

Ali Aydemir CCNP RS v2.0 SWITCH LAB-2 Configs

//LAB-2.1 Inter VLAN Routing Configs

##SW01##

```
conf t
!
interface Vlan10
no shut
ip address 192.168.10.1 255.255.255.0
!
interface Vlan20
no shut
ip address 192.168.20.1 255.255.255.0
!
interface Vlan30
no shut
ip address 192.168.30.1 255.255.255.0
!
interface Vlan40
no shut
ip address 192.168.40.1 255.255.255.0
!
int vlan 24
no shut
ip address 192.168.24.11 255.255.255.0
!
ip route 192.168.136.0 255.255.255.0 192.168.24.254
ip route 192.168.45.0 255.255.255.0 192.168.24.254
!
end
```

##SW02##

```
conf t
!
interface Vlan20
no shut
ip address 192.168.20.2 255.255.255.0
!
ip route 0.0.0.0 0.0.0.0 192.168.20.1
!
interface Ethernet0/1
no switchport access vlan 24
switchport trunk encapsulation dot1q
switchport mode trunk
!
end
```

##SW03##

```
conf t
!
interface Vlan30
no shut
ip address 192.168.30.3 255.255.255.0
!
ip route 0.0.0.0 0.0.0.0 192.168.30.1
!
end
```

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##SW04##

```
conf t
!
interface Vlan40
no shut
ip address 192.168.40.4 255.255.255.0
!
ip route 0.0.0.0 0.0.0.0 192.168.40.1
!
end
```

##R01##

```
conf t

int e 0/0
no shut
ip add 192.168.136.1 255.255.255.0

int e 0/1
no shut
ip add 192.168.156.1 255.255.255.0

ip route 0.0.0.0 0.0.0.0 192.168.136.254

end
```

##R02##

```
conf t

interface Ethernet0/0
no shut
!
interface Ethernet0/0.24
encapsulation dot1Q 24
ip address 192.168.24.254 255.255.255.0
!
interface Ethernet0/0.45
encapsulation dot1Q 45
ip address 192.168.45.254 255.255.255.0
!
interface Ethernet0/0.136
encapsulation dot1Q 136
ip address 192.168.136.254 255.255.255.0
!
interface Ethernet0/0.156
encapsulation dot1Q 156
ip address 192.168.156.254 255.255.255.0
!
!
ip route 192.168.40.0 255.255.255.0 192.168.24.11
!
end
```

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##R03##

```
conf t

int e 0/0
no shut
ip add 192.168.136.3 255.255.255.0
!
ip route 0.0.0.0 0.0.0.0 192.168.136.254
!

end
```

##R04##

```
conf t

int e 0/1
no shut
ip add 192.168.45.4 255.255.255.0

int e 0/0
no shut
ip add 192.168.24.4 255.255.255.0

ip route 0.0.0.0 0.0.0.0 192.168.45.254

end
```

##R05##

```
conf t

int e 0/1
no shut
ip add 192.168.45.5 255.255.255.0

int e 0/0
no shut
ip add 192.168.156.5 255.255.255.0

ip route 0.0.0.0 0.0.0.0 192.168.156.254

end
```

##R06##

```
conf t

int e 0/0
no shut
ip add 192.168.136.6 255.255.255.0

int e 0/1
no shut
ip add 192.168.156.6 255.255.255.0

ip route 0.0.0.0 0.0.0.0 192.168.136.254

end
```

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//LAB-2.2 DHCP Configs

##SW01##

```
conf t
!
interface Vlan24
no shut
ip address 192.168.24.11 255.255.255.0

interface Vlan 136
no shut
ip address 192.168.136.11 255.255.255.0
ip helper-address 192.168.24.2

!
interface Ethernet0/1
no switchport access vlan 136
switchport trunk encapsulation dot1q
switchport mode trunk

end
```

##SW02##

```
conf t

!
interface Ethernet0/1
no switchport mode trunk
switchport access vlan 24
!
interface Vlan24
no shut
ip address 192.168.24.22 255.255.255.0
!
interface Vlan 156
no shut
ip address 192.168.156.22 255.255.255.0
ip helper-address 192.168.24.2
!
end
```

##SW03##

```
conf t

interface Vlan24
no shut
ip address 192.168.24.33 255.255.255.0

interface Vlan 45
no shut
ip address 192.168.45.33 255.255.255.0
ip helper-address 192.168.24.2

interface Vlan 136
no shut
ip address 192.168.136.33 255.255.255.0
ip helper-address 192.168.24.2

end
```

