ACTIVIDAD 5.2.7. CONFIGURACIÓN DE LISTAS ACL IPV4 ESTANDAR

Memoria Técnica

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7 A IELC

CONTENIDO

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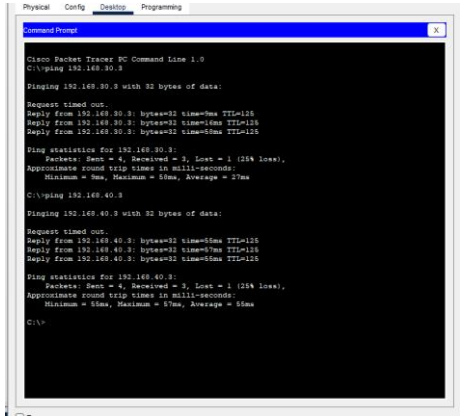
1.2. Alcance

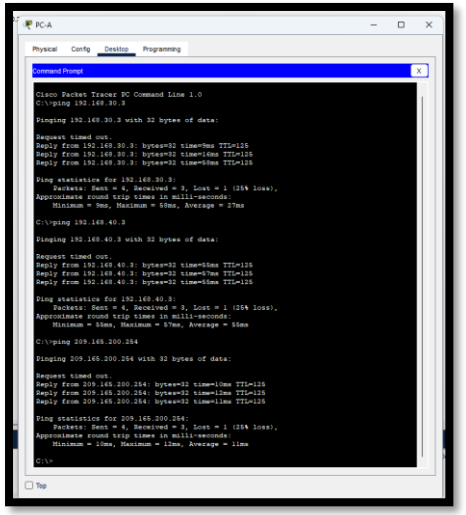
- La seguridad de red es una cuestión importante al diseñar y administrar redes IP. La capacidad para configurar reglas apropiadas para filtrar los paquetes, sobre la base de las políticas de seguridad establecidas, es una aptitud valiosa.
- En esta práctica de laboratorio, establecerá reglas de filtrado para dos oficinas representadas por el R1 y el R3. La administración estableció algunas políticas de acceso entre las redes LAN ubicadas en el R1 y el R3 que usted debe implementar. El router ISP que se ubica entre el R1 y el R3 no tendrá ninguna ACL. Usted no tiene permitido el acceso administrativo al router ISP, debido a que solo puede controlar y administrar sus propios equipos.

