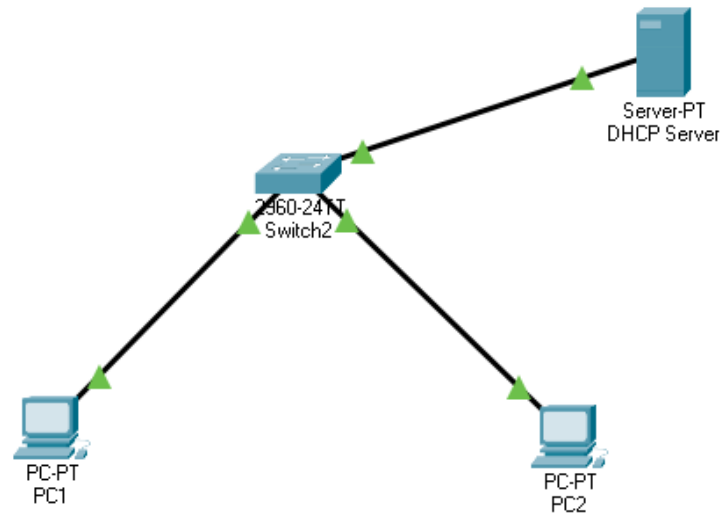Muhammad Waleed
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Lab 5:
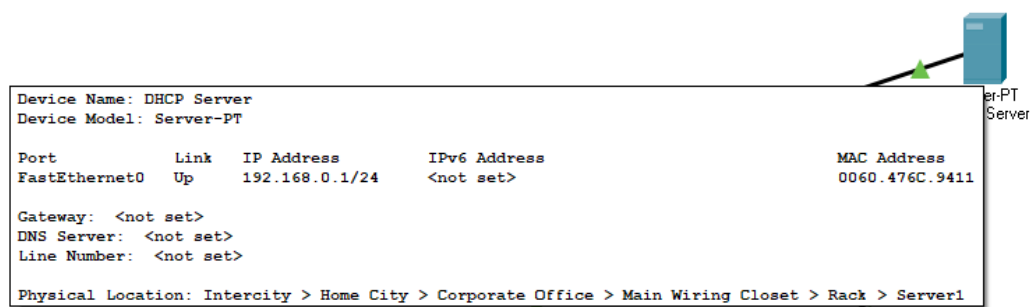
1. Implementation of DHCP Server.

Arrangement of Network:

IP Configuration:

Server's only, DHCP Server will automatically assign IP address to relevant PCs.


```
Device Name: DHCP Server
Device Model: Server-PT

Port            Link    IP Address          IPv6 Address                    MAC Address
FastEthernet0   Up      192.168.0.1/24      <not set>                       0060.476C.9411

Gateway:    <not set>
DNS Server:  <not set>
Line Number:  <not set>

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Server1
```

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DCCN
LAB#5
Instructor: Sir Fauzan Saeed

DHCP Configuration:

IP Configuration of PC1 and PC2:

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DNS Configuration:

Arrangement of Network:
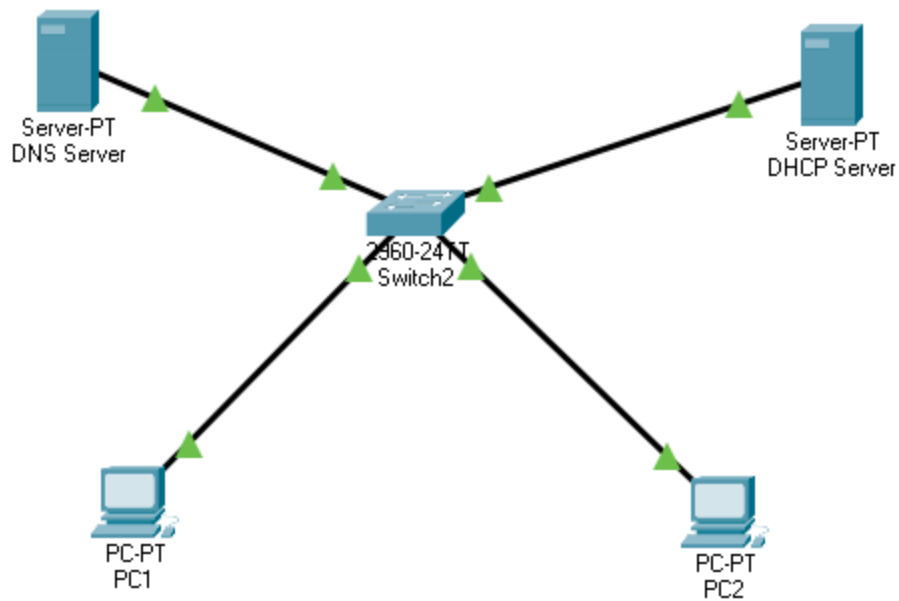
DNS Configuration:
Of Sever.

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DHCP Configuration.

Testing DNS on PC1:


```
C:\>ping waleed

Pinging 192.168.0.4 with 32 bytes of data:

Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
Reply from 192.168.0.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```
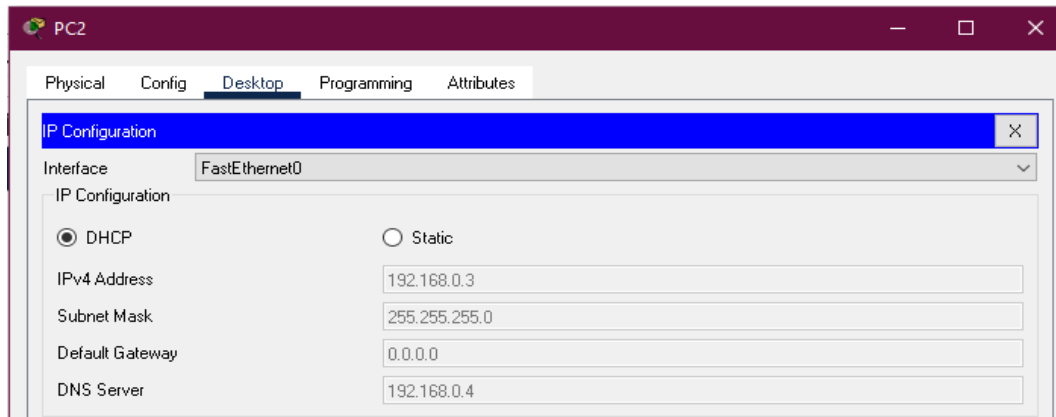
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Testing DNS on PC2: