Comandos Práctica Final Redes

**AS A**

Router Frontera A:

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#int*

*% Incomplete command.*

*Router(config)#interface Serial2/0*

*Router(config-if)#ip addr 10.0.0.1 255.255.255.252*

*Router(config-if)#no shutdown*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to down*

*Router(config-if)#exit*

*Router(config)#router ospf 1*

*Router(config-router)#network 10.0.0.0 0.0.0.3 area 0*

*Router(config-router)#*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up*

*00:21:39: %OSPF-5-ADJCHG: Process 1, Nbr 10.0.0.9 on Serial2/0 from LOADING to FULL, Loading Done*

*Router>*

Router Interno A:

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#interface s2*

*Router(config)#interface s2/0*

*Router(config-if)#ip addr 10.0.0.2 255.255.255.252*

*Router(config-if)#no shutdown*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to up*

*Router(config-if)#*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up*

*Router(config-if)#*

*Router(config-if)#int se3/0*

*Router(config-if)#exit*

*Router(config)#int s3/0*

*Router(config)#int s3/0*

*Router(config-if)#ip addr 10.0.0.5 255.255.255.252*

*Router(config-if)#no shutdown*

*%LINK-5-CHANGED: Interface Serial3/0, changed state to down*

*Router(config-if)#exit*

*Router(config)#int fa0/0*

*Router(config-if)#ip addr 10.0.0.9 255.255.255.252*

*Router(config-if)#no shutdown*

*Router(config-if)#*

*%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up*

*exit*

*Router(config)#router ospf 1*

*Router(config-router)#network 10.0.0.0 0.0.0.255 area 0*

*Router(config-router)#*

*00:21:33: %OSPF-5-ADJCHG: Process 1, Nbr 10.0.0.1 on Serial2/0 from LOADING to FULL, Loading Done*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up*

*Router#*

*%SYS-5-CONFIG\_I: Configured from console by console*

*%LINK-5-CHANGED: Interface Serial3/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up*

*01:18:16: %OSPF-5-ADJCHG: Process 1, Nbr 193.0.4.1 on Serial3/0 from LOADING to FULL, Loading Done*

*Router>*

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#router ospf 1*

*Router(config-router)#network 10.0.0.4 0.0.0.3 area 0*

*Router(config-router)#exit*

*Router(config)#do show ip ospf neighbor*

*Neighbor ID Pri State Dead Time Address Interface*

*10.0.0.1 0 FULL/ - 00:00:35 10.0.0.1 Serial2/0*

*193.0.4.1 0 FULL/ - 00:00:39 10.0.0.6 Serial3/0*

*Router(config)#do sh ip route*

*Codes: C - connected, S - static, I - IGRP, 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, E - EGP*

*i - IS-IS, 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*

*Gateway of last resort is not set*

*10.0.0.0/30 is subnetted, 3 subnets*

*C 10.0.0.0 is directly connected, Serial2/0*

*C 10.0.0.4 is directly connected, Serial3/0*

*C 10.0.0.8 is directly connected, FastEthernet0/0*

*O 193.0.0.0/21 [110/65] via 10.0.0.6, 00:03:36, Serial3/0*

*Router(config)#*

Router Empresa 1:

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#int fa0/0*

*Router(config-if)#ip addr 10.0.0.8 255.255.255.252*

*Bad mask /30 for address 10.0.0.8*

*Router(config-if)#ip addr 10.0.0.10 255.255.255.252*

*Router(config-if)#no shutdown*

*Router(config-if)#*

*%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up*

*Router(config-if)#*

*Router(config-if)#exit*

*Router(config)#int fa1/0*

*Router(config-if)#no shutdown*

*Router(config-if)#*

*%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up*

*Router(config-if)#int fa1/0.10*

*%LINK-5-CHANGED: Interface FastEthernet1/0.10, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0.10, changed state to up*

