

Lab8 Documentation:

To enable the DHCP for R6 and R7, enter these commands on the R2 dhcp server:

```
ip dhcp relay information option
!
dhcp server
  subnet 10.40.100.0/24
    reservations
      mac-address aac1.aba5.d177
      ipv4-address 10.40.100.2
    !
    range 10.40.100.3 10.40.100.100
    default-gateway 10.40.100.1
  !
  subnet 10.40.101.0/24
    reservations
      mac-address aac1.ab0d.37dd
      ipv4-address 10.40.101.2
    !
    range 10.40.101.3 10.40.101.100
    default-gateway 10.40.101.1
  !
!
```

To enable DHCP relay on R4 so that R6 can get an address input these commands on R4:

```
ip dhcp relay information option
ip dhcp relay always-on
ip dhcp relay all-subnets default
!

interface Ethernet4
  no switchport
  ip address 10.40.100.1/24
  ip helper-address 10.100.0.7
  ipv6 ospf 40 area 0.0.0.10
!
```

For int Eth4, the Ip helper-address command should be inputted

On R6, because ip address dhcp is glitchy either due to the image or container lab, go onto the bash CLI of the arista switch using this command:

“docker exec -it <container id> bash”

Then input the command: “dchlient eth1”

Now when this happens, use the ZTP tool in Logan’s Netman Tool and input the login information for the router. If successful, the startup config will be applied.

Logan's Netman Tool

ZTP Tool

Device Information

Hostname

Enter device hostname

Device IP

Enter MGMT IP address

Username

Enter username

Password

Enter password

Submit

Configuration Output:

```
configure terminal
R7(config)#interface Ethernet1
R7(config-if-Et1)# no switchport
R7(config-if-Et1)# ip address 10.40.101.2/24
R7(config-if-Et1)#
R7(config-if-Et1)#interface Ethernet2
R7(config-if-Et2)# no switchport
R7(config-if-Et2)# ip address 2.2.2.1/30
R7(config-if-Et2)#
R7(config-if-Et2)#interface Management0
R7(config-if-Ma0)# ip address 172.20.20.6/24
R7(config-if-Ma0)# ipv6 address 2001:172:20:20::6/64
R7(config-if-Ma0)#
R7(config-if-Ma0)#ip routing
R7(config)#
R7(config)#ipv6 unicast-routing
R7(config)#
R7(config)#ip route 10.100.0.0/24 10.40.101.1
R7(config)#
R7(config)#router rip
R7(config-router-rip)# network 2.2.2.0/30
R7(config-router-rip)# network 10.40.101.0/24
R7(config-router-rip)# no shutdown
R7(config-router-rip)#
R7(config-router-rip)#end
R7#
```

To update the NSOT, add the lps to Netbox and use my tool to update the golden configs of all devices that now includes these devices.