INSTITUTO TECNOLÓGICO SUPERIOR DEL SUR DE GUANAJUATO

OSPF

Materia:

CONMUTACIÓN Y ENRUTAMIENTO DE REDES DE DATOS

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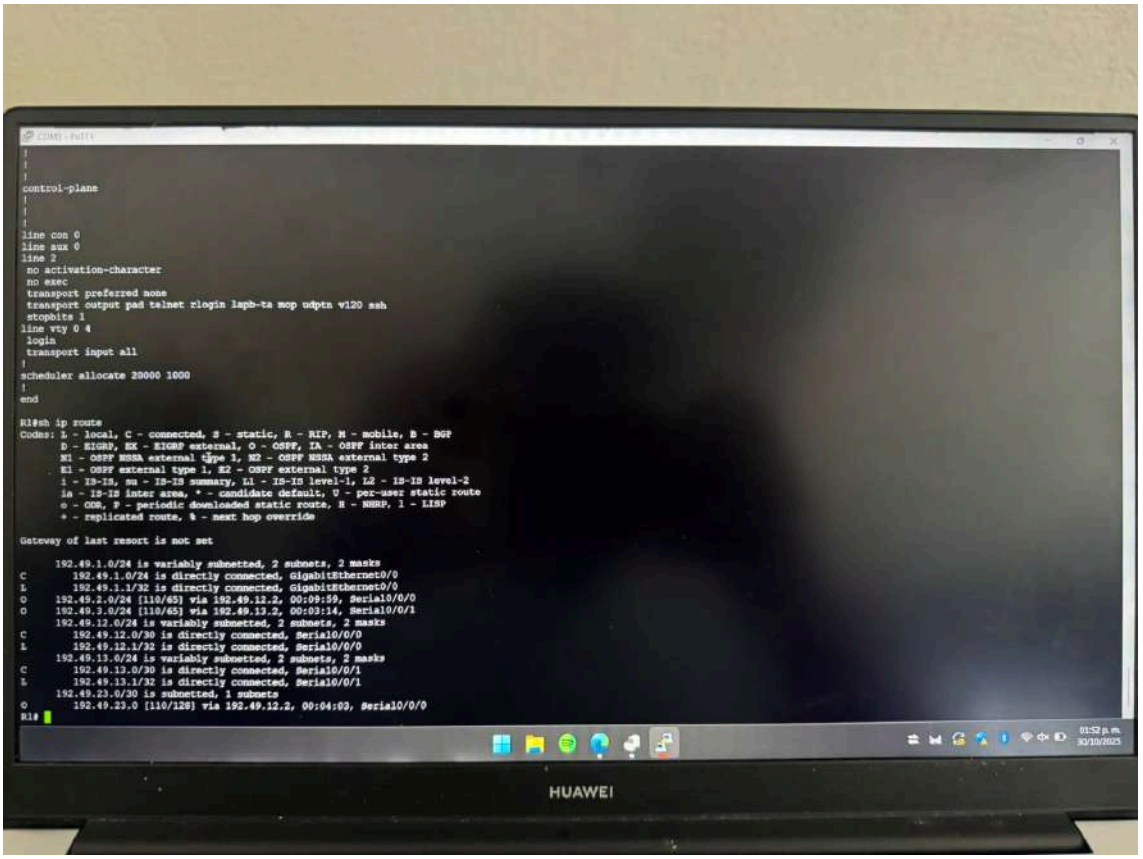
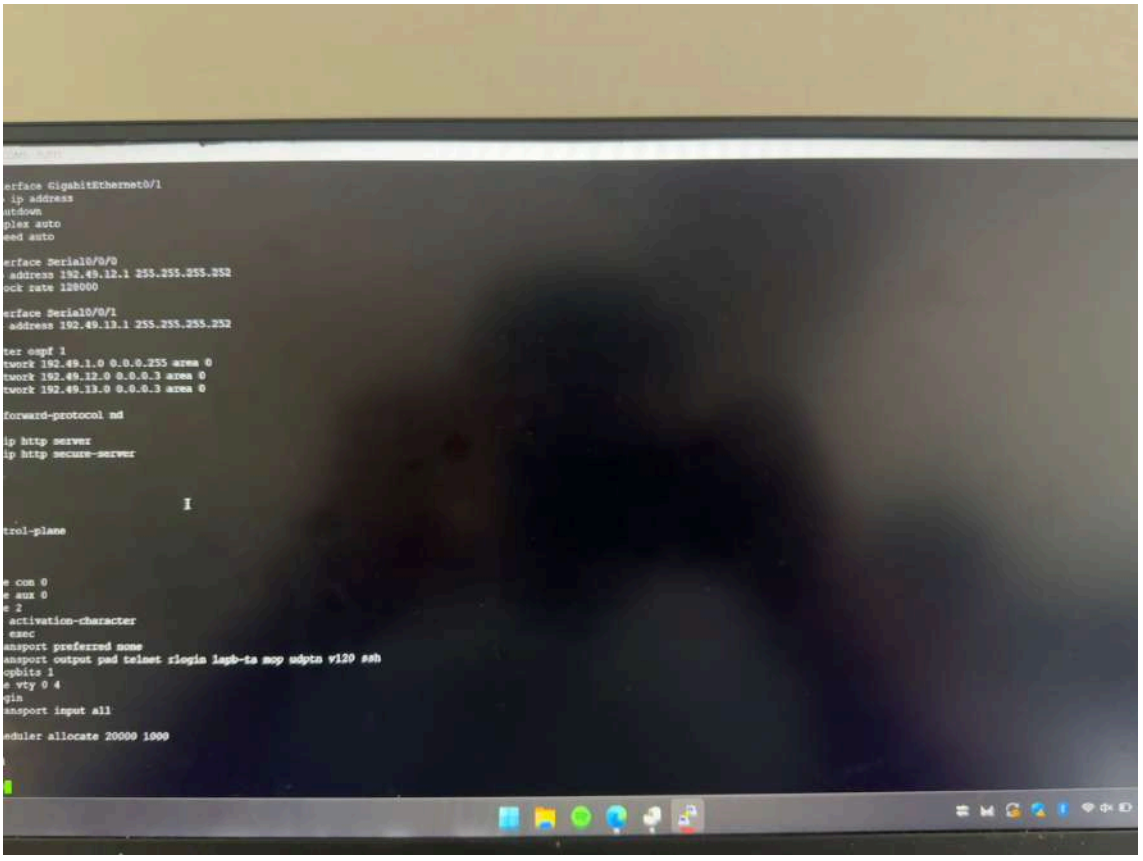
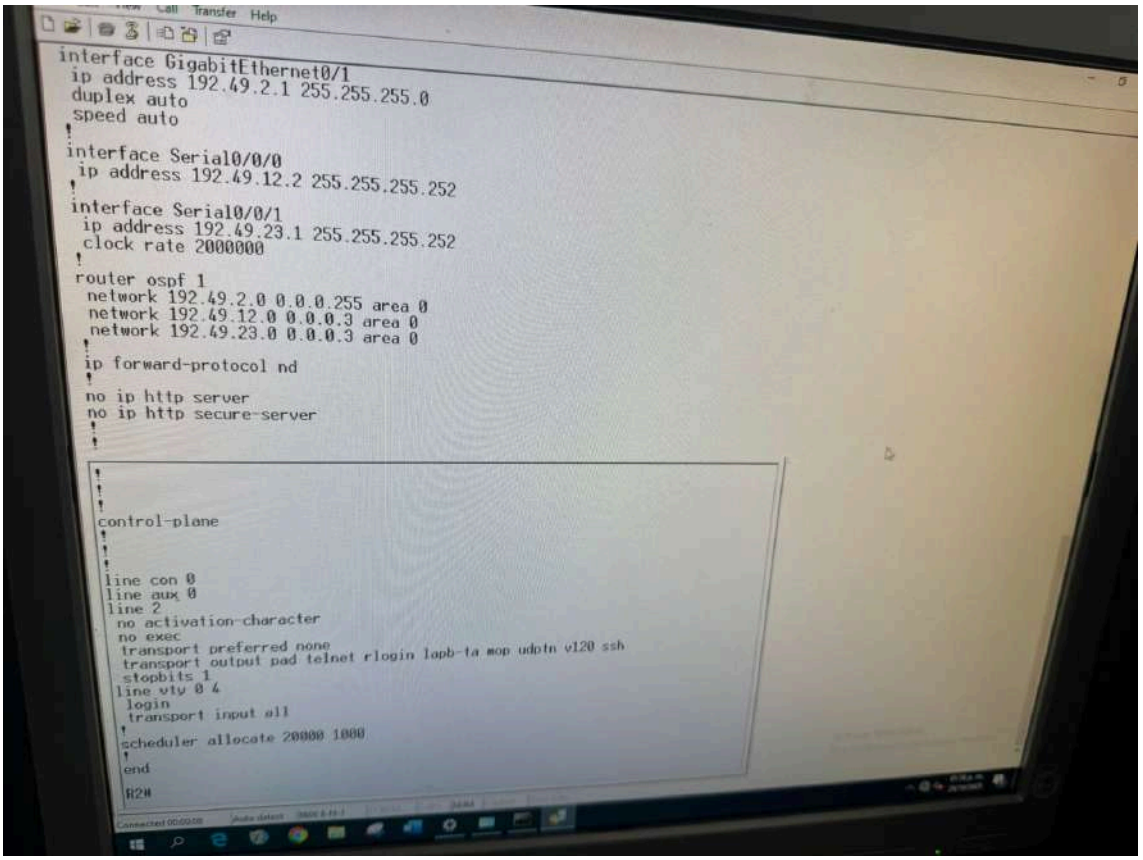
Uriangato, Gto. 30 octubre 2025

