

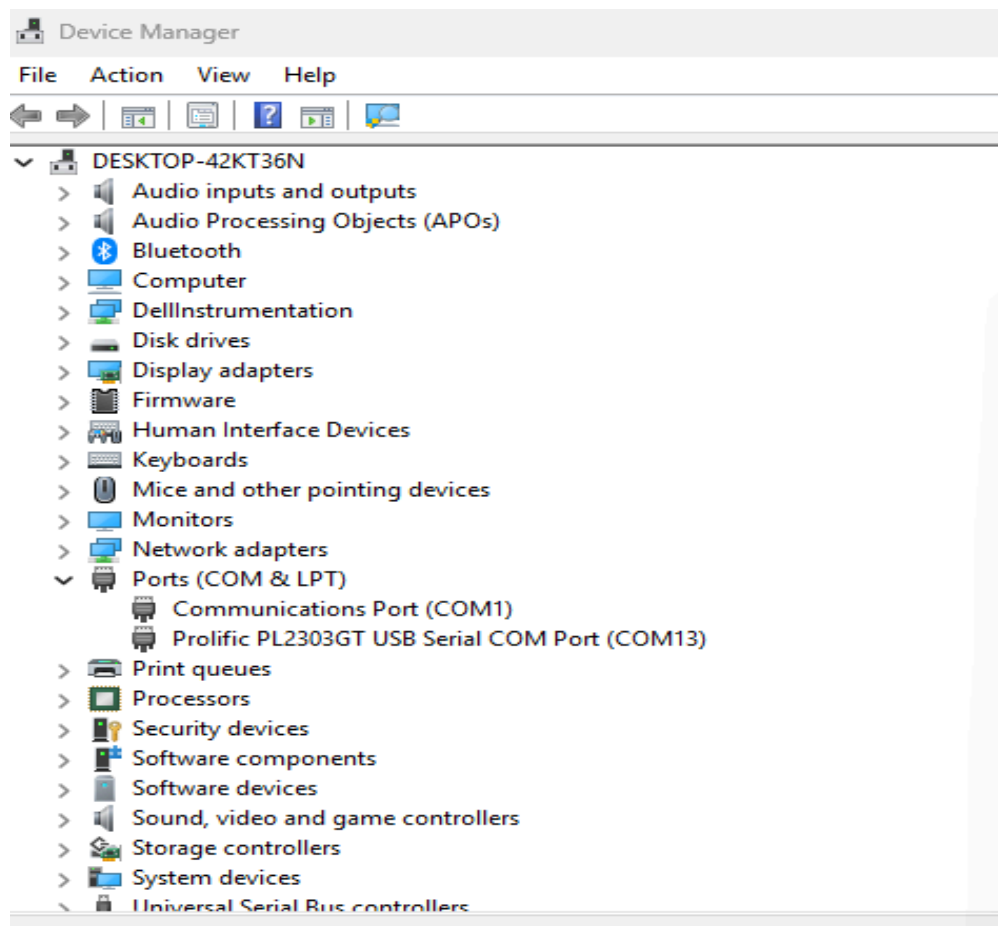
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Lab Experiment 5:

IN SWITCH MODE- Introduction to hardware lab by using Telnet and simple ping between the same networks.