*Router(config-subif)#encapsulation dot1Q 10*

*Router(config-subif)#ip addr 193.0.0.1 255.255.255.0*

*Router(config-subif)#int fa1/0.20*

*%LINK-5-CHANGED: Interface FastEthernet1/0.20, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0.20, changed state to up*

*Router(config-subif)#encapsulation dot1Q 20*

*Router(config-subif)#ip addr 193.0.1.1 255.255.255.0*

*Router(config-subif)#int fa1/0.30*

*%LINK-5-CHANGED: Interface FastEthernet1/0.30, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0.30, changed state to up*

*Router(config-subif)#encapsulation dot1Q 30*

*Router(config-subif)#ip addr 193.0.2.1 255.255.255.0*

*Router(config-subif)#int fa1/0.40*

*%LINK-5-CHANGED: Interface FastEthernet1/0.40, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0.40, changed state to up*

*Router(config-subif)#encapsulation dot1Q 40*

*Router(config-subif)#ip addr 193.0.3.1 255.255.255.0*

*Router(config-subif)#exit*

*Router(config)#int s2/0*

*Router(config-if)#ip addr 10.0.0.5 255.255.255.252*

*Router(config-if)#no shutdown*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to down*

*Router(config-if)#exit*

*Router(config)#router ospf 1*

*Router(config-router)#network 193.0.0.0*

*% Incomplete command.*

*Router(config-router)#network 193.0.0.0 0.0.3.255 area 0*

*Router(config-router)#network 10.0.0.4 0.0.0.3 area 0*

*Router(config-router)#*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up*

*Router>*

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#access-list 110 permit tcp any any eq 80*

*Router(config)#access-list 110 permit tcp any any eq 443*

*Router(config)#access-list 110 deny ip any any*

*Router(config)#int fa1/0.10*

*Router(config-subif)#ip access-group 110 out*

*Router(config-subif)#*

*Router#*

*Router>*

*Router>ena*

*Router#sh access-lists 110*

*Extended IP access list 110*

*permit tcp any any eq www*

*permit tcp any any eq 443*

*deny ip any any*

Router Empresa 2:

Router>ena

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int fa0/0

Router(config-if)#ip addr 193.0.4.1 255.255.248.0

Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#int se3/0

Router(config-if)#ip addr 10.0.0.10 255.255.255.252

Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial3/0, changed state to up

Router(config-if)#exit

Router(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

router ospf 1

Router(config-router)#network 193.0.4.0 0.0.7.255 area 0

Router(config-router)#network 10.0.0.8 0.0.0.3 area 0

Router(config-router)#

Router>

Router>ena

Router#sh ip ospf neighbor

Router#

Router#

Router#show ip route

Codes: C - connected, S - static, I - IGRP, 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, E - EGP

i - IS-IS, 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

Gateway of last resort is not set

10.0.0.0/30 is subnetted, 1 subnets

C 10.0.0.8 is directly connected, Serial3/0

C 193.0.0.0/21 is directly connected, FastEthernet0/0

Router#

Router#

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface se2/0

Router(config-if)#ip addr 10.0.0.6 255.255.255.252

Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

exit

Router(config)#router ospf 1

Router(config-router)#network 10.0.0.4 0.0.0.3 area 0

Router(config-router)#

01:09:01: %OSPF-5-ADJCHG: Process 1, Nbr 10.0.0.9 on Serial2/0 from LOADING to FULL, Loading Done

Router(config-router)#

Router(config-router)#do sh ip ospf neighbor

Neighbor ID Pri State Dead Time Address Interface

10.0.0.9 0 FULL/ - 00:00:37 10.0.0.5 Serial2/0

Router(config-router)#do show ip route

Codes: C - connected, S - static, I - IGRP, 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, E - EGP

i - IS-IS, 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

Gateway of last resort is not set

10.0.0.0/30 is subnetted, 3 subnets

O 10.0.0.0 [110/128] via 10.0.0.5, 00:04:09, Serial2/0

C 10.0.0.4 is directly connected, Serial2/0

C 10.0.0.8 is directly connected, Serial3/0

C 193.0.0.0/21 is directly connected, FastEthernet0/0

Router(config-router)#

Router>ena

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int fa1/0

Router(config-if)#no shutdown

Switch E1 Switch>ena

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 10

Switch(config-vlan)#exit

Switch(config)#vlan 20

Switch(config-vlan)#exit

Switch(config)#vlan 30

Switch(config-vlan)#vlan 40

Switch(config-vlan)#sh vlan br

^

% Invalid input detected at '^' marker.

