

LINUX NETWORKING MODULE 5 ASSESSMENT SOLUTION

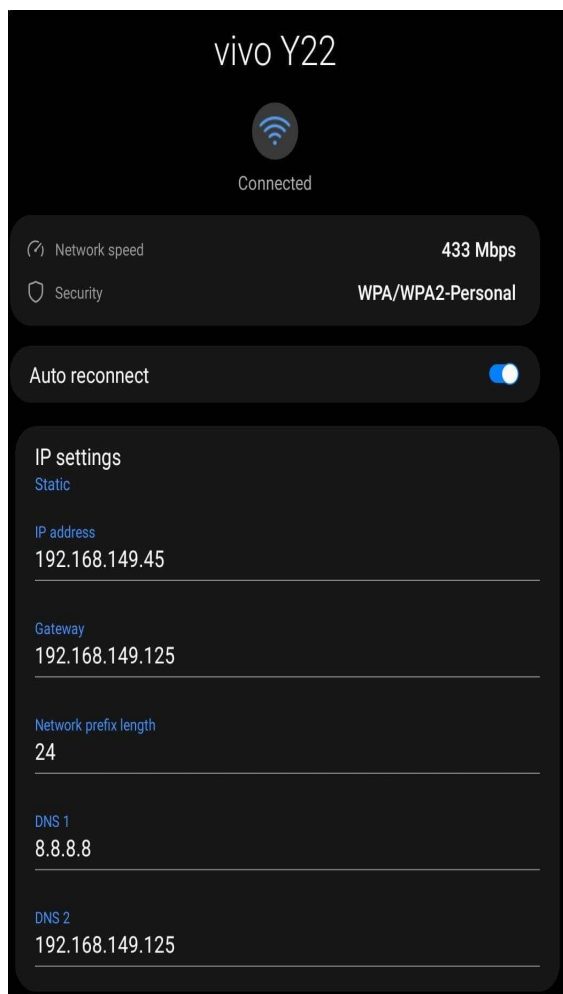
-BY SAKTHI KUMAR S

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.

