CESAR LEONEL CHAMALE SICAN - 201700634 GRUPO: 8

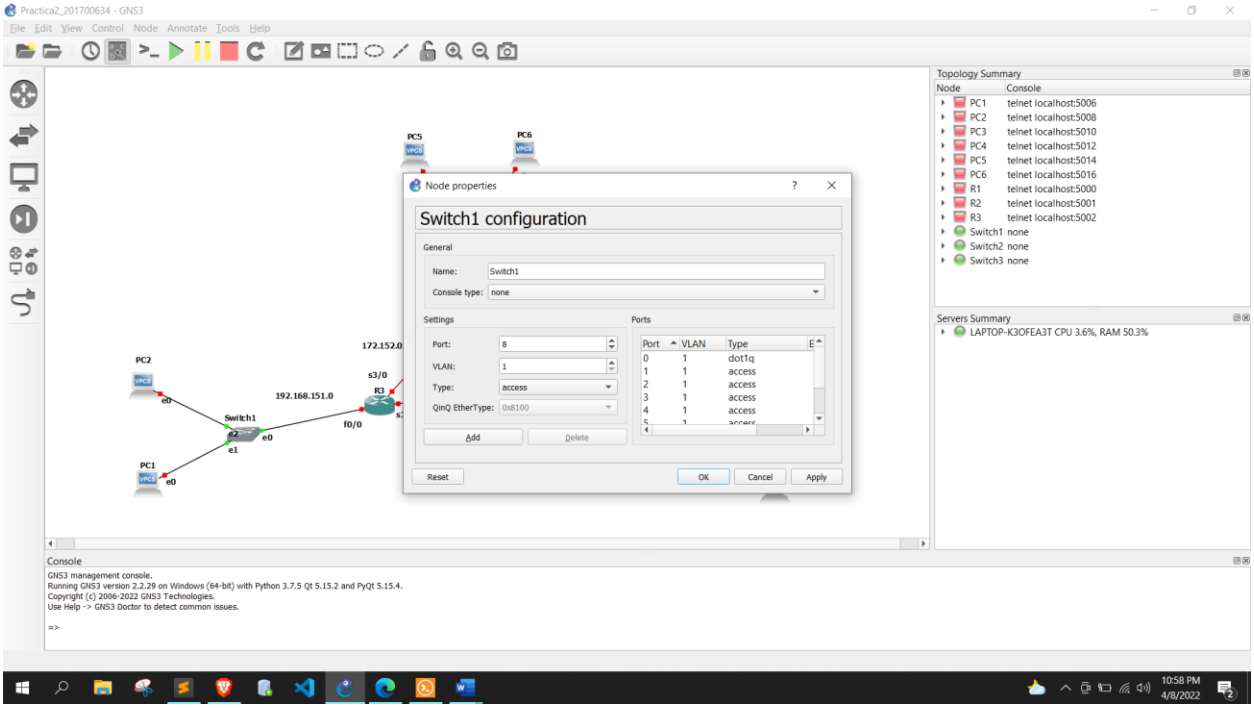
La X significa el [Número de Grupo + 2 Últimos Números de su carnet]