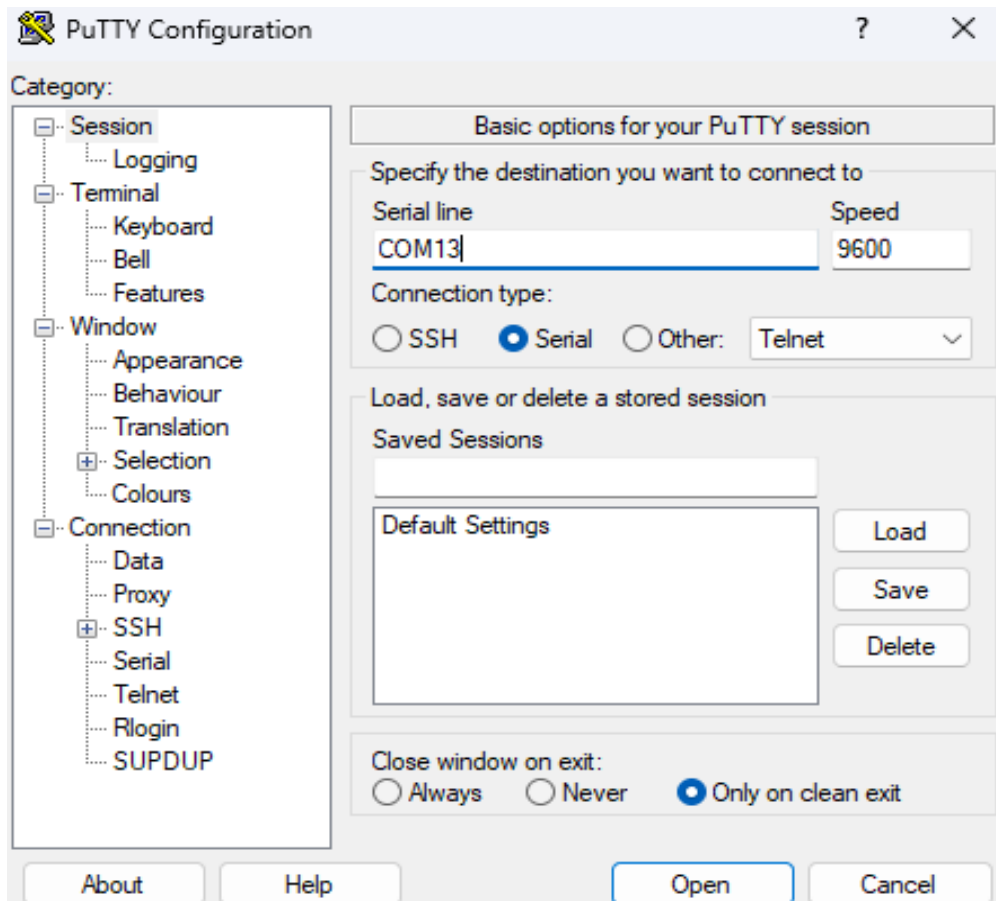
Step 1: Open Device Manager

Go to Device Manager → Ports (COM & LPT).Note the Port Number (COM14)



Step 2: Open PuTTY and Select Serial

Choose Serial as connection type. Enter Port Number (COM14). Click Open.



Step 3: Login to Switch

- Press **Enter**.
- Username: super
- Password: rvu
- Switch prompt appears if configured; else, proceed with setup

```
COM13 - PuTTY

User Access Verification

Please Enter Login Name: super
Please Enter Password:
User login successful.

R2-G4-S1>en
No password has been assigned yet...
R2-G4-S1#show run
Current configuration:
!
ver 08.0.95kT2l1
!
stack unit 1
    module 1 icx7150-cl2-poe-port-management-module
    module 2 icx7150-2-copper-port-2g-module
    module 3 icx7150-2-sfp-plus-port-20g-module
!
!
!
!
!
vlan 1 name DEFAULT-VLAN by port
!
vlan 2 by port
!
vlan 4 name deletion_testing by port
!
vlan 10 name vlan10 test by port
untagged ethe 1/1/1 to 1/1/2
!
vlan 20 name vlan20_test by port
untagged ethe 1/1/3 to 1/1/4
!
!
!
!
!
!
!
!
!
!
!
aaa authentication web-server default local
aaa authentication login default local
```

Step 4: Enter Privileged and Configuration Mode And Check Switch Information

- Type en → Enable mode.
- Type conf t → Configuration mode
- Use show ip → to see IP address of switch.
- Use show int brief → to check interface status

COM14 - PuTTY

```
R2-G4-S1(config)#super
Invalid input -> super
Type ? for a list
R2-G4-S1(config)#super
Invalid input -> super
Type ? for a list
R2-G4-S1(config)#superrvu
Invalid input -> superrvu
Type ? for a list
R2-G4-S1(config)#super^C
R2-G4-S1(config)#
R2-G4-S1(config)#en
R2-G4-S1#nfig
Invalid input -> nfig
Type ? for a list
R2-G4-S1#conf t
R2-G4-S1(config)#showip
Invalid input -> showip
Type ? for a list
R2-G4-S1(config)#show ip

Switch IP address: 192.168.100.41

Subnet mask: 255.255.255.0

Default router address: None
TFTP server address: None
Configuration filename: None
Image filename: None
DNS Server: N/A
IP MTU: 1500
R2-G4-S1(config)#show int brief
```

