

LINUX NETWORKING MODULE 5 ASSESSMENT SOLUTION

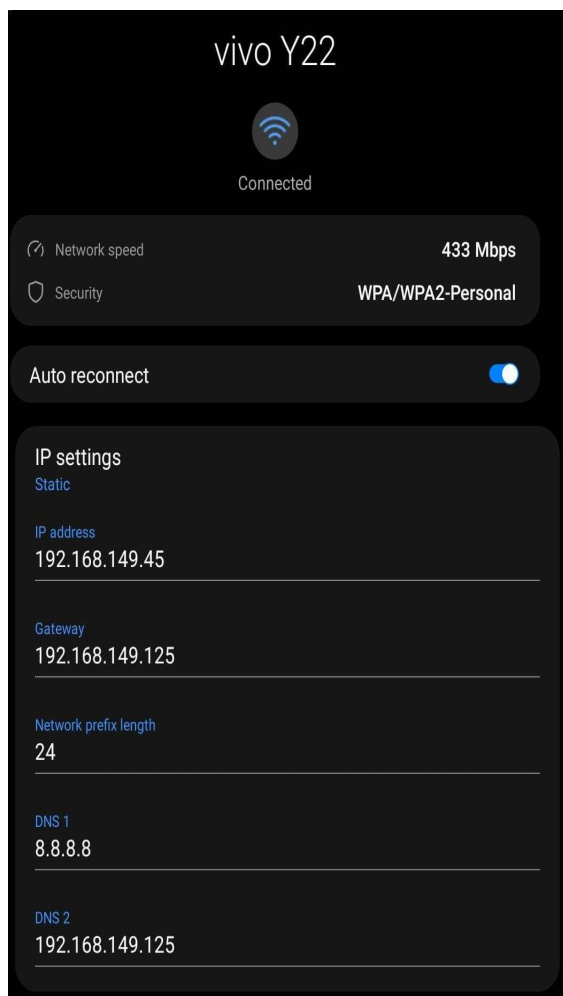
-BY SAKTHI KUMAR S

3) Manually configure static IPs on the client devices (like Pc or your mobile phone) and verify connectivity using ping.

1)On Mobile:

Android:

1. Go to Settings > Wi-Fi.
2. Tap and hold your connected Wi-Fi network and select Modify Network.
3. Expand Advanced Options and change IP Settings to Static.



Save and connect and verify the status of the connection using Ping tools.

