enter configuration commands, one per line.  End with CNTL/Z.
switch(config)# fcdomain fcid database
switch(config-fcid-db)# vsan 10 wwn 33:e8:00:05:30:00:16:df fcid 0x070128
```

The following example displays how to configure the WWN of a device with an FCID in VSAN 10 as a dynamic type entry:

```
switch# configure
Enter configuration commands, one per line.  End with CNTL/Z.
switch(config)# fcdomain fcid database
switch(config-fcid-db)# vsan 10 wwn 33:e8:00:05:30:00:16:df fcid 0x070128 dynamic
```

Related Commands

Command	Description
fcdomain fcid persistent	Enables the persistent FCID feature.
purge fcdomain fcid	Purges unused dynamic entries from the persistent FCID database.
show fcdomain	Displays the Fibre Channel domain information.
show fcdomain fcid persistent	Displays the persistent FCID database.