Port	Link	State	Dupl	Speed	Trunk	Tag	Pvid	Pri	MAC	Name
1/1/1	Up	Forward	Full	1G	None	No	10	0	5c83.6c01.55ca	
1/1/2	Down	None	None	None	None	No	10	0	5c83.6c01.55cb	
1/1/3	Down	None	None	None	None	No	20	0	5c83.6c01.55cc	
1/1/4	Down	None	None	None	None	No	20	0	5c83.6c01.55cd	
1/1/5	Down	None	None	None	None	No	1	0	5c83.6c01.55ce	
1/1/6	Down	None	None	None	None	No	1	0	5c83.6c01.55cf	
1/1/7	Down	None	None	None	None	No	1	0	5c83.6c01.55d0	
1/1/8	Down	None	None	None	None	No	1	0	5c83.6c01.55d1	
1/1/9	Down	None	None	None	None	No	1	0	5c83.6c01.55d2	
1/1/10	Down	None	None	None	None	No	1	0	5c83.6c01.55d3	
1/1/11	Down	None	None	None	None	No	1	0	5c83.6c01.55d4	
1/1/12	Down	None	None	None	None	No	1	0	5c83.6c01.55d5	
1/2/1	Down	None	None	None	None	No	1	0	5c83.6c01.55d7	
1/2/2	Down	None	None	None	None	No	1	0	5c83.6c01.55d8	
1/3/1	Down	None	None	None	None	No	1	0	5c83.6c01.55d9	
1/3/2	Down	None	None	None	None	No	1	0	5c83.6c01.55da	

Step 6: Check Local System IP

Open Command Prompt → type ipconfig.

Noted PC's IP address (192.168.100.49)

```
Microsoft Windows [Version 10.0.20100.1000]
(c) Microsoft Corporation. All rights reserved.

C:\Users\RVU>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::3f0b:fcdd:76a9:afd0%6
    IPv4 Address. . . . . : 192.168.100.47
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.100.1

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

Wireless LAN adapter Local Area Connection* 4:

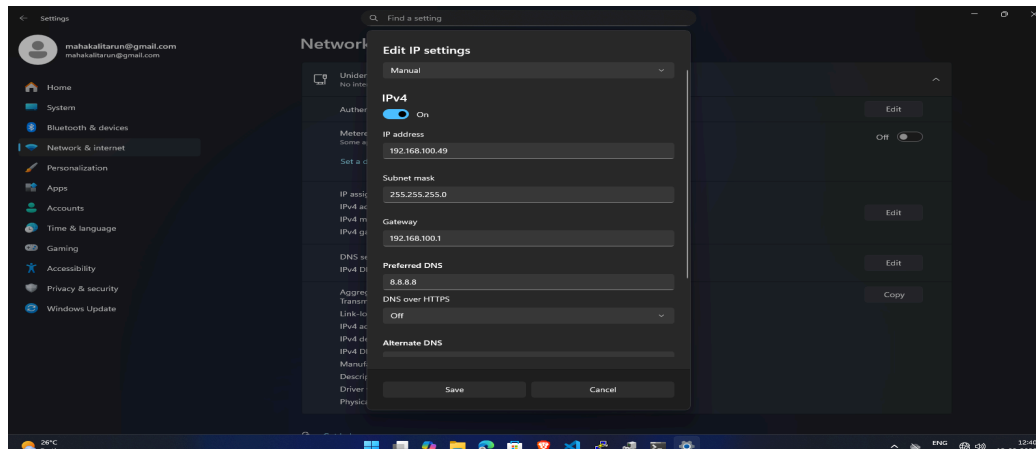
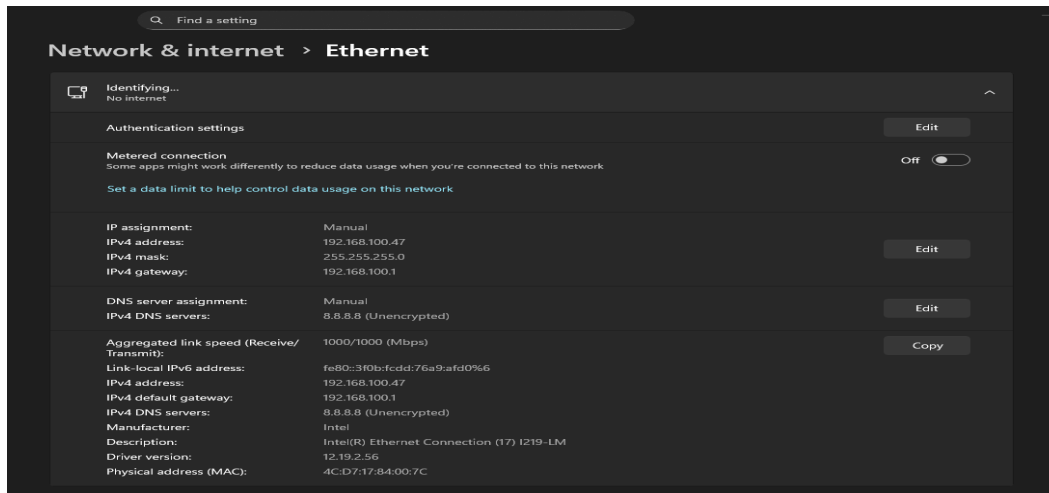
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :
```

