



V Commands

This chapter describes the Cisco NX-OS Multiprotocol Label Switching commands that begin with V.

vpn

To configure a virtual private network (VPN) ID on a Virtual Forwarding Interface (VFI) context, use the **vpn** command.

```
vpn vpn-id
```

Syntax Description

| | |
|---------------|--|
| <i>vpn-id</i> | VPN ID. The range is from 1 to 4294967295. |
|---------------|--|

Defaults

None

Command Modes

config-l2vpn-vfi mode

Supported User Roles

network-admin
vdc-admin

Command History

| Release | Modification |
|---------|------------------------------|
| 6.2.2 | This command was introduced. |

Usage Guidelines

This command requires the MPLS Services license.

Examples

This example shows how to configure a VPN ID on a VFI context:

```
switch# configure terminal
switch# configure terminal
switch(config)# l2vpn vfi context vpls80
switch(config-l2vpn-vfi)# description VFIforDualHome
switch(config-l2vpn-vfi)# vpn 10
switch(config-l2vpn-vfi)#
```

Related Commands

| Command | Description |
|--------------------------|---|
| bridge domain | Enters bridge-domain configuration mode and configures a bridge domain. |
| l2vpn vfi context | Establishes a Layer 2 VPN (L2VPN) virtual forwarding interface (VFI) between two or more separate networks. |

vrf

To display information for a virtual routing and forwarding (VRF) instance, use the **vrf** command. To return to the default setting, use the **no** form of this command.

vrf *vrf-name*

no vrf *vrf-name*

| | | |
|---------------------------|-----------------|--|
| Syntax Description | <i>vrf-name</i> | VRF name that is any case-sensitive alphanumeric string up to 32 characters. |
|---------------------------|-----------------|--|

| | |
|-----------------|------|
| Defaults | None |
|-----------------|------|

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|----------------------|-------------------------------|
| Command Modes | Router VRF configuration mode |
|----------------------|-------------------------------|

| | |
|---------------------------|----------------------------|
| SupportedUserRoles | network-admin vdc-admin |
|---------------------------|----------------------------|

| Command History | Release | Modification |
|------------------------|----------------|------------------------------|
| | 5.2(1) | This command was introduced. |

| | |
|-------------------------|--|
| Usage Guidelines | This command requires the MPLS Services license. |
|-------------------------|--|

Examples This example shows how to display information about each VRF instance:

```
switch# configure t
switch(config)# feature ospf
switch(config)# Test1
switch(config-router)# timers throttle lsa 0 5000 5000
switch(config-router)# timers lsa-arrival 30
switch(config-router)# vrf vpn1
switch(config-router-vrf)#
```

| Related Commands | Command | Description |
|-------------------------|-------------------------------|--|
| | mpls ldp configuration | Configures the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP). |

vrf context

To create a new virtual routing and forwarding (VRF) instance, use the **vrf context** command. To return to the default setting, use the **no** form of this command.

vrf context *vrf-name*

no vrf context *vrf-name*

| | | |
|---------------------------|-----------------|---|
| Syntax Description | <i>vrf-name</i> | VRF name that can be any case-sensitive, alphanumeric string up to 20 characters. |
|---------------------------|-----------------|---|

| | |
|-----------------|------|
| Defaults | None |
|-----------------|------|

| | |
|----------------------|---------------------------|
| Command Modes | Global configuration mode |
|----------------------|---------------------------|

| | |
|-----------------------------|----------------------------|
| Supported User Roles | network-admin vdc-admin |
|-----------------------------|----------------------------|

| Command History | Release | Modification |
|------------------------|----------------|------------------------------|
| | 5.2(1) | This command was introduced. |

| | |
|-------------------------|--|
| Usage Guidelines | This command requires the MPLS Services license. |
|-------------------------|--|

Examples This example shows how to create a new VRF instance:

```
switch# configure terminal
switch(config)# vrf context blue
switch(config-vrf)#
```

| Related Commands | Command | Description |
|-------------------------|-------------------------------|--|
| | mpls ldp configuration | Configures the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP). |

vrf member

To set virtual routing and forwarding (VRF) membership on an interface, use the **vrf member** command. To return to the default setting, use the **no** form of this command.

vrf member *vrf-name*

no vrf member *vrf-name*

| | | |
|-----------------------------|---|--|
| Syntax Description | <i>vrf-name</i> | VRF name. The maximum size is 32 alphanumeric characters. |
| Defaults | None | |
| Command Modes | Interface configuration mode | |
| Supported User Roles | network-admin vdc-admin | |
| Command History | Release | Modification |
| | 5.2(1) | This command was introduced. |
| Usage Guidelines | This command requires the MPLS Services license. | |
| Examples | This example shows how to set VRF membership for an interface: <pre>switch# configure terminal switch(config)# interface ethernet 5/0 switch(config-if)# vrf member vpn1 switch(config-if)#</pre> | |
| Related Commands | Command | Description |
| | mpls ldp configuration | Configures the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP). |

