

Cisco

How to Configure a Cisco Layer 3 switch-Inter VLAN Routing

[Cisco L2 Switch](#) (same configuration for both switches)

! Create VLANs 10 and 20 in the switch database

Layer2-Switch# configure terminal

Layer2-Switch(config)# vlan 10

Layer2-Switch(config-vlan)# end

Layer2-Switch(config)# vlan 20

Layer2-Switch(config-vlan)# end

! Assign Port Fe0/1 in VLAN 10

Layer2-Switch(config)# interface fastethernet0/1

Layer2-Switch(config-if)# switchport mode access

Layer2-Switch(config-if)# switchport access vlan 10

Layer2-Switch(config-if)# end

! Assign Port Fe0/2 in VLAN 20

Layer2-Switch(config)# interface fastethernet0/2

Layer2-Switch(config-if)# switchport mode access

Layer2-Switch(config-if)# switchport access vlan 20

Layer2-Switch(config-if)# end

! Create Trunk Port Fe0/24

Layer2-Switch(config)# interface fastethernet0/24

Layer2-Switch(config-if)# switchport mode trunk

Layer2-Switch(config-if)# switchport trunk encapsulation dot1q

Layer2-Switch(config-if)# end

[Cisco Layer 3 Switch](#)

! Enable Layer 3 routing

Layer3-Switch(config) # ip routing

! Create VLANs 10 and 20 in the switch database

Layer3-Switch# configure terminal

Layer3-Switch(config)# vlan 10

Layer3-Switch(config-vlan)# end

```
Layer3-Switch(config)# vlan 20
Layer3-Switch(config-vlan)# end
```

! Configure a Routed Port for connecting to the ASA firewall

```
Layer3-Switch(config)# interface FastEthernet0/48
Layer3-Switch(config-if)# description To Internet Firewall
Layer3-Switch(config-if)# no switchport
Layer3-Switch(config-if)# ip address 10.0.0.1 255.255.255.252
```

! Create Trunk Ports Fe0/47 Fe0/46

```
Layer3-Switch(config)# interface fastethernet0/47
Layer3-Switch(config-if)# switchport mode trunk
Layer3-Switch(config-if)# switchport trunk encapsulation dot1q
Layer3-Switch(config-if)# end
```

```
Layer3-Switch(config)# interface fastethernet0/46
```

```
Layer3-Switch(config-if)# switchport mode trunk
Layer3-Switch(config-if)# switchport trunk encapsulation dot1q
Layer3-Switch(config-if)# end
```

! Configure Switch Vlan Interfaces (SVI)

```
Layer3-Switch(config)# interface vlan10
Layer3-Switch(config-if)# ip address 10.10.10.10 255.255.255.0
Layer3-Switch(config-if)# no shut
```

```
Layer3-Switch(config)# interface vlan20
```

```
Layer3-Switch(config-if)# ip address 10.20.20.20 255.255.255.0
Layer3-Switch(config-if)# no shut
```

! Configure default route towards ASA firewall

```
Layer3-Switch(config)# ip route 0.0.0.0 0.0.0.0 10.0.0.2
```

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