Step 7: Change System IP (if required)

Go to Ethernet Settings → Properties → IPv4 Settings. Assign IP in same range as switch (192.168.100.49). Verify with ipconfig



```
C:\Users\RVU>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::3f0b:fcdd:76a9:afd0%6
    IPv4 Address. . . . . : 192.168.100.49
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.100.1

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

Wireless LAN adapter Local Area Connection* 4:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :
```

Step 8: Ping the Switch and Other Devices

From CMD, use the ping <switch_IP> command to check connectivity.

Ping our own switch

```
Command Prompt
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

C:\Users\RVU>ping 192.168.100.49

Pinging 192.168.100.49 with 32 bytes of data:
Reply from 192.168.100.49: bytes=32 time=1ms TTL=128
Reply from 192.168.100.49: bytes=32 time<1ms TTL=128
Reply from 192.168.100.49: bytes=32 time<1ms TTL=128
Reply from 192.168.100.49: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.49:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

C:\Users\RVU>ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.48: bytes=32 time<1ms TTL=128
Reply from 192.168.100.48: bytes=32 time<1ms TTL=128
Reply from 192.168.100.48: bytes=32 time<1ms TTL=128
Reply from 192.168.100.48: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\RVU>ping 192.168.100.49

Pinging 192.168.100.49 with 32 bytes of data:
Reply from 192.168.100.48: Destination host unreachable.
Reply from 192.168.100.48: Destination host unreachable.
Reply from 192.168.100.48: Destination host unreachable.
Reply from 192.168.100.48: Destination host unreachable.

Ping statistics for 192.168.100.49:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

Ping attempt to Switch (Unsuccessful)

```
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\RVU> ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\RVU> ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\RVU> ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.48: bytes=32 time=194ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 194ms, Average = 49ms
```

8.2 – Successful ping reply from Switch

```
Command Prompt
Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\RVU> ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\RVU> ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.48: bytes=32 time=194ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 194ms, Average = 49ms

C:\Users\RVU> ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\Users\RVU>
```


8.3 – Continuous ping test showing stable replies

```
Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 194ms, Average = 49ms

C:\Users\RVU> ping 192.168.100.48

Pinging 192.168.100.48 with 32 bytes of data:
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128
Reply from 192.168.100.48: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.48:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\Users\RVU> ping 192.168.100.37

Pinging 192.168.100.37 with 32 bytes of data:
Reply from 192.168.100.49: Destination host unreachable.
Reply from 192.168.100.49: Destination host unreachable.

