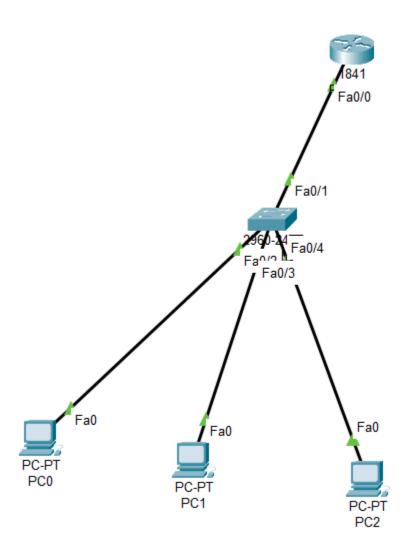
DHCP Topology



Building DHCP

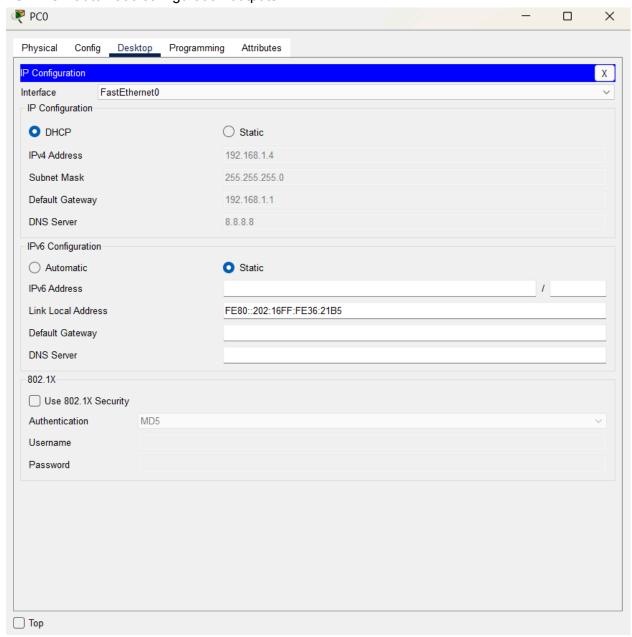
Router0 Physical Config CLI Attributes IOS Command Line Interface Router>enable Router#config t Enter configuration commands, one per line. End with CNTL/Z. Router(config) #hostname R1 R1(config)#interface fa0/0 R1(config-if)#ip address 192.168.1.1 255.255.255.0 R1(config-if)#no shutdown R1(config-if)# %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up R1(config-if)#exit 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 pool % Incomplete command. R1(config)#ip dhcp pool ? WORD Pool name R1(config)#ip dhcp pool nms-pool R1(dhcp-config) #network 192.168.1.0 255.255.255.0 R1(dhcp-config)#default-router 192.168.1.1 R1 (dhcp-config) #dns R1(dhcp-config)#dns-server 8.8.8.8 R1(dhcp-config)#lease ? % Unrecognized command R1 (dhcp-config) #exit R1(config) #ip dhcp excluded-address 192.168.1.1 192.168.1.3 R1(config) #do show ip dhcp binding IP address Client-ID/ Lease expiration Туре Hardware address 192.168.1.4 0002.1636.21B5 Automatic 192.168.1.5 0001.42D7.46CA Automatic 192.168.1.6 00D0.D3C0.E7D0 Automatic R1(config)#

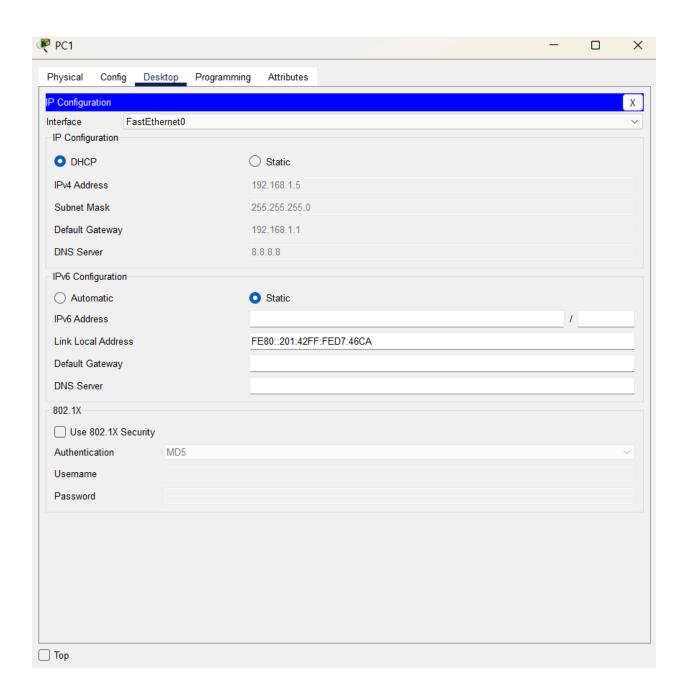
Пор

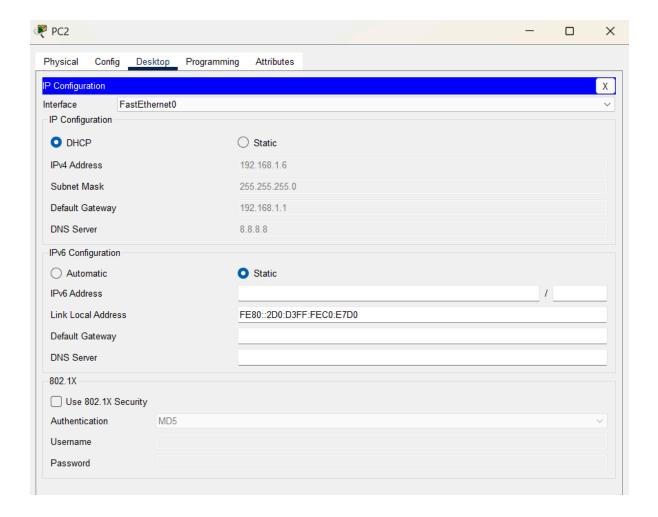
Show run command

```
Router0
 Physical Config CLI Attributes
                                                                                           IOS Command Line Interface
  ip dhcp excluded-address 192.168.1.1 192.168.1.3
  ip dhcp pool nms-pool network 192.168.1.0 255.255.255.0
  default-router 192.168.1.1
   dns-server 8.8.8.8
  ip cef
  no ipv6 cef
  spanning-tree mode pvst
  interface FastEthernet0/0
   ip address 192.168.1.1 255.255.255.0
   duplex auto
   speed auto
  interface FastEthernet0/1
   no ip address
   duplex auto
speed auto
shutdown
```

PC DHCP automatic configuration outputs







DHCP Binding

Enter contriguration communics, one per time. End with child. R1(config) #do show ip dhcp binding IP address Client-ID/ Lease expiration Type Hardware address 192.168.1.5 0002.1636.21B5 Automatic 192.168.1.4 0001.42D7.46CA Automatic 192.168.1.6 00D0.D3C0.E7D0 Automatic R1(config)#

Show interface brief

R1(config) #do show ip int brief
Interface IP-Address OK? Method Status Protocol
FastEthernet0/0 192.168.1.1 YES manual up up
FastEthernet0/1 unassigned YES unset administratively down down
Vlan1 unassigned YES unset administratively down down
R1(config) #