

[CCN]

Lab No 10 Tasks

Name: Javeria Zaheer

Sap Id: 41473

Task 1:

Perform all the tasks in the manual and take screenshot. (10 marks)

```

C:\>ipconfig /all

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Physical Address.....: 0007.ECCC.C626
    Link-local IPv6 Address.....: FE80::207:ECFF:FECC:C626
    IP Address.....: 0.0.0.0
    Subnet Mask.....: 0.0.0.0
    Default Gateway.....: 0.0.0.0
    DNS Servers.....: 0.0.0.0
    DHCP Servers.....: 0.0.0.0
    DHCPv6 Client DUID.....: 00-01-00-01-62-64-4C-3A-00-07-EC-CC-C6-26

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Physical Address.....: 0001.97E5.6A03
    Link-local IPv6 Address.....: ::
    IP Address.....: 0.0.0.0
    Subnet Mask.....: 0.0.0.0
    Default Gateway.....: 0.0.0.0
    DNS Servers.....: 0.0.0.0
    DHCP Servers.....: 0.0.0.0
    DHCPv6 Client DUID.....: 00-01-00-01-62-64-4C-3A-00-07-EC-CC-C6-26

C:\>
C:\>ipconfig /all

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Physical Address.....: 0007.ECCC.C626
    Link-local IPv6 Address.....: FE80::207:ECFF:FECC:C626
    IP Address.....: 192.168.0.101
    Subnet Mask.....: 255.255.255.0
    Default Gateway.....: 192.168.0.1
    DNS Servers.....: 0.0.0.0
    DHCP Servers.....: 192.168.0.1
    DHCPv6 Client DUID.....: 00-01-00-01-62-64-4C-3A-00-07-EC-CC-C6-26

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Physical Address.....: 0001.97E5.6A03
    Link-local IPv6 Address.....: ::
    IP Address.....: 0.0.0.0
    Subnet Mask.....: 0.0.0.0
    Default Gateway.....: 0.0.0.0
    DNS Servers.....: 0.0.0.0
    DHCP Servers.....: 0.0.0.0
    DHCPv6 Client DUID.....: 00-01-00-01-62-64-4C-3A-00-07-EC-CC-C6-26

```

ipconfig /all

```
Bluetooth Connection:

Connection-specific DNS Suffix...:
Physical Address.....: 0001.97E5.6A03
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
DNS Servers.....: 0.0.0.0
DHCP Servers.....: 0.0.0.0
DHCPv6 Client DUID.....: 00-01-00-01-62-64-4C-3A-00-07-EC-CC-C6-26

C:\>ipconfig /release

IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
DNS Server.....: 0.0.0.0

C:\>ipconfig /renew

IP Address.....: 192.168.0.101
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 192.168.0.1
DNS Server.....: 208.67.220.220
```

```
C:\>ping 208.67.220.220

Pinging 208.67.220.220 with 32 bytes of data:

Reply from 208.67.220.220: bytes=32 time=13ms TTL=127
Reply from 208.67.220.220: bytes=32 time=15ms TTL=127
Reply from 208.67.220.220: bytes=32 time=9ms TTL=127
Reply from 208.67.220.220: bytes=32 time=16ms TTL=127

Ping statistics for 208.67.220.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 9ms, Maximum = 16ms, Average = 13ms

C:\>|
```

Laptop

```
C:\>ping cisco.com

Pinging 208.67.220.220 with 32 bytes of data:

Reply from 208.67.220.220: bytes=32 time=2ms TTL=127
Reply from 208.67.220.220: bytes=32 time=9ms TTL=127
Reply from 208.67.220.220: bytes=32 time=1ms TTL=127
Reply from 208.67.220.220: bytes=32 time=1ms TTL=127

Ping statistics for 208.67.220.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 9ms, Average = 3ms
```

