



LAB 4

[Document subtitle]

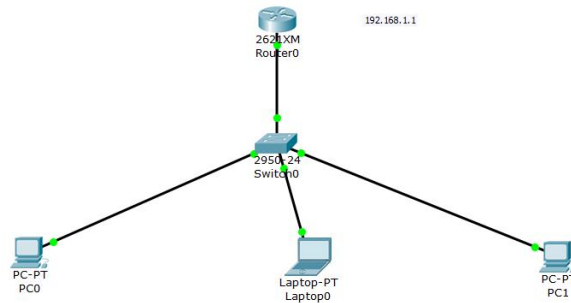


ABDULLAH TAHIR

P190067

5B

Configure DHCP server on router



CLI

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#no shutdown

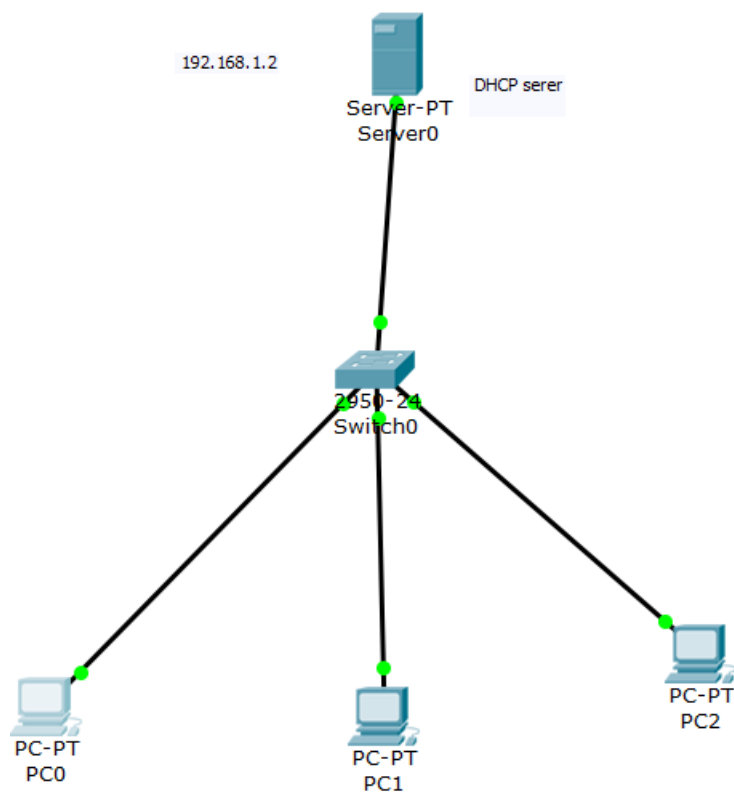
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

Router(config-if)#exit
Router(config)#dhcp pool p1
      ^
% Invalid input detected at '^' marker.

Router(config)#ip dhcp pool p1
Router(dhcp-config)#network 192.168.1.1 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#dns-server 192.168.1.10
Router(dhcp-config)#ex
Router(config)#ip dhcp pool p1
Router(dhcp-config)#ip dhcp excluded -address 192.168.1.1 192.168.1.10
      ^
```

Configure DHCP service on Generic server



Server0

Physical Config Services Desktop Custom Interface

Command Prompt

```
Packet Tracer SERVER Command Line 1.0
SERVER>ping 192.168.1.2

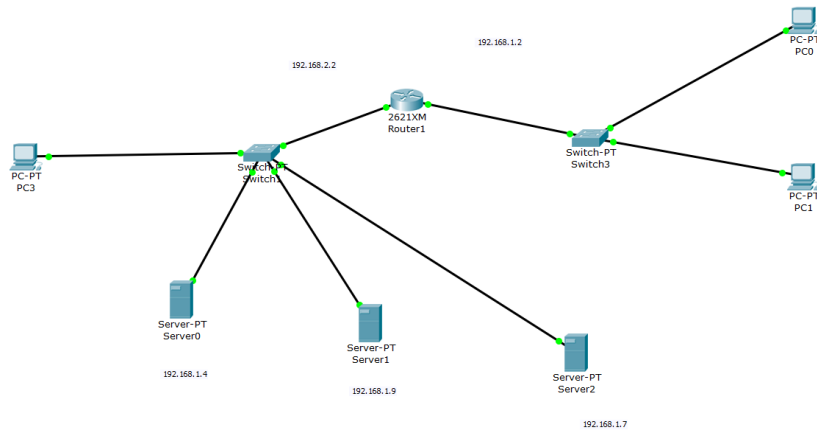
Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=10ms TTL=128
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 4ms

SERVER>
```

WEB SERVER CONFIGURATION



```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet1/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet1/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet2/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet3/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet4/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface Ethernet6/1
Switch(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP
 ☒ Static

IP Address: 192.168.1.4
 Subnet Mask: 255.255.255.0
 Default Gateway: 192.168.1.2
 DNS Server: 192.168.1.9

IPv6 Configuration

☐ DHCP
 ☐ Auto Config
 ☒ Static

IPv6 Address: /
 Link Local Address: FE80::201:63FF:FE36:E454
 IPv6 Gateway:
 IPv6 DNS Server:

Server0

Physical Config Services Desktop Custom Interface

SERVICES
 HTTP
 DHCP
 DHCPv6
 TFTP
 DNS
 SYSLOG
 AAA
 NTP
 EMAIL
 FTP

DHCP

Interface: FastEthernet0 Service: ☐ On ☒ Off

Pool Name: p2

Default Gateway: 192.168.2.2

DNS Server: 192.168.1.9

Start IP Address:

Subnet Mask:

Maximum number of Users: 256

TFTP Server: 0.0.0.0

Add		Save				Remove	
Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	
p2	192.168.2.2	192.168.1.9	192.168.1.0	255.255.255.0	256	0.0.0.0	
p1	192.168.1.2	192.168.1.9	192.168.1.0	255.255.255.0	256	0.0.0.0	
serverPool	0.0.0.0	0.0.0.0	192.168.1.0	255.255.255.0	512	0.0.0.0	

Type here to search
12:55 pm 06/10/2021

192.168.1.2

Switch

Server-P

DNS

192.168.1.7

192.168.1.1

DNS Configuration Window:

Physical Config Services Desktop Custom Interface

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name Type

Address

Add Save Remove

No.	Name	Type	Detail
0	www.dhcp.cpm	A Record	192.168.1.4
1	www.webserver...	A Record	192.168.1.7

DNS Cache

Router1

Physical Config CLI

IOS Command Line Interface

```

Router>enable
Router#configure ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip dhcp pool p1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.2
Router(dhcp-config)#dns-server 192.168.1.9
Router(dhcp-config)#ip dhcp pool p2
Router(dhcp-config)#ex
Router(config)#ip dhcp pool p2
Router(dhcp-config)#network 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.2.2
Router(dhcp-config)#dns-server 192.168.1.9
Router(dhcp-config)#ex
Router(config)#
  
```

Copy Paste

192.168.1.7

Scenario 0	Fire	Last Status	Source	Destination	Type	Colo
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