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##SW04##

conf t

```
interface Vlan24
no shut
ip address 192.168.24.44 255.255.255.0
```

```
interface Vlan 45
no shut
ip address 192.168.45.44 255.255.255.0
ip helper-address 192.168.24.2
```

```
interface Vlan 156
no shut
ip address 192.168.156.44 255.255.255.0
ip helper-address 192.168.24.2
```

end

##R01##

conf t

```
ip domain lookup
ip name-server 8.8.8.8
!
int e 0/0
no shut
ip address dhcp client-id Ethernet0/0
!
int e 0/1
no shut
ip address dhcp client-id Ethernet0/1
!
end
```

##R02##

conf t

```
ip domain lookup
!
int loopback 0
ip address 8.8.8.8 255.255.255.255
!
!
interface Ethernet0/0
no shut
ip address 192.168.24.2 255.255.255.0
!
ip route 0.0.0.0 0.0.0.0 192.168.24.254
!
ip dns server
!
ip host R01.acme.org 192.168.156.1 192.168.136.1
ip host R02.acme.org 192.168.24.2
ip host R04.acme.org 192.168.45.4 192.168.24.4
ip host R05.acme.org 192.168.156.5 192.168.45.5
ip host R06.acme.org 192.168.136.6 192.168.156.6
!
ip domain round-robin
!
ip dhcp pool VLAN_24
network 192.168.24.0 255.255.255.0
domain-name acme.org
```

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```
dns-server 8.8.8.8
default-router 192.168.24.254
!
!
ip dhcp pool VLAN_45
network 192.168.45.0 255.255.255.0
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.45.254
!
!
ip dhcp pool VLAN_136
network 192.168.136.0 255.255.255.0
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.136.254
!
!
ip dhcp pool VLAN_156
network 192.168.156.0 255.255.255.0
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.156.254
!
!
!
ip dhcp excluded-address 192.168.24.254
ip dhcp excluded-address 192.168.45.254
ip dhcp excluded-address 192.168.136.254
ip dhcp excluded-address 192.168.156.254
!
!
!
ip dhcp pool R01_e0/0
host 192.168.136.1 255.255.255.0
client-identifier 01aa.bb0001.00
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.136.254
!
!
ip dhcp pool R01_e0/1
host 192.168.156.1 255.255.255.0
client-identifier 01aa.bb0001.10
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.156.254
!
!
ip dhcp pool R04_e0/0
host 192.168.24.4 255.255.255.0
client-identifier 01aa.bb0004.00
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.24.254
!
!
ip dhcp pool R04_e0/1
host 192.168.45.4 255.255.255.0
client-identifier 01aa.bb0004.10
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.45.254
!
!
```

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```
ip dhcp pool R05_e0/0
host 192.168.156.5 255.255.255.0
client-identifier 01aa.bbcc.0005.00
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.156.254
!
!
ip dhcp pool R05_e0/1
host 192.168.45.5 255.255.255.0
client-identifier 01aa.bbcc.0005.10
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.45.254
!
!
ip dhcp pool R06_e0/0
host 192.168.136.6 255.255.255.0
client-identifier 01aa.bbcc.0006.00
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.136.254
!
!
ip dhcp pool R06_e0/1
host 192.168.156.6 255.255.255.0
client-identifier 01aa.bbcc.0006.10
domain-name acme.org
dns-server 8.8.8.8
default-router 192.168.156.254
!
!
!
end
```

##R03##

```
conf t
!
ip domain lookup
ip name-server 8.8.8.8
!
ip route 8.8.8.8 255.255.255.255 192.168.24.2
!
!
interface Ethernet0/0
no shut
!
interface Ethernet0/0.24
encapsulation dot1Q 24
ip address 192.168.24.254 255.255.255.0
!
interface Ethernet0/0.45
encapsulation dot1Q 45
ip address 192.168.45.254 255.255.255.0
!
interface Ethernet0/0.136
encapsulation dot1Q 136
ip address 192.168.136.254 255.255.255.0
!
interface Ethernet0/0.156
encapsulation dot1Q 156
ip address 192.168.156.254 255.255.255.0
!
end
```

