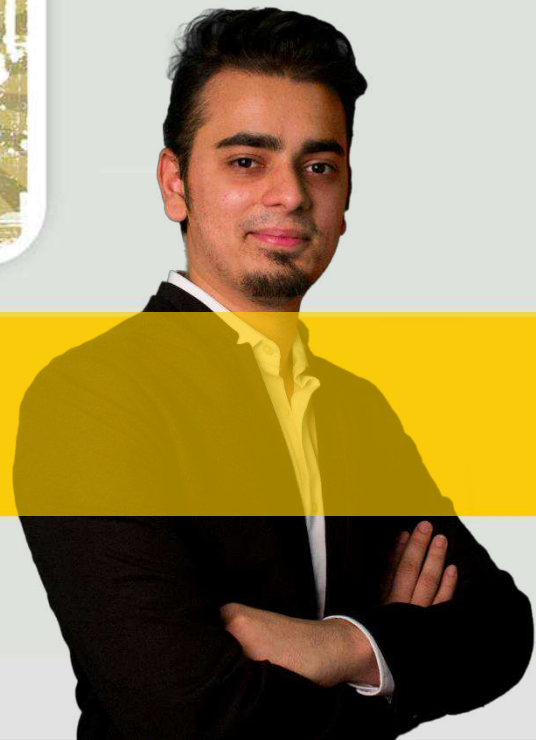


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# DHCP



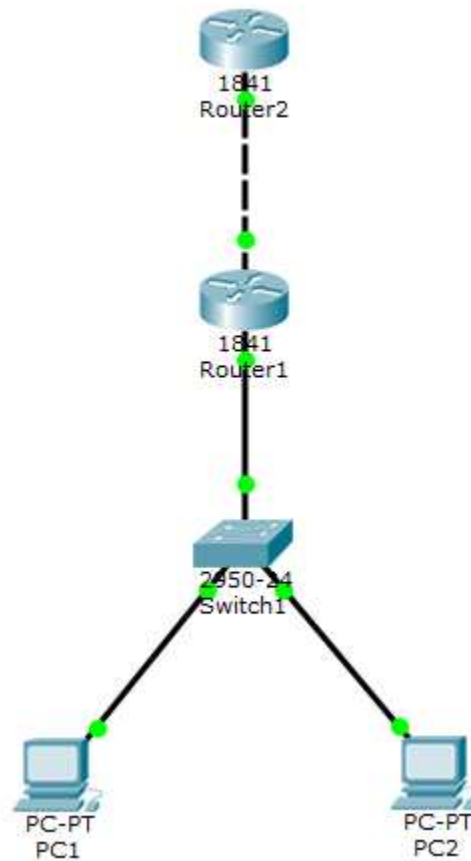
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# DHCP Topology

## Disclaimer

This Configuration Guide is designed to assist members to enhance their skills in particular technology area. While every effort has been made to ensure that all material is as complete and accurate as possible, the enclosed material is presented on an “as is” basis. Neither the authors nor Forum assume any liability or responsibility to any person or entity with respect to loss or damages incurred from the information contained in this guide. This configuration guide was developed by Forum. Any similarities between material presented in this configuration guide and any other material is completely coincidental.

Cisco IOS Software, Linux Software (I86BI\_LINUX-ADVENTERPRISEK9-M), Version 15.2(4)M1, DEVELOPMENT TEST SOFTWARE



Lab created for RST Forum by: Yash Muni, Ritesh Gohil, Keval Patel

# LAB 3: Configure DHCP Relay Agent

## Task 3: Configure IPv4 DHCP Relay Agent

Step 1. In the configuration mode of router configure IPv4 DHCP Relay Agent by following command:

### Router 1

```
interface fastethernet 0/0
no shutdown
interface fastethernet 0/0.1
encapsulation dot1q 100
ip add 100.0.0.1 255.255.255.0
ip helper-address 150.0.0.1
interface fastethernet 0/0.2
encapsulation dot1q 200
ip add 200.0.0.2 255.255.255.0
ip helper-address 150.0.0.1
exit
interface fastethernet 0/1
ip address 150.0.0.2 255.255.255.0
no shutdown
exit
```

### Router 2

```
interface fastethernet 0/0
ip address 150.0.0.1 255.255.255.0
no shutdown

ip dhcp pool VLAN100
network 100.0.0.0 255.255.255.0
default-router 100.0.0.1
exit
ip dhcp excluded-address 100.0.0.1
ip dhcp pool VLAN200
network 200.0.0.0 255.255.255.0
default-router 200.0.0.1
exit
ip dhcp excluded-address 200.0.0.1
ip route 0.0.0.0 0.0.0.0 150.0.0.2
```

#### Switch

```
interface fastethernet 0/1
switchport mode trunk
exit
interface fastethernet 0/2
switchport access vlan 100
switchport mode access
interface fastethernet 0/3
switchport access vlan 200
switchport mode access
```

Configure the HOST to obtain IP from DHCP.

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