



**FiberstoreOS**  
**VPN Configuration Guide**

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# 1 Configuring VRF

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## 1.1 Overview

VPN is defined as a collection of sites sharing a common routing table. A customer site is connected to the service provider network by one or more interfaces, where the service provider associates each interface with a VPN routing table. A VPN routing table is called a VPN routing and forwarding (VRF) table. Beginning in privileged EXEC mode, follow these steps to configure one or more VRFs.

## 1.2 Configuration

Switch(config)# ip vrf vpn1	Name the VRF, and enter VRF configuration mode
Switch(config-vrf)# rd 100:1	Create a VRF table by specifying a route distinguisher. Enter either an AS number and an arbitrary number (xxx:y) or an IP address and an arbitrary number (A.B.C.D:y)
Switch(config-vrf)# router-id 1.1.1.1	Set router id
Switch(config-vrf)# route-target both 100:1	Create a list of import, export, or import and export route target communities for the specified VRF. Enter either an AS system number and an arbitrary number (xxx:y) or an IP address and an arbitrary number (A.B.C.D:y)
Switch(config-vrf)# import map route-map	(Optional) Associate a route map with the VRF
Switch(config-vrf)# interface eth-0-1	Specify the Layer 3 interface to be associated with the VRF, and enter interface configuration mode.
Switch(config-if)# no shutdown	Set interface up
Switch(config-if)# no switchport	Change the port to L3 port
Switch(config-if)# ip vrf forwarding vpn1	Associate a VPN routing and forwarding(VRF)instance with an Layer3 interface
Switch(config-if)# ip add 1.1.1.1/24	Set ip address
Switch(config-if)# end	Quit the interface mode
Switch # show ip vrf vpn1	Verify the configuration. Display information about the configured VRFs

## 1.3 Validation

The result of show information about the configured VRFs

```
Switch# show ip vrf  
VRF vpn1, FIB ID 1  
Router ID: 1.1.1.1 (config)  
Interfaces:  
    eth-0-1
```

```
DUT1# show ip vrf interfaces vpn1  
Interface          IP-Address      VRF           Protocol  
eth-0-1            1.1.1.1        vpn1          up
```

```
DUT1# show ip vrf bgp brief  
Name              Default RD      Interfaces  
vpn1             100:1           eth-0-1
```

```
DUT1# show ip vrf bgp detail  
VRF vpn1; default RD 100:1  
Interfaces:  
    eth-0-1  
VRF Table ID = 1  
Export VPN route-target communities  
    RT:100:1  
Import VPN route-target communities  
    RT:100:1  
import-map: route-map  
No export route-map
```