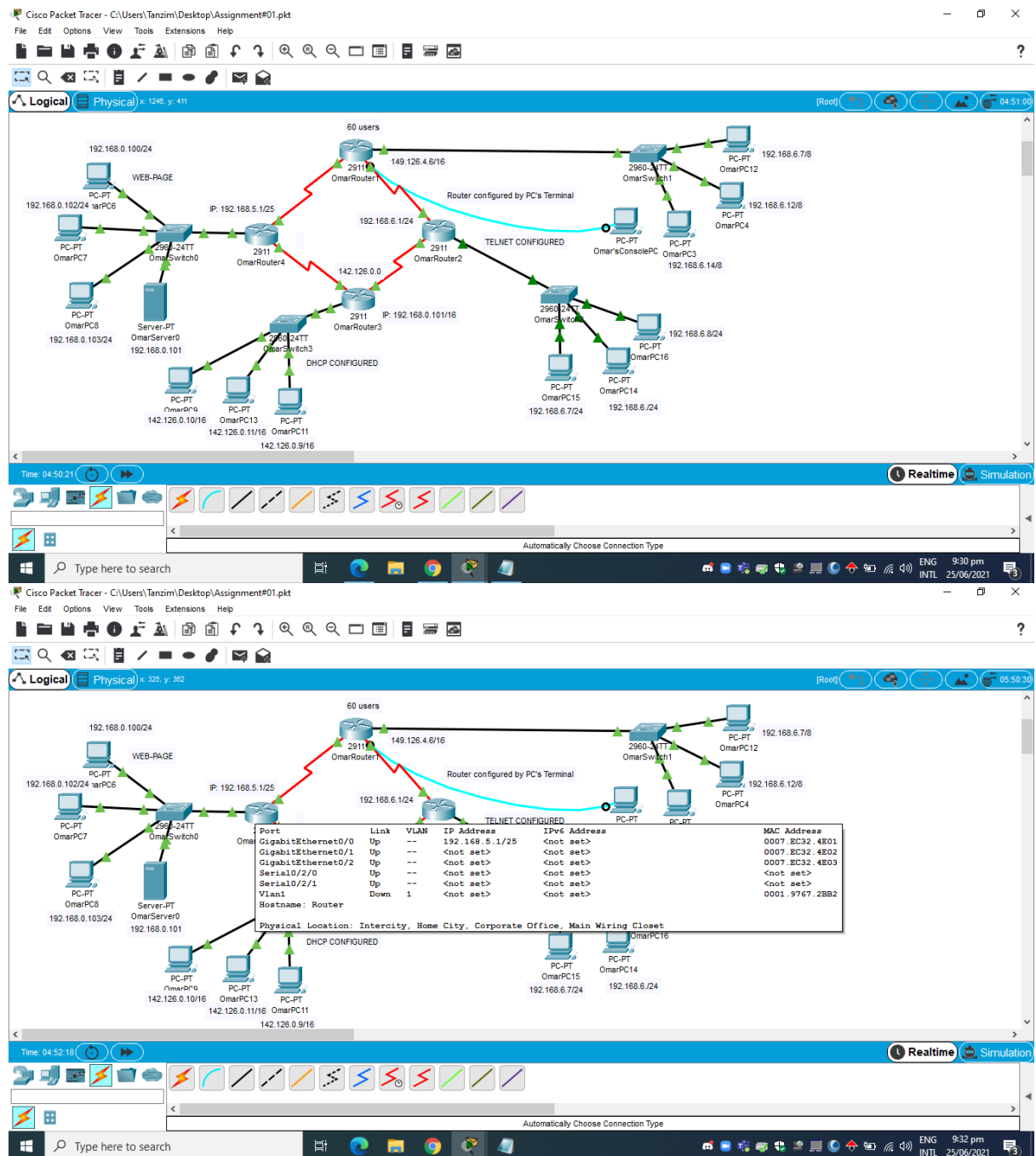


MUHAMMAD UMAR KHAN 10619

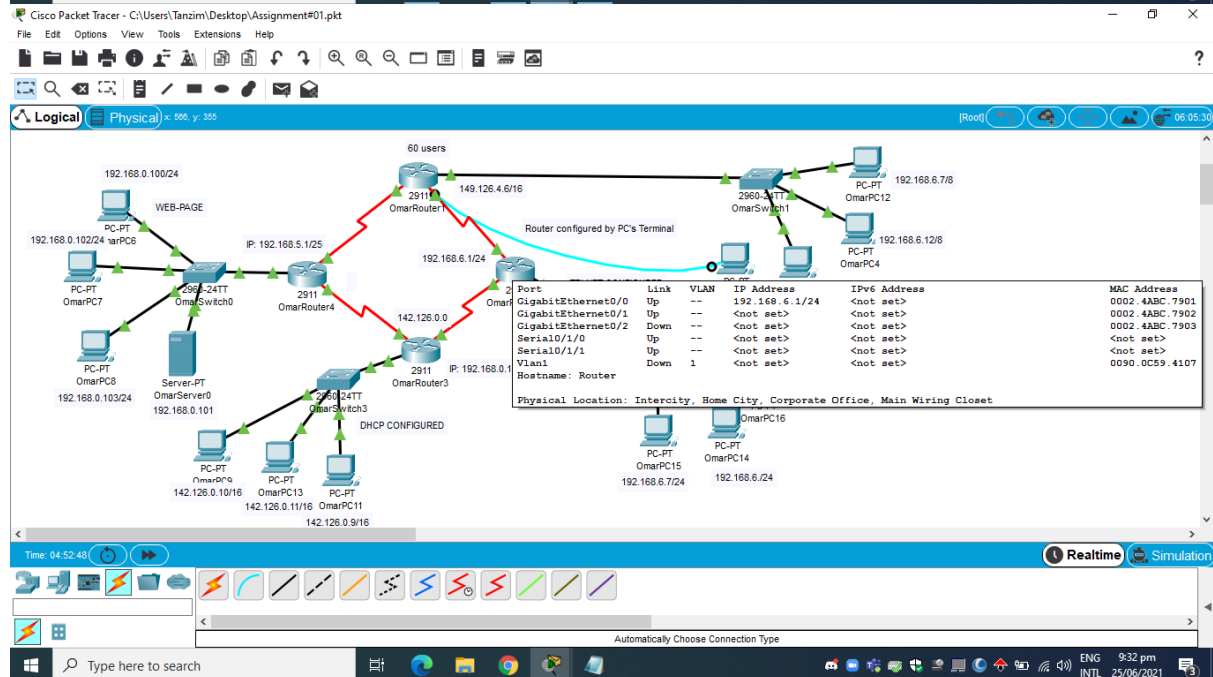
DCN ASSIGNMENT#01



The screenshot shows a Cisco Packet Tracer interface with a network topology. A red line traces a path from OmarRouter4 (IP: 192.168.5.1/25) through OmarSwitch0 (IP: 192.168.5.1/25) and OmarSwitch3 (IP: 192.168.0.101/16) to OmarRouter3 (IP: 192.168.0.101/16). A pop-up window displays configuration details for OmarRouter4:

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0	Up	--	149.126.4.6/16	<not set>	0001.C9DC.7A01
GigabitEthernet0/1	Up	--	<not set>	<not set>	0001.C9DC.7A02
GigabitEthernet0/2	Up	--	<not set>	<not set>	0001.C9DC.7A03
Serial0/2/0	Up	--	<not set>	<not set>	<not set>
Serial0/2/1	Up	--	<not set>	<not set>	<not set>
Vlan1	Down	1	<not set>	<not set>	0001.974B.66D0

Physical Location: Intercity, Home City, Corporate Office, Main Wiring Closet
Hostname: OmarKhan10619



MUHAMMAD UMAR KHAN 10619

DCN ASSIGNMENT#01

Cisco Packet Tracer - C:\Users\Tanzim\Desktop\Assignment#01.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 404, y: 442 [Root] 06:13:30

