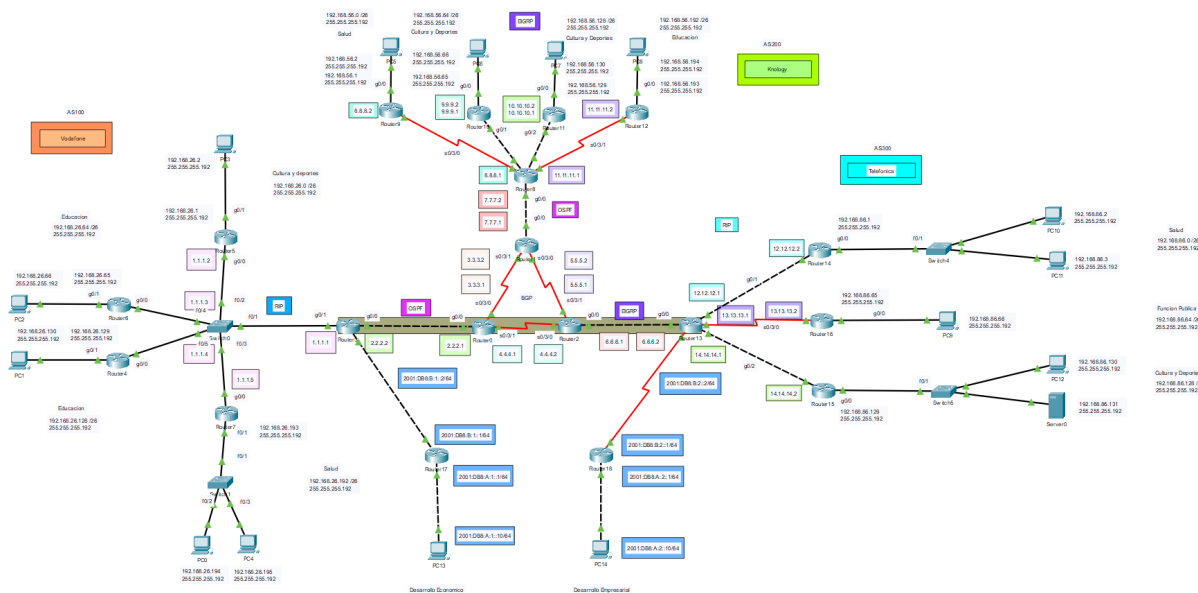




Redes 2 Practica 2

TOPOLOGIA



R0

//// LEVANTAR PUERTOS ////

```
int s0/3/0
no shutdown
ip address 3.3.3.1 255.255.255.0
```

```
int s0/3/1
no shutdown
ip address 4.4.4.1 255.255.255.0
```

```
int g0/0
no shutdown
ip address 2.2.2.1 255.255.255.0
```

```

//// ENRUTAMIENTO BGP ////
router bgp 100
network 3.3.3.0 mask 255.255.255.0
network 4.4.4.0 mask 255.255.255.0

neighbor 3.3.3.2 remote-as 200
neighbor 4.4.4.2 remote-as 300

network 1.1.1.1 mask 255.255.255.0
network 192.168.26.0 mask 255.255.255.192
network 192.168.26.64 mask 255.255.255.192
network 192.168.26.128 mask 255.255.255.192
network 192.168.26.192 mask 255.255.255.192

//// ENRUTAMIENTO OSPF ////
router ospf 200
network 2.2.2.0 0.0.0.255 area 0

//// REDISTRIBUCION ////
router ospf 200
redistribute bgp 100 metric 1 subnets

router bgp 100
redistribute ospf 200

```

R1

```

//// LEVANTAR PUERTOS ////

int s0/3/0
no shutdown
ip address 5.5.5.2 255.255.255.0

int s0/3/1
no shutdown
ip address 3.3.3.2 255.255.255.0

int g0/0
no shutdown
ip address 7.7.7.1 255.255.255.0

//// ENRUTAMIENTO BGP ////
router bgp 200
network 3.3.3.0 mask 255.255.255.0
network 5.5.5.0 mask 255.255.255.0

neighbor 3.3.3.1 remote-as 100
neighbor 5.5.5.1 remote-as 300

network 8.8.8.0 mask 255.255.255.0

