

Lab3B VLANs routing with DHCP Guide

Configure Switch 2:

Conf t

vlan 10

name Ten

exit

vlan 20

name Twenty

exit

interface range fa0/7 - 12

switchport mode access

switchport access vlan 10

exit

interface range fa0/13 - 18

switchport mode access

switchport access vlan 20

exit

(Port connecting R1)

interface G0/1

switchport mode trunk

Configure the R1

interface F0/0.10

encapsulation dot1q 10

ip address 2.2.10.100 255.255.255.0

ex

```
interface F0/0.20
encapsulation dot1q 20
ip address 2.2.20.100 255.255.255.0
ex
interface s0/3/0
ip address 2.2.150.41 255.255.255.252
no shut
ex
interface F0/0
no ip address
ip helper-address 2.2.150.42
duplex auto
speed auto
ex
interface F0/1
ip address 2.2.100.100 255.255.255.0
ip helper-address 2.2.150.42
duplex auto
speed auto
ex

ip route 0.0.0.0 0.0.0.0 2.2.150.42
```

Configure R2

```
Interface g0/1
Ip address 2.2.50.100 255.255.255.0
No shut
Ex
interface s0/0/0
ip address 2.2.150.42 255.255.255.252
```

no shut

ex

ip forward-protocol nd

ip route 0.0.0.0 0.0.0.0 2.2.150.41

ip dhcp excluded-address 2.2.50.1 2.2.50.20

ip dhcp excluded-address 2.2.50.100

ip dhcp excluded-address 2.2.100.1 2.2.100.20

ip dhcp excluded-address 2.2.100.100

ip dhcp pool NET2

network 2.2.50.0 255.255.255.0

default-router 2.2.50.100

exit

ip dhcp pool NET3

network 2.2.100.0 255.255.255.0

default-router 2.2.100.100

exit

ON R2

Do show ip dhcp binding

Do show ip dhcp pool

Test connectivity:

Ping PC11 from PC7

Ping PC1 from PC7

Ping PC11 from PC1