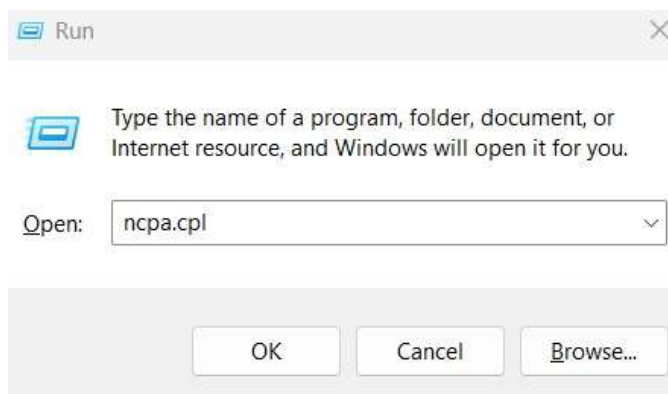


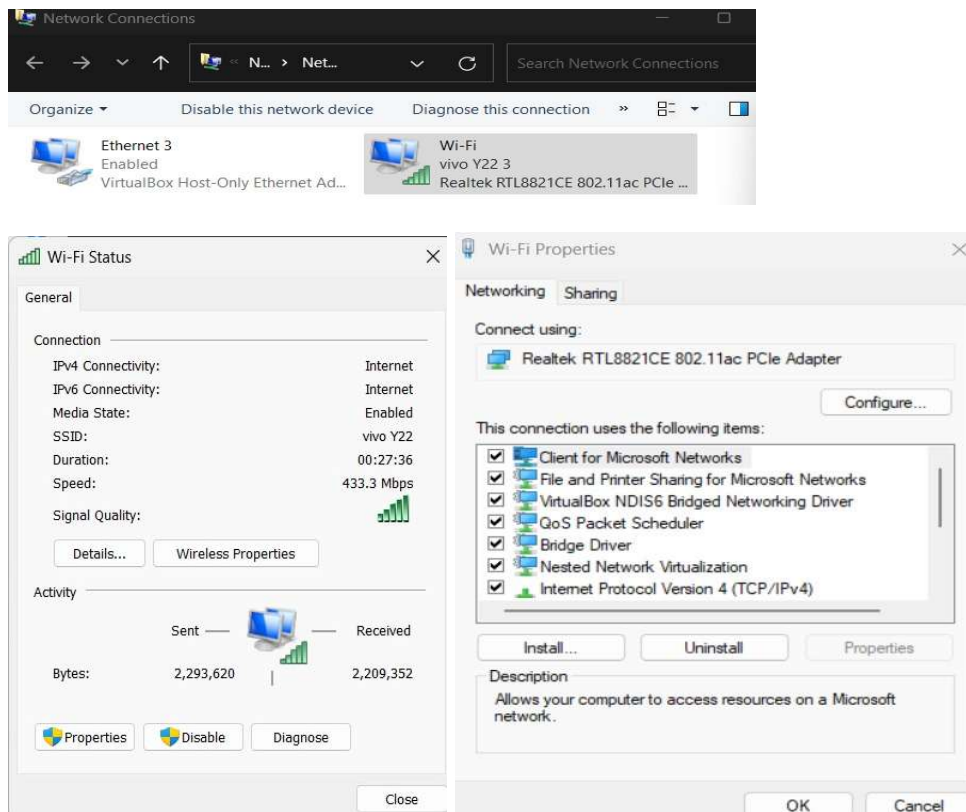
← Ping	
192.168.149.45	PING
Ping 192.168.149.45 ICMP	
From 192.168.149.45 Sequence 1, size 64 bytes, ttl 64	0 ms
From 192.168.149.45 Sequence 2, size 64 bytes, ttl 64	0 ms
From 192.168.149.45 Sequence 3, size 64 bytes, ttl 64	0 ms
Ping statistics: 3 transmitted, 3 received, 0% packet loss Total execution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

On PC:

Open Network Settings:

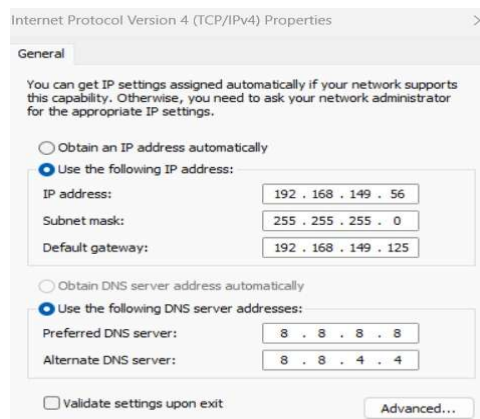
- Press Win + R, type `ncpa.cpl` and press Enter.





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

Configure the static IP address:



Ping on command Prompt:

```
PS C:\Users\sakthi kumar> ping 192.168.149.56

Pinging 192.168.149.56 with 32 bytes of data:
Reply from 192.168.149.56: bytes=32 time<1ms TTL=128
Reply from 192.168.149.56: bytes=32 time<1ms TTL=128
Reply from 192.168.149.56: bytes=32 time<1ms TTL=128
Reply from 192.168.149.56: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.149.56:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\sakthi kumar> ping 192.168.149.125

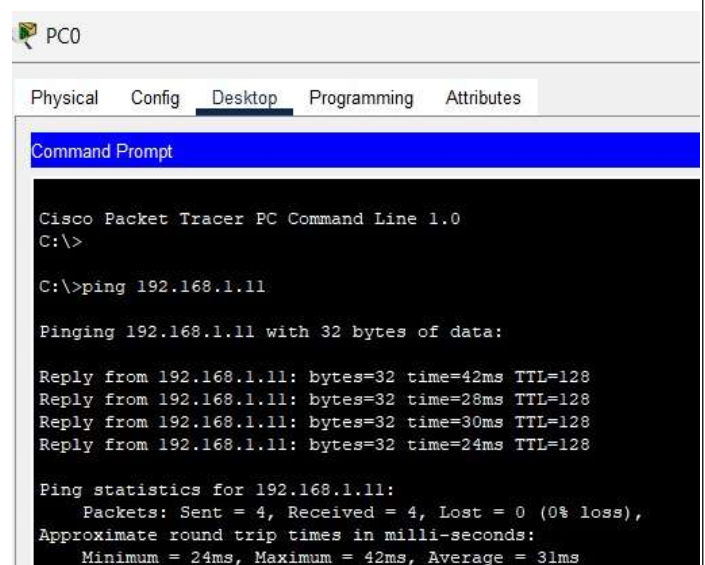
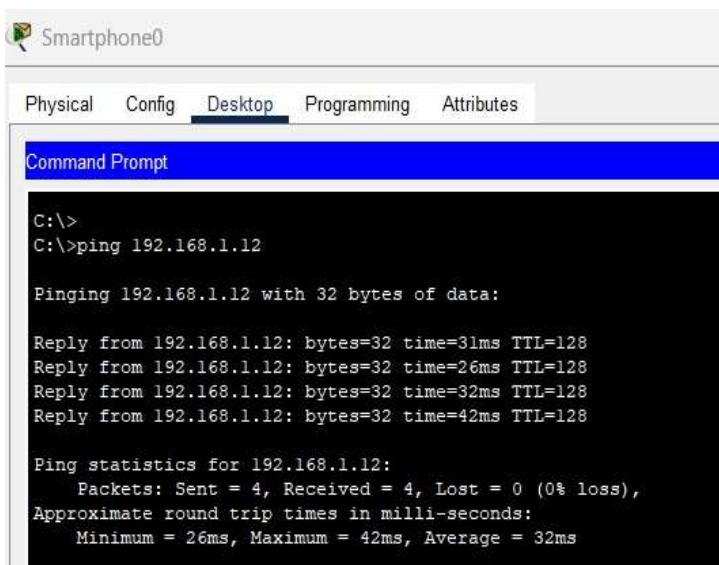
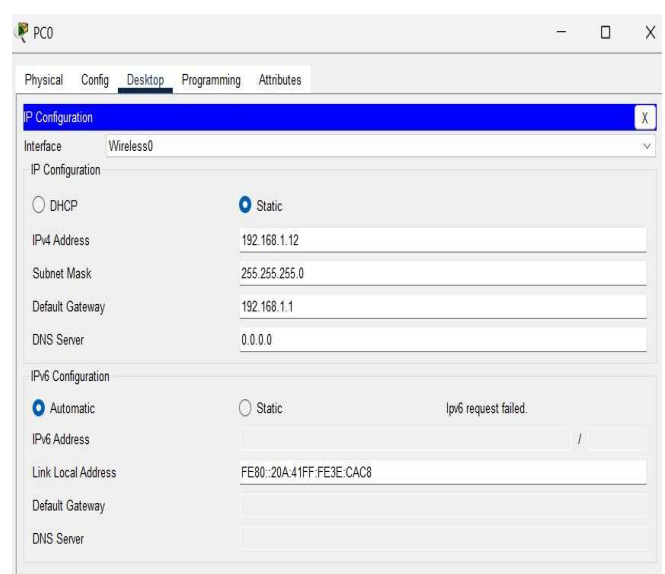
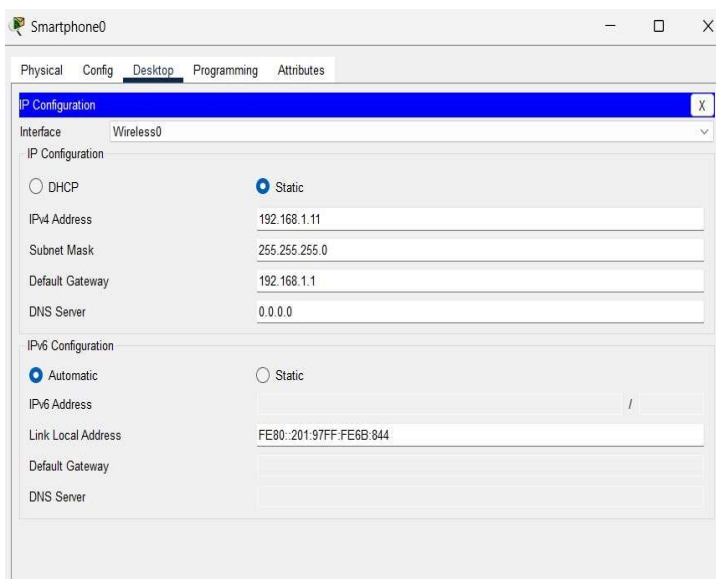
Pinging 192.168.149.125 with 32 bytes of data:
Reply from 192.168.149.125: bytes=32 time=7ms TTL=64
Reply from 192.168.149.125: bytes=32 time=4ms TTL=64
Reply from 192.168.149.125: bytes=32 time=5ms TTL=64
Reply from 192.168.149.125: bytes=32 time=4ms TTL=64

Ping statistics for 192.168.149.125:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 7ms, Average = 5ms
```

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