```

```
network 9.9.9.0 mask 255.255.255.0
network 10.10.10.0 mask 255.255.255.0
network 11.11.11.0 mask 255.255.255.0
network 192.168.56.0 mask 255.255.255.192
network 192.168.56.64 mask 255.255.255.192
network 192.168.56.128 mask 255.255.255.192
network 192.168.56.192 mask 255.255.255.192
```

```
//// ENRUTAMIENTO OSPF ////
```

```
router ospf 300
network 7.7.7.0 0.0.0.255 area 0
```

```
//// REDISTRIBUCION ////
```

```
router ospf 300
redistribute bgp 200 metric 1 subnets
```

```
router bgp 200
redistribute ospf 300
```

R2

```
//// LEVANTAR PUERTOS ////
```

```
int s0/3/0
no shutdown
ip address 4.4.4.2 255.255.255.0
```

```
int s0/3/1
no shutdown
ip address 5.5.5.1 255.255.255.0
```

```
int g0/0
no shutdown
ip address 6.6.6.1 255.255.255.0
```

```
//// ENRUTAMIENTO BGP ////
```

```
router bgp 300
network 4.4.4.0 mask 255.255.255.0
network 5.5.5.0 mask 255.255.255.0
```

```
neighbor 4.4.4.1 remote-as 100
neighbor 5.5.5.2 remote-as 200
```

```
network 12.12.12.0 mask 255.255.255.0
network 13.13.13.0 mask 255.255.255.0
network 14.14.14.0 mask 255.255.255.0
network 192.168.86.0 mask 255.255.255.192
network 192.168.86.64 mask 255.255.255.192
network 192.168.86.128 mask 255.255.255.192
```

```

//// ENRUTAMIENTO EIGRP ////
router eigrp 100
network 6.6.6.0 0.0.0.255
no auto-summary

//// REDISTRIBUCION ////
router bgp 300
redistribute eigrp 100

router eigrp 100
redistribute bgp 300 metric 1 1 1 1 1

```

R3

```

//// LEVANTAR PUERTOS ////
int g0/0
no shutdown
ip address 2.2.2.2 255.255.255.0

int g0/1
no shutdown
ip address 1.1.1.1 255.255.255.0

//// ENRUTAMIENTO RIP ////
router rip
default-information originate
version 2
network 1.1.1.0
no auto-summary

//// ENRUTAMIENTO OSPF ////
router ospf 100
network 2.2.2.0 0.0.0.255 area 0

//// REDISTRIBUCION ////
router rip
redistribute ospf 100 metric 15

router ospf 100
redistribute rip subnets

/// IP6 ///
ipv6 unicast-routing
ipv6 router rip redv6

int g0/2
ipv6 address 2001:DB8:B:1::2/64
ipv6 rip redv6 enable
no shutdown

```

```
int Tunnel0
ipv6 address 3000::1/112
ipv6 rip redv6 enable
tunnel source g0/0
tunnel destination 6.6.6.2
tunnel mode ipv6ip
```

R4

```
//// LEVANTAR PUERTOS ////

int g0/0
no shutdown
ip address 1.1.1.4 255.255.255.0

int g0/1
no shutdown
ip address 192.168.26.129 255.255.255.192

//// ENRUTAMIENTO RIP ////
router rip
default-information originate
version 2
network 1.1.1.0
network 192.168.26.128
no auto-summary

//// ACCESS LIST ////
access-list 101 permit ip 192.168.26.128 0.0.0.63 192.168.26.192 0.0.0.63
access-list 101 permit ip 192.168.26.128 0.0.0.63 192.168.56.0 0.0.0.63
access-list 101 permit ip 192.168.26.128 0.0.0.63 192.168.86.0 0.0.0.63
access-list 101 permit ip 192.168.26.128 0.0.0.63 192.168.86.64 0.0.0.63
access-list 101 deny ip any any

access-list 102 permit icmp 192.168.86.64 0.0.0.63 any echo
access-list 102 permit icmp any any echo-reply
access-list 102 deny ip any any

int g0/1
ip access-group 101 in
ip access-group 102 out
```

R5

```

////// LEVANTAR PUERTOS ////

int g0/0
no shutdown
ip address 1.1.1.2 255.255.255.0

int g0/1
no shutdown
ip address 192.168.26.1 255.255.255.192

////// ENRUTAMIENTO RIP ////
router rip
default-information originate
version 2
network 1.1.1.0
network 192.168.26.0
no auto-summary

////// ACCESS LIST ////
access-list 1 permit 192.168.86.64 0.0.0.63
access-list 1 deny any
access-list 101 permit icmp any any echo-reply
access-list 101 deny ip any any

int g0/1
ip access-group 1 out
ip access-group 101 in

