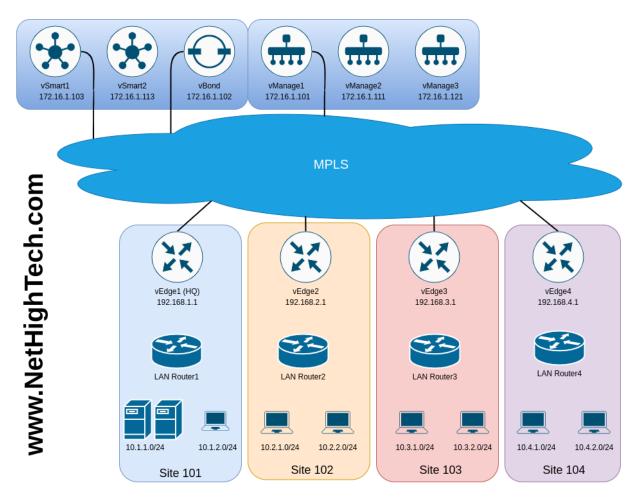Cisco SD-WAN Class
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Scenario Name: Single Home - Overlay Configuration

# Cisco SD-WAN LAB-2
# Trainer: Behrouz Soleimani

www.NetHighTech.com



vSmart1
172.16.1.103

vSmart2
172.16.1.113

vBond
172.16.1.102

vManage1
172.16.1.101

vManage2
172.16.1.111

vManage3
172.16.1.121

MPLS

vEdge1 (HQ)
192.168.1.1

vEdge2
192.168.2.1

vEdge3
192.168.3.1

vEdge4
192.168.4.1

LAN Router1

LAN Router2

LAN Router3

LAN Router4

10.1.1.0/24    10.1.2.0/24

10.2.1.0/24    10.2.2.0/24

10.3.1.0/24    10.3.2.0/24

10.4.1.0/24    10.4.2.0/24

Site 101

Site 102

Site 103

Site 104

vEdge1 Configuration:

```
vEdge1(config)# vpn 10
vEdge1(config-vpn-10)# ip route 10.1.0.0/16 192.168.11.2
vEdge1(config-vpn-10)# interface ge0/2
vEdge1(config-interface-ge0/2)# ip address 192.168.11.1/24
vEdge1(config-interface-ge0/2)# no shutdown
vEdge1(config-interface-ge0/2)# omp
vEdge1(config-omp)# advertise connected
vEdge1(config-omp)# advertise static
vEdge1(config-omp)# exit
vEdge1(config-vpn-10)# exit

vEdge1(config)# vpn 20
vEdge1(config-vpn-20)# interface ge0/3
vEdge1(config-interface-ge0/3)# ip address 192.168.12.1/24
vEdge1(config-interface-ge0/3)# no shutdown
vEdge1(config-interface-ge0/3)# omp
vEdge1(config-omp)# advertise connected
vEdge1(config-omp)# exit
vEdge1(config-vpn-20)# exit

vEdge1(config)# vpn 30
vEdge1(config-vpn-30)# interface ge0/4
vEdge1(config-interface-ge0/4)# ip address 192.168.13.1/24
vEdge1(config-interface-ge0/4)# no shutdown
vEdge1(config-interface-ge0/4)# omp
vEdge1(config-omp)# advertise connected
vEdge1(config-omp)# commit
Commit complete.
```

vEdge2 Configuration:

```
vEdge2(config)# vpn 10
vEdge2(config-vpn-10)# ip route 10.2.0.0/16 192.168.21.2
vEdge2(config-vpn-10)# interface ge0/2
vEdge2(config-interface-ge0/2)# ip address 192.168.21.1/24
vEdge2(config-interface-ge0/2)# no shutdown
vEdge2(config-interface-ge0/2)# omp
vEdge2(config-omp)# advertise connected
vEdge2(config-omp)# advertise static
vEdge2(config-omp)# exit
vEdge2(config-vpn-10)# exit

vEdge2(config)# vpn 20
vEdge2(config-vpn-20)# interface ge0/3
vEdge2(config-interface-ge0/3)# ip address 192.168.22.1/24
vEdge2(config-interface-ge0/3)# no shutdown
vEdge2(config-interface-ge0/3)# omp
vEdge2(config-omp)# advertise connected
vEdge2(config-omp)# exit
vEdge2(config-vpn-20)# exit

vEdge2(config)# vpn 30
vEdge2(config-vpn-30)# interface ge0/4
vEdge2(config-interface-ge0/4)# ip address 192.168.23.1/24
vEdge2(config-interface-ge0/4)# no shutdown
vEdge2(config-interface-ge0/4)# omp
vEdge2(config-omp)# advertise connected
vEdge2(config-omp)# commit
Commit complete.
```

vEdge3 Configuration:

```
vEdge3(config)# vpn 10
vEdge3(config-vpn-10)# ip route 10.3.0.0/16 192.168.31.2
vEdge3(config-vpn-10)# interface ge0/2
vEdge3(config-interface-ge0/2)# ip address 192.168.31.1/24
vEdge3(config-interface-ge0/2)# no shutdown
vEdge3(config-interface-ge0/2)# omp
vEdge3(config-omp)# advertise connected
vEdge3(config-omp)# advertise static
vEdge3(config-omp)# exit
vEdge3(config-vpn-10)# exit

vEdge3(config)# vpn 20
vEdge3(config-vpn-20)# interface ge0/3
vEdge3(config-interface-ge0/3)# ip address 192.168.32.1/24
vEdge3(config-interface-ge0/3)# no shutdown
vEdge3(config-interface-ge0/3)# omp
vEdge3(config-omp)# advertise connected
vEdge3(config-omp)# exit
vEdge3(config-vpn-20)# exit

vEdge3(config)# vpn 30
vEdge3(config-vpn-30)# interface ge0/4
vEdge3(config-interface-ge0/4)# ip address 192.168.33.1/24
vEdge3(config-interface-ge0/4)# no shutdown
vEdge3(config-interface-ge0/4)# omp
vEdge3(config-omp)# advertise connected
vEdge3(config-omp)# commit
Commit complete.
```