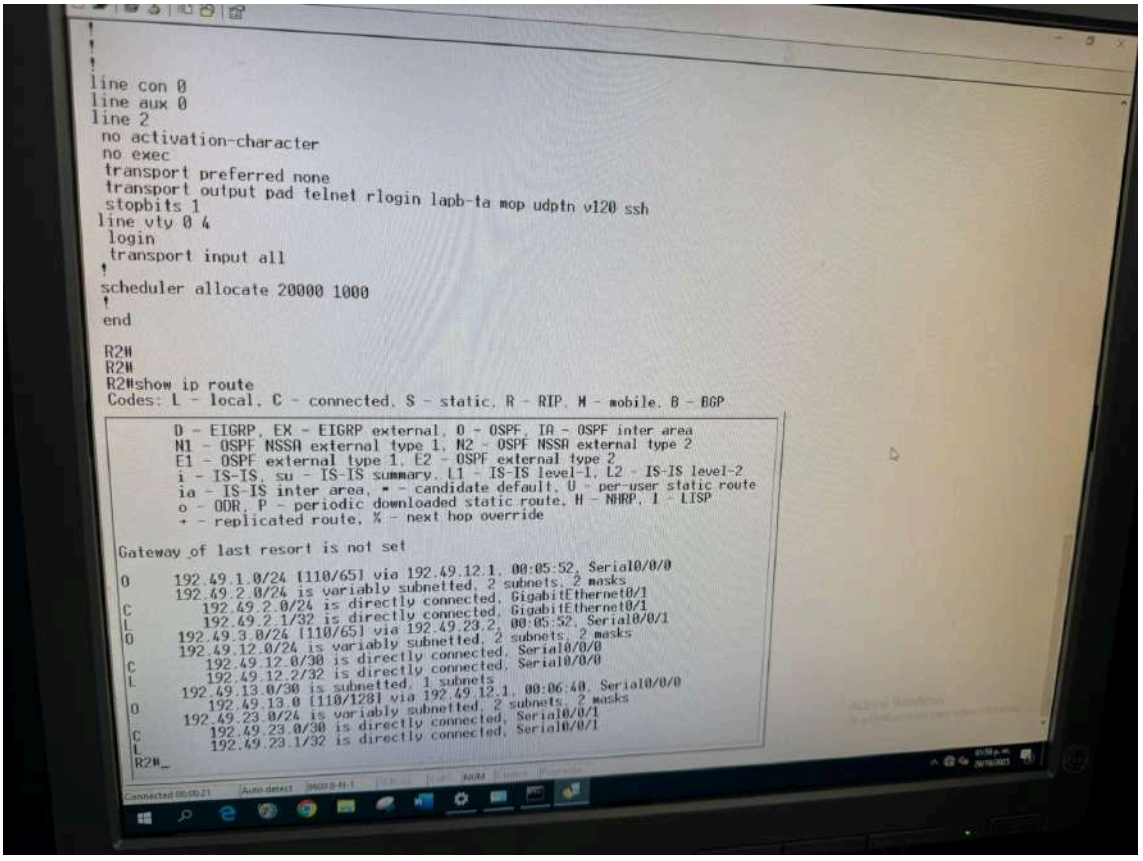
CONFIGURACIÓN R1



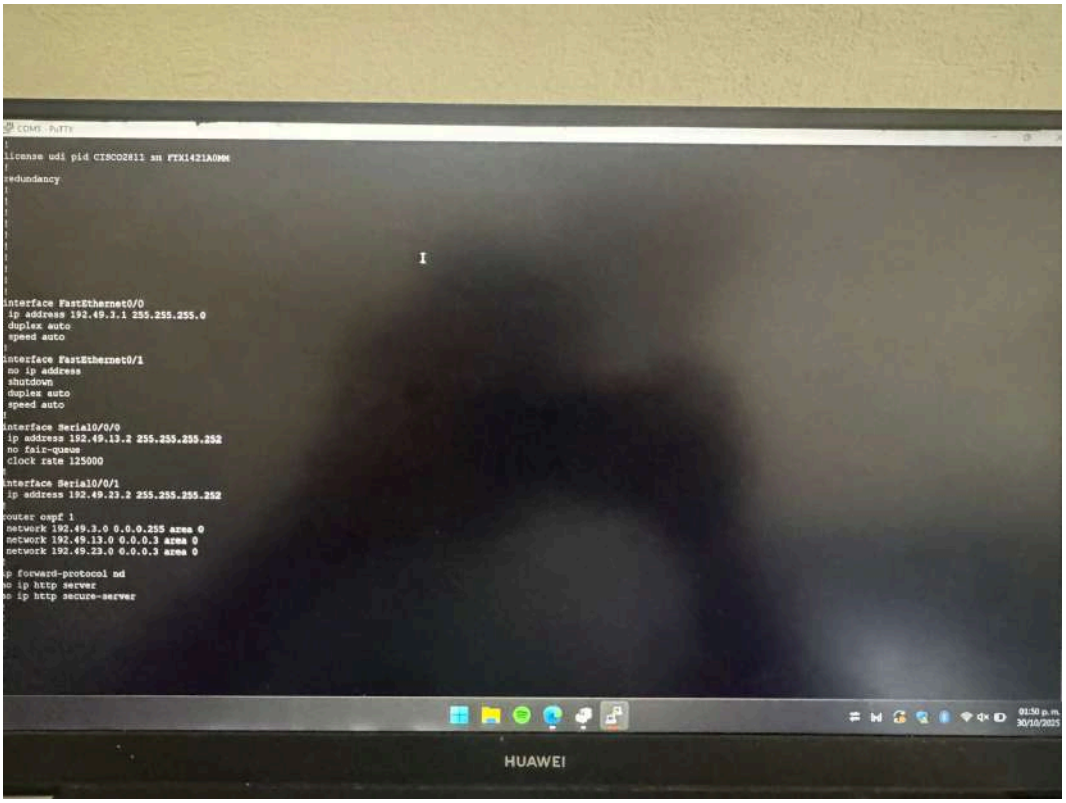

erface GigabitEthernet0/1
ip address
utdown
plex auto
eed auto
erface Serial0/0/0
address 192.49.12.1 255.255.255.252
ock rate 128000
erface Serial0/0/1
address 192.49.13.1 255.255.255.252
ter ospf 1
twork 192.49.1.0 0.0.0.255 area 0
twork 192.49.12.0 0.0.0.3 area 0
twork 192.49.13.0 0.0.0.3 area 0
forward-protocol nd
ip http server
ip http secure-server
trol-plane
e con 0
e aux 0
e 2
activation-character
exec
ansport preferred none
ansport output pad telnet rlogin lapb-ta mop udptn v120 ssh
ogbits 1
e vty 0 4
gin
ansport input all
eduler allocate 20000 1000