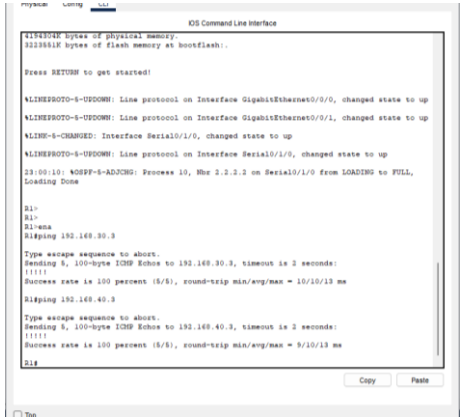
2. DESCRIPCIÓN TÉCNICA DE LA SOLUCIÓN

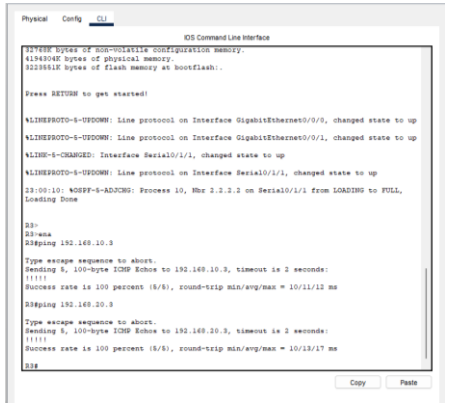
Parte 1. Verificar la conectividad

EN LA PARTE 1, VERIFIQUE LA CONECTIVIDAD ENTRE LOS DISPOSITIVOS



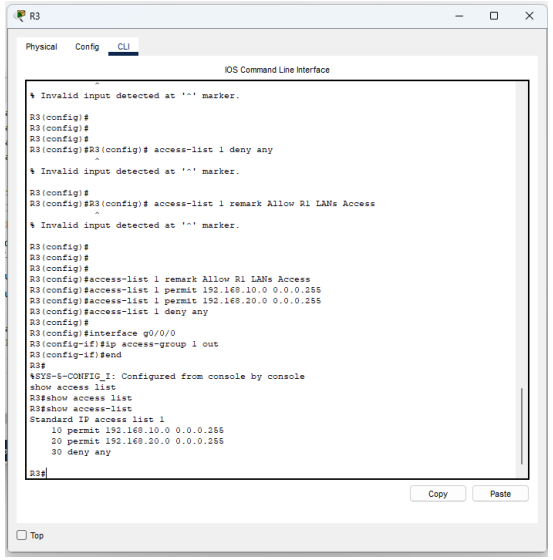


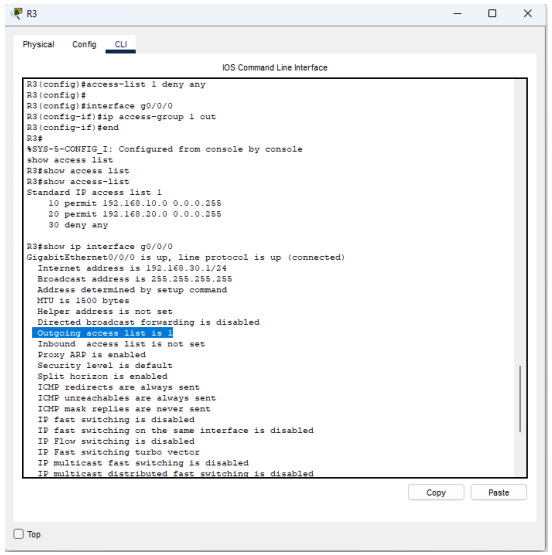


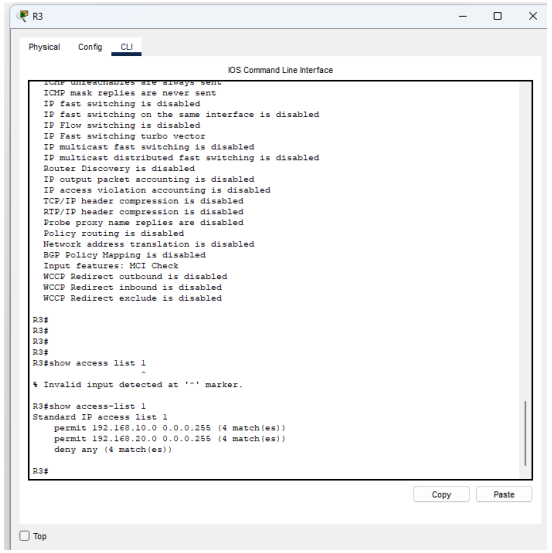


