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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

Bijgevoegde bestanden::

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