LAB3
S1.
interface range g0/1 - 2
switchport mode trunk
switchport trunk native vlan 99
S2
interface g0/1 switchport mode trunk
switchport trunk native vlan 99
S3
interface g0/2 switchport mode trunk
switchport trunk native vlan 99
Lab4
S1
vlan 10
vlan 30
interface f0/11

switchport mode access

switchport access vlan 10

interface f0/6

switchport mode access switchport access vlan 30 interface g0/1 switchport mode trunk R1 Interface g0/0 no shutdown interface g0/0.10 encapsulation dot1Q 10 ip address 172.17.10.1 255.255.255.0 no shutdown int g0/0.30 encapsulation dot1Q 30 ip address 172.17.30.1 255.255.255.0 LAB5 **S1** enable config terminal hostname S1 interface range f0/21-22

switchport mode trunk

shutdown
channel-group 1 mode desirable
no shutdown
interface port-channel 1
switchport mode trunk
interface range g0/1-2
switchport mode trunk
shutdown
channel-group 2 mode active
no shutdown
interface port-channel 2
switchport mode trunk
spanning-tree vlan 1 root primary
end
S2
enable
config terminal
hostname S2
interface range g0/1-2
switchport mode trunk
shutdown

channel-group 2 mode active
no shutdown
interface port-channel 2
switchport mode trunk
interface range f0/23-24
switchport mode trunk
shutdown
channel-group 3 mode passive
no shutdown
interface port-channel 3
switchport mode trunk
end
S3
enable
config terminal
hostname S3
interface range f0/21-22
switchport mode trunk
shutdown
channel-group 1 mode desirable
no shutdown

interface port-channel 1

switchport mode trunk

interface range f0/23-24

switchport mode trunk

shutdown

channel-group 3 mode active

no shutdown

interface port-channel 3

switchport mode trunk

end

LAB6

Not finish

Router Edge_Router

enable

config terminal

ip route 0.0.0.0 0.0.0.0 10.10.10.1

ip route 0.0.0.0 0.0.0.0 10.10.10.5 5

ipv6 route ::/0 2001:db8:a:1::1

ipv6 route ::/0 2001:db8:a:2::1 5

ip route 198.0.0.10 255.255.255.255 serial0/0/0

ip route 198.0.0.10 255.255.255.255 serial0/0/1 5

ipv6 route 2001:db8:f:f::10/128 2001:db8:a:1::1

ipv6 route 2001:db8:f:f::10/128 2001:db8:a:2::1 5

Router ISP1

enable

config terminal

ip route 192.168.10.16 255.255.255.240 10.10.10.2

ip route 192.168.11.32 255.255.255.224 10.10.10.2

ip route 192.168.10.16 255.255.255.240 g0/0 5

ip route 192.168.11.32 255.255.255.224 g0/0 5

ipv6 route 2001:db8:1:10::/64 2001:db8:f:f::2 5

LAB7

R1

interface s0/0/0

ip ospf hello-interval 15

ip ospf dead-interval 60

bandwidth 64

R2

interface s0/0/0

ip ospf hello-interval 15

ip ospf dead-interval 60

LAB8

P2P-1

enable

configure terminal

interface Serial0/1/1

ip ospf cost 50

interface Serial0/2/0

ip ospf hello-interval 20

ip ospf dead-interval 80

router ospf 10

auto-cost reference-bandwidth 1000

network 10.0.0.0 0.0.0.3 area 0

network 10.0.0.8 0.0.0.3 area 0

network 10.0.0.12 0.0.0.3 area 0

End

P2P-2

```
enable
configure terminal
router ospf 10
log-adjacency-changes
passive-interface GigabitEthernet0/0/0
passive-interface GigabitEthernet0/0/1
auto-cost reference-bandwidth 1000
network 10.0.0.0 0.0.0.3 area 0
network 10.0.0.4 0.0.0.3 area 0
network 192.168.1.0 0.0.0.255 area 0
network 192.168.2.0 0.0.0.255 area 0
end
P2P-3
enable
configure terminal
router ospf 10
log-adjacency-changes
passive-interface GigabitEthernet0/0/0
auto-cost reference-bandwidth 1000
```