Ping statistics for 192.168.100.37:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Control-C
^C
C:\Users\RVU> ping 192.168.100.38

Pinging 192.168.100.38 with 32 bytes of data:
Reply from 192.168.100.38: bytes=32 time=1ms TTL=128
Reply from 192.168.100.38: bytes=32 time<1ms TTL=128
Reply from 192.168.100.38: bytes=32 time=1ms TTL=128
Reply from 192.168.100.38: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.38:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

```
None
None
None
ow
ries
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EFAI
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l/M
l/M
ne
ne
sab
vla

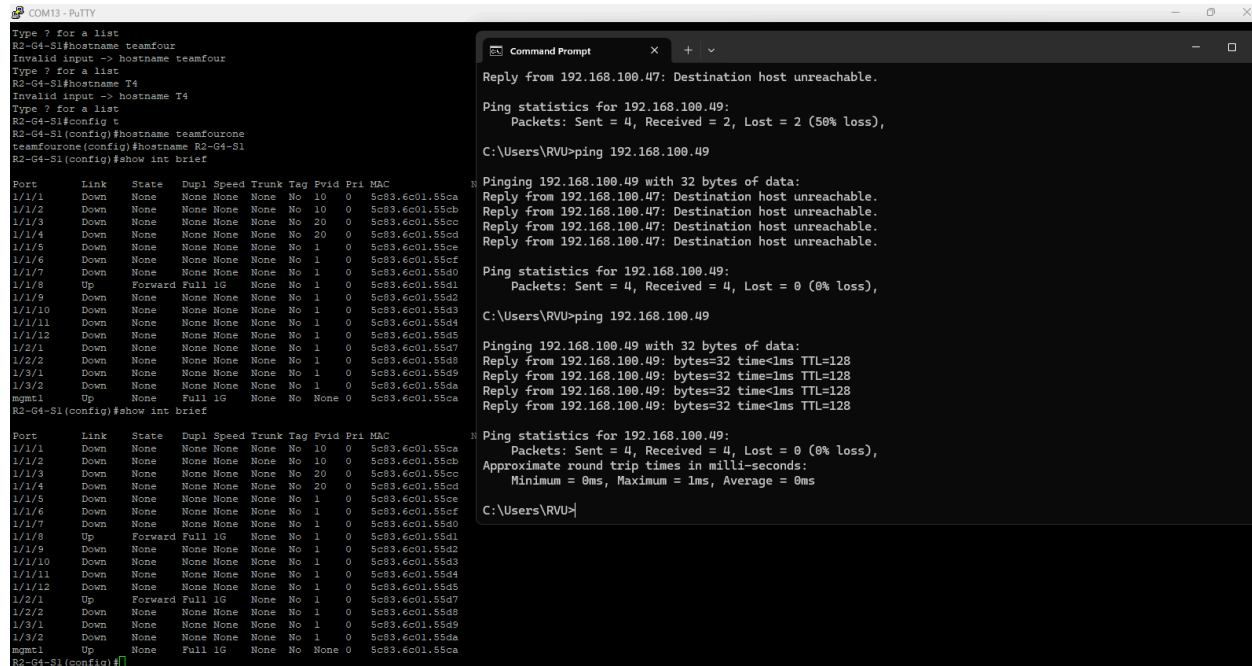
C:\Users\RVU>ping 192.168.100.49

Pinging 192.168.100.49 with 32 bytes of data:
Reply from 192.168.100.49: bytes=32 time=1ms TTL=128
Reply from 192.168.100.49: bytes=32 time=1ms TTL=128
Reply from 192.168.100.49: bytes=32 time=1ms TTL=128
Reply from 192.168.100.49: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.49:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\Users\RVU>
```

