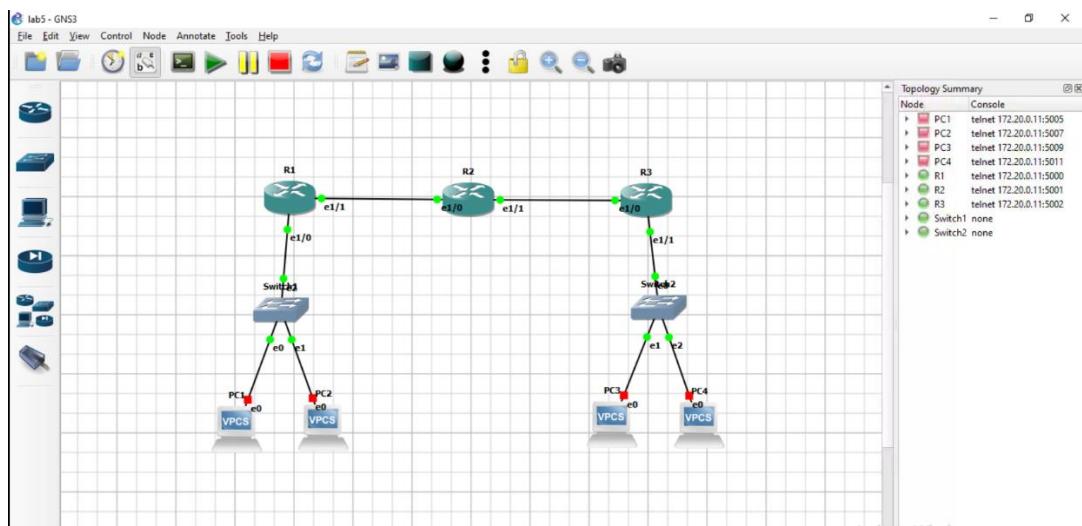


ASSIGNMENT OF DATACOM



1. STATIC ROUTING

Router configuration

R1

```
R1
dministratively down
*Jan 20 19:25:05.291: %LINK-5-CHANGED: Interface Ethernet1/6, changed state to a
dministratively down
*Jan 20 19:25:05.291: %LINK-5-CHANGED: Interface Ethernet1/7, changed state to a
dministratively down
R1#
R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface e1/0
R1(config-if)#description "connected to LAN1"
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no sh
R1(config-if)#exit
*Jan 20 19:27:18.915: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Jan 20 19:27:19.915: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/
0, changed state to up
R1(config-if)#exit
R1(config)#int e1/1
R1(config-if)#description "connected to R2 -ISW"
R1(config-if)#ip address 192.168.12.1 255.255.255.0
R1(config-if)#no sh
R1(config-if)#
*Jan 20 19:28:25.659: %LINK-3-UPDOWN: Interface Ethernet1/1, changed state to up
*Jan 20 19:28:26.659: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/
1, changed state to up
R1(config-if)#exit
R1(config)#
C1
C2
C3
C4
1
2
3
witch
witch
```