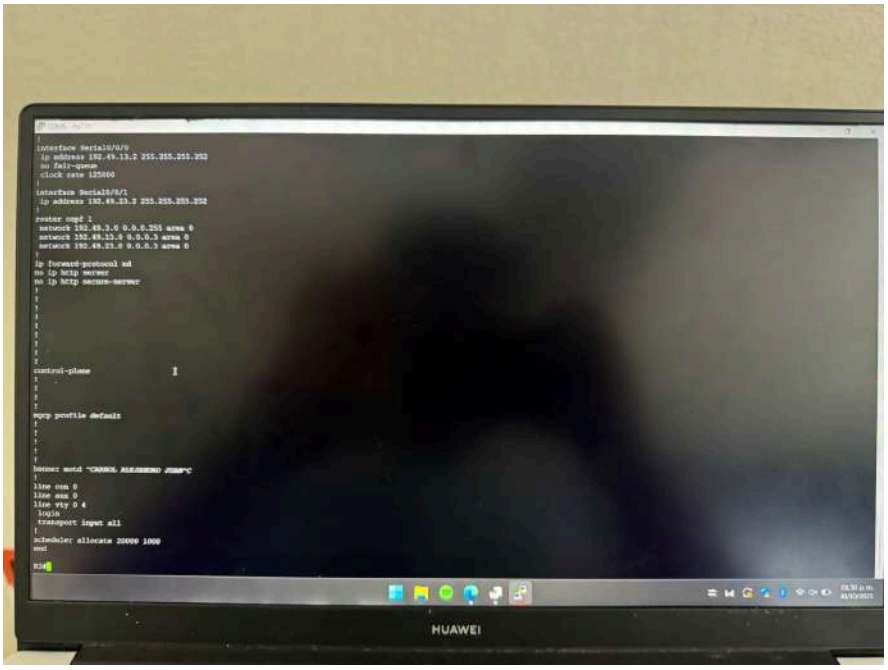
CONFIGURACIÓN R2

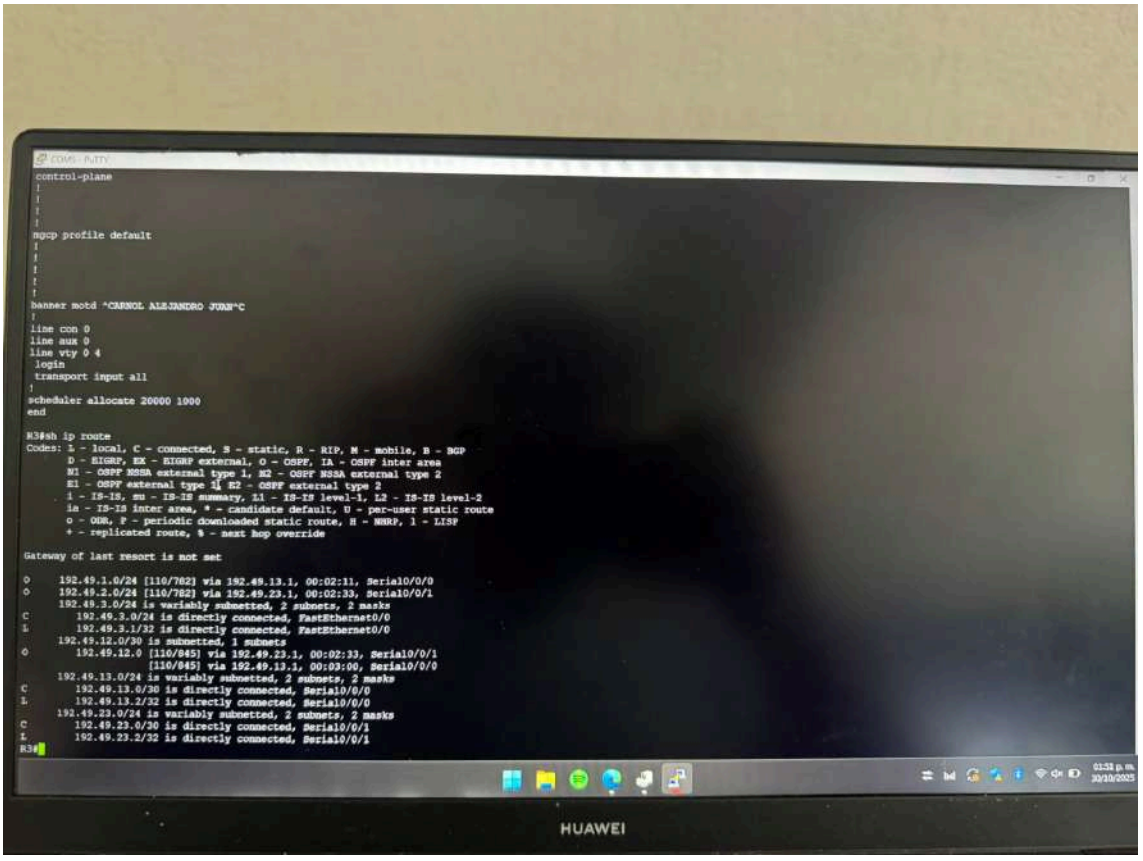




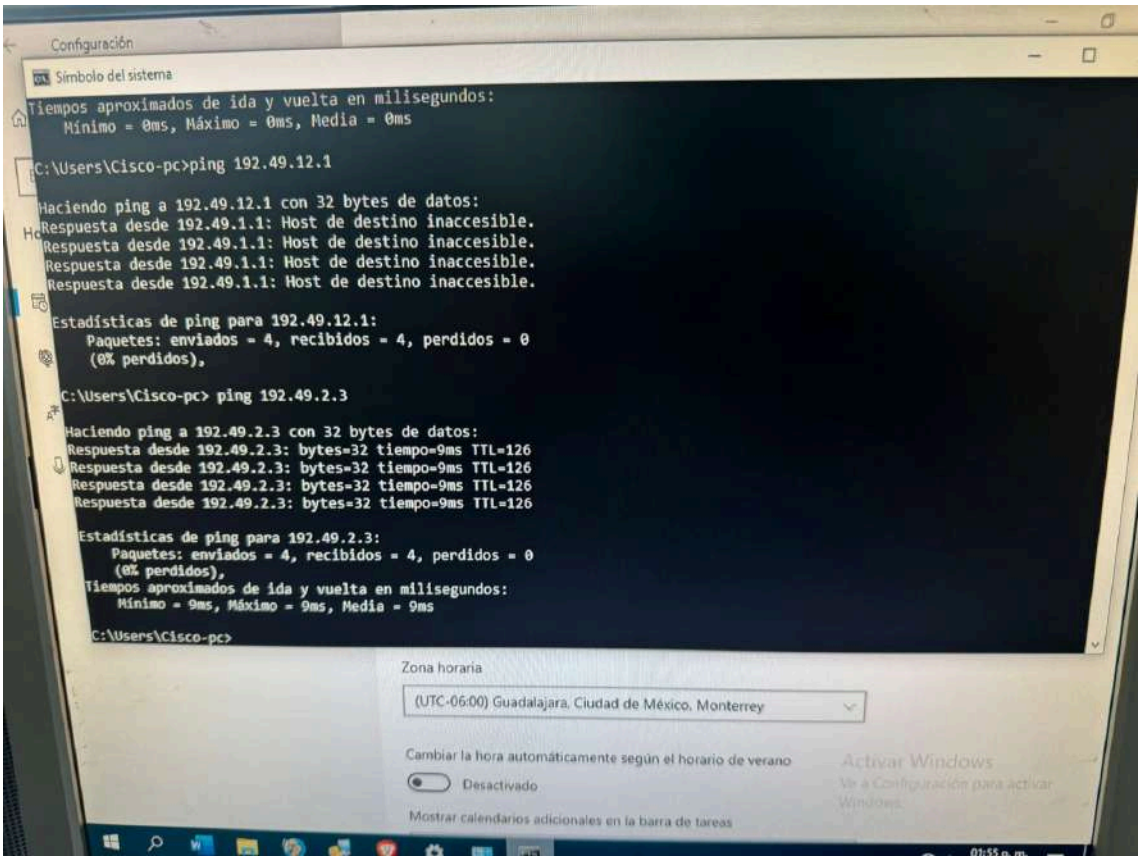
CONFIGURACIÓN R3



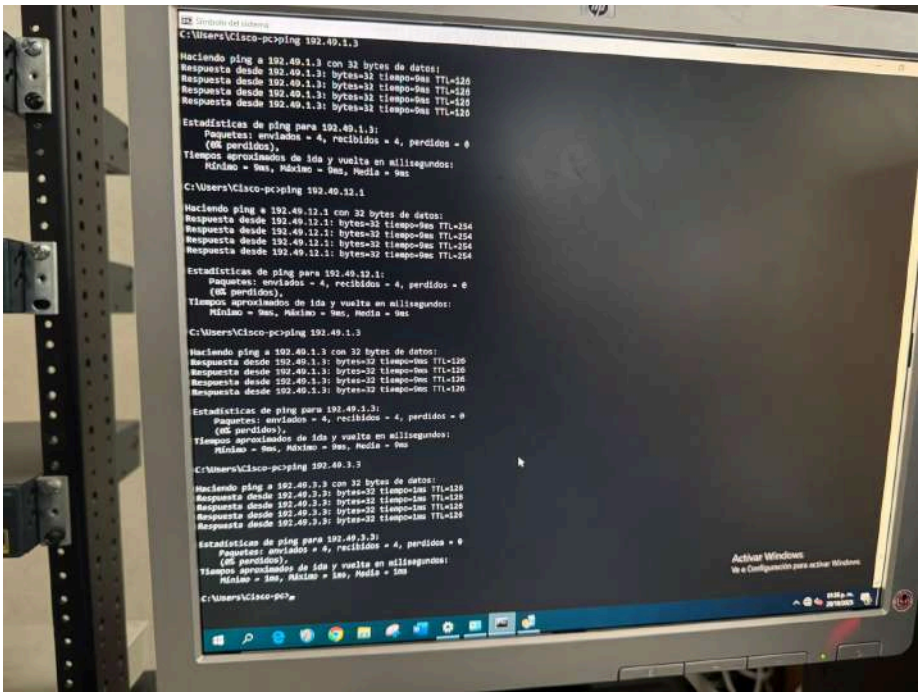

interface Serial0/0/0
ip address 192.49.13.2 255.255.255.252
no fair-queue
clock rate 125000
interface Serial0/0/1
ip address 192.49.23.2 255.255.255.252
router ospf 1
network 192.49.3.0 0.0.0.255 area 0
network 192.49.13.0 0.0.0.3 area 0
network 192.49.23.0 0.0.0.3 area 0
ip forward-protocol nd
no ip http server
no ip http secure-server
control-plane
mgcp profile default
banner motd ^CARNOL ALEJANDRO JUAN^C