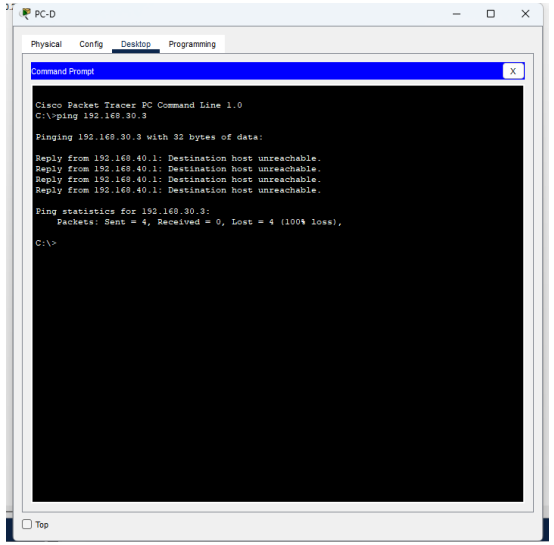
2. DESCRIPCIÓN TÉCNICA DE LA SOLUCIÓN

Parte 2: Configurar y verificar las ACL numeradas y con nombre estándar

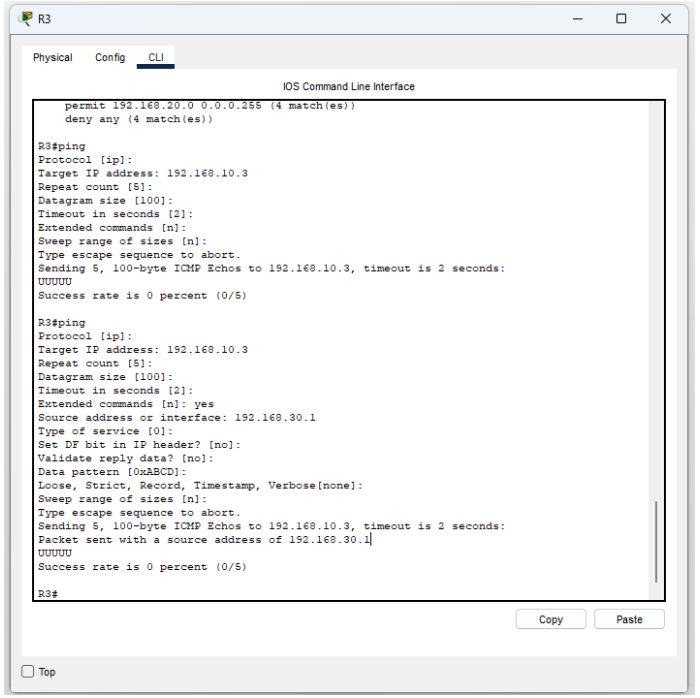


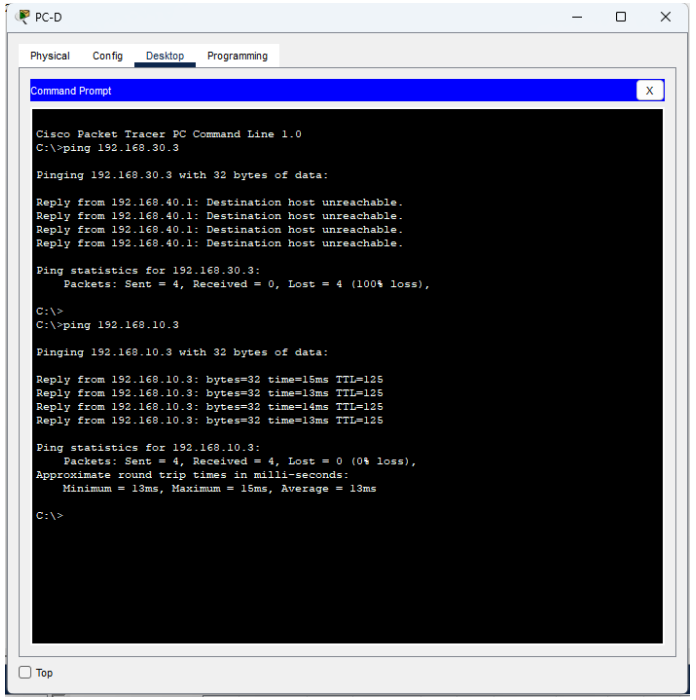


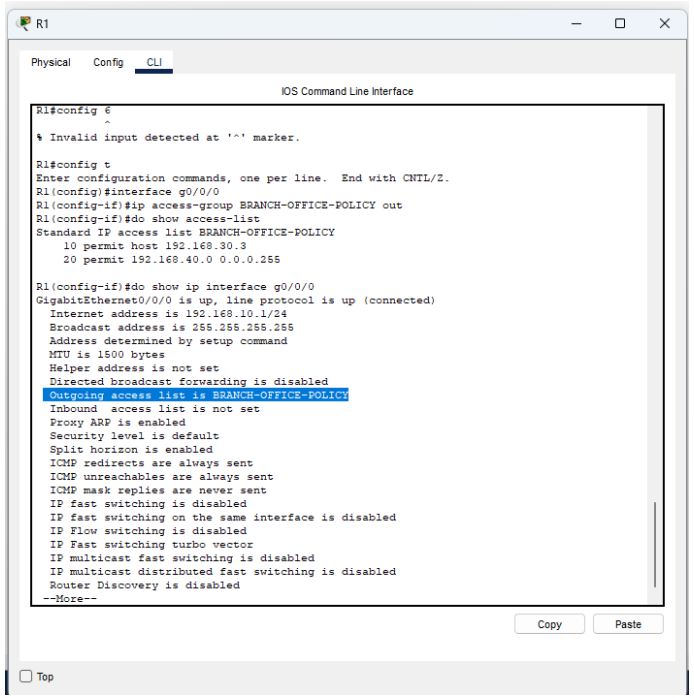




PASO 1: CONFIGURAR UNA ACL ESTÁNDAR NUMERADA.



