

CLASS WORK:

The image displays two screenshots of the Cisco Packet Tracer application, illustrating network configuration tasks.

Top Screenshot: The 'PC Configuration' window for PC0 is open, showing the 'Desktop' tab. The IP Configuration section is set to DHCP, and the IPv6 Configuration section is set to Static. The network diagram shows a 2960-24T switch connected to four PCs (PC0, PC1, PC2, PC3). The switch interface is labeled 52.136.6.1/24.

Bottom Screenshot: The network diagram shows a more complex setup. A Server-PT (Server1) with IP 12.0.0.4 is connected to a 2960-24T switch. This switch is connected to an ISR4331 Router1, which is connected to another 2960-24T switch. The second switch is connected to four PCs (PC0, PC1, PC2, PC3). The router interface is labeled 12.0.0.1/8, and the switch interface is labeled 152.136.6.1/24.

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The image displays two screenshots of the Cisco Packet Tracer interface. The top screenshot shows a network topology with a central 2960-24T switch connected to a 2950-24T switch, which is in turn connected to a 2960-24T switch. The 2960-24T switch is connected to four PCs (PC0, PC1, PC2, PC3) and a PC-PT (PC4). The 2950-24T switch is connected to a PC-PT (PC5). The 2960-24T switch is configured with the following settings:

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0/0	Up	--	12.0.0.1/8	<not set>	00D0.9743.4101
GigabitEthernet0/0/1	Up	--	152.136.6.1/24	<not set>	00D0.9743.4102
GigabitEthernet0/0/2	Down	--	<not set>	<not set>	00D0.9743.4103
Vlan1	Down	1	<not set>	<not set>	00D0.9727.0826

The bottom screenshot shows the same network topology, but with a configuration window for the 2960-24T switch open. The window displays the IP Configuration and IPv6 Configuration settings for the switch. The IP Configuration is set to Static, with the IP Address 12.0.0.4, Subnet Mask 255.0.0.0, Default Gateway 12.0.0.1, and DNS Server 0.0.0.0. The IPv6 Configuration is set to Static, with the IPv6 Address FE80::20A:41FF:FE41:5195, Link Local Address FE80::20A:41FF:FE41:5195, IPv6 Gateway, and IPv6 DNS Server. The 802.1X and 802.1X Security options are also visible.

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The image displays two screenshots of the Cisco Packet Tracer interface, illustrating the configuration of a DHCP service.

Top Screenshot: Server1 Configuration

The **Services** tab is selected for the **Server1** device. The **DHCP** service is configured for the **FastEthernet0** interface.

DHCP Configuration Details:

- Interface: FastEthernet0
- Service: ☒ On
- Pool Name: serverPool
- Default Gateway: 12.0.0.1
- DNS Server: 0.0.0.0
- Start IP Address: 12.0.0.0
- Subnet Mask: 255.0.0.0
- Maximum Number of Users: 20
- TFTP Server: 0.0.0.0
- WLC Address: 0.0.0.0

DHCP Pools Table:

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
omar Khan	152.136.6.1	0.0.0.0	152.136.6.10	255.255.255.0	20	0.0.0.0	0.0.0.0
serverPool	12.0.0.1	0.0.0.0	12.0.0.0	255.0.0.0	20	0.0.0.0	0.0.0.0

Bottom Screenshot: PC4 Configuration

The **PC4** device is shown in the **Physical** view. The **IP Configuration** window is open, showing the configuration for the **FastEthernet0** interface.

IP Configuration Details:

- Interface: FastEthernet0
- IP Configuration: ☒ DHCP
- IP Address: 12.0.0.5
- Subnet Mask: 255.0.0.0
- Default Gateway: 12.0.0.1
- DNS Server: 0.0.0.0