line con 0
line aux 0
line vty 0 4
login
transport input all
scheduler allocate 20000 1000
end
R3#
HUAWEI


control-plane
mgcp profile default
banner motd ^CARNOL ALEJANDRO JUAN^C
line con 0
line aux 0
line vty 0 4
login
transport input all
scheduler allocate 20000 1000
end
R3#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
+ - replicated route, % - next hop override
Gateway of last resort is not set
O 192.49.1.0/24 [110/782] via 192.49.13.1, 00:02:11, Serial0/0/0
O 192.49.2.0/24 [110/782] via 192.49.23.1, 00:02:33, Serial0/0/1
192.49.3.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.49.3.0/24 is directly connected, FastEthernet0/0
L 192.49.3.1/32 is directly connected, FastEthernet0/0
192.49.12.0/30 is subnetted, 1 subnets
O 192.49.12.0 [110/845] via 192.49.23.1, 00:02:33, Serial0/0/1
[110/845] via 192.49.13.1, 00:03:00, Serial0/0/0
192.49.13.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.49.13.0/30 is directly connected, Serial0/0/0
L 192.49.13.2/32 is directly connected, Serial0/0/0
192.49.23.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.49.23.0/30 is directly connected, Serial0/0/1
L 192.49.23.2/32 is directly connected, Serial0/0/1
R3#
HUAWEI

