

Faculty of Computing



[CCN]

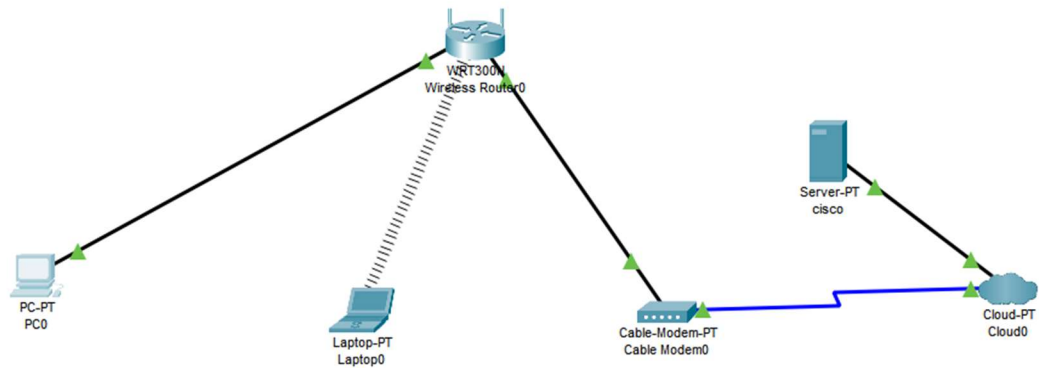
Lab No 10 Tasks

Name: Laiba Afridi

Sap: 39984

Task 1:

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



Wireless-N Broadband Router

Firmware Version: v0.93.1

Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
Basic Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status

Internet Setup

Internet Connection type: Automatic Configuration - DHCP

Optional Settings (required by some internet service providers):

Host Name:

Domain Name:

MTU: Size: 1500

Network Setup

Router IP

IP Address: 192 168 0 1

Subnet Mask: 255.255.255.0

DHCP Server Settings

DHCP Server: ☒ Enabled ☐ Disabled

Start IP Address: 192.168.0. 100

Maximum number of Users: 50

IP Address Range: 192.168.0. 100 - 149

Help...

Wireless-N Broadband Router		WRT300N
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...](#)

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Global Settings

Display Name

Gateway/DNS IPv4

☐ DHCP
☒ Static

Default Gateway

DNS Server

Gateway/DNS IPv6

☐ Automatic
☒ Static

Default Gateway

DNS Server

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

DHCP
Interface: FastEthernet0 Service: ☒ On ☐ Off
Pool Name: serverPool
Default Gateway: 0.0.0.0
DNS Server: 0.0.0.0
Start IP Address: 208 67 220 0
Subnet Mask: 255 255 255 0
Maximum Number of Users: 512
TFTP Server: 0.0.0.0
WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
DSCLPool	208.67.2...	208.67.2...	208.67.2...	255.255...	50	0.0.0.0	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	208.67.2...	255.255...	512	0.0.0.0	0.0.0.0

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

DNS
DNS Service: ☒ On ☐ Off
Resource Records
Name: Type: A Record
Address:

Add Save Remove

No.	Name	Type	Detail
0	cisco	A Record	208.67.220.220

Physical Config Attributes

MODULES
PT-CLOUD-NM-1AM
PT-CLOUD-NM-1CE
PT-CLOUD-NM-1CFE
PT-CLOUD-NM-1CGE
PT-CLOUD-NM-1CX
PT-CLOUD-NM-1FFE
PT-CLOUD-NM-1FGE
PT-CLOUD-NM-1S

Physical Device View

Zoom In

Original Size

Zoom Out



Physical Config Attributes

GLOBAL
Settings
TV Settings
CONNECTIONS
Frame Relay
DSL
Cable
INTERFACE
Serial0
Serial1
Serial2
Serial3
Modem4
Modem5
Ethernet6
Coaxial7
FastEthernet9