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##R04##

conf t

```
ip domain lookup
ip name-server 8.8.8.8
!
int e 0/0
no shut
ip address dhcp client-id Ethernet0/0
```

```
int e 0/1
no shut
ip address dhcp client-id Ethernet0/1
```

end

##R05##

conf t

```
ip domain lookup
ip name-server 8.8.8.8
!
int e 0/0
no shut
ip address dhcp client-id Ethernet0/0
```

```
int e 0/1
no shut
ip address dhcp client-id Ethernet0/1
```

end

##R06##

conf t

```
ip domain lookup
ip name-server 8.8.8.8
!
int e 0/0
no shut
ip address dhcp client-id Ethernet0/0
```

```
int e 0/1
no shut
ip address dhcp client-id Ethernet0/1
```

end

//LAB-2.3 VRRP HSRP Configs

##R01##

conf t

```
int e 0/0
no shut
ip add 192.168.136.1 255.255.255.0
vrrp 136 authentication md5 key-string CISCO
vrrp 136 description <VRRP VLAN-136 Primary Interface>
vrrp 136 ip 192.168.136.254
vrrp 136 preempt delay minimum 1
vrrp 136 priority 200
vrrp 136 timers advertise msec 300
!vrrp 136 track 1 decrement 150
!
```

```
int e 0/1
no shut
ip add 192.168.156.1 255.255.255.0
standby version 2
standby 156 authentication md5 key-string cisco
standby 156 name <HSRP-VLAN-156>
standby 156 ip 192.168.156.254
standby 156 preempt delay minimum 2
standby 156 priority 50
standby 156 timers msec 550 msec 900
!
end
```

##R03##

conf t

```
int e 0/0
no shut
ip add 192.168.136.3 255.255.255.0
ip route 0.0.0.0 0.0.0.0 192.168.136.254
!
end
```

##R05##

conf t

```
int e 0/0
no shut
ip add 192.168.156.5 255.255.255.0
ip route 0.0.0.0 0.0.0.0 192.168.156.254
!
end
```

##R06##

conf t

```
int e 0/0
no shut
ip add 192.168.136.6 255.255.255.0
vrrp 136 authentication md5 key-string CISCO
vrrp 136 description <VRRP VLAN-136 Secondary Interface>
vrrp 136 ip 192.168.136.254
vrrp 136 preempt delay minimum 1
vrrp 136 priority 50
vrrp 136 timers advertise msec 600
!
!
int e 0/1
no shut
ip add 192.168.156.6 255.255.255.0
standby version 2
standby 156 authentication md5 key-string cisco
standby 156 name <HSRP-VLAN-156>
standby 156 ip 192.168.156.254
standby 156 preempt delay minimum 2
standby 156 priority 200
standby 156 timers msec 550 msec 900
!
end
```

//LAB-2.4 GLBP Configs

##R01##

conf t

```
int e 0/0
no shut
ip add 192.168.136.1 255.255.255.0
glbp 136 authentication md5 key-string CISCO
glbp 136 name <GLBP-VLAN-136>
glbp 136 ip 192.168.136.254
glbp 136 preempt delay minimum 1
glbp 136 timers msec 350 msec 700
glbp 136 load-balancing round-robin
!
!
int e 0/1
no shut
ip add 192.168.156.1 255.255.255.0
glbp 156 authentication md5 key-string cisco
glbp 156 name <GLBP-VLAN-156>
glbp 156 ip 192.168.156.254
glbp 156 preempt delay minimum 1
glbp 156 timers msec 350 msec 700
glbp 156 load-balancing round-robin

end
```

##R03##

conf t

int e 0/0

no shut

ip add 192.168.136.3 255.255.255.0

ip route 0.0.0.0 0.0.0.0 192.168.136.254

end

##R05##

conf t

int e 0/0

no shut

ip add 192.168.156.5 255.255.255.0

ip route 0.0.0.0 0.0.0.0 192.168.156.254

end

##R06##

conf t

int e 0/0

no shut

ip add 192.168.136.6 255.255.255.0

glbp 136 authentication md5 key-string CISCO

glbp 136 name <GLBP-VLAN-136>

glbp 136 ip 192.168.136.254

glbp 136 preempt delay minimum 1

glbp 136 timers msec 350 msec 700

glbp 136 load-balancing round-robin

!

!

int e 0/1

no shut

ip add 192.168.156.6 255.255.255.0

glbp 156 authentication md5 key-string cisco

glbp 156 name <GLBP-VLAN-156>

glbp 156 ip 192.168.156.254

glbp 156 preempt delay minimum 1

glbp 156 timers msec 350 msec 700

glbp 156 load-balancing round-robin

end