BITACORA

PUNTO 1

enrutar OSPF

ROUTER 1

Router1(config)#router ospf 7

Router1(config-router)#network 172.20.7.56 0.0.0.3 area 0

Router1(config-router)#network 192.168.10.0 0.0.0.255 area 0

Router1(config-router)#network 192.168.20.0 0.0.0.255 area 0

ROUTER 2

Router2(config)#router ospf 7

Router2(config-router)#network 172.20.7.60 0.0.0.3 area 0

Router2(config-router)#network 192.168.10.0 0.0.0.255 area 0

Router2(config-router)#network 192.168.20.0 0.0.0.255 area 0

ROUTER 3

router ospf 7

 network 172.20.7.56 0.0.0.3 area 0

 network 172.20.7.60 0.0.0.3 area 0

 network 172.20.7.0 0.0.0.31 area 0

SWML01

router ospf 7

 network 172.20.7.0 0.0.0.31 area 0

 network 172.20.7.48 0.0.0.7 area 0

 network 172.20.7.32 0.0.0.15 area 0

router ospf 7

 network 172.20.7.48 0.0.0.7 area 0

 network 192.168.30.0 0.0.0.255 area 0

 network 192.168.40.0 0.0.0.255 area 0

router ospf 7

 network 172.20.7.32 0.0.0.15 area 0

 network 192.168.30.0 0.0.0.255 area 0

 network 192.168.40.0 0.0.0.255 area 0

PUNTO 6

Etherchannel

Sw2

Switch2(config)#int range fa0/21-23

Switch2(config-if-range)#channel-group 1 mode active

Switch2(config)#int port-channel 1

Switch2(config-if)#sw mode trunk

Sw3

Switch3(config)#int range fa0/21-23

Switch3(config-if-range)#channel-group 1 mode active

Switch3(config)#int port-channel 1

Switch3(config-if)#sw mode trunk

PUNTO 3

CONFIG enrutamiento VLANS 30 - 40 sw multicapa

SWML02

Ip routing

interface Vlan30

 ip address 192.168.30.2 255.255.255.0

interface Vlan40

 ip address 192.168.40.2 255.255.255.0

SWML03

Ip routing

interface Vlan30

 ip address 192.168.30.3 255.255.255.0

interface Vlan40

 ip address 192.168.40.3 255.255.255.0

PUNTO 7

CONFIG VLANS 30 - 40

<mark>Sw2</mark>

Switch2(config)#vlan 30

Switch2(config-vlan)#vlan 40

Switch2(config)#int range g0/1-2

Switch2(config-if-range)#sw mo trunk

Switch2(config)#int range fa0/1-5

Switch2(config-if-range)#sw mode access

Switch2(config-if-range)#sw access vlan 30

Switch2(config-if-range)#int range fa0/6-10

Switch2(config-if-range)#sw mo access

Switch2(config-if-range)#sw access vlan 40

<mark>Sw3</mark>

Switch3(config)#vlan 30

Switch3(config-vlan)#vlan 40

Switch3(config)#int range fa0/1-5

Switch3(config-if-range)#sw mode access

Switch3(config-if-range)#sw access vlan 30

Switch3(config-if-range)#int range fa0/6-10

Switch3(config-if-range)#sw mo access

Switch3(config-if-range)#sw access vlan 40

Switch3(config)#int range g0/1-2

Switch3(config-if-range)#sw mode trunk

SWML02(config)#vlan 30

SWML02(config-vlan)#vlan 40

SWML02(config)#int range g1/0/23-24

SWML02(config-if-range)#sw mo tr

SWML02(config-if-range)#sw mo trunk

SWML03(config)#vlan 30

SWML03(config-vlan)#vlan 40

SWML03(config)#int range g1/0/23-24

SWML03(config-if-range)#sw mode tr

ROUTER 1

Router(config)#int g0/0/0.10

standby 10 ip 192.168.10.1

 standby 10 priority 150

 standby 10 preempt

Router1(config)#int g0/0/0.20

standby 20 ip 192.168.20.1

 standby 20 priority 150

 standby 20 preempt

ROUTER 2

Router2(config)#int g0/0/0.10

standby 10 ip 192.168.10.1