PutTY window showing show int brief with interface status alongside ping test



```
COM13 - PutTY
Type ? for a list
R2-G4-S1#hostname teamfour
Invalid input -> hostname teamfour
Type ? for a list:
R2-G4-S1#hostname T4
Invalid input -> hostname T4
Type ? for a list
R2-G4-S1(config)#hostname teamfourone
teamfourone(config)#hostname R2-G4-S1
R2-G4-S1(config)#show int brief

Port      Link      State    Dupl Speed Trunk Tag Pvid Pri MAC
1/1/1     Down     None     None None None No 10 0 5c83.6c01.55ca
1/1/2     Down     None     None None None No 10 0 5c83.6c01.55cb
1/1/3     Down     None     None None None No 20 0 5c83.6c01.55cc
1/1/4     Down     None     None None None No 20 0 5c83.6c01.55cd
1/1/5     Down     None     None None None No 1 0 5c83.6c01.55ce
1/1/6     Down     None     None None None No 1 0 5c83.6c01.55cf
1/1/7     Down     None     None None None No 1 0 5c83.6c01.55d0
1/1/8     Up        Forward Full 1G  None No 1 0 5c83.6c01.55d1
1/1/9     Down     None     None None None No 1 0 5c83.6c01.55d2
1/1/10    Down     None     None None None No 1 0 5c83.6c01.55d3
1/1/11    Down     None     None None None No 1 0 5c83.6c01.55d4
1/1/12    Down     None     None None None No 1 0 5c83.6c01.55d5
1/2/1     Down     None     None None None No 1 0 5c83.6c01.55d7
1/2/2     Down     None     None None None No 1 0 5c83.6c01.55d8
1/3/1     Down     None     None None None No 1 0 5c83.6c01.55d9
1/3/2     Down     None     None None None No 1 0 5c83.6c01.55da
mgmt1     Up        None     Full 1G  None No None 0 5c83.6c01.55ca
R2-G4-S1(config)#show int brief

Port      Link      State    Dupl Speed Trunk Tag Pvid Pri MAC
1/1/1     Down     None     None None None No 10 0 5c83.6c01.55ca
1/1/2     Down     None     None None None No 10 0 5c83.6c01.55cb
1/1/3     Down     None     None None None No 20 0 5c83.6c01.55cc
1/1/4     Down     None     None None None No 20 0 5c83.6c01.55cd
1/1/5     Down     None     None None None No 1 0 5c83.6c01.55ce
1/1/6     Down     None     None None None No 1 0 5c83.6c01.55cf
1/1/7     Down     None     None None None No 1 0 5c83.6c01.55d0
1/1/8     Up        Forward Full 1G  None No 1 0 5c83.6c01.55d1
1/1/9     Down     None     None None None No 1 0 5c83.6c01.55d2
1/1/10    Down     None     None None None No 1 0 5c83.6c01.55d3
1/1/11    Down     None     None None None No 1 0 5c83.6c01.55d4
1/1/12    Down     None     None None None No 1 0 5c83.6c01.55d5
1/2/1     Up        Forward Full 1G  None No 1 0 5c83.6c01.55d7
1/2/2     Down     None     None None None No 1 0 5c83.6c01.55d8
1/3/1     Down     None     None None None No 1 0 5c83.6c01.55d9
1/3/2     Down     None     None None None No 1 0 5c83.6c01.55da
mgmt1     Up        None     Full 1G  None No None 0 5c83.6c01.55ca
R2-G4-S1(config)#
```

```
Command Prompt
Reply from 192.168.100.47: Destination host unreachable.

Ping statistics for 192.168.100.49:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),

C:\Users\RVU>ping 192.168.100.49

Pinging 192.168.100.49 with 32 bytes of data:
Reply from 192.168.100.47: Destination host unreachable.
Reply from 192.168.100.47: Destination host unreachable.
Reply from 192.168.100.47: Destination host unreachable.
Reply from 192.168.100.47: Destination host unreachable.

Ping statistics for 192.168.100.49:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users\RVU>ping 192.168.100.49

Pinging 192.168.100.49 with 32 bytes of data:
Reply from 192.168.100.49: bytes=32 time<1ms TTL=128
Reply from 192.168.100.49: bytes=32 time<1ms TTL=128
Reply from 192.168.100.49: bytes=32 time<1ms TTL=128
Reply from 192.168.100.49: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.100.49:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\RVU>
```

Switch IP configuration and another show int brief

```
Switch IP address: 192.168.100.41
Subnet mask: 255.255.255.0

Default router address: None
TFTP server address: None
Configuration filename: None
Image filename: None
DNS Server: N/A
IP MTU: 1500
R2-G4-S1(config)#show int brief
```