60 users

192.168.0.100/24 WEB-PAGE

192.168.0.102/24 OmarPC6

192.168.0.103/24 OmarPC7

192.168.0.103/24 OmarPC8

Server-PT OmarServer0 192.168.0.101

2911 OmarRouter4

IP: 192.168.5.1/25

2911 OmarRouter2

142.126.0.0

2911 OmarRouter1

149.126.4.6/16

2911 OmarSwitch1

192.168.6.7/8 OmarPC12

192.168.6.12/8 OmarPC4

192.168.6.14/8 OmarPC3

192.168.6.14/8 OmarPC11

142.126.0.10/16 OmarPC9

142.126.0.11/16 OmarPC13

142.126.0.9/16 OmarPC11

2911 OmarSwitch3

DHCP CONFIG

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0	Up	--	142.126.0.1/16	<not set>	0050.0F7C.5601
GigabitEthernet0/1	Down	--	<not set>	<not set>	0050.0F7C.5602
GigabitEthernet0/2	Down	--	<not set>	<not set>	0050.0F7C.5603
Serial0/2/0	Up	--	<not set>	<not set>	<not set>
Serial0/2/1	Up	--	<not set>	<not set>	<not set>
Vlan1	Down	1	<not set>	<not set>	<not set>
Hostname			OmarKhan10619		00D0.5B00.68E6

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

Time: 04:53:04 Realtime Simulation

Type here to search

Cisco Packet Tracer - C:\Users\Tanzim\Desktop\Assignment#01.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 387, y: 354 [Root] 06:46:00

60 users

192.168.0.100/24 WEB-PAGE

192.168.0.102/24 OmarPC6

192.168.0.103/24 OmarPC7

192.168.0.103/24 OmarPC8

Server-PT OmarServer0 192.168.0.101

2911 OmarRouter4

IP: 192.168.5.1/25

2911 OmarRouter2

142.126.0.0

2911 OmarRouter1

149.126.4.6/16

2911 OmarSwitch1

192.168.6.7/8 OmarPC12

192.168.6.12/8 OmarPC4

192.168.6.14/8 OmarPC3

192.168.6.14/8 OmarPC11

142.126.0.10/16 OmarPC9

142.126.0.11/16 OmarPC13

142.126.0.9/16 OmarPC11

2911 OmarSwitch3

DHCP CONFIG

Time: 04:53:56 Realtime Simulation

Type here to search

OmarPC8

Physical Config Desktop Programming Attributes

Web Browser

URL: http://192.168.0.101 Go Stop

Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.

Quick Links:

- [A small page](#)
- [Copyrights](#)
- [Image page](#)
- [Image](#)