network 10.0.0.4 0.0.0.3 area 0

```
network 10.0.0.8 0.0.0.3 area 0
```

network 192.168.3.0 0.0.0.15 area 0

end

BC-1

enable

configure terminal

interface GigabitEthernet0/0/0

ip ospf priority 255

ip ospf 10 area 0

interface Serial0/1/0

ip ospf hello-interval 20

ip ospf dead-interval 80

ip ospf 10 area 0

router ospf 10

router-id 6.6.6.6

passive-interface Serial0/1/1

auto-cost reference-bandwidth 1000

default-information originate

ip route 0.0.0.0 0.0.0.0 Serial0/1/1

end

BC-2

```
enable
```

configure terminal

interface GigabitEthernet0/0/0

ip ospf 10 area 0

interface GigabitEthernet0/0/1

ip ospf 10 area 0

router ospf 10

router-id 5.5.5.5

passive-interface GigabitEthernet0/0/0

auto-cost reference-bandwidth 1000

end

BC-3

enable

configure terminal

interface GigabitEthernet0/0/0

ip ospf 10 area 0

interface GigabitEthernet0/0/1

ip ospf 10 area 0

router ospf 10

router-id 4.4.4.4

passive-interface GigabitEthernet0/0/0

end

Router R1

enable

configure terminal

ip access-list standard BRANCH-OFFICE-POLICY

permit host 192.168.30.3

permit 192.168.40.0 0.0.0.255

interface g0/0/0

ip access-group BRANCH-OFFICE-POLICY out

ip access-list standard BRANCH-OFFICE-POLICY

30 permit 209.165.200.224 0.0.0.31

40 deny any

end

Router R3

enable

configure terminal

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

interface g0/0/0

ip access-group 1 out

end

LAB₁₀

Router R1

enable

configure terminal

access-list 100 permit tcp 172.22.34.64 0.0.0.31 host 172.22.34.62 eq ftp

access-list 100 permit icmp 172.22.34.64 0.0.0.31 host 172.22.34.62

interface gigabitEthernet 0/0

ip access-group 100 in

ip access-list extended HTTP_ONLY

permit tcp 172.22.34.96 0.0.0.15

permit tcp 172.22.34.96 0.0.0.15 host 172.22.34.62 eq www

permit icmp 172.22.34.96 0.0.0.15 host 172.22.34.62

interface gigabitEthernet 0/1

ip access-group HTTP_ONLY in

LAB11

Router RT1

enable

configure terminal

ip access-list extended ACL

deny tcp host 172.31.1.101 host 64.101.255.254 eq www deny tcp host 172.31.1.101 host 64.101.255.254 eq 443 deny tcp host 172.31.1.101 host 64.103.255.254 eq www deny tcp host 172.31.1.101 host 64.103.255.254 eq 443 deny tcp host 172.31.1.102 host 64.101.255.254 eq ftp deny tcp host 172.31.1.102 host 64.101.255.254 eq ftp deny icmp host 172.31.1.103 host 64.101.255.254 deny icmp host 172.31.1.103 host 64.101.255.254 permit ip any any interface GigabitEthernet0/0 ip access-group ACL in end

Optional1

R1

enable

config t

interface g0/0

ip helper-address 10.1.1.2

R2

enable

config t

ip dhcp excluded-address 192.168.10.1 192.168.10.10

ip dhcp excluded-address 192.168.30.1 192.168.30.10

ip dhcp pool R1-LAN

network 192.168.10.0 255.255.255.0

default-router 192.168.10.1

dns-server 192.168.20.254

ip dhcp pool R3-LAN

network 192.168.30.0 255.255.255.0

default-router 192.168.30.1

dns-server 192.168.20.254

interface g0/1

ip address dhcp

no shutdown

R3
enable
config t
interface g0/0
ip helper-address 10.2.2.2
Opinional 2
Opinional3
Router R1
enable
config t
interface g0/1
standby version 2
standby 1 ip 192.168.1.254
standby 1 priority 150
standby 1 preempt
end
Router R3

```
enable
config t
interface g0/0
standby version 2
standby 1 ip 192.168.1.254
end
Sw1
enable
config t
ip default-gateway 192.168.1.254
end
SW3
enable
config t
ip default-gateway 192.168.1.254
End
```

enable

config t

interface g0/0

No standby version 2

No standby 1 ip 192.168.1.254

end