R2

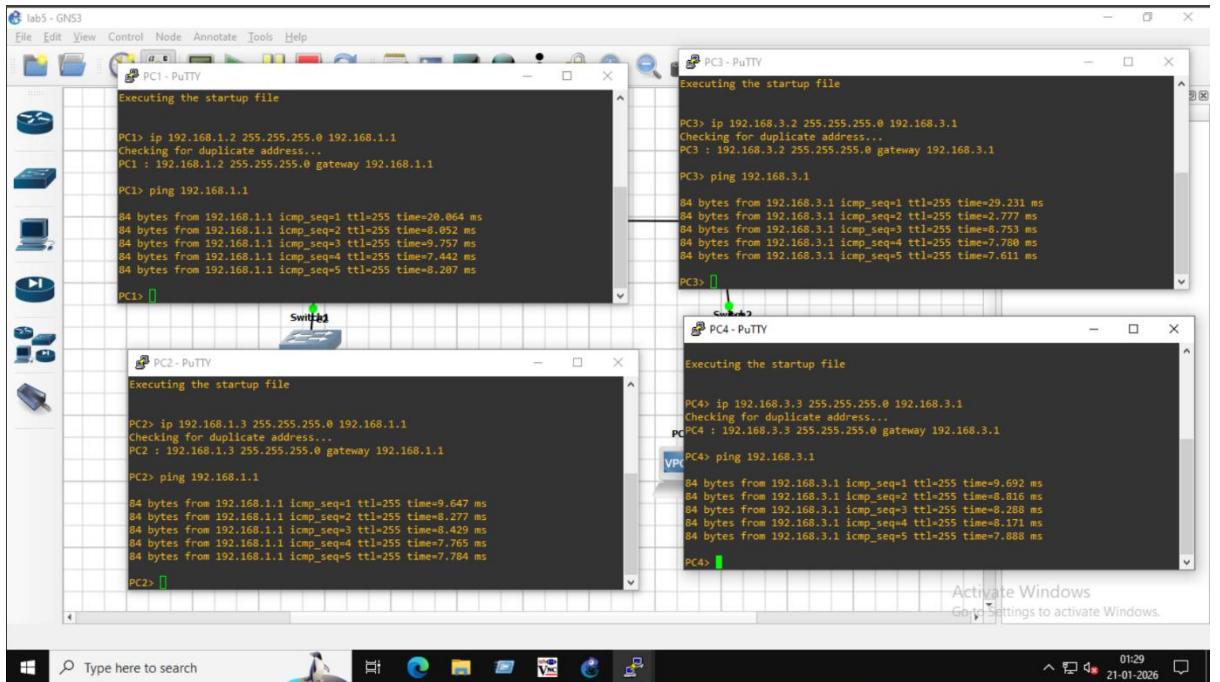
```
Topology Summary
Node      Console
PC1      telnet 172.20.0.11:5005

R2
dministratively down
*Jan 20 19:25:05.327: %LINK-5-CHANGED: Interface Ethernet1/7, changed state to a
dministratively down
R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#interface e1/0
R2(config-if)#description "connected to R1"
R2(config-if)#ip address 192.168.12.2 255.255.255.0
R2(config-if)#no sh
R2(config-if)#
*Jan 20 19:31:36.699: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Jan 20 19:31:37.699: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/
0, changed state to up
R2(config-if)#exit
R2(config)#interface e1/1
R2(config-if)#description "connected to R3"
R2(config-if)#ip address 192.168.23.2 255.255.255.0
R2(config-if)#no sh
R2(config-if)#
*Jan 20 19:32:44.827: %LINK-3-UPDOWN: Interface Ethernet1/1, changed state to up
PC*Jan 20 19:32:45.827: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/
1, changed state to up
R2(config-if)#exit
R2(config)#
VPC
```