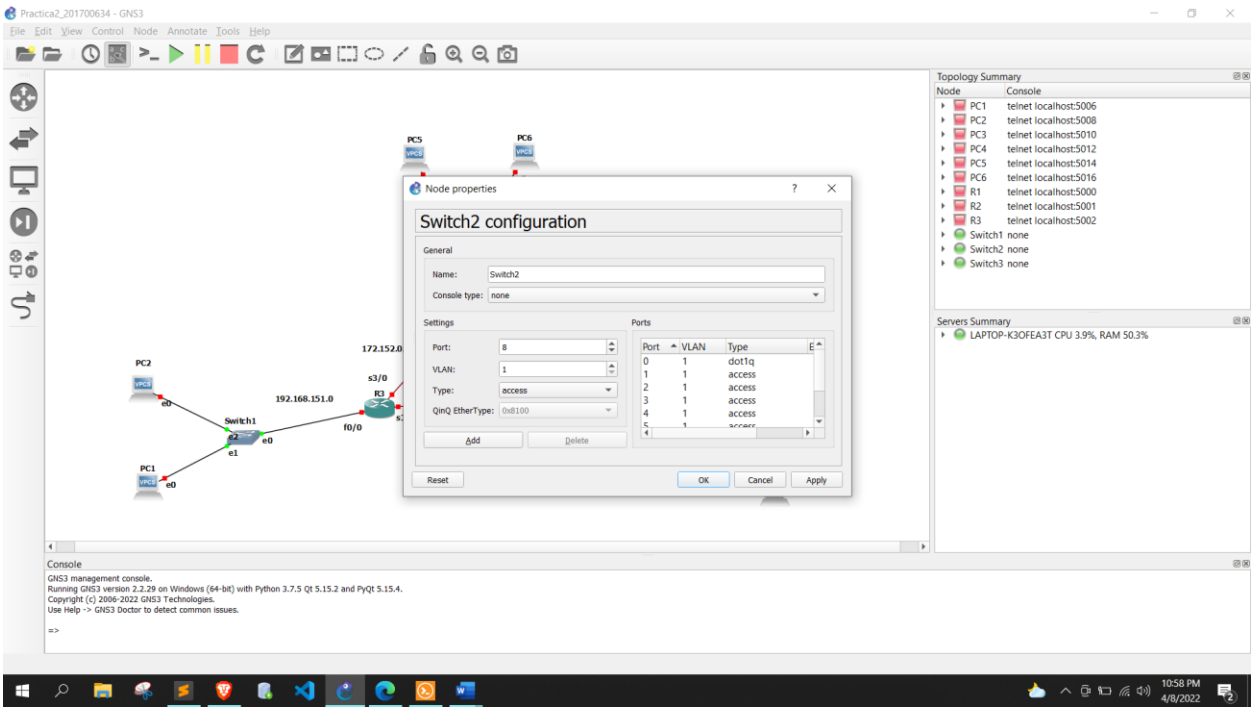
				201700634		
x	=	8	+	3	+	4
x	=	15				

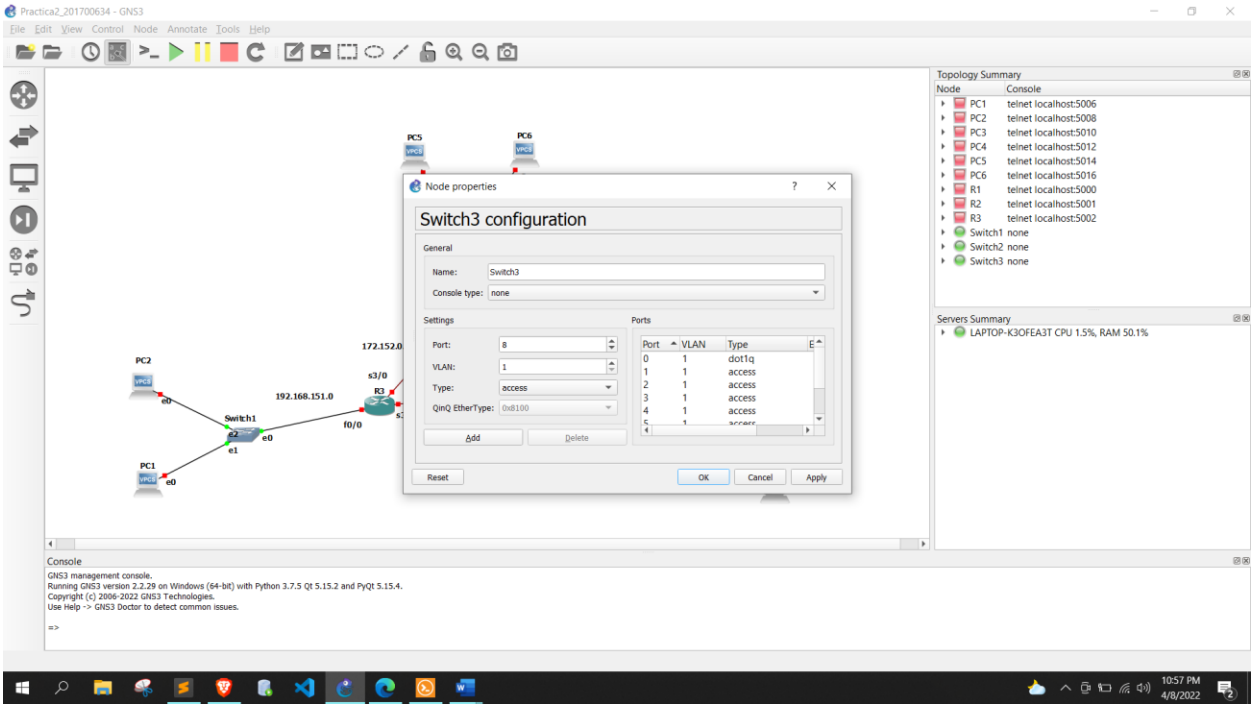
TOPOLOGIA	DIRECCION IP	GATEWAY
1	192.168.151.10/24	192.168.151.1
2	192.168.151.20/24	192.168.151.1
3	192.168.152.10/24	192.168.152.1
4	192.168.152.20/24	192.168.152.1
5	192.168.153.10/24	192.168.153.1
6	192.168.153.20/24	192.168.153.1

TOPOLOGIA	DIRECCION DE RED	PRIMERA DIRECCION ASIGNABLE	GATEWAY
R1-R2	172.151.0.0/16	172.151.0.1	N.A.
R1-R3	172.152.0.0/16	172.152.0.1	N.A.
R3-R2	172.153.0.0/16	172.153.0.1	N.A.

