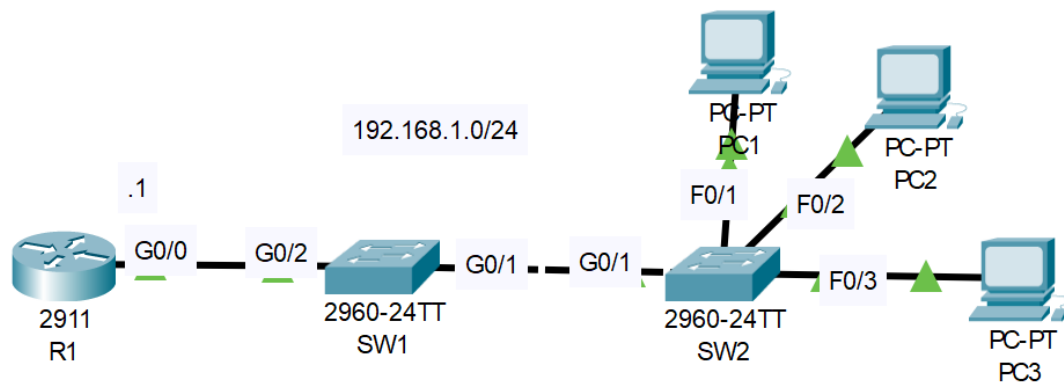


## DHCP Snooping Lab

Source: Jeremy IT Lab

Student: Mono



1. Configure R1 as a DHCP server.  
Exclude 192.168.1.1 - 192.168.1.9 from the pool  
Default gateway: R1
2. Configure DHCP snooping on SW1 and SW2.  
Configure the uplink interfaces as trusted ports.
3. Use IPCONFIG /RENEW on PC1 to get an IP address.  
Does it work? Why or why not?
4. If it doesn't work, make the necessary configuration change to fix it.

1.

```
R1(config)#ip dhcp ?
  excluded-address  Prevent DHCP from assigning certain addresses
  pool              Configure DHCP address pools
  relay            DHCP relay agent parameters
R1(config)#ip dhcp excluded-address 192.168.1.1-192.168.1.9 ?
% Unrecognized command
R1(config)#ip dhcp excluded-address 192.168.1.1 192.168.1.9
R1(config)#ip dhcp excluded-address 192.168.1.1 192.168.1.9 ?
  <cr>
R1(config)#show run | include dhcp
^
% Invalid input detected at '^' marker.

R1(config)#do show run | include dhcp
ip dhcp excluded-address 192.168.1.1 192.168.1.9
R1(config)#
```

```

R1>en
R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#ip dhcp pool POOL1
R1(dhcp-config)#network ?
    A.B.C.D  Network number in dotted-decimal notation
R1(dhcp-config)#network 192.168.1.0 255.255.255.0
R1(dhcp-config)#default ?
    A.B.C.D  Router's IP address
R1(dhcp-config)#default-router ?
    A.B.C.D  Router's IP address
R1(dhcp-config)#default-router 192.168.1.1
R1(dhcp-config)#

```

2.

```

SW1(config)#ip dhcp ?
    excluded-address  Prevent DHCP from assigning certain addresses
    pool              Configure DHCP address pools
    relay             DHCP relay agent parameters
    snooping          DHCP Snooping
    use               Configure use of certain parameters during allocation
SW1(config)#ip dhcp snooping

SW1(config)#ip dhcp snooping vlan 1
SW1(config)#int g0/2
SW1(config-if)#ip dhcp snooping ?
    limit  DHCP Snooping limit
    trust  DHCP Snooping trust config
SW1(config-if)#ip dhcp snooping trust

SW2(config)#ip dhcp snooping
SW2(config)#ip dhcp snooping vlan 1
SW2(config)#int g0/1
SW2(config-if)#ip dhcp snooping trust

```

3.

No

4.

Disable option 82

No ip dhcp snooping info option

```

C:\>ipconfig /renew

IP Address. . . . .: 192.168.1.10
Subnet Mask. . . . .: 255.255.255.0
Default Gateway. . . . .: 192.168.1.1
DNS Server. . . . .: 0.0.0.0

C:\>

```