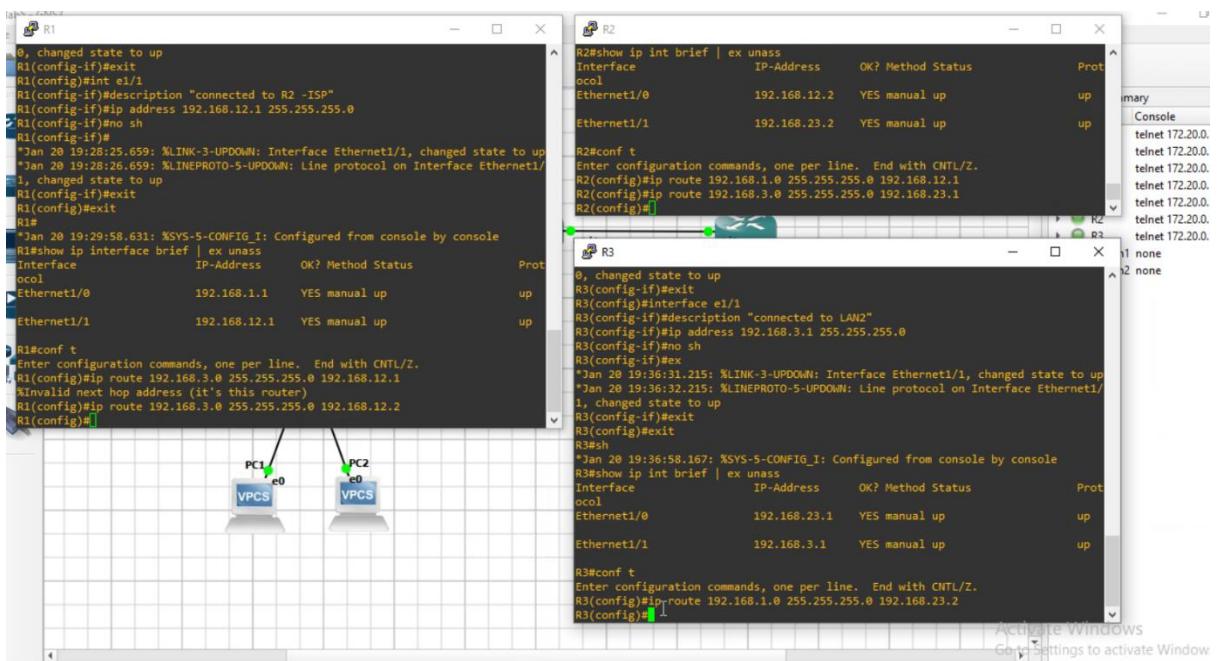
R3

```
R3
dministratively down
*Jan 20 19:25:05.491: %LINK-5-CHANGED: Interface Ethernet1/7, changed state to a
dministratively down
R3#
R3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R3(config)#interface e1/0
R3(config-if)#description "connected to R2 - ISP"
R3(config-if)#ip address 192.168.23.1 255.255.255.0
R3(config-if)#no sh
R3(config-if)#
*Jan 20 19:35:34.867: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Jan 20 19:35:35.867: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/
0, changed state to up
R3(config-if)#exit
R3(config)#interface e1/1
R3(config-if)#description "connected to LAN2"
R3(config-if)#ip address 192.168.3.1 255.255.255.0
R3(config-if)#no sh
R3(config-if)#
*Jan 20 19:36:31.215: %LINK-3-UPDOWN: Interface Ethernet1/1, changed state to up
*Jan 20 19:36:32.215: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/
1, changed state to up
R3(config-if)#exit
R3(config)#
VPCS VPCS
```