Pc

Cloud

From Port	To Port
Coaxial7	Ethernet6

Router

Wireless-N Broadband Router

Firmware Version: v0.93.3

Wireless

Setup

Wireless

Security

Access Restrictions

Applications & Gaming

Administration

Status

Basic Wireless Settings

Wireless Security

Guest Network

Wireless MAC Filter

Advanced Wireless Settings

Basic Wireless Settings

Network Mode: Mixed

Network Name (SSID): HomeNetwork

Radio Band: Auto

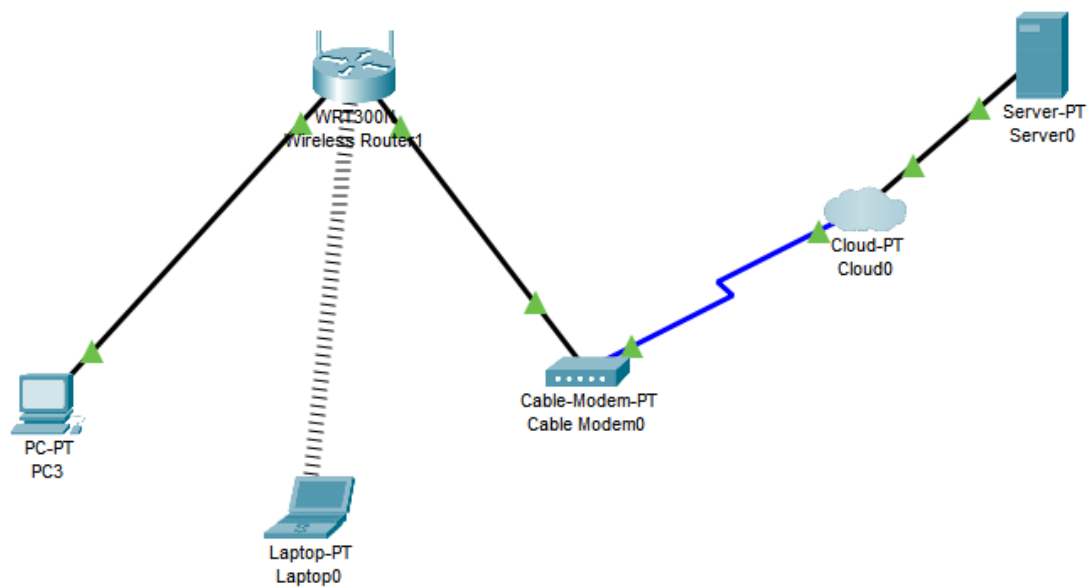
Wide Channel: Auto

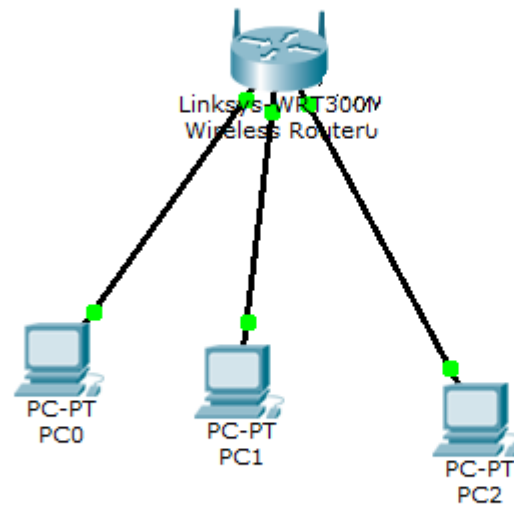
Standard Channel: 1 - 2.412GHz

SSID Broadcast: ☒ Enabled ☐ Disabled

Help...

Diagram:





Task 2:

Create the above topology. (10 marks)

The screenshot shows the Cisco Packet Tracer interface. On the left, a partial view of the network topology is visible, showing a router connected to two PCs. The main window displays the configuration for PC0, with the 'Desktop' tab selected. A 'Command Prompt' window is open, showing the results of a ping command.

```

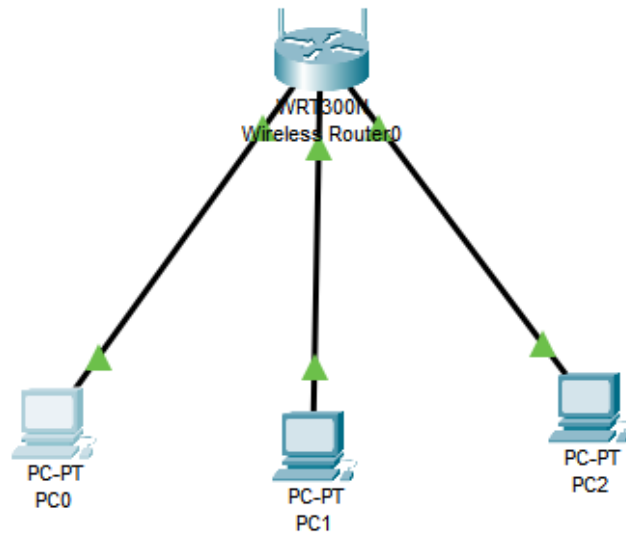
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.102

Pinging 192.168.0.102 with 32 bytes of data:

Reply from 192.168.0.102: bytes=32 time<1ms TTL=128
Reply from 192.168.0.102: bytes=32 time=1ms TTL=128
Reply from 192.168.0.102: bytes=32 time<1ms TTL=128
Reply from 192.168.0.102: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.0.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
  
```



PC1

Physical Config Desktop Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address: 192.168.0.101

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

DNS Server: 208.67.220.220

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::20C:CFFF:FE4A:3403

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

ExtensionsWindowHelp

4, y: 353

PC2

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☒ DHCP☐ Static

DHCP request successful.

IPv4 Address

192.168.0.102

Subnet Mask

255.255.255.0

Default Gateway

192.168.0.1

DNS Server

208.67.220.220

IPv6 Configuration

☐ Automatic☒ Static

IPv6 Address

Link Local Address

FE80::2D0:97FF:FE61:633

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

Wireless

PC-PT
PC0

PC-F
PC0