Switch(config-vlan)#exit

Switch(config)#sh vlan br

^

% Invalid input detected at '^' marker.

Switch(config)#exit

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

show vlan br

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

Fa0/9, Fa0/10, Fa0/11, Fa0/12

Fa0/13, Fa0/14, Fa0/15, Fa0/16

Fa0/17, Fa0/18, Fa0/19, Fa0/20

Fa0/21, Fa0/22, Fa0/23, Fa0/24

10 VLAN0010 active

20 VLAN0020 active

30 VLAN0030 active

40 VLAN0040 active

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#switchport mode access

^

% Invalid input detected at '^' marker.

Switch(config)#int fa0/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 10

Switch(config-if)#exit

Switch(config)#int fa0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 20

Switch(config-if)#exit

Switch(config)#int fa0/3

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 30

Switch(config-if)#exit

Switch(config)#int fa0/4

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 40

Switch(config-if)#exit

Switch(config)#int fa0/5

Switch(config-if)#switchport trunk encapsulation dot1q

^

% Invalid input detected at '^' marker.

Switch(config-if)#switchport trunk encapsulation dot1q

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#int fa0/5

Switch(config-if)#switchport trunk encapsulation dot1q

^

% Invalid input detected at '^' marker.

Switch(config-if)#switchport trunk encapsulation dot1q

^

% Invalid input detected at '^' marker.

Switch(config-if)#switchport mode trunk

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to up

Switch(config-if)#switchport trunk native vlan 1

Switch(config-if)#

SwitchE2

Switch>

Switch>ena

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#int fa0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 1

Switch(config-if)#no shutdown

Switch(config-if)#exit

Switch(config)#

PC 0

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

El contenido generado por IA puede ser incorrecto.

PC1

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

El contenido generado por IA puede ser incorrecto.

PC2

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

PC3

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

El contenido generado por IA puede ser incorrecto.

**AS B**

**Router Frontera B**

*Router>enable*

*Router#configure terminal*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#interface Serial2/0*

*Router(config-if)#ip address 200.0.9.33 255.255.255.0*

*Router(config-if)#ip address 200.0.9.33 255.255.255.224*

*Router(config-if)#no shutdown*

*Router(config-if)#exit*

*Router(config)#router rip*

*Router(config-router)#version 1*

*Router(config-router)#network 200.0.9.0*

*Router(config-router)#end*

*Router#*

*%SYS-5-CONFIG\_I: Configured from console by console*

*Router#configure terminal*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#hostname RouterFrontB*

**Router Interno B**

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#hostname RouterIntB*

*RouterIntB(config)#interface s2/0*

*RouterIntB(config-if)# ip address 200.0.9.34 255.255.255.224*

*RouterIntB(config-if)# no shutdown*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to down*

*RouterIntB(config-if)#interface s3/0*

*RouterIntB(config-if)# ip address 200.0.9.1 255.255.255.224*

*RouterIntB(config-if)# no shutdown*

*RouterIntB(config-if)#*

*%LINK-5-CHANGED: Interface Serial3/0, changed state to up*

*router rip*

*RouterIntB(config-router)#*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up*

*version 1*

*RouterIntB(config-router)# network 200.0.9.0*

*RouterIntB(config-router)#end*

**Router Main B**

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#hostname RouterMainB*

*RouterMainB(config)#int se6/0*

*RouterMainB(config-if)# ip address 200.0.9.2 255.255.255.224*

*RouterMainB(config-if)# no shutdown*

*RouterMainB(config-if)#*

*%LINK-5-CHANGED: Interface Serial6/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial6/0, changed state to up*