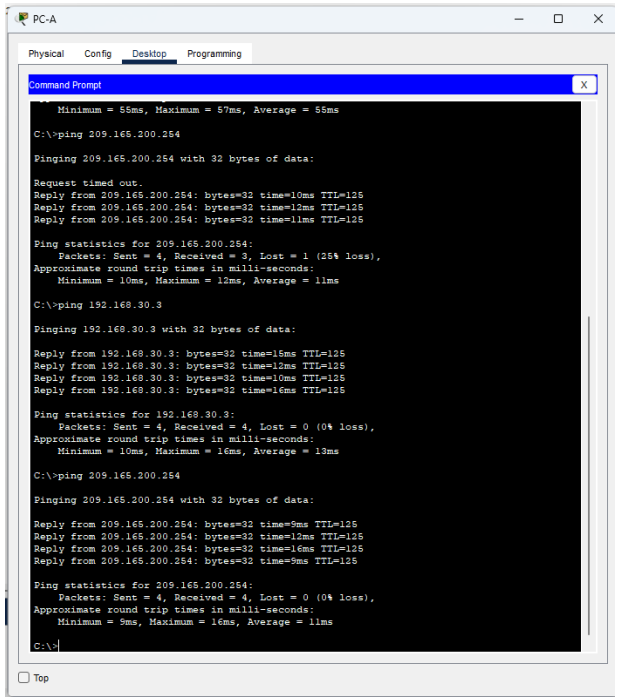


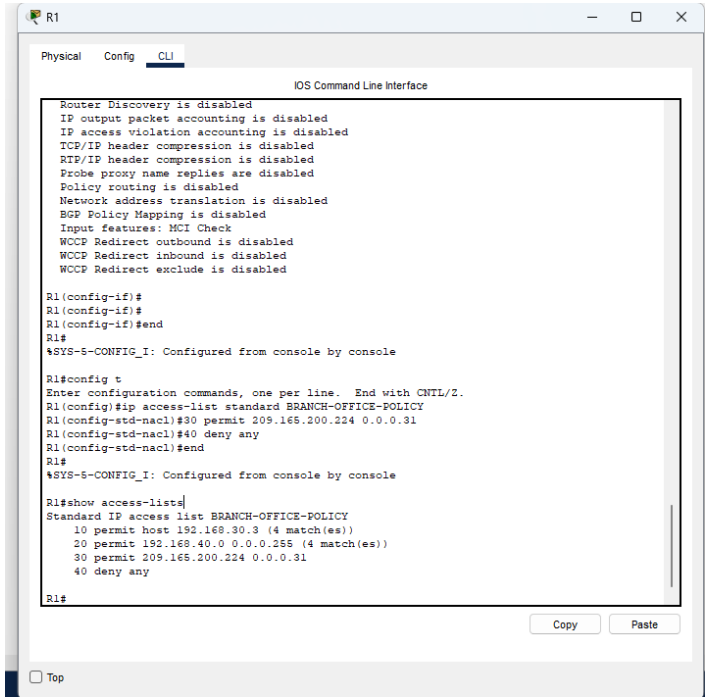


PASO 2: CONFIGURAR UNA ACL ESTÁNDAR CON NOMBRE.