CONFIGURAMOS EL PUERTO EN LOS SWITCHES PARA PONERLOS EN MODO TRUNCAL

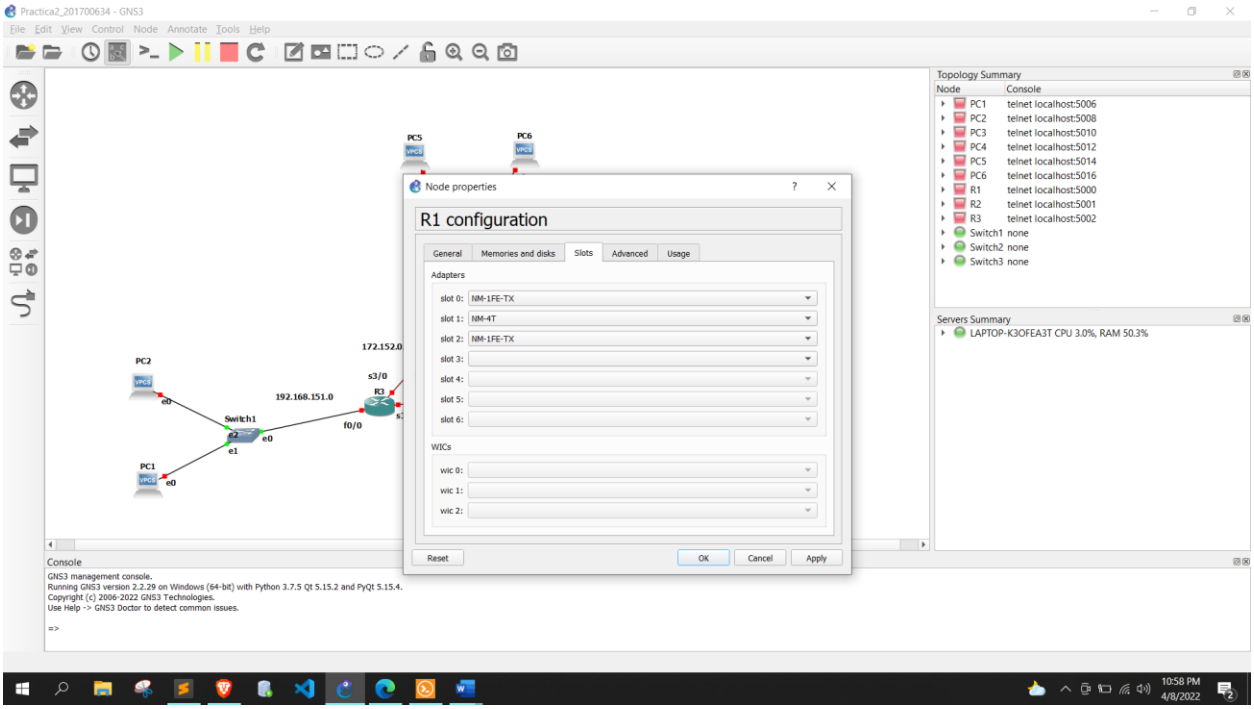




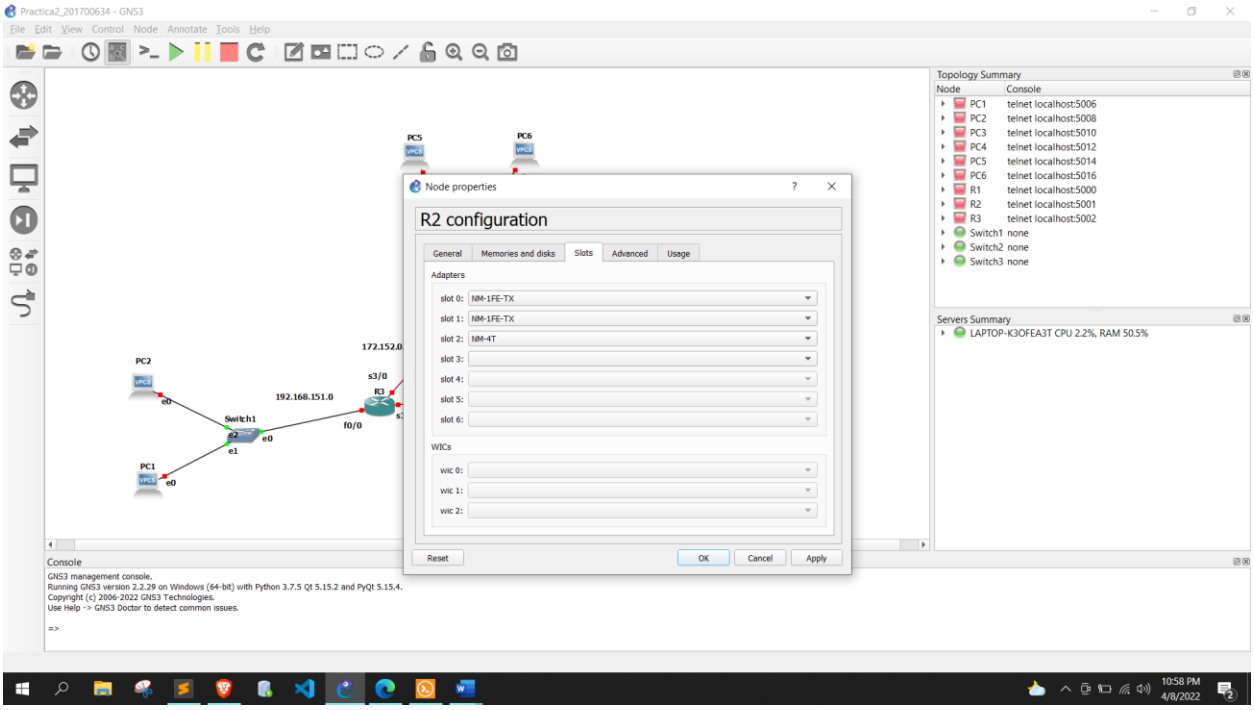


CONFIGURAMOS EL MODO DE FASTHETERNET Y PUERTOS SERIAL EN CADA ROUTER

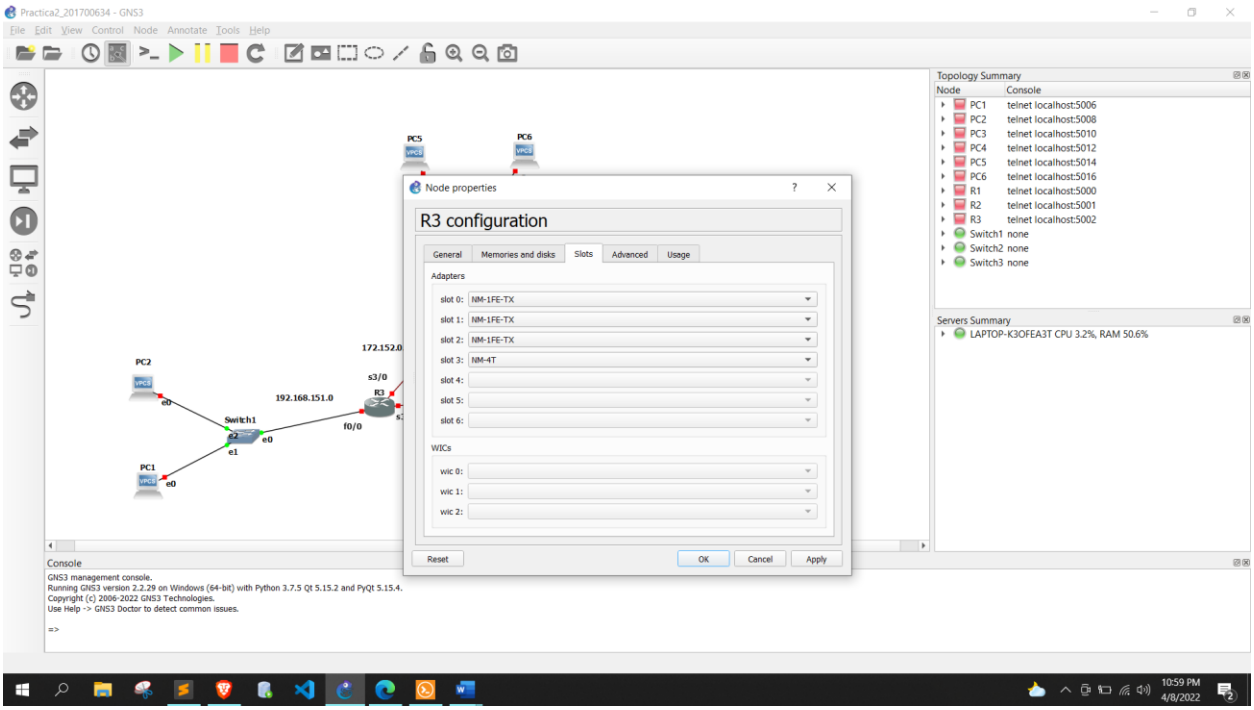
- el Router con Seriales en el Slot 1



el Router con Seriales en el Slot 2

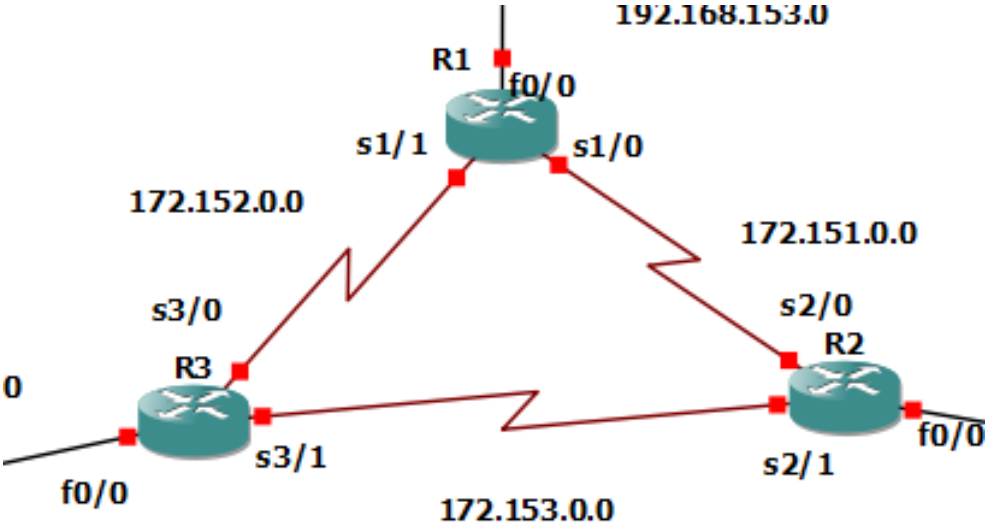


- el Router con Seriales en el Slot 3

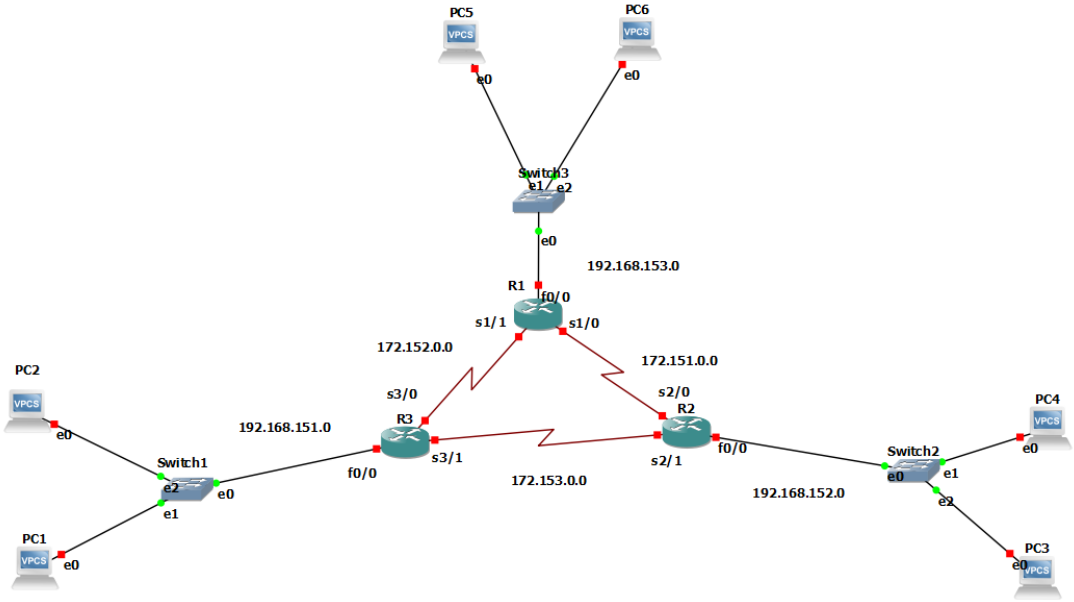


conectar los Routers de esta manera:

- R1 – R2 **S1/0 – S2/0**
- R1 – R3 **S1/1 – S3/0**
- R2 – R3 **S2/1 -S3-1**



CONFIGURAMOS TODOS LA CONECCIONES DE LA SIGUIENTE MANERA:



COMANDOS:

VPCs

VPC1

ip 192.168.151.10/24 192.168.151.1