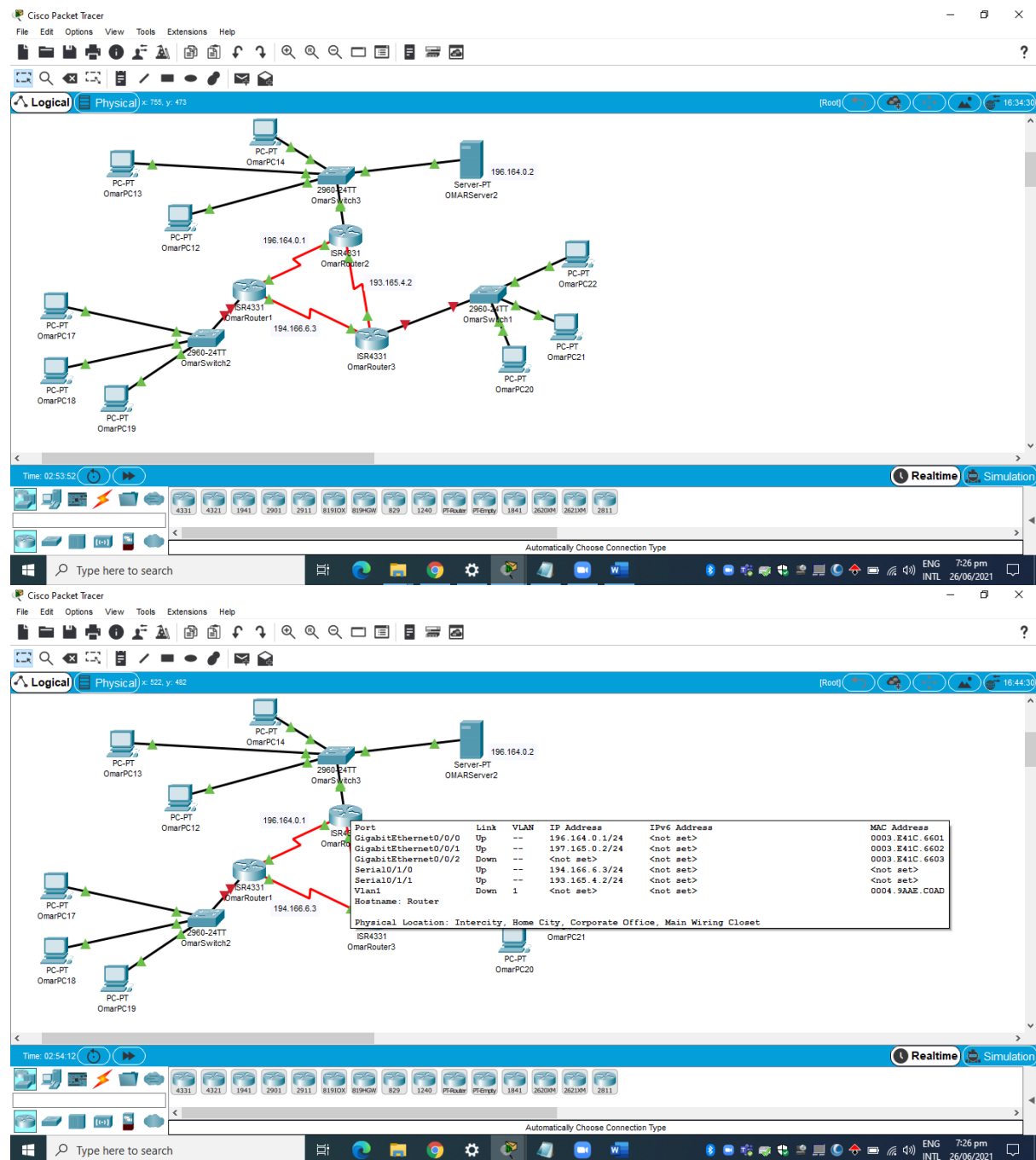
IPv6 Configuration:

- IPv6 Configuration: ☐ DHCP, ☐ Auto Config, ☒ Static
- IPv6 Address: [Empty]
- Link Local Address: FE80::205:SEFF:FEED:A943
- IPv6 Gateway: [Empty]
- IPv6 DNS Server: [Empty]

Network Diagram:

The network diagram shows a central **2950-CT Switch** connected to three devices: **Server-PT Server1** (12.0.0.4), **PC-PT PC4**, and **PC-PT PC5**. The switch is configured with a **12.0.0.1/8** address.

LAB TASK:



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Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 556, y: 822 [Root] 16:52:30

PC-PT OmarPC13, PC-PT OmarPC14, PC-PT OmarPC12, PC-PT OmarPC17, PC-PT OmarPC18, PC-PT OmarPC19, Server-PT OMARServer2, 2960-24TT OmarSwitch3, 2960-24TT OmarSwitch2, 2960-24TT OmarSwitch1, ISR4331 OmarRouter1, ISR4331 OmarRouter2, ISR4331 OmarRouter3

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0/0	Down	--	<not set>	<not set>	000C.85A8.8101
GigabitEthernet0/0/1	Down	--	<not set>	<not set>	000C.85A8.8102
GigabitEthernet0/0/2	Down	--	<not set>	<not set>	000C.85A8.8103
Serial0/2/0	Up	--	194.166.6.3/24	<not set>	<not set>
Serial0/2/1	Up	--	193.165.4.2/24	<not set>	<not set>
Vlan1	Down	1	<not set>	<not set>	000C.CF95.C14E

Physical Location: Intercity, Home City, Corporate Office, Main Wiring Closet

Time: 02:54:27 Realtime Simulation

4331 4321 1941 2901 2911 81910X 81910W 829 1240 PFRouter PFEmpy 1841 2620M 2621M 2911

Automatically Choose Connection Type

Type here to search

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 376, y: 557 [Root] 16:59:00