*RouterMainB(config-if)#interface s2/0*

*RouterMainB(config-if)# ip address 200.0.8.129 255.255.255.224*

*RouterMainB(config-if)# no shutdown*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to down*

*RouterMainB(config-if)#int se3/0*

*RouterMainB(config-if)# ip address 200.0.8.161 255.255.255.224*

*RouterMainB(config-if)# no shutdown*

*%LINK-5-CHANGED: Interface Serial3/0, changed state to down*

*RouterMainB(config-if)#int fa0/0*

*RouterMainB(config-if)# ip address 200.0.8.1 255.255.255.224*

*RouterMainB(config-if)# no shutdown*

*RouterMainB(config-if)#*

*%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up*

*router rip*

*RouterMainB(config-router)#version 1*

*RouterMainB(config-router)# network 200.0.8.0*

*RouterMainB(config-router)# network 200.0.9.0*

*RouterMainB(config-router)#end*

**Router1B**

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#hostname Router1B*

*Router1B(config)#int se3/0*

*Router1B(config-if)#ip address 200.0.8.130 255.255.255.224*

*Router1B(config-if)# no shutdown*

*%LINK-5-CHANGED: Interface Serial3/0, changed state to up*

*Router1B(config-if)#interface s2/0*

*Router1B(config-if)#*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up*

*ip address 200.0.8.225 255.255.255.224*

*Router1B(config-if)# no shutdown*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to down*

*Router1B(config-if)#interface fa0/0*

*Router1B(config-if)# ip address 200.0.8.97 255.255.255.224*

*Router1B(config-if)# no shutdown*

*Router1B(config-if)#*

*%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up*

*router rip*

*Router1B(config-router)#version 1*

*Router1B(config-router)# network 200.0.8.0*

*Router1B(config-router)#end*

**Router2B**

*Router>*

*Router>ena*

*Router#conf t*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router(config)#hostname Router2B*

*Router2B(config)#int se2/0*

*Router2B(config-if)# ip address 200.0.8.226 255.255.255.224*

*Router2B(config-if)# no shutdown*

*Router2B(config-if)#*

*%LINK-5-CHANGED: Interface Serial2/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up*

*int se3/0*

*Router2B(config-if)# ip address 200.0.8.193 255.255.255.224*

*Router2B(config-if)# no shutdown*

*%LINK-5-CHANGED: Interface Serial3/0, changed state to down*

*Router2B(config-if)#interface fa0/0*

*Router2B(config-if)# ip address 200.0.8.65 255.255.255.224*

*Router2B(config-if)# no shutdown*

*%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up*

*%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up*

*Router2B(config-if)#router rip*

*Router2B(config-router)#version 1*

*Router2B(config-router)#network 200.0.8.0*

*Router2B(config-router)#end*

**Router3B**

*Router3B>enable*

*Router3B#configure terminal*

*Enter configuration commands, one per line. End with CNTL/Z.*

*Router3B(config)#interface Serial2/0*

*Router3B(config-if)#ip address 200.0.8.162 255.255.255.224*

*Router3B(config-if)#*

*Router3B(config-if)#exit*

*Router3B(config)#interface Serial3/0*

*Router3B(config-if)#ip address 200.0.8.194 255.255.255.224*

*Router3B(config-if)#*

*Router3B(config-if)#exit*

*Router3B(config)#interface FastEthernet0/0*

*Router3B(config-if)#no router rip*

*Router3B(config)#router rip*

*Router3B(config-router)#version 1*

*Router3B(config-router)#network 200.0.8.0*

*Router3B(config-router)#end*

**AS B**

**Router Frontera C**

**Router Interno C**

**Router Main C**

**Router 1C**

**Router 2C**

**Router 3C**