Port	Link	State	Dupl	Speed	Trunk	Tag	Pvid	Pri	MAC	Name
1/1/1	Up	Forward	Full	1G	None	No	10	0	5c83.6c01.55ca	
1/1/2	Down	None	None	None	None	No	10	0	5c83.6c01.55cb	
1/1/3	Down	None	None	None	None	No	20	0	5c83.6c01.55cc	
1/1/4	Down	None	None	None	None	No	20	0	5c83.6c01.55cd	
1/1/5	Down	None	None	None	None	No	1	0	5c83.6c01.55ce	
1/1/6	Down	None	None	None	None	No	1	0	5c83.6c01.55cf	
1/1/7	Down	None	None	None	None	No	1	0	5c83.6c01.55d0	
1/1/8	Down	None	None	None	None	No	1	0	5c83.6c01.55d1	
1/1/9	Down	None	None	None	None	No	1	0	5c83.6c01.55d2	
1/1/10	Down	None	None	None	None	No	1	0	5c83.6c01.55d3	
1/1/11	Down	None	None	None	None	No	1	0	5c83.6c01.55d4	
1/1/12	Down	None	None	None	None	No	1	0	5c83.6c01.55d5	
1/2/1	Down	None	None	None	None	No	1	0	5c83.6c01.55d7	
1/2/2	Down	None	None	None	None	No	1	0	5c83.6c01.55d8	
1/3/1	Down	None	None	None	None	No	1	0	5c83.6c01.55d9	
1/3/2	Down	None	None	None	None	No	1	0	5c83.6c01.55da	
mgmt1	Up	None	Full	1G	None	No	None	0	5c83.6c01.55ca	

```
R2-G4-S1(config)#show int brief
```

Port	Link	State	Dupl	Speed	Trunk	Tag	Pvid	Pri	MAC	Name
1/1/1	Up	Forward	Full	1G	None	No	10	0	5c83.6c01.55ca	
1/1/2	Down	None	None	None	None	No	10	0	5c83.6c01.55cb	
1/1/3	Down	None	None	None	None	No	20	0	5c83.6c01.55cc	
1/1/4	Down	None	None	None	None	No	20	0	5c83.6c01.55cd	
1/1/5	Up	Forward	Full	1G	None	No	1	0	5c83.6c01.55ce	
1/1/6	Down	None	None	None	None	No	1	0	5c83.6c01.55cf	
1/1/7	Down	None	None	None	None	No	1	0	5c83.6c01.55d0	
1/1/8	Down	None	None	None	None	No	1	0	5c83.6c01.55d1	
1/1/9	Down	None	None	None	None	No	1	0	5c83.6c01.55d2	
1/1/10	Down	None	None	None	None	No	1	0	5c83.6c01.55d3	
1/1/11	Down	None	None	None	None	No	1	0	5c83.6c01.55d4	
1/1/12	Down	None	None	None	None	No	1	0	5c83.6c01.55d5	
1/2/1	Down	None	None	None	None	No	1	0	5c83.6c01.55d7	
1/2/2	Down	None	None	None	None	No	1	0	5c83.6c01.55d8	
1/3/1	Down	None	None	None	None	No	1	0	5c83.6c01.55d9	
1/3/2	Down	None	None	None	None	No	1	0	5c83.6c01.55da	
mgmt1	Up	None	Full	1G	None	No	None	0	5c83.6c01.55ca	

```
R2-G4-S1(config)#
```

```
COM17 - PuTTY
R2-G4-S2#conf t
R2-G4-S2(config)#show ip

Switch IP address: 192.168.100.42
Subnet mask: 255.255.255.0

Default router address: None
TFTP server address: None
Configuration filename: None
Image filename: None
DNS Server: N/A
IP MTU: 1500
R2-G4-S2(config)#show int brief
```