save

VPC 2

ip 192.168.151.20/24 192.168.151.1

save

VPC 3

ip 192.168.152.10/24 192.168.152.1

save

VPC 4

ip 192.168.152.20/24 192.168.152.1

save

VPC 5

ip 192.168.153.10/24 192.168.153.1

save

VPC 6

ip 192.168.153.20/24 192.168.153.1

save

Routers (Interfaces de comunicación con SWITCHES)

R1

configure terminal

int f0/0

ip address 192.168.153.1 255.255.255.0

no shutdown

exit

R2

configure terminal

int f0/0

ip address 192.168.152.1 255.255.255.0

no shutdown

exit

R3

configure terminal

int f0/0

ip address 192.168.151.1 255.255.255.0

no shutdown

exit

Routers (Interfaces de comunicación con VPCs)

R1 - R2

configure terminal

int s1/0

ip address 172.151.0.1 255.255.0.0

no shutdown

exit

R2 - R1

configure terminal

int s2/0

ip address 172.151.0.2 255.255.0.0

no shutdown

exit

R1 - R3

configure terminal

int s1/1

ip address 172.152.0.1 255.255.0.0

no shutdown

exit

R3 - R1

configure terminal

int s3/0

ip address 172.152.0.2 255.255.0.0

no shutdown

exit

R3 - R2

configure terminal

int s3/1

ip address 172.153.0.1 255.255.0.0

no shutdown

exit

R2 - R3

configure terminal

int s2/1

ip address 172.153.0.2 255.255.0.0

no shutdown

exit

PINGS

1

ping 192.168.151.10

2

ping 192.168.151.20

3

ping 192.168.152.10

4

ping 192.168.152.20

5

ping 192.168.153.10

6

ping 192.168.153.20

Routers (Enrutamiento estático)

