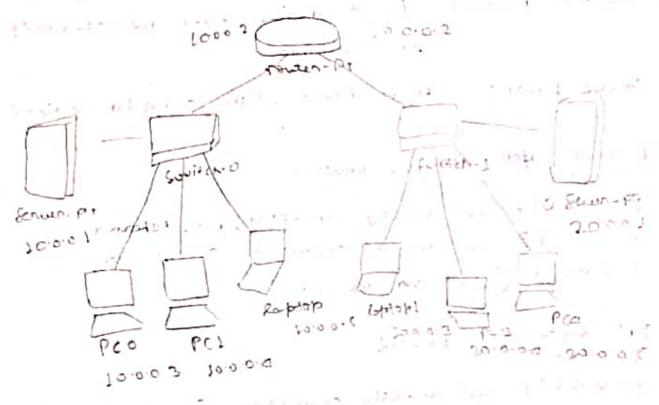
Question: - Configure DHCP within a LAN and ordered

Aim: - To four correction blw a network and arredus network using a single server.

Topology:



I Router connects 2 surticles vio Fa 010 and Fa 110 which further connect 4 desuces each one server, troo PCs and one haptop.

Proceduce :.

1. Establish connection bIW a switch and 3 end demices - I server, 2PC and I laptop.

Obtain IP address using DM (P.

- 3. Merge Router, another swortch and it's end demice
- 4. Create another pool named switch 2 and its onlight
- 5. Alden IP address whim he co.

Gernation

IP address allocated dynamically to end demices
Ping successful

7 10.0.0.2

bira 10.0.0.3

behand 10.0.0.3 rarey 35 phier of gata.

Ping station Lo.0.0.3

Packets: Sent = 4 Peceusial = 4 Rost = 0

obstrar soute toip tenis as

min = 0 ms max = 7 ms oug = 21

This eliminates the need for network associated to manually around the address to each devices.

20/11/24

& 16 m

IPv4: 10.0.0.2
DNS: 255.0.0.0

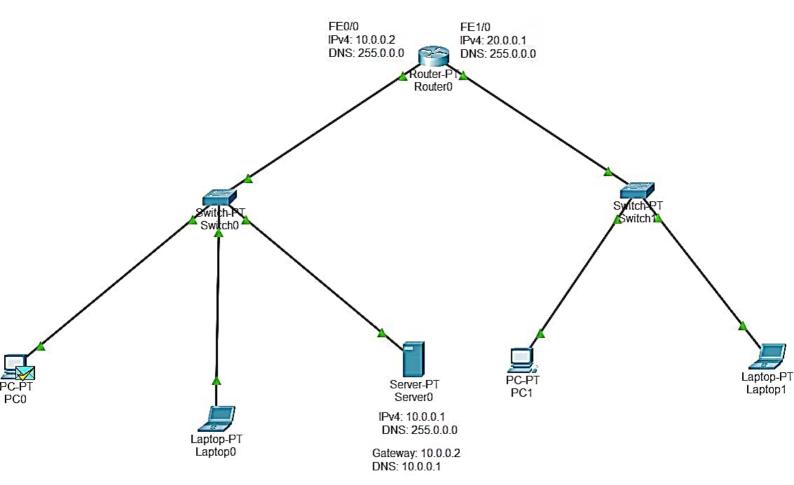
Router-PT
Router0

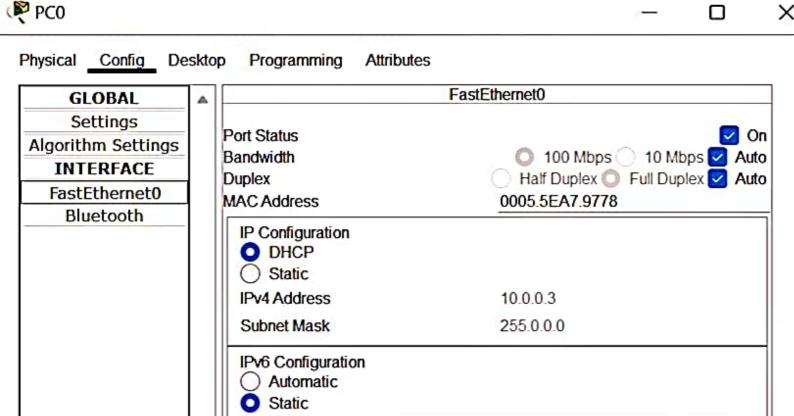
IPv4: 10.0.0.1
DNS: 255.0.0.0

Server-PT
Server0

Laptop-PT
Laptop0

Fe0/0





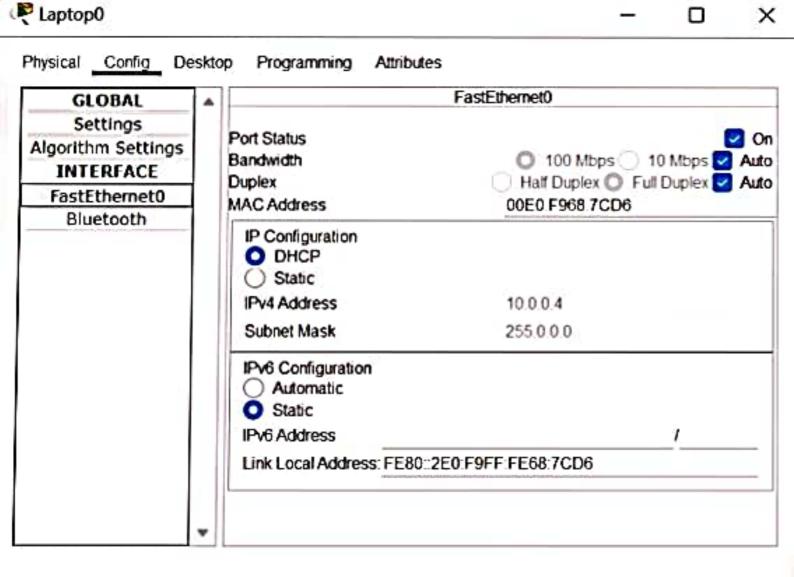
Link Local Address: FE80::205:5EFF:FEA7:9778