☐ Top

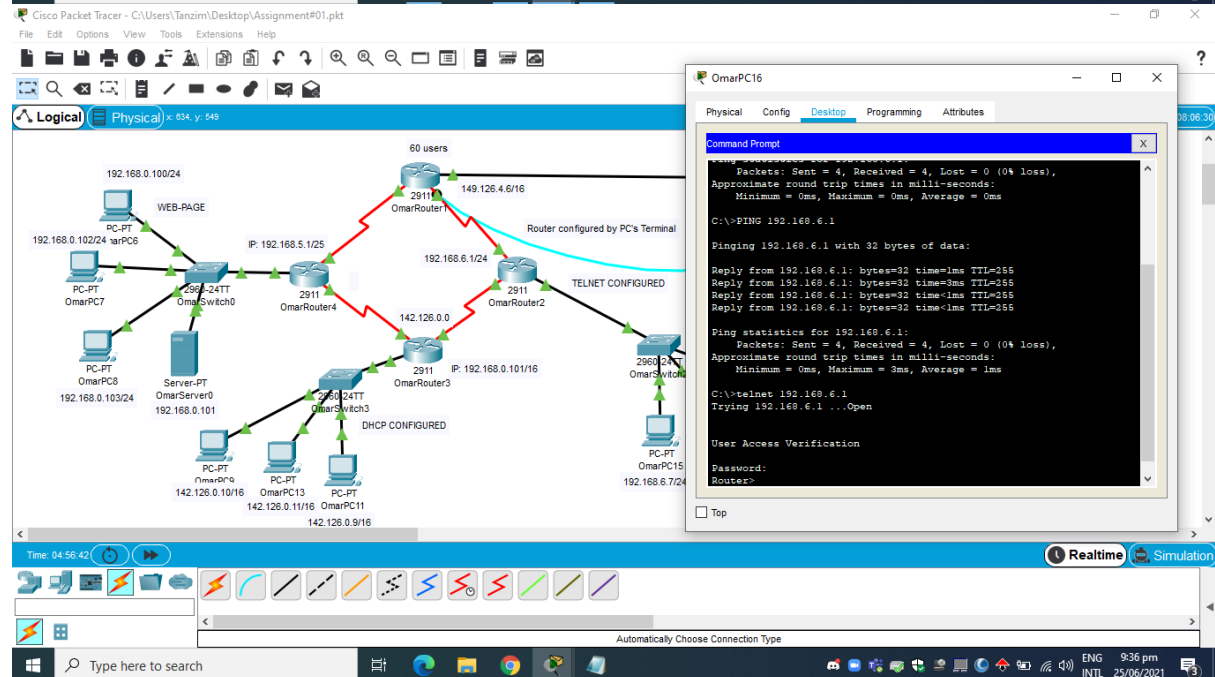
MUHAMMAD UMAR KHAN 10619

DCN ASSIGNMENT#01

The image displays two screenshots of the Cisco Packet Tracer application, showing a network topology and the configuration of a specific device.

Top Screenshot: The main window shows a network topology with various devices including PCs (OmarPC6, OmarPC7, OmarPC8, OmarPC9, OmarPC10, OmarPC11, OmarPC12, OmarPC13), a Server (OmarServer0), and Routers (OmarRouter4, OmarRouter3). A Web Page is also connected to the network. A configuration window for OmarPC6 is open, showing the Desktop tab with a Web Browser. The Web Browser displays a welcome message from Cisco Packet Tracer and quick links: [A small page](#), [Copyrights](#), [Image page](#), and [Image](#).

Bottom Screenshot: The main window shows the same network topology. A configuration window for OmarPC11 is open, showing the IP Configuration tab. The configuration is set to DHCP, and the IP Address is 142.126.0.9. The Subnet Mask is 255.255.0.0, and the Default Gateway is 142.126.0.1. The DNS Server is 0.0.0.0. The IPv6 Configuration tab is also visible, showing the configuration for IPv6 Address, Link Local Address, IPv6 Gateway, and IPv6 DNS Server.



MUHAMMAD UMAR KHAN 10619

DCN ASSIGNMENT#01

The image displays two screenshots of the Cisco Packet Tracer application, showing network configurations and command-line interfaces.

Top Screenshot: The main window shows a network topology with various devices including routers (OmarRouter1, OmarRouter2, OmarRouter3, OmarRouter4), switches (OmarSwitch0, OmarSwitch1, OmarSwitch2, OmarSwitch3), and PCs (OmarPC1 through OmarPC16). A terminal window titled "OmarPC15" is open, showing the following output:

```
Command Prompt
Reply from 192.168.6.1: bytes=32 time<1ms TTL=255
Ping statistics for 192.168.6.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>telnet 192.168.6.1
Trying 192.168.6.1 ...Open
User Access Verification
Password:
Router>
Router>
[Connection to 192.168.6.1 closed by foreign host]
C:\>telnet 192.168.6.1
Trying 192.168.6.1 ...Open
User Access Verification
Password:
Router>
Router>
```

Bottom Screenshot: The main window shows a different network topology with routers (OmarRouter1, OmarRouter2, OmarRouter3, OmarRouter4), switches (OmarSwitch0, OmarSwitch1, OmarSwitch2, OmarSwitch3), and PCs (OmarPC1 through OmarPC16). A terminal window titled "OmarConsolePC" is open, showing the following output:

```
Terminal
OmarKhan10619(config-if)#exit
OmarKhan10619(config)#interface GigabitEthernet0/2
OmarKhan10619(config-if)#no shutdown
OmarKhan10619(config-if)#
%LINK-3-CHANGED: Interface GigabitEthernet0/2, changed state to up
OmarKhan10619(config-if)#exit
OmarKhan10619(config)#interface GigabitEthernet0/1
OmarKhan10619(config-if)#no shutdown
OmarKhan10619(config-if)#
%LINK-3-CHANGED: Interface GigabitEthernet0/1, changed state to up
OmarKhan10619(config-if)#exit
OmarKhan10619(config)#interface GigabitEthernet0/0
OmarKhan10619(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/1, changed state to up
%LINK-3-CHANGED: Interface Serial0/2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up
%LINK-3-UPDOWN: Interface Serial0/2/0, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to down
```