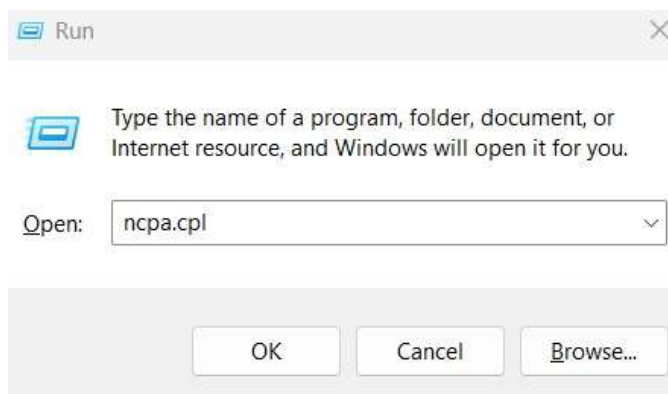


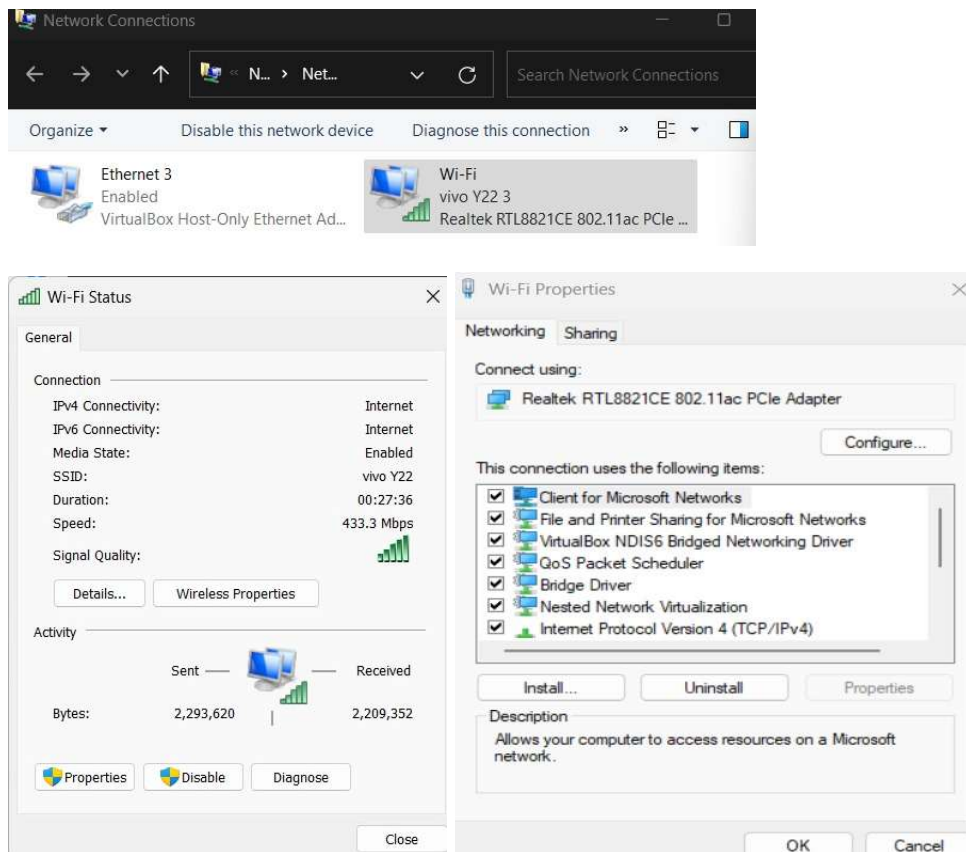
← Ping	
192.168.149.45	PING
Ping 192.168.149.45 ICMP	
From 192.168.149.45 Sequence 1, size 64 bytes, ttl 64	0 ms
From 192.168.149.45 Sequence 2, size 64 bytes, ttl 64	0 ms
From 192.168.149.45 Sequence 3, size 64 bytes, ttl 64	0 ms
Ping statistics: 3 transmitted, 3 received, 0% packet loss Total execution time 3770 ms	
Time statistics: Min 0 \ avg 0 \ max 0 \ mdev 0 ms	

On PC:

Open Network Settings:

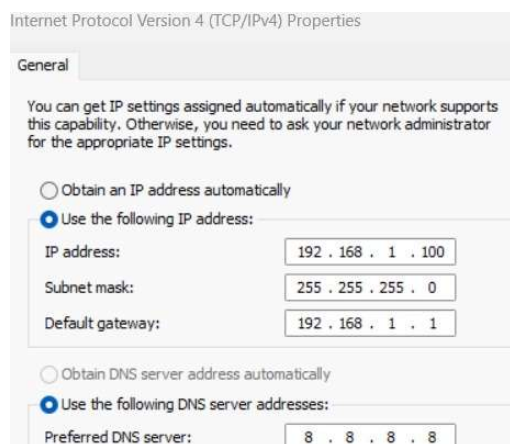
- Press Win + R, type `ncpa.cpl` and press Enter.