R1 - R2

conf t

ip route 192.168.152.0 255.255.255.0 172.151.0.2

exit

R2 - R1

conf t

ip route 192.168.153.0 255.255.255.0 172.151.0.1

exit

R1 - R3

conf t

ip route 192.168.151.0 255.255.255.0 172.152.0.2

exit

R3 - R1

conf t

ip route 192.168.153.0 255.255.255.0 172.152.0.1

exit

R3 - R2

conf t

ip route 192.168.152.0 255.255.255.0 172.153.0.2

exit

R2 - R3

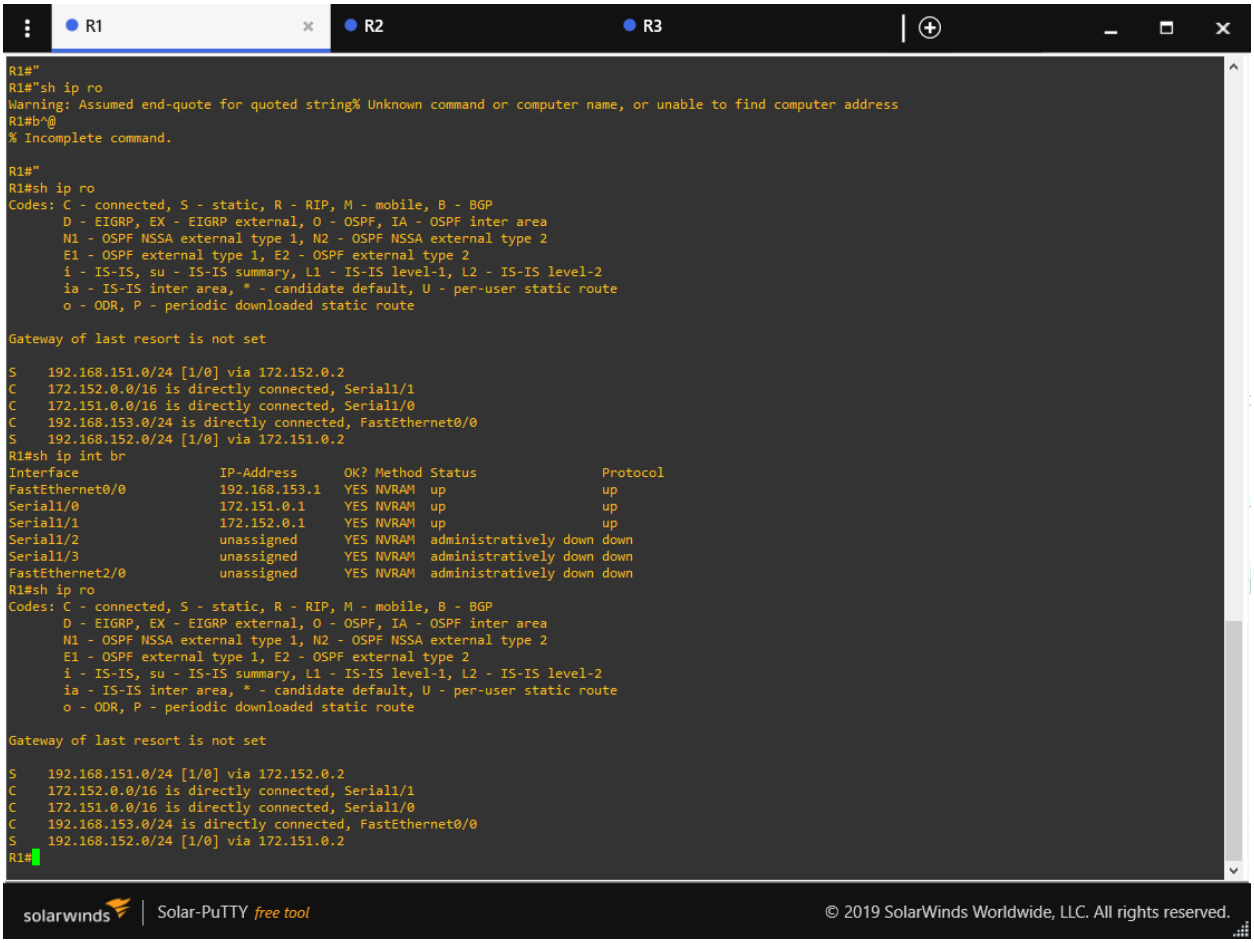
conf t

ip route 192.168.151.0 255.255.255.0 172.153.0.1

exit

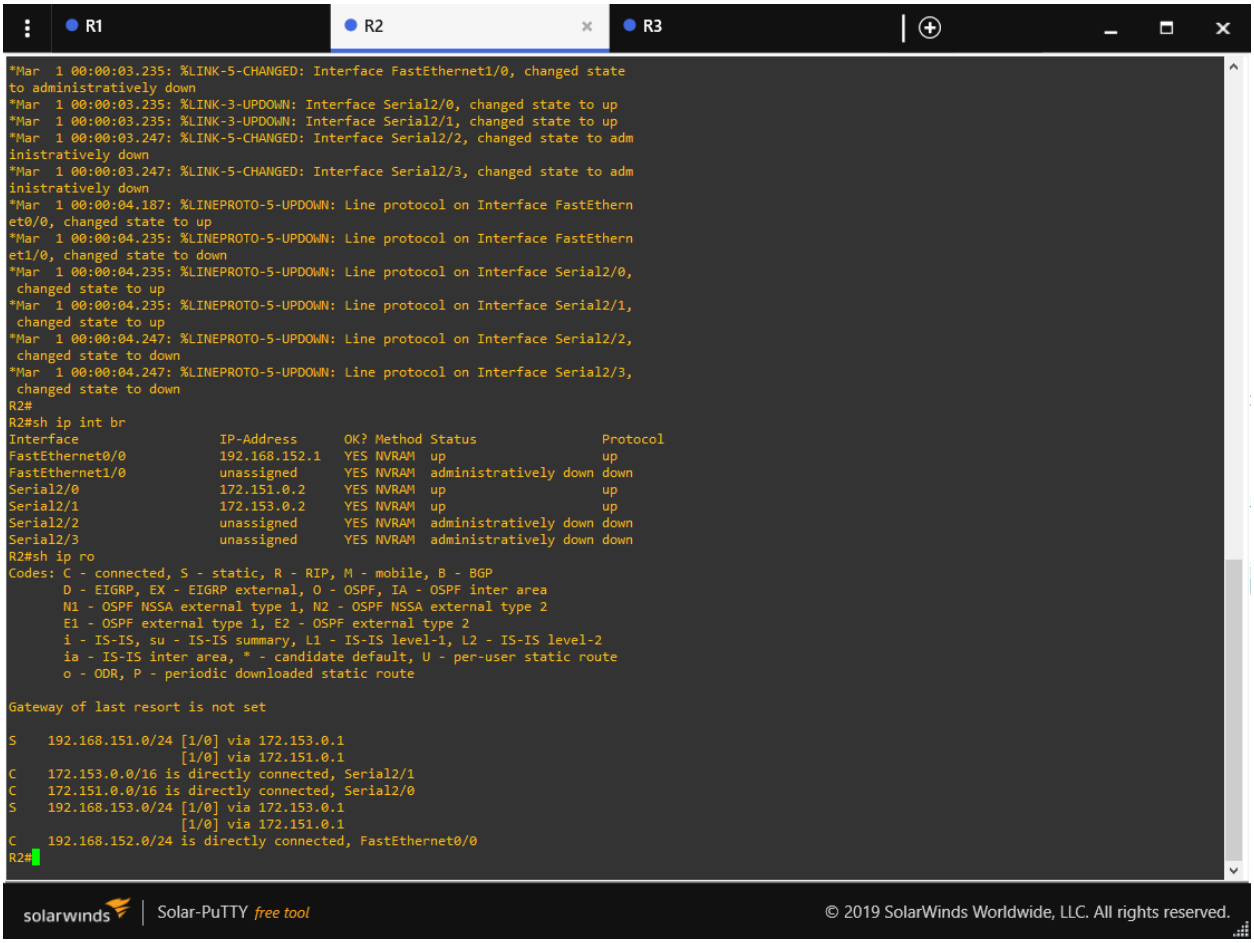
ROUTER 1

- **sh ip int br**
- **sh ip ro**



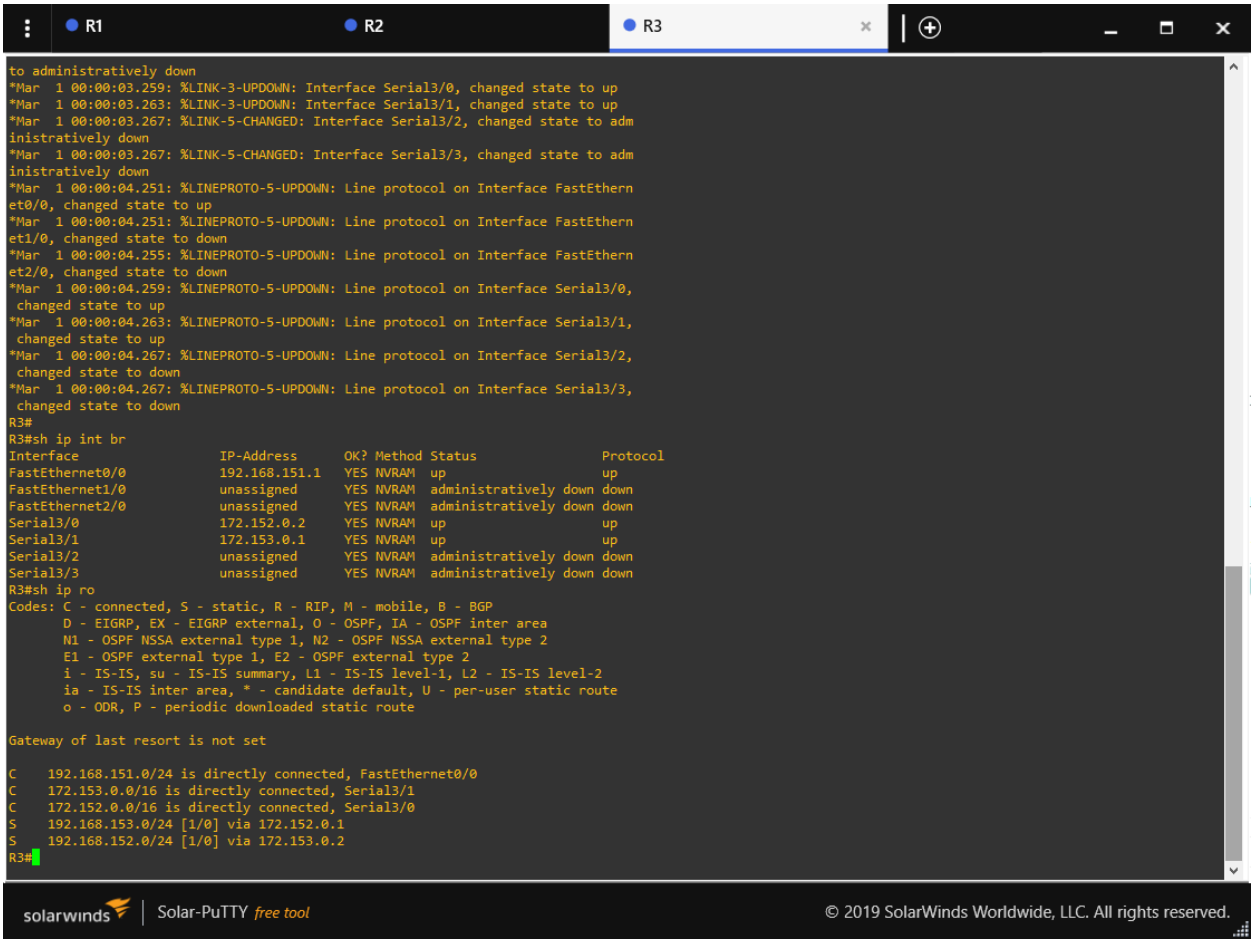
ROUTER 2

- **sh ip int br**
- **sh ip ro**

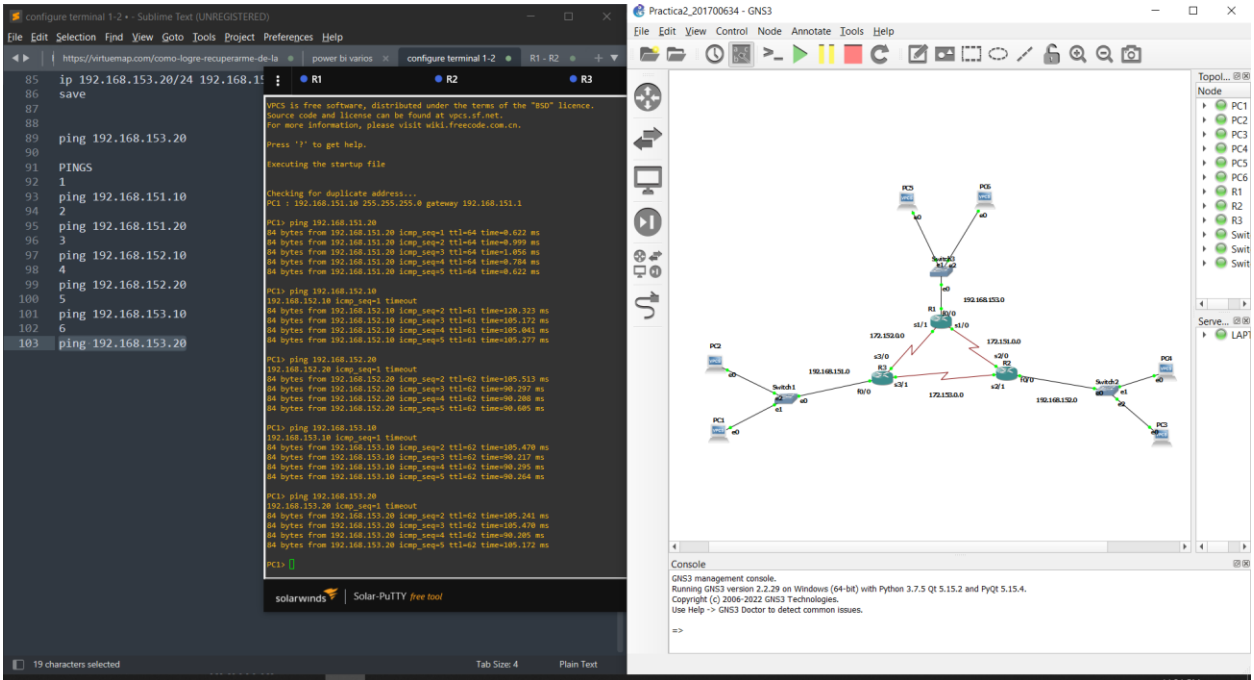


ROUTER 3

- **sh ip int br**
- **sh ip ro**



PINGS



```
R1 R2 R3 PC1

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file