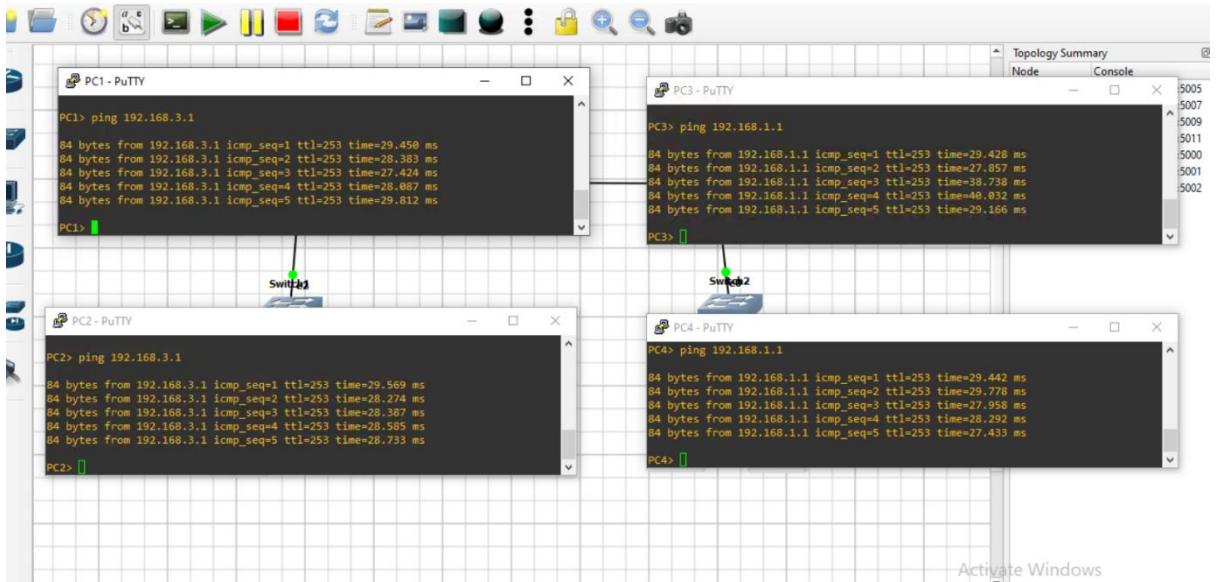
PCS



Routers

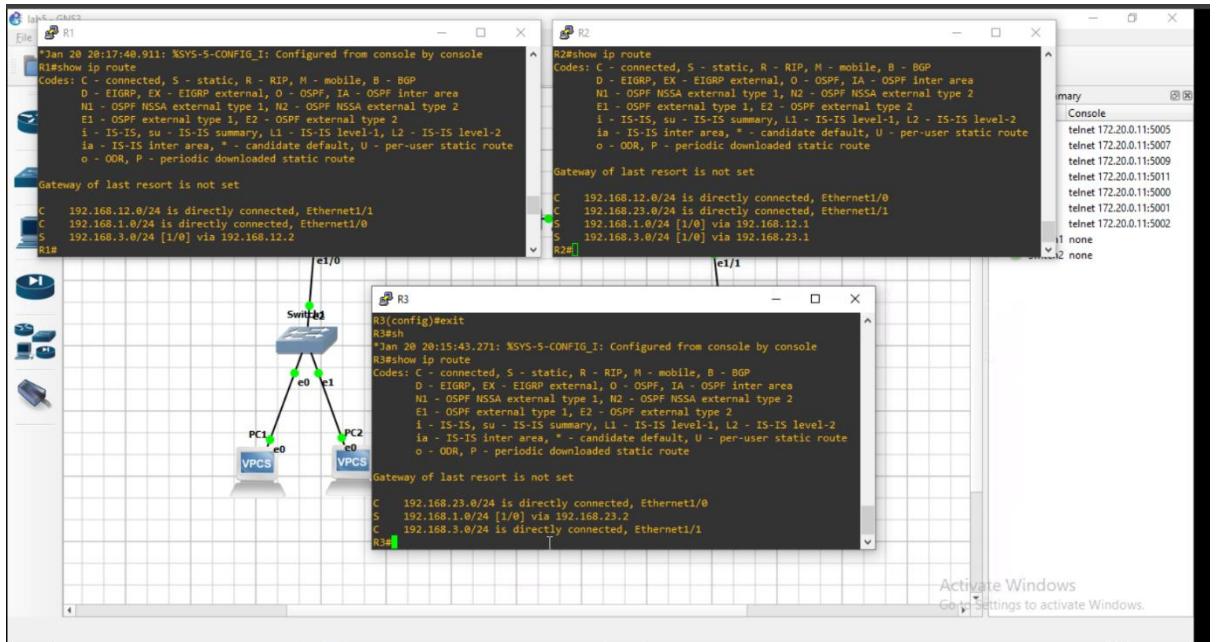


PCS