2. DESCRIPCIÓN TÉCNICA DE LA SOLUCIÓN

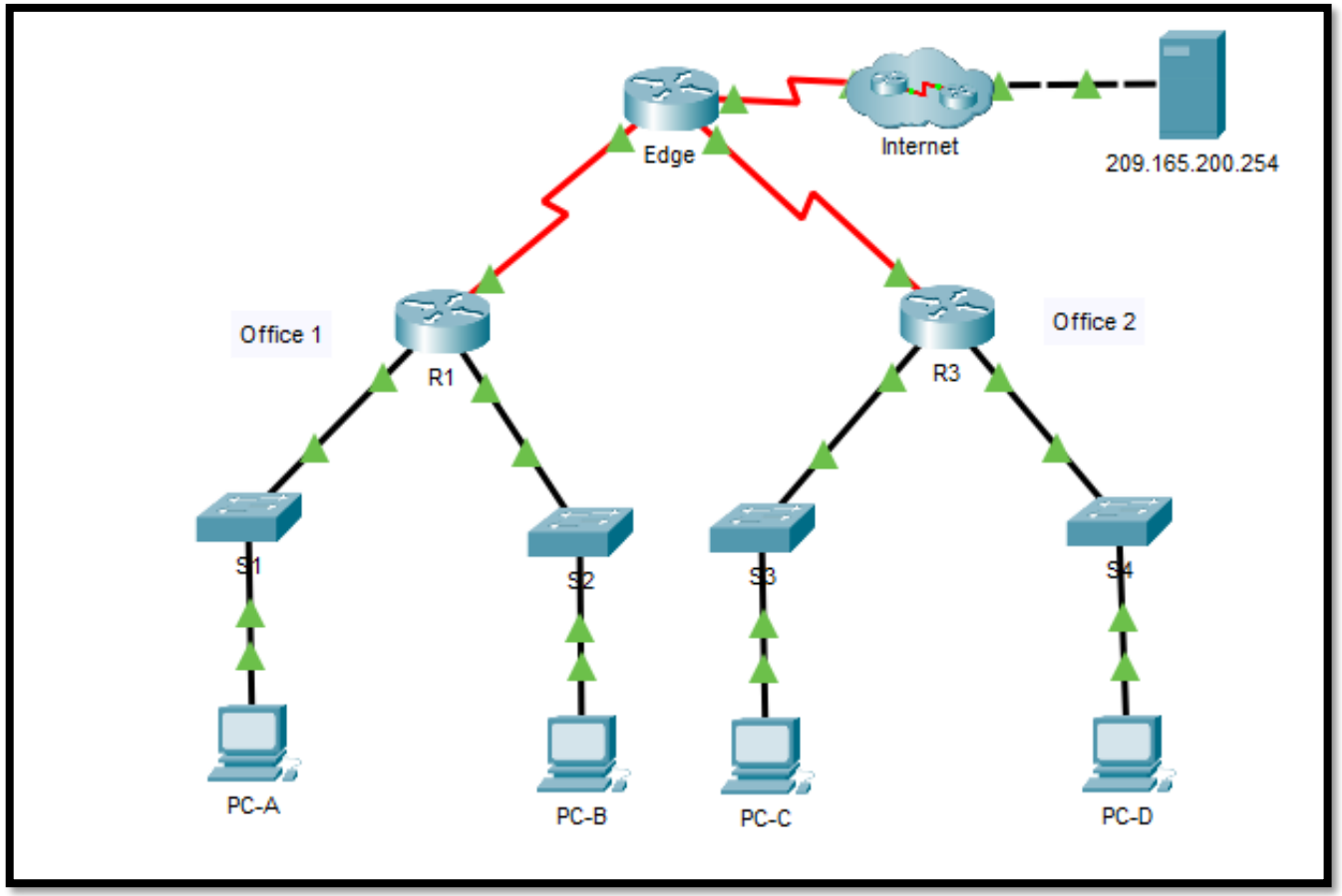
Parte 3: Modificar una ACL estándar





PASO 1: MODIFICAR Y VERIFICAR UNA ACL ESTÁNDAR CON NOMBRE.