- Select Internet Protocol Version 4 (TCP/IPv4) and click Properties

Configure the static IP address:



Ping on command Prompt:

```
PS C:\WINDOWS\system32> ping 192.168.1.1

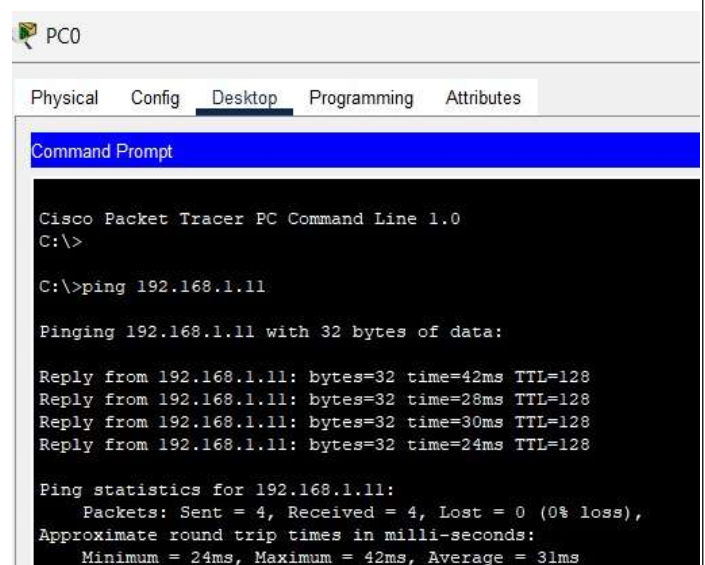
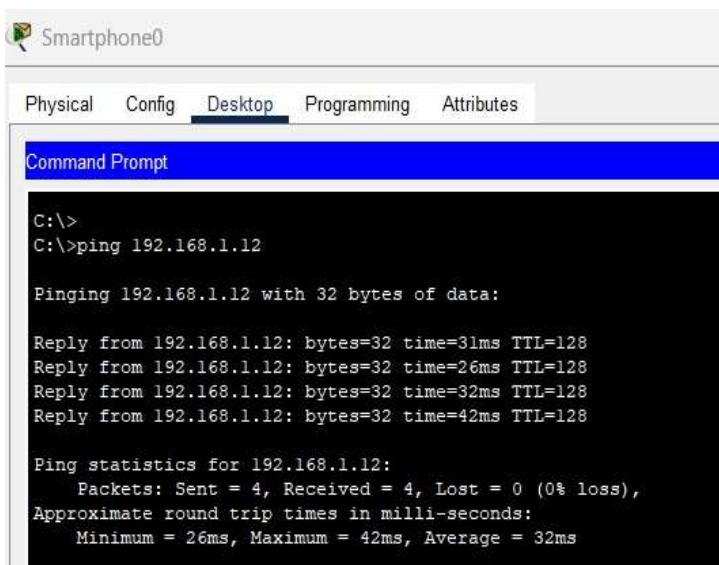
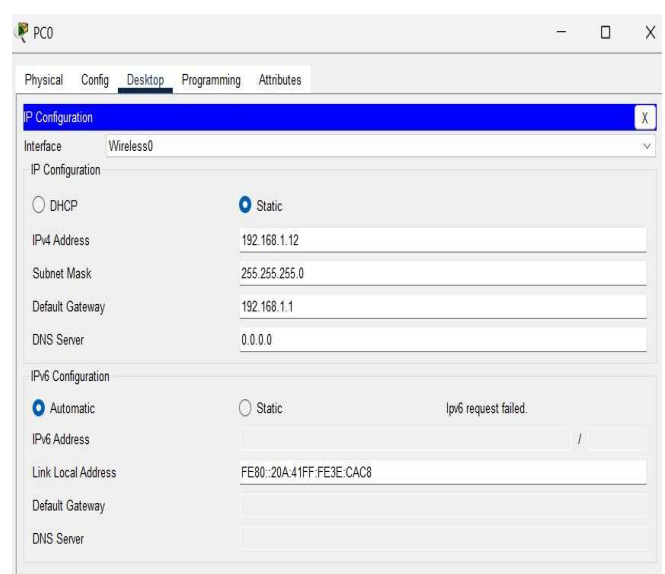
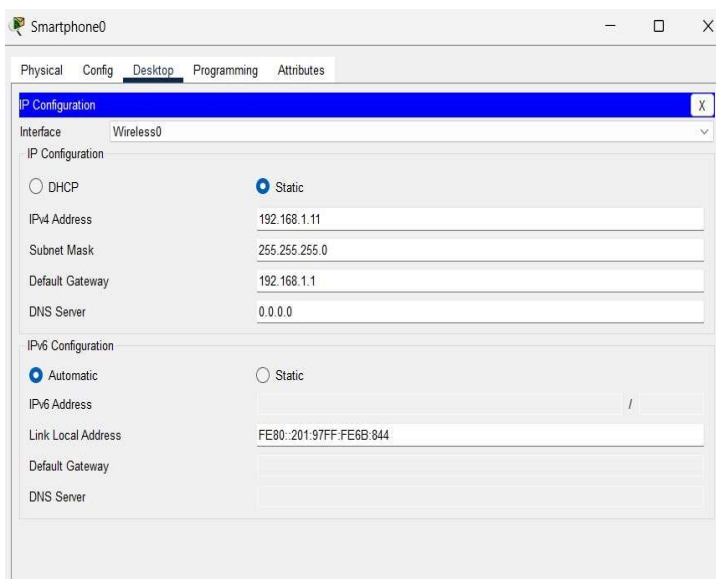
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=2ms TTL=64
Reply from 192.168.1.1: bytes=32 time=3ms TTL=64
Reply from 192.168.1.1: bytes=32 time=2ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

LINUX NETWORKING MODULE 5 ASSESSMENT SOLUTION

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3) Manually configure static IPs on the client devices (like Pc or your mobile phone) and verify connectivity using ping. 3) using Cisco Packet tracer:



Network Setup	
Router IP	IP Address: 192 . 168 . 1 . 1 Subnet Mask: 255.255.255.0
DHCP Server Settings	DHCP Server: <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled DHCP Reservation
	Start IP Address: 192.168.1. 10
	Maximum number of Users: 50
	IP Address Range: 192.168.1. 10 - 59
	Client Lease Time: 0 minutes (0 means one day)
	Static DNS 1: 0 . 0 . 0 . 0
Static DNS 2: 0 . 0 . 0 . 0	
Static DNS 3: 0 . 0 . 0 . 0	