PC-PT OmarPC13, PC-PT OmarPC14, PC-PT OmarPC12, PC-PT OmarPC17, PC-PT OmarPC18, PC-PT OmarPC19, Server-PT OMARServer2, 2960-24TT OmarSwitch3, 2960-24TT OmarSwitch2, 2960-24TT OmarSwitch1, ISR4331 OmarRouter1, ISR4331 OmarRouter2, ISR4331 OmarRouter3

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0/0	Down	--	<not set>	<not set>	0006.2ABE.2E01
GigabitEthernet0/0/1	Down	--	<not set>	<not set>	0006.2ABE.2E02
GigabitEthernet0/0/2	Down	--	<not set>	<not set>	0006.2ABE.2E03
Serial0/2/0	Up	--	196.164.0.1/24	<not set>	<not set>
Serial0/2/1	Up	--	194.166.6.3/24	<not set>	<not set>
Vlan1	Down	1	<not set>	<not set>	0001.9776.56D2

Physical Location: Intercity, Home City, Corporate Office, Main Wiring Closet

Time: 02:54:40 Realtime Simulation

4331 4321 1941 2901 2911 81910X 81910W 829 1240 PFRouter PFEmpy 1841 2620M 2621M 2911

Automatically Choose Connection Type

Type here to search

ENG 7:26 pm 26/06/2021

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The image displays two screenshots of the Cisco Packet Tracer interface, showing network configurations for two PCs in a simulated environment.

Top Screenshot: OmarPC14 Configuration

- Physical Tab:** Shows the PC connected to OmarSwitch2.
- Config Tab:** Shows the configuration for the FastEthernet0 interface.
- IP Configuration:** DHCP is selected, and the status is "DHCP request successful". The IP Address is 196.164.0.6, Subnet Mask is 255.255.255.0, Default Gateway is 196.164.0.1, and DNS Server is 0.0.0.0.
- IPv6 Configuration:** Static is selected. The IPv6 Address is empty, Link Local Address is FE80::202:16FF:FE87:9574, IPv6 Gateway is empty, and IPv6 DNS Server is empty.
- 802.1X:** The "Use 802.1X Security" checkbox is unchecked.

Bottom Screenshot: OmarPC13 Configuration

- Physical Tab:** Shows the PC connected to OmarSwitch2.
- Config Tab:** Shows the configuration for the FastEthernet0 interface.
- IP Configuration:** DHCP is selected, and the status is "DHCP request successful". The IP Address is 196.164.0.7, Subnet Mask is 255.255.255.0, Default Gateway is 196.164.0.1, and DNS Server is 0.0.0.0.
- IPv6 Configuration:** Static is selected. The IPv6 Address is empty, Link Local Address is FE80::202:4AFF:FE97:15A4, IPv6 Gateway is empty, and IPv6 DNS Server is empty.
- 802.1X:** The "Use 802.1X Security" checkbox is unchecked.

Both screenshots show a network topology with several PCs (OmarPC12, OmarPC13, OmarPC14, OmarPC17, OmarPC18, OmarPC19) connected to a central switch (OmarSwitch2) and a router (OmarRouter1). The interface includes a toolbar with various tools and a status bar at the bottom showing the time and date.

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The image displays two screenshots of the Cisco Packet Tracer interface, showing network configuration for a lab environment.

Top Screenshot: OmarPC12 Configuration

The network diagram shows a central router (R4331) connected to a switch (2960-24TT) and several PCs (OmarPC12, OmarPC13, OmarPC14, OmarPC17, OmarPC18, OmarPC19). The router is configured with IP addresses 196.164.0.1 and 194.166.6.1. The switch is connected to the router and the PCs. The PCs are connected to the switch.

The configuration window for OmarPC12 is open, showing the IP Configuration tab. The interface is FastEthernet0. The IP Configuration is set to DHCP. The IP Address is 196.164.0.8, Subnet Mask is 255.255.255.0, Default Gateway is 196.164.0.1, and DNS Server is 0.0.0.0. The IPv6 Configuration is set to Static, with IPv6 Address FE80::201:42FF:FEAC:2A38, Link Local Address FE80::201:42FF:FEAC:2A38, IPv6 Gateway, and IPv6 DNS Server.

Bottom Screenshot: OMARServer2 Configuration

The network diagram is the same as the top screenshot. The configuration window for OMARServer2 is open, showing the Services tab. The DHCP service is enabled. The interface is FastEthernet0. The Pool Name is serverPool, Default Gateway is 196.164.0.1, DNS Server is 0.0.0.0, Start IP Address is 196.164.0.5, Subnet Mask is 255.255.255.0, Maximum Number of Users is 15, TFTP Server is 0.0.0.0, and WLC Address is 0.0.0.0. The DHCP service is configured with a pool named serverPool, starting at 196.164.0.5 and ending at 196.164.0.15. The pool is named omarkhanR3.

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
omarkhanR3	196.164.0.1	0.0.0.0	196.164.0.5	255.255.255.0	15	0.0.0.0	0.0.0.0