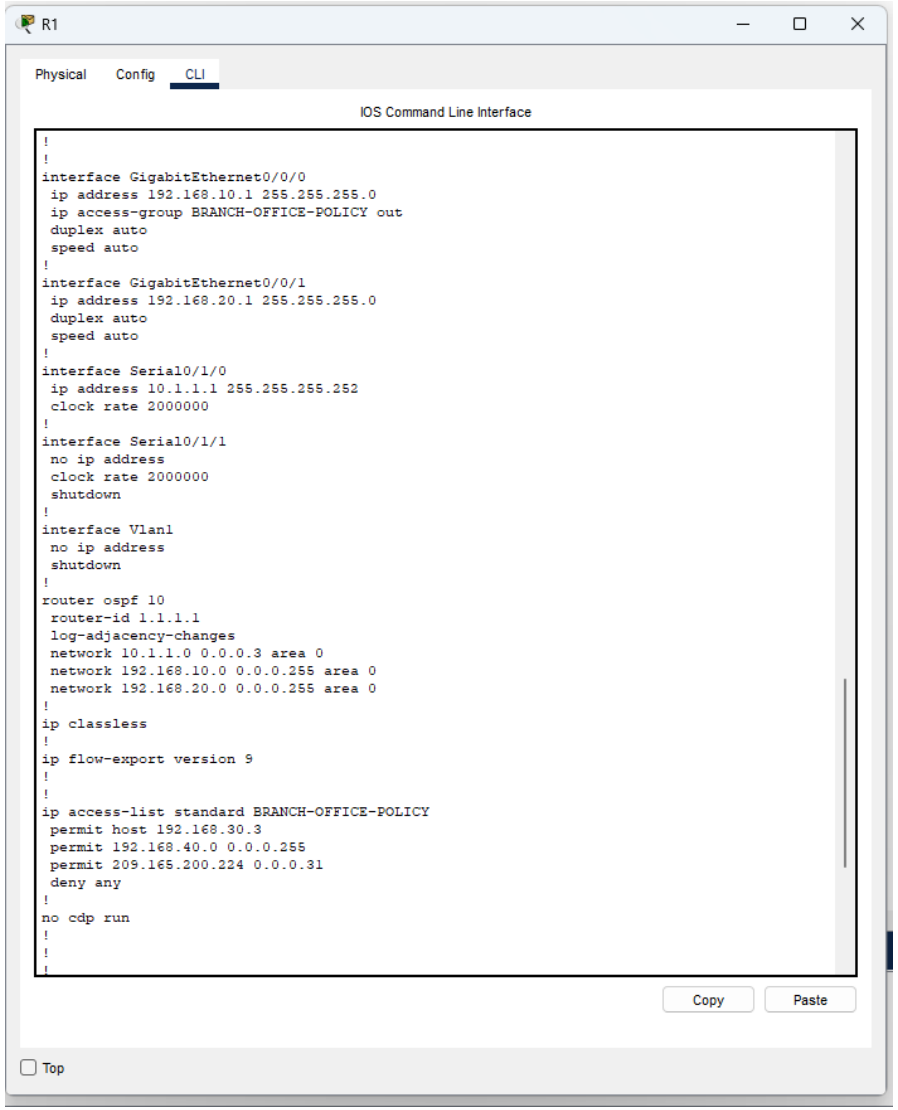
3.ESQUEMA GENERAL



4.SCRIPT CTC

Dispositivo	Interfaz	Dirección IP	Máscara de subred	Puerta de enlace predeterminada
R1	G0/0/0	192.168.10.1	255.255.255.0	N/D
	G0/0/1	192.168.20.1	255.255.255.0	
	S0/1/0 (DCE)	10.1.1.1	255.255.255.252	
empresarial	S0/1/0	10.1.1.2	255.255.255.252	N/D
	S0/1/1 (DCE)	10.2.2.2	255.255.255.252	
	S0/2/1	209.165.200.225	255.255.255.224	
R3	G0/0/0	192.168.30.1	255.255.255.0	N/D
	G0/0/1	192.168.40.1	255.255.255.0	
	/1/1	10.2.2.1	255.255.255.252	
S1	VLAN 1	192.168.10.11	255.255.255.0	192.168.10.1
S2	VLAN 1	192.168.20.11	255.255.255.0	192.168.20.1
S3	VLAN 1	192.168.30.11	255.255.255.0	192.168.30.1
S4	VLAN 1	192.168.40.11	255.255.255.0	192.168.40.1
PC-A	NIC	192.168.10.3	255.255.255.0	192.168.10.1
PC-B	NIC	192.168.20.3	255.255.255.0	192.168.20.1
PC-C	NIC	192.168.30.3	255.255.255.0	192.168.30.1
PC-D	NIC	192.168.40.3	255.255.255.0	192.168.40.1