1

IPv6 Address

Physical Config Services Desktop Programming Attributes SERVICES Δ DHCP HTTP Service O On Off Interface FastEthernet0 DHCP DHCPv6 Pool Name serverPool1 TFTP Default Gateway 10.0.0.2 DNS **DNS Server** 10.0.0.1 SYSLOG AAA Start IP Address: 0 0 0 10 NTP 255 0 0 0 Subnet Mask: **EMAIL** FTP Maximum Number of Users: 512 IoT TFTP Server: 0.0.0.0 VM Management Radius EAP WLC Address: 0.0.0.0 Add Save Remove Start WLC Pool Default DNS Subnet Max TFTP IP Name Gateway Mask User Address Server Server Address

Fire	Last Status	Source	Destination	Туре	Color	Time(sec)	Periodic	Num	Edit	Delete
•	Successful	PC0	Laptop0	ICMP		0.000	N	0	(edit)	



Fire	Last Status	Source	Destination	Туре	Color	Time(sec)	Periodic	Num	Edit	Delete
•	Successful	PC0	Laptop0	ICMP		0.000	N	0	(edit)	1
•	Successful	PC1	Laptop1	ICMP		0.004	N	1	(edit)	
7.4										

Programming Physical Config Desktop Attributes FastEthernet0 GLOBAL Settings Port Status Algorithm Settings Bandwidth 100 Mbps 10 Mbps Auto INTERFACE Half Duplex Full Duplex Auto Duplex FastEthernet0 0005.5EA7.9778 MAC Address Bluetooth IP Configuration O DHCP Static IPv4 Address 10.0.0.3 Subnet Mask 255.0.0.0 IPv6 Configuration Automatic O Static IPv6 Address Link Local Address: FE80::205:5EFF:FEA7:9778

Top

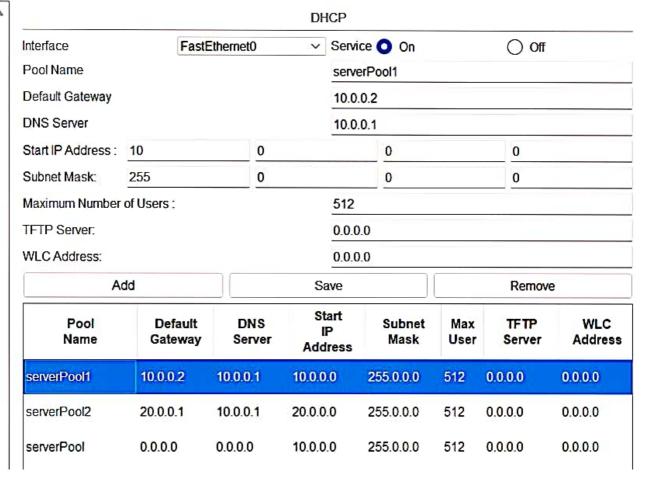
Physical Config FastEthernet0 **GLOBAL** On Settings 100 Mbps 10 Mbps Auto Port Status Algorithm Settings Bandwidth Half Duplex O Full Duplex 🔽 Auto INTERFACE Duplex 0090.2189.9958 FastEthernet0 MAC Address Bluetooth IP Configuration O DHCP Static 20.0.0.3 IPv4 Address 255.0.0.0 Subnet Mask IPv6 Configuration Automatic Static IPv6 Address Link Local Address: FE80::290:21FF:FE89:9958

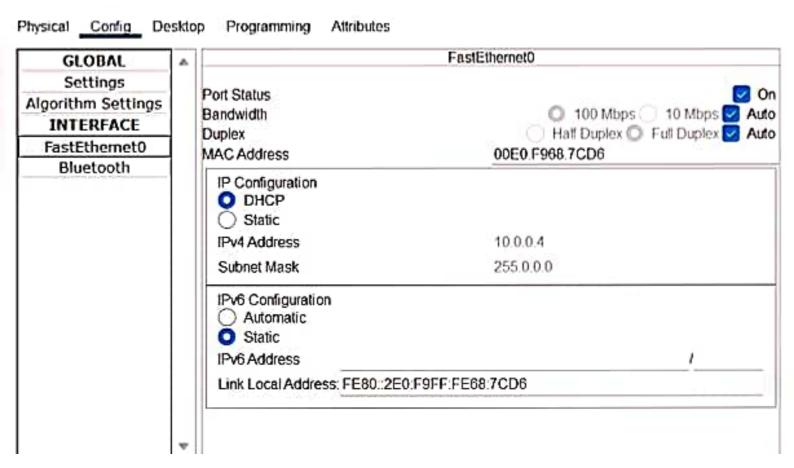
HIIIDUICS

Programming

Desktop

	_
SERVICES	Δ
HTTP	
DHCP	
DHCPv6	
TFTP	
DNS	
SYSLOG	
AAA	
NTP	
EMAIL	
FTP	
IoT	
VM Management	
Radius EAP	





```
PC0
```

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0 C:\>ping 10.0.0.4
```

Pinging 10.0.0.4 with 32 bytes of data:

```
Reply from 10.0.0.4: bytes=32 time<1ms TTL=128
```

Ping statistics for 10.0.0.4:

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