MUHAMMAD UMAR KHAN 10619

DCN ASSIGNMENT#01

Cisco Packet Tracer - C:\Users\Tanzim\Desktop\Assignment#01.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 1020, y: 301

Time: 04:59:11

Realtime Simulation

Automatically Choose Connection Type

Type here to search

ENG 9:39 pm 25/06/2021

OmarPC6

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.0.100

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::240:BFF:FE94:384E

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

OmarPC7

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.0.102

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::260:3EFF:FED3:37DD

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

Diagram Description: The network diagram shows a central router (OmarRouter4) connected to two switches (OmarSwitch0 and OmarSwitch3). OmarSwitch0 is connected to a server (OmarServer0) and several PCs (OmarPC6, OmarPC7, OmarPC8, OmarPC9, OmarPC10, OmarPC11). OmarSwitch3 is connected to a server (OmarServer3) and several PCs (OmarPC12, OmarPC13, OmarPC14). The router has two interfaces: FastEthernet0/24 (IP: 192.168.0.1/25) and FastEthernet0/25 (IP: 192.168.5.1/25). The switches have interfaces: OmarSwitch0 (FastEthernet0/24, IP: 192.168.0.100/24) and OmarSwitch3 (FastEthernet0/24, IP: 192.168.5.100/24). The PCs have interfaces: OmarPC6 (FastEthernet0, IP: 192.168.0.102/24), OmarPC7 (FastEthernet0, IP: 192.168.0.103/24), OmarPC8 (FastEthernet0, IP: 192.168.0.104/24), OmarPC9 (FastEthernet0, IP: 142.126.0.10/16), OmarPC10 (FastEthernet0, IP: 142.126.0.11/16), OmarPC11 (FastEthernet0, IP: 142.126.0.9/16), OmarPC12 (FastEthernet0, IP: 192.168.6.7/8), OmarPC13 (FastEthernet0, IP: 192.168.6.12/8), and OmarPC14 (FastEthernet0, IP: 192.168.6.12/8). The server (OmarServer0) has an interface (FastEthernet0, IP: 192.168.0.101).

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DCN ASSIGNMENT#01

The image displays two screenshots of the Cisco Packet Tracer interface, showing a network topology and the configuration of two PCs, OmarPC8 and OmarPC15.

Network Topology:

- The network is divided into two main sections: a left section with a 192.168.0.100/24 network and a right section with a 192.168.5.1/25 network.
- On the left, there is a PC-PT (OmarPC6) connected to a PC-PT (OmarPC7) and a PC-PT (OmarPC8). OmarPC8 is connected to a Server-PT (OmarServer0) and a PC-PT (OmarPC9). OmarPC9 is connected to a PC-PT (OmarPC13) and a PC-PT (OmarPC11).
- On the right, there is a PC-PT (OmarPC12) and a PC-PT (OmarPC4).
- The network is connected via a 2911 router (OmarRouter4) and a 2911 switch (OmarSwitch3).

OmarPC8 Configuration:

- Interface: FastEthernet0
- IP Configuration: Static
- IP Address: 192.168.0.103
- Subnet Mask: 255.255.255.0
- Default Gateway: 0.0.0.0
- DNS Server: 0.0.0.0

OmarPC15 Configuration:

- Interface: FastEthernet0
- IP Configuration: Static
- IP Address: 192.168.6.7
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.6.1
- DNS Server: 0.0.0.0

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DCN ASSIGNMENT#01

Cisco Packet Tracer - C:\Users\Tanzim\Desktop\Assignment#01.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 800, y: 328