5. PRUEBAS


R1
Physical
Config
CLI
IOS Command Line Interface
!
!
interface GigabitEthernet0/0/0
 ip address 192.168.10.1 255.255.255.0
 ip access-group BRANCH-OFFICE-POLICY out
 duplex auto
 speed auto
!
interface GigabitEthernet0/0/1
 ip address 192.168.20.1 255.255.255.0
 duplex auto
 speed auto
!
interface Serial0/1/0
 ip address 10.1.1.1 255.255.255.252
 clock rate 2000000
!
interface Serial0/1/1
 no ip address
 clock rate 2000000
 shutdown
!
interface Vlan1
 no ip address
 shutdown
!
router ospf 10
 router-id 1.1.1.1
 log-adjacency-changes
 network 10.1.1.0 0.0.0.3 area 0
 network 192.168.10.0 0.0.0.255 area 0
 network 192.168.20.0 0.0.0.255 area 0
!
ip classless
!
ip flow-export version 9
!
!
ip access-list standard BRANCH-OFFICE-POLICY
 permit host 192.168.30.3
 permit 192.168.40.0 0.0.0.255
 permit 209.165.200.224 0.0.0.31
 deny any
!
no cdp run
!
!
!
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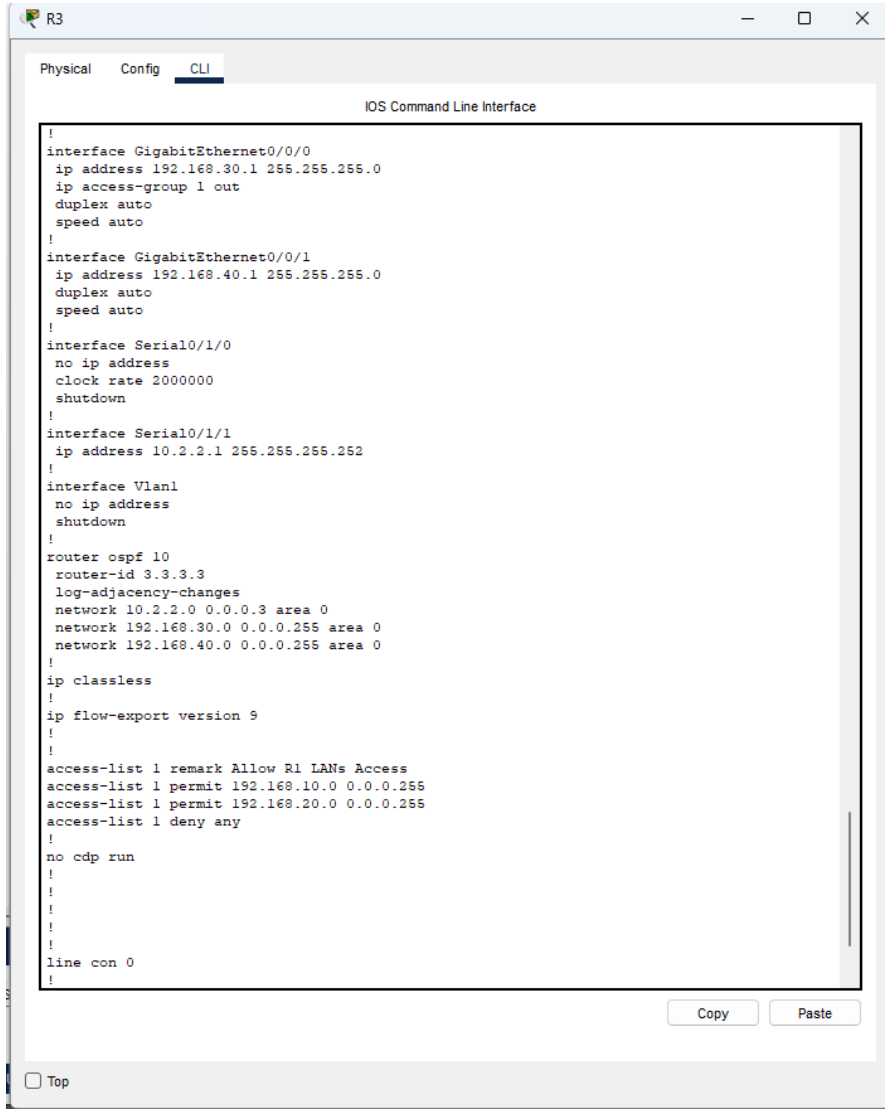
5. PRUEBAS


R3
Physical
Config
CLI
IOS Command Line Interface
!
interface GigabitEthernet0/0/0
 ip address 192.168.30.1 255.255.255.0
 ip access-group 1 out
 duplex auto
 speed auto
!
interface GigabitEthernet0/0/1
 ip address 192.168.40.1 255.255.255.0
 duplex auto
 speed auto
!
interface Serial0/1/0
 no ip address
 clock rate 2000000
 shutdown
!
interface Serial0/1/1
 ip address 10.2.2.1 255.255.255.252
!
interface Vlan1
 no ip address
 shutdown
!
router ospf 10
 router-id 3.3.3.3
 log-adjacency-changes
 network 10.2.2.0 0.0.0.3 area 0
 network 192.168.30.0 0.0.0.255 area 0
 network 192.168.40.0 0.0.0.255 area 0
!
ip classless
!
ip flow-export version 9
!
!
access-list 1 remark Allow R1 LANs Access
access-list 1 permit 192.168.10.0 0.0.0.255
access-list 1 permit 192.168.20.0 0.0.0.255
access-list 1 deny any
!
no cdp run
!
!
!
!
!
line con 0
!
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