WINS: 0 . 0 . 0 . 0	

Wireless Router0

Physical Config GUI Attributes

GLOBAL Settings Algorithm Settings
 INTERFACE Internet LAN **Wireless**

Wireless Settings

SSID: sakthi

2.4 GHz Channel: 1 - 2.412GHz

Coverage Range (meters): 250.00

Authentication: ☐ Disabled ☐ WEP ☒ WPA2-PSK ☐ WPA ☐ WPA2

WEP Key:

PSK Pass Phrase: sakthi123

RADIUS Server Settings

IP Address:

Shared Secret:

Encryption Type: AES

PC0

Physical Config Desktop Programming Attributes

Link Information Connect Profiles

More Information **Infrastructure Mode**

You have successfully connected to the access point

Signal Strength Link Quality

Adapter is Active

Wireless-N Notebook Adapter Wireless Network Monitor v1.0 Model No. WPC300N

Link Information **Connect** Profiles

Below is a list of available wireless networks. To search for more wireless networks, click the **Refresh** button. To view more information about a network, select the wireless network name. To connect to that network, click the **Connect** button below.

Wireless Network Name	CH	Signal
sakthi	1	100%

Site Information

Wireless Mode: Infrastructure
 Network Type: Mixed B/G/N
 Radio Band: Auto
 Security: WPA2-PSK
 MAC Address: 00D0.BA96.A206

Refresh Connect

Adapter is Active