Time: 05:00:38

Realtime Simulation

Automatically Choose Connection Type

Type here to search

Cisco Packet Tracer - C:\Users\Tanzim\Desktop\Assignment#01.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 800, y: 488

Time: 05:00:52

Realtime Simulation

Automatically Choose Connection Type

Type here to search

OmarPC14

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.6.5

Subnet Mask 255.255.255.0

Default Gateway 192.168.6.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::230:A3FF:FE58:C213

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

OmarPC16

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.6.8

Subnet Mask 255.255.255.0

Default Gateway 192.168.6.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::290:CFF:FE4E:AE4

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

MUHAMMAD UMAR KHAN 10619

DCN ASSIGNMENT#01

Cisco Packet Tracer - C:\Users\tanzim\Desktop\Assignment#01.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 970, y: 299

Time: 05:01:10

Realtime Simulation

Automatically Choose Connection Type

Type here to search

OmarPC12

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.6.7

Subnet Mask 255.0.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80:201:C7FF:FE78:8A22

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

OmarPC4

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.6.12

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80:20A:41FF:FE79:58C9

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Top

Logical Physical x: 956, y: 309

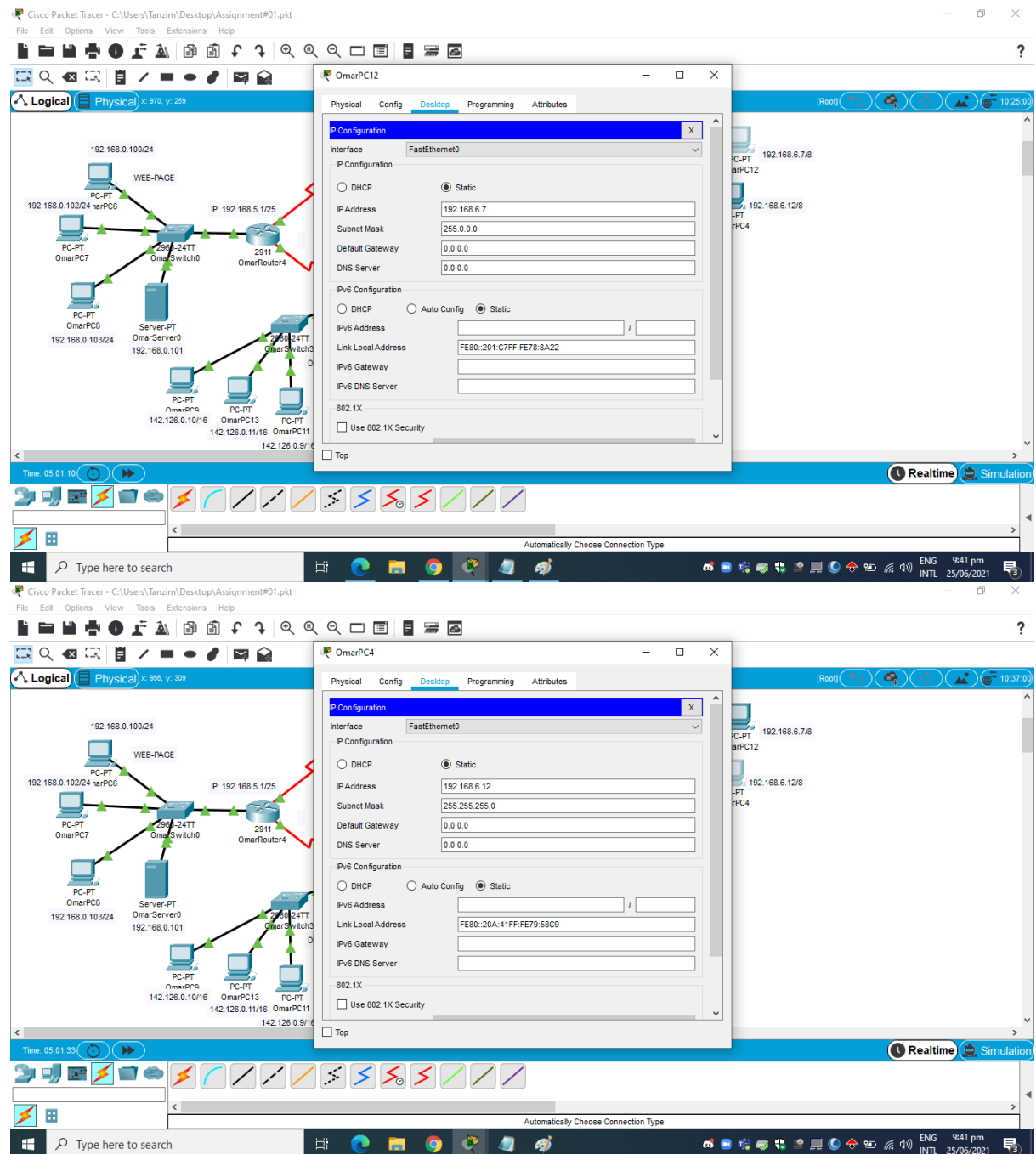
Time: 05:01:33

Realtime Simulation

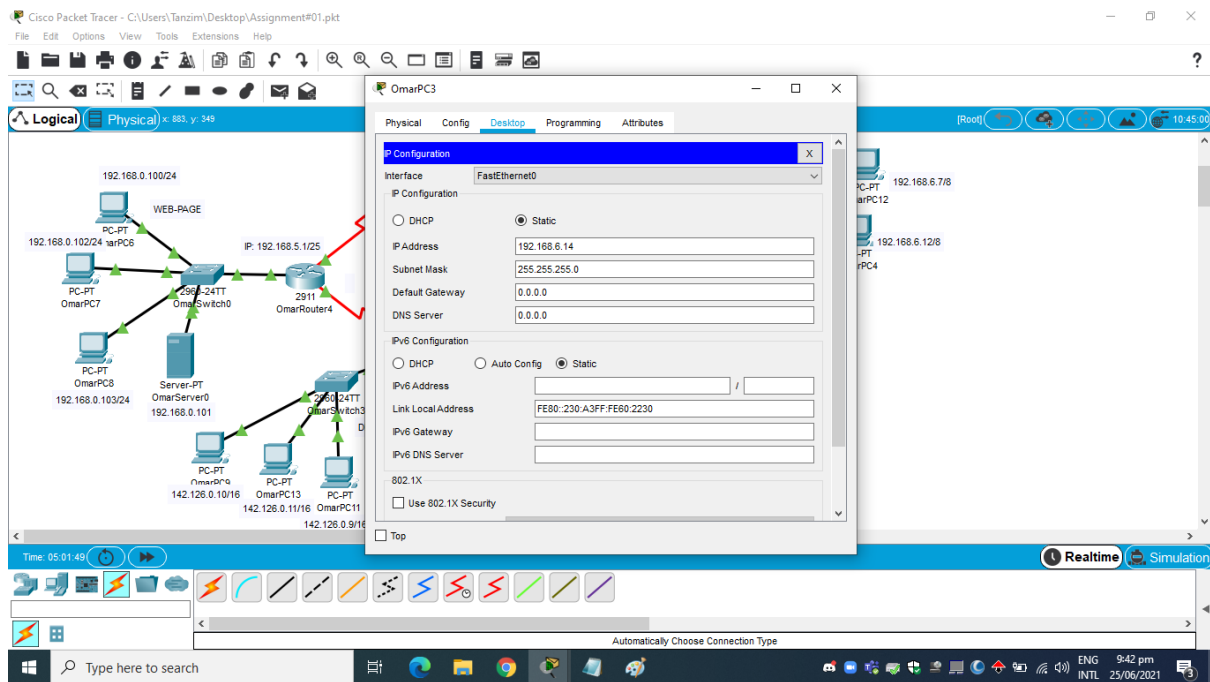
Automatically Choose Connection Type

Type here to search

ENG 9:41 pm
INTL 25/06/2021



MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01



TELNET CODE:

A summary of U.S. laws governing Cisco cryptographic products may be found at:

<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to
export@cisco.com.

Cisco CISCO2911/K9 (revision 1.0) with 491520K/32768K bytes of memory.