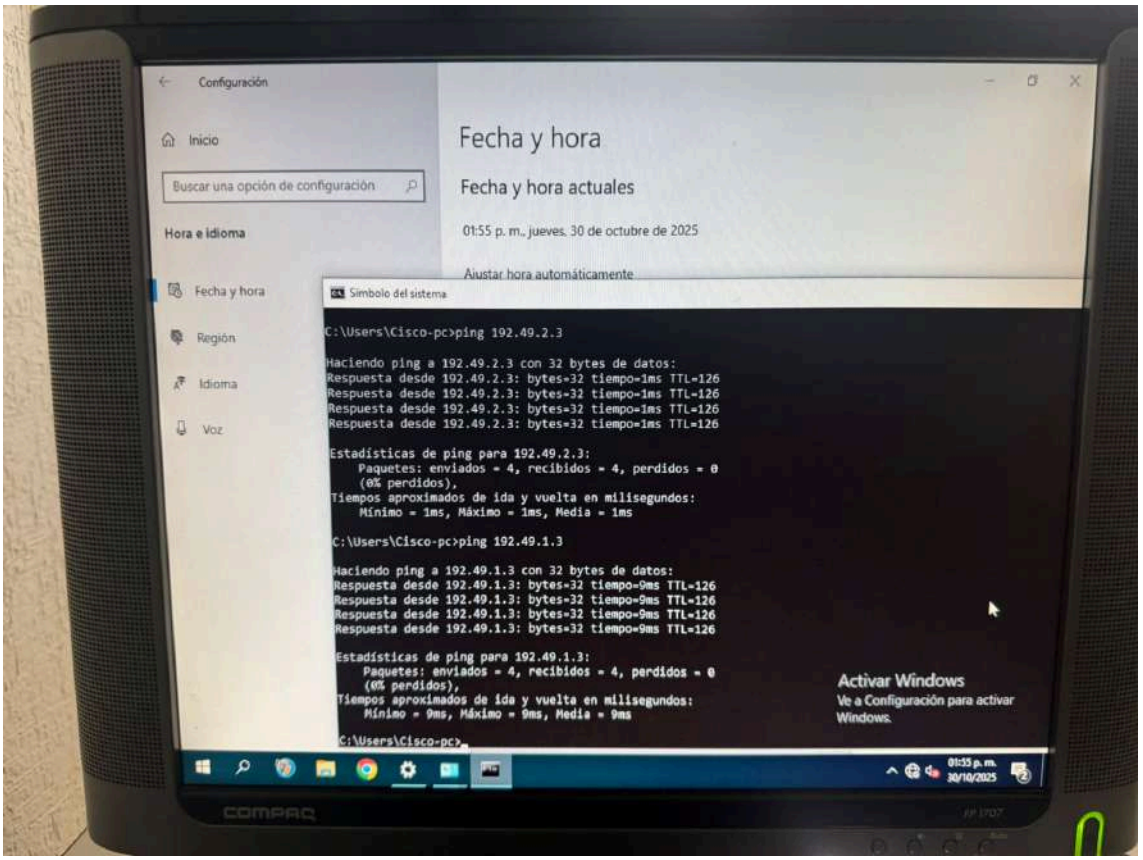
Pings PC A



Pings PC B



Pings PC C


Configuración
Inicio
Buscar una opción de configuración
Hora e idioma
Fecha y hora
Región
Idioma
Voz
Fecha y hora
Fecha y hora actuales
01:55 p. m., jueves, 30 de octubre de 2025
Ajustar hora automáticamente
Símbolo del sistema
C:\Users\Cisco-pc>ping 192.49.2.3
Haciendo ping a 192.49.2.3 con 32 bytes de datos:
Respuesta desde 192.49.2.3: bytes=32 tiempo=1ms TTL=126
Respuesta desde 192.49.2.3: bytes=32 tiempo=1ms TTL=126
Respuesta desde 192.49.2.3: bytes=32 tiempo=1ms TTL=126
Respuesta desde 192.49.2.3: bytes=32 tiempo=1ms TTL=126
Estadísticas de ping para 192.49.2.3:
Paquetes: enviados = 4, recibidos = 4, perdidos = 0
(0% perdidos),
Tiempos aproximados de ida y vuelta en milisegundos:
Mínimo = 1ms, Máximo = 1ms, Media = 1ms
C:\Users\Cisco-pc>ping 192.49.1.3
Haciendo ping a 192.49.1.3 con 32 bytes de datos:
Respuesta desde 192.49.1.3: bytes=32 tiempo=9ms TTL=126
Respuesta desde 192.49.1.3: bytes=32 tiempo=9ms TTL=126
Respuesta desde 192.49.1.3: bytes=32 tiempo=9ms TTL=126
Respuesta desde 192.49.1.3: bytes=32 tiempo=9ms TTL=126
Estadísticas de ping para 192.49.1.3:
Paquetes: enviados = 4, recibidos = 4, perdidos = 0
(0% perdidos),
Tiempos aproximados de ida y vuelta en milisegundos:
Mínimo = 9ms, Máximo = 9ms, Media = 9ms
C:\Users\Cisco-pc>
Activar Windows
Ve a Configuración para activar Windows.
01:55 p. m.
30/10/2025
COMPAQ