Cable

Coaxial7

<->

Ethernet6

Port

Port

From Port	To Port
Coaxial7	Ethernet6

```
C:\>ping cisco

Pinging 208.67.220.220 with 32 bytes of data:

Reply from 208.67.220.220: bytes=32 time=11ms TTL=127
Reply from 208.67.220.220: bytes=32 time=9ms TTL=127
Reply from 208.67.220.220: bytes=32 time=42ms TTL=127
Reply from 208.67.220.220: bytes=32 time=25ms 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 = 42ms, Average = 21ms

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=30ms TTL=128
Reply from 192.168.0.102: bytes=32 time=22ms TTL=128
Reply from 192.168.0.102: bytes=32 time=8ms TTL=128
Reply from 192.168.0.102: bytes=32 time=9ms 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 = 8ms, Maximum = 30ms, Average = 17ms
```

```
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.....: 192.168.0.102
Subnet Mask.....: 255.255.255.0
Default Gateway...: 192.168.0.1
DNS Server.....: 208.67.220.220

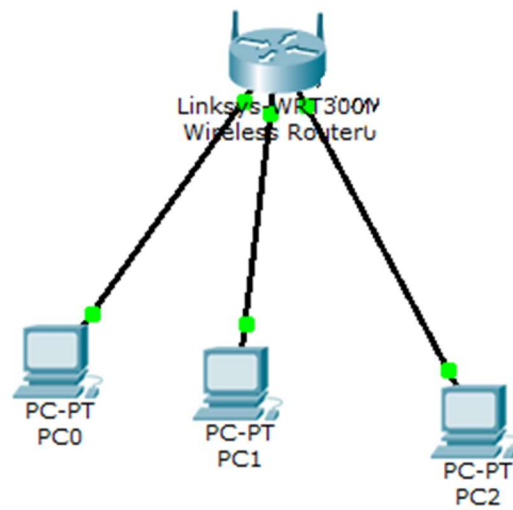
C:\>ping cisco

Pinging 208.67.220.220 with 32 bytes of data:

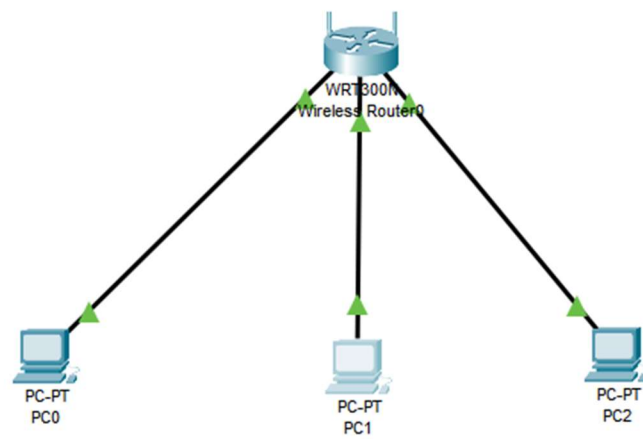
Reply from 208.67.220.220: bytes=32 time=3ms TTL=127
Reply from 208.67.220.220: bytes=32 time=12ms TTL=127
Reply from 208.67.220.220: bytes=32 time=13ms TTL=127
Reply from 208.67.220.220: bytes=32 time=1ms TTL=127

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 = 13ms, Average = 7ms
```

Task 2:



Step 1:



Step 2:

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.0.100

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

Step 3:

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.0.101

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::240:BFF:FE3C:A956

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Step 4:

The screenshot shows a window titled "PC2" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are five tabs: "Physical", "Config", "Desktop" (which is selected and highlighted), "Programming", and "Attributes".

Under the "Desktop" tab, there is a section titled "IP Configuration" with a blue header bar and a close button (X) on the right. Below this header, there is a dropdown menu labeled "Interface" with "FastEthernet0" selected. Below the dropdown, there are two radio buttons: "DHCP" (which is selected) and "Static".