 standby 10 preempt

Router2(config-subif)#int g0/0/0.20

standby 20 ip 192.168.20.1

 standby 20 preempt

PUNTO 5

GW REDUNDANTE VLAN 30 - 40

SWML02

SWML02(config)#int vlan 30

SWML02(config-if)#standby 30 ip 192.168.30.1

SWML02(config-if)#standby 30 priority 150

SWML02(config-if)#standby 30 preempt

SWML02(config-if)#int vlan 40

SWML02(config-if)#standby 40 ip 192.168.40.1

SWML02(config-if)#standby 40 priority 150

SWML03(config)#int vlan 30

SWML03(config-if)#standby 30 ip 192.168.30.1

SWML03(config-if)#standby 30 preempt

SWML03(config-if)#int vlan 40

SWML03(config-if)#standby 40 ip 192.168.40.1

SWML03(config-if)#standby 40 preempt

PUNTO 8

Configuracion de VLANS 10 - 20

SW1

Switch(config)#vlan 10

Switch(config-vlan)#vlan 20

Switch(config)#int range fa0/1-5

Switch(config-if-range)#sw mod access

Switch(config-if-range)#sw access vlan 10

Switch(config-if-range)#int range fa0/6-10

Switch(config-if-range)#sw mod access

Switch(config-if-range)#sw access vlan 20

Switch(config)#int g0/1

Switch(config-if)#switchport mode trunk

Switch(config)#int fa0/24

Switch(config-if)#sw mode trunk

PUNTO 9

DHCP

ROUTER 3 (dhcp)

ip dhcp excluded-address 192.168.10.1

ip dhcp excluded-address 192.168.10.2

ip dhcp excluded-address 192.168.10.3

ip dhcp excluded-address 192.168.20.1

ip dhcp excluded-address 192.168.20.2

ip dhcp excluded-address 192.168.20.3

!

ip dhcp pool vlan10

 network 192.168.10.0 255.255.255.0

 default-router 192.168.10.1

ip dhcp pool vlan20

 network 192.168.20.0 255.255.255.0

 default-router 192.168.20.1

ip dhcp excluded-address 192.168.10.1

ip dhcp excluded-address 192.168.10.2

ip dhcp excluded-address 192.168.10.3

ip dhcp excluded-address 192.168.20.1

ip dhcp excluded-address 192.168.20.2

ip dhcp excluded-address 192.168.20.3

ip dhcp excluded-address 192.168.30.1

ip dhcp excluded-address 192.168.30.2

ip dhcp excluded-address 192.168.30.3

ip dhcp excluded-address 192.168.40.1

ip dhcp excluded-address 192.168.40.2

ip dhcp excluded-address 192.168.40.3

!

ip dhcp pool vlan10

 network 192.168.10.0 255.255.255.0

 default-router 192.168.10.1

ip dhcp pool vlan20

 network 192.168.20.0 255.255.255.0

 default-router 192.168.20.1

ip dhcp pool vlan30

 network 192.168.30.0 255.255.255.0

 default-router 192.168.30.1

ip dhcp pool vlan40

 network 192.168.40.0 255.255.255.0

 default-router 192.168.40.1

SWML02

SWML02(config)#int vlan 30

SWML02(config-if)#ip helper-address 172.20.7.1

SWML02(config-if)#int vlan 40

SWML02(config-if)#ip helper-address 172.20.7.1

SWML03(config)#int vlan 30

SWML03(config-if)#ip helper-address 172.20.7.1

SWML03(config-if)#int vlan 40

SWML03(config-if)#ip helper-address 172.20.7.1

ROUTER 1

Router1(config)#int g0/0/0.10

Router1(config-subif)#ip helper-address 172.20.7.58

Router1(config-subif)#int g0/0/0.20

Router1(config-subif)#ip helper-address 172.20.7.58

ROUTER 2

Router2(config)#INT G0/0/0.10

Router2(config-subif)#IP HELP

Router2(config-subif)#IP HELPer-address 172.20.7.62

Router2(config-subif)#INT G0/0/0.20

Router2(config-subif)#IP HELPer-address 172.20.7.62