



## V Commands

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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.
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## 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
<b>bridge domain</b>	Enters bridge-domain configuration mode and configures a bridge domain.
<b>l2vpn vfi context</b>	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*

<b>Syntax Description</b>	<i>vrf-name</i>	VRF name that is any case-sensitive alphanumeric string up to 32 characters.
<b>Defaults</b>	None	
<b>Command Modes</b>	Router VRF configuration mode	
<b>Supported User Roles</b>	network-admin vdc-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	5.2(1)	This command was introduced.
<b>Usage Guidelines</b>	This command requires the MPLS Services license.	
<b>Examples</b>	This example shows how to display information about each VRF instance:  <pre>switch# <b>configure t</b> switch(config)# <b>feature ospf</b> switch(config)# <b>Test1</b> switch(config-router)# <b>timers throttle lsa 0 5000 5000</b> switch(config-router)# <b>timers lsa-arrival 30</b> switch(config-router)# <b>vrf vpn1</b> switch(config-router-vrf)#</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>mpls ldp configuration</b>	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*

<b>Syntax Description</b>	<i>vrf-name</i>	VRF name that can be any case-sensitive, alphanumeric string up to 20 characters.
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<b>Defaults</b>	None
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<b>Command Modes</b>	Global configuration mode
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<b>Supported User Roles</b>	network-admin vdc-admin
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	5.2(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the MPLS Services license.
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**Examples** This example shows how to create a new VRF instance:

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

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>mpls ldp configuration</b>	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*

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