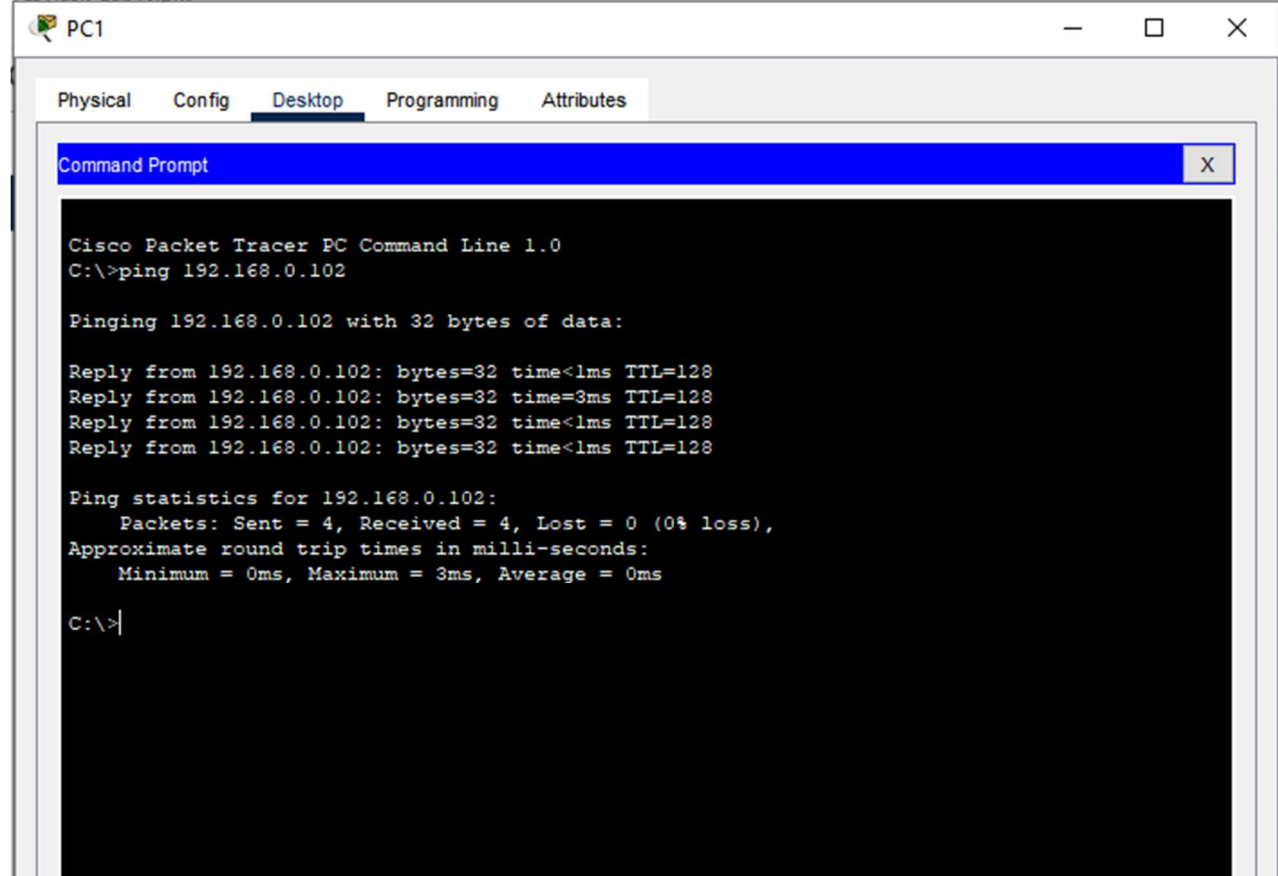
Below the radio buttons, there are five text input fields for IPv4 configuration:

- IPv4 Address: 192.168.0.102
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.0.1
- DNS Server: 0.0.0.0

Below the IPv4 configuration fields, there is a section titled "IPv6 Configuration". It has two radio buttons: "Automatic" and "Static" (which is selected). Below the radio buttons, there are five text input fields for IPv6 configuration:

- IPv6 Address: (empty field) / (empty field)
- Link Local Address: FE80::260:2FFF:FEDE:9E79
- Default Gateway: (empty field)
- DNS Server: (empty field)

Ping PC1 TO PC2



Create the above topology. (10 marks)