Port	Link	State	Dupl	Speed	Trunk	Tag	Pvid	Pri	MAC	Name
1/1/1	Up	Forward	Full	1G	None	No	1	0	5c83.6c01.2948	
1/1/2	Down	None	None	None	None	No	1	0	5c83.6c01.2949	
1/1/3	Down	None	None	None	None	No	1	0	5c83.6c01.294a	
1/1/4	Down	None	None	None	None	No	1	0	5c83.6c01.294b	
1/1/5	Down	None	None	None	None	No	1	0	5c83.6c01.294c	
1/1/6	Down	None	None	None	None	No	1	0	5c83.6c01.294d	
1/1/7	Down	None	None	None	None	No	1	0	5c83.6c01.294e	
1/1/8	Down	None	None	None	None	No	1	0	5c83.6c01.294f	
1/1/9	Down	None	None	None	None	No	1	0	5c83.6c01.2950	
1/1/10	Down	None	None	None	None	No	1	0	5c83.6c01.2951	
1/1/11	Down	None	None	None	None	No	1	0	5c83.6c01.2952	
1/1/12	Down	None	None	None	None	No	1	0	5c83.6c01.2953	
1/2/1	Down	None	None	None	None	No	1	0	5c83.6c01.2955	
1/2/2	Down	None	None	None	None	No	1	0	5c83.6c01.2956	
1/3/1	Down	None	None	None	None	No	1	0	5c83.6c01.2957	
1/3/2	Down	None	None	None	None	No	1	0	5c83.6c01.2958	
mgmt1	Up	None	Full	1G	None	No	None	0	5c83.6c01.2948	

Enable Telnet Server

Access global configuration mode and enable the Telnet server on the switch. This allows remote devices to establish a Telnet session for management purposes

Set Telnet Timeout

Configure the Telnet timeout value to zero to prevent automatic disconnection due to inactivity. This ensures the Telnet session remains active until manually closed

Verify Telnet Status

Check the Telnet server status to confirm that it is enabled and ready to accept remote connections.

Test Telnet Connectivity from a Remote Device

From a remote PC on the network, initiate a Telnet connection to the switch's management IP address (e.g., 192.168.100.41). Successful login confirms that Telnet access is correctly configured

```
end
R2-G4-S1(config)#telnet server
R2-G4-S1(config)#show telnet
Telnet server status: Enabled
Telnet connections (inbound):
 1      closed
 2      closed
 3      closed
 4      closed
 5      closed
 6      closed
 7      closed
 8      closed
 9      closed
10      closed
Telnet connections (outbound):
11      closed
12      closed
13      closed
14      closed
15      closed
R2-G4-S1(config)#
```

```
R2-G4-S1(config)#stlnet server
R2-G4-S1(config)#show vlan
Total PORT-VLAN entries: 1
Maximum PORT-VLAN entries: 1024

Legend: [Stk=Stack-Id, S=Slot]

PORT-VLAN 1, Name DEFAULT-VLAN, Priority level0, On
Untagged Ports: (U1/M1)      1   2   3   4   5   6   7   8   9  10  11  12
Untagged Ports: (U1/M2)      1   2
Untagged Ports: (U1/M3)      1   2
Tagged Ports: None
Mac-Vlan Ports: None
Monitoring: Disabled
R2-G4-S1(config)#show ip

Switch IP address: 192.168.100.41
Subnet mask: 255.255.255.0

Default router address: None
TFTP server address: None
Configuration filename: None
Image filename: None
DNS Server: N/A
IP MTU: 1500
R2-G4-S1(config)#show run
Current configuration:
!
ver 0S.0.95kT21l
!
stack unit 1
 module 1 icx7150-cl2-poe-port-management-module
 module 2 icx7150-2-copper-port-2g-module
 module 3 icx7150-2-sfp-plus-port-20g-module
!
vlan 1 name DEFAULT-VLAN by port
```

```

10      closed
R2-G4-S1(config)#telnet timeout 0
R2-G4-S1(config)#show telnet
Telnet server status: Enabled
Telnet connections (inbound):
  1      established, client ip address 192.168.100.37, user is super, privilege super-user
        using vrf default-vrf.
        30 second(s) in idle
  2      closed
  3      closed
  4      closed
  5      closed
  6      closed
  7      closed
  8      closed
  9      closed
 10      closed
Telnet connections (outbound):
 11      closed
 12      closed
 13      closed
 14      closed
 15      closed
R2-G4-S1(config)#vlan 10
R2-G4-S1(config-vlan-10)#untagged ethernet 1/1/1 to 1/1/4
Added untagged port(s) ethe 1/1/1 to 1/1/4 to port-vlan 10.
R2-G4-S1(config-vlan-10)#

```

RESULT: Telnet server enabled for remote management. Timeout set to prevent session drop. Successful remote Telnet connection verified. Configuration saved to memory