Activate Windows

Routers

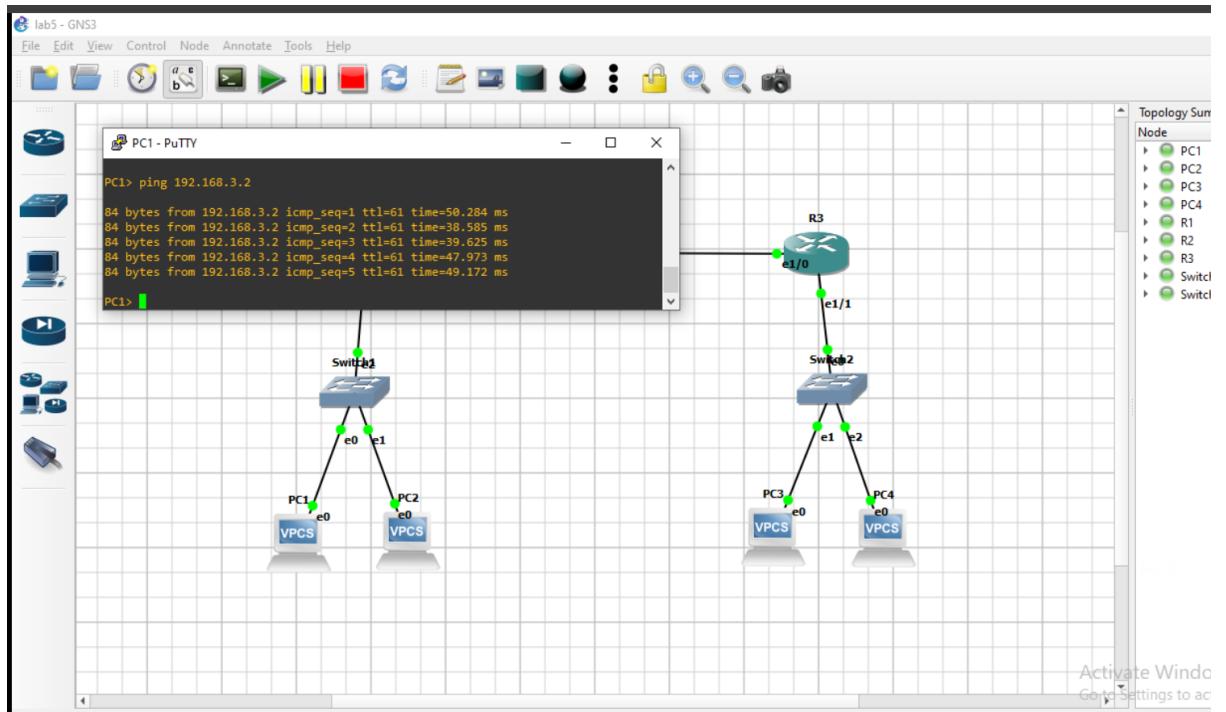


Activate Windows
Go to Settings to activate Windows.

