FiberstoreOS
VPN Configuration Guide
1 Configuring VRF

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1 Configuring VRF

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

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch(config)# ip vrf vpn1</td>
<td>Name the VRF, and enter VRF configuration mode</td>
</tr>
<tr>
<td>Switch(config-vrf)# rd 100:1</td>
<td>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)</td>
</tr>
<tr>
<td>Switch(config-vrf)# router-id 1.1.1.1</td>
<td>Set router id</td>
</tr>
<tr>
<td>Switch(config-vrf)# route-target both 100:1</td>
<td>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)</td>
</tr>
<tr>
<td>Switch(config-vrf)# import map route-map</td>
<td>(Optional) Associate a route map with the VRF</td>
</tr>
<tr>
<td>Switch(config-vrf)# interface eth-0-1</td>
<td>Specify the Layer 3 interface (except vlan interface) to be associated with the VRF, and enter interface configuration mode. The interface can be a routed port but not an SVI</td>
</tr>
<tr>
<td>Switch(config-if)# no shutdown</td>
<td>Set interface up</td>
</tr>
<tr>
<td>Switch(config-if)# no switchport</td>
<td>Change the port to L3 port</td>
</tr>
</tbody>
</table>
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/v24  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