Checking for duplicate address...
PC1 : 192.168.151.10 255.255.255.0 gateway 192.168.151.1

PC1> ping 192.168.151.20
84 bytes from 192.168.151.20 icmp_seq=1 ttl=64 time=0.622 ms
84 bytes from 192.168.151.20 icmp_seq=2 ttl=64 time=0.999 ms
84 bytes from 192.168.151.20 icmp_seq=3 ttl=64 time=1.056 ms
84 bytes from 192.168.151.20 icmp_seq=4 ttl=64 time=0.784 ms
84 bytes from 192.168.151.20 icmp_seq=5 ttl=64 time=0.622 ms

PC1> ping 192.168.152.10
192.168.152.10 icmp_seq=1 timeout
84 bytes from 192.168.152.10 icmp_seq=2 ttl=61 time=120.323 ms
84 bytes from 192.168.152.10 icmp_seq=3 ttl=61 time=105.172 ms
84 bytes from 192.168.152.10 icmp_seq=4 ttl=61 time=105.041 ms
84 bytes from 192.168.152.10 icmp_seq=5 ttl=61 time=105.277 ms

PC1> ping 192.168.152.20
192.168.152.20 icmp_seq=1 timeout
84 bytes from 192.168.152.20 icmp_seq=2 ttl=62 time=105.513 ms
84 bytes from 192.168.152.20 icmp_seq=3 ttl=62 time=90.297 ms
84 bytes from 192.168.152.20 icmp_seq=4 ttl=62 time=90.208 ms
84 bytes from 192.168.152.20 icmp_seq=5 ttl=62 time=90.605 ms

PC1> ping 192.168.153.10
192.168.153.10 icmp_seq=1 timeout
84 bytes from 192.168.153.10 icmp_seq=2 ttl=62 time=105.470 ms
84 bytes from 192.168.153.10 icmp_seq=3 ttl=62 time=90.217 ms
84 bytes from 192.168.153.10 icmp_seq=4 ttl=62 time=90.295 ms
84 bytes from 192.168.153.10 icmp_seq=5 ttl=62 time=90.264 ms

PC1> ping 192.168.153.20
192.168.153.20 icmp_seq=1 timeout
84 bytes from 192.168.153.20 icmp_seq=2 ttl=62 time=105.241 ms
84 bytes from 192.168.153.20 icmp_seq=3 ttl=62 time=105.470 ms
84 bytes from 192.168.153.20 icmp_seq=4 ttl=62 time=90.205 ms
84 bytes from 192.168.153.20 icmp_seq=5 ttl=62 time=105.172 ms

PC1>
```