2. DEFAULT ROUTING

Routers

PC1

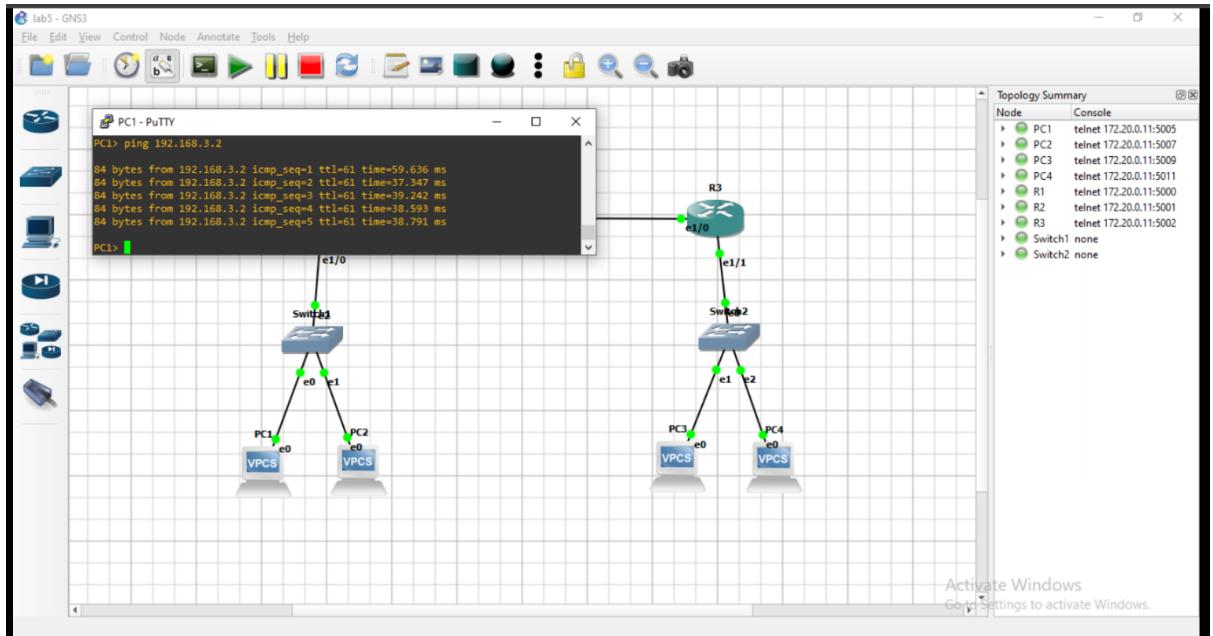


3. RIPv2

REMOVE OLD CONNECTIONS

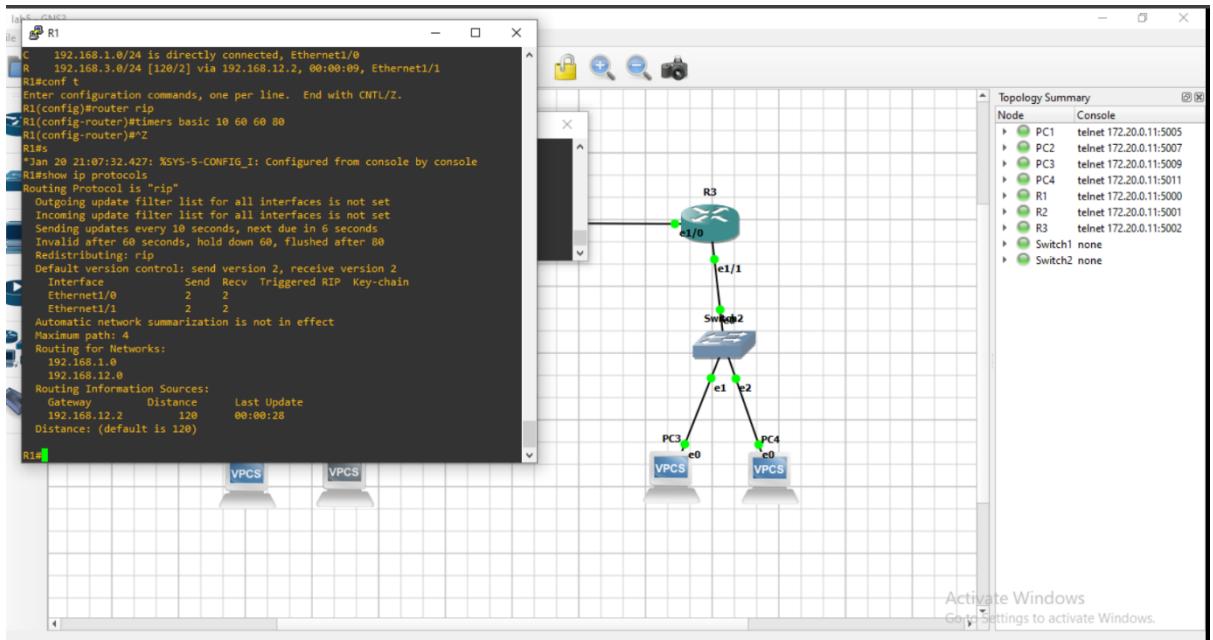
DYNAMIC ROUTING

PC



4. RIPv2 TIMERS

ROUTING



5. EIGRP

Router

Remove old configuration and then start

Eigrp config

The screenshot shows three terminal windows side-by-side, likely from a Cisco IOS-based device.

- Window 1 (R1):** Displays the configuration of R1, including the enable password 'cisco', interface configurations (Ethernet1/0, Ethernet1/1, Ethernet1/2), and the configuration of EIGRP (100). It also shows a log entry for a new adjacency on Ethernet1/1.
- Window 2 (R2):** Displays the configuration of R2, including the enable password 'cisco', interface configurations (Ethernet1/0, Ethernet1/1, Ethernet1/2), and the configuration of EIGRP (100). It shows a log entry for a new adjacency on Ethernet1/0.
- Window 3 (R3):** Displays the configuration of R3, including the enable password 'cisco', interface configurations (Ethernet1/0, Ethernet1/1, Ethernet1/2), and the configuration of EIGRP (100). It shows a log entry for a new adjacency on Ethernet1/0.

The windows are arranged horizontally, with R1 on the left, R2 in the middle, and R3 on the right. The title bars for each window are visible at the top, and the command-line interfaces (CLI) are shown below them.

Pc1