Processor board ID FTX152400KS

3 Gigabit Ethernet interfaces

2 Low-speed serial(sync/async) network interface(s)

DRAM configuration is 64 bits wide with parity disabled.

255K bytes of non-volatile configuration memory.

249856K bytes of ATA System CompactFlash 0 (Read/Write)

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: n

Press RETURN to get started!

Router>

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int gig0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#

Router(config)#^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#en

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int gig0/0

Router(config-if)#ip address 192.168.6.1 255.255.255.0

Router(config-if)#ip address 192.168.6.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#exit

Router con0 is now available

Press RETURN to get started.

Router>en

Router#conf t

^

% Invalid input detected at '^' marker.

Router#en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#enable password

% Incomplete command.

Router(config)#enable password omarkhan

Router(config)#line console 0

Router(config-line)#password omarkhan

Router(config-line)#exit

Router(config)#vty 0 4

^

% Invalid input detected at '^' marker.

Router(config)#line vty 0 4

Router(config-line)#password omarkhan

Router(config-line)#end

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router con0 is now available

Press RETURN to get started.

Router>enable

Password:

Password:

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet0/1

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

Router(config-if)#exit

Router(config)#interface Serial0/1/1

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/1/1, changed state to up

Router(config-if)#exit

Router(config)#interface Serial0/1/0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1, changed state to up

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router con0 is now available

Press RETURN to get started.

DHCP CODE:

2 Low-speed serial(sync/async) network interface(s)

DRAM configuration is 64 bits wide with parity disabled.

255K bytes of non-volatile configuration memory.

249856K bytes of ATA System CompactFlash 0 (Read/Write)

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: n

Press RETURN to get started!

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int gig0/0

Router(config-if)#ip address 142.126.0.1 255.255.0.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#ip dhcp excluded-address 142.126.0.1 142.126.0.8

Router(config)#ip dhcp pool UmarKhan10619

Router(dhcp-config)#network 142.126.0.0 255.255.0.0

Router(dhcp-config)#default-router 142.126.0.1

Router(dhcp-config)#hostname OmarKhan10619

OmarKhan10619(config)#exit

OmarKhan10619#

%SYS-5-CONFIG_I: Configured from console by console

^Z

OmarKhan10619#

OmarKhan10619 con0 is now available

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

Press RETURN to get started.

OmarKhan10619>enable

OmarKhan10619#

OmarKhan10619#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

OmarKhan10619(config)#interface GigabitEthernet0/0

OmarKhan10619(config-if)#

OmarKhan10619 con0 is now available

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

Press RETURN to get started.

OmarKhan10619>enable

OmarKhan10619#

OmarKhan10619#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

OmarKhan10619(config)#interface Serial0/2/1

OmarKhan10619(config-if)#no shutdown

OmarKhan10619(config-if)#

%LINK-5-CHANGED: Interface Serial0/2/1, changed state to up

OmarKhan10619(config-if)#exit

OmarKhan10619(config)#interface Serial0/2/0

OmarKhan10619(config-if)#no shutdown

OmarKhan10619(config-if)#

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up

%LINK-3-UPDOWN: Interface Serial0/2/0, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to down

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

OmarKhan10619 con0 is now available

Press RETURN to get started.

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up

OmarKhan10619>enable

OmarKhan10619#

OmarKhan10619#configure terminal

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01

Enter configuration commands, one per line. End with CNTL/Z.

```
OmarKhan10619(config)#interface Serial0/2/0
```

```
OmarKhan10619(config-if)#
```

```
OmarKhan10619(config-if)#exit
```

```
OmarKhan10619(config)#interface Serial0/2/0
```

```
OmarKhan10619(config-if)#
```

```
OmarKhan10619(config-if)#exit
```

```
OmarKhan10619(config)#interface Serial0/2/0
```

```
OmarKhan10619(config-if)#
```

```
OmarKhan10619(config-if)#exit
```

```
OmarKhan10619(config)#interface Serial0/2/0
```

```
OmarKhan10619(config-if)#
```

OmarKhan10619 con0 is now available

Press RETURN to get started.

MUHAMMAD UMAR KHAN 10619
DCN ASSIGNMENT#01