```

R6

```

////// LEVANTAR PUERTOS ////

int g0/0
no shutdown
ip address 1.1.1.3 255.255.255.0

int g0/1
no shutdown
ip address 192.168.26.65 255.255.255.192

////// ENRUTAMIENTO RIP ////
router rip
default-information originate
version 2
network 1.1.1.0
network 192.168.26.64
no auto-summary

////// ACCESS LIST ////

```

```

access-list 101 permit ip 192.168.26.64 0.0.0.63 192.168.26.192 0.0.0.63
access-list 101 permit ip 192.168.26.64 0.0.0.63 192.168.56.0 0.0.0.63
access-list 101 permit ip 192.168.26.64 0.0.0.63 192.168.86.0 0.0.0.63
access-list 101 permit ip 192.168.26.64 0.0.0.63 192.168.86.64 0.0.0.63
access-list 101 deny ip any any

access-list 102 permit icmp 192.168.86.64 0.0.0.63 any echo
access-list 102 permit icmp any any echo-reply
access-list 102 deny ip any any

int g0/1
ip access-group 101 in
ip access-group 102 out

```

R7

```

//// LEVANTAR PUERTOS ////

int g0/0
no shutdown
ip address 1.1.1.5 255.255.255.0

int g0/1
no shutdown
ip address 192.168.26.193 255.255.255.192

//// ENRUTAMIENTO RIP ////
router rip
default-information originate
version 2
network 1.1.1.0
network 192.168.26.192
no auto-summary

//// ACCESS LIST ////
access-list 101 permit ip 192.168.26.192 0.0.0.63 192.168.86.64 0.0.0.63
access-list 101 permit ip 192.168.26.192 0.0.0.63 192.168.26.64 0.0.0.63
access-list 101 permit ip 192.168.26.192 0.0.0.63 192.168.26.128 0.0.0.63
access-list 101 permit ip 192.168.26.192 0.0.0.63 192.168.26.192 0.0.0.63
access-list 101 deny ip any any

access-list 102 permit icmp 192.168.86.64 0.0.0.63 any echo
access-list 102 permit icmp 192.168.26.64 0.0.0.63 any echo
access-list 102 permit icmp 192.168.26.128 0.0.0.63 any echo
access-list 102 permit icmp 192.168.26.192 0.0.0.63 any echo
access-list 102 permit icmp any any echo-reply
access-list 102 deny ip any any

int g0/1

```

```
ip access-group 101 in
ip access-group 102 out
```

R8

```
//// LEVANTAR PUERTOS ////

int g0/0
no shutdown
ip address 7.7.7.2 255.255.255.0

int s0/3/0
no shutdown
ip address 8.8.8.1 255.255.255.0

int g0/1
no shutdown
ip address 9.9.9.1 255.255.255.0

int g0/2
no shutdown
ip address 10.10.10.1 255.255.255.0

int s0/3/1
no shutdown
ip address 11.11.11.1 255.255.255.0

//// ENRUTAMIENTO EIGRP ////
router eigrp 100
network 8.8.8.0 0.0.0.255
network 9.9.9.0 0.0.0.255
network 10.10.10.0 0.0.0.255
network 11.11.11.0 0.0.0.255
no auto-summary

//// ENRUTAMIENTO OSPF ////
router ospf 400
network 7.7.7.0 0.0.0.255 area 0

//// REDISTRIBUCION ////
router eigrp 100
redistribute ospf 400 metric 255 1 1 1 1

router ospf 400
redistribute eigrp 100 metric 1 subnets
```

R9


```
//// LEVANTAR PUERTOS ////
```

```
int s0/3/0  
no shutdown  
ip address 8.8.8.2 255.255.255.0
```

```
int g0/0  
no shutdown  
ip address 192.168.56.1 255.255.255.192
```

```
//// ENRUTAMIENTO EIGRP ////
```

```
router eigrp 100  
network 8.8.8.0 0.0.0.255  
network 192.168.56.0 0.0.0.63  
no auto-summary
```

```
//// ACCESS LIST ////
```

```
access-list 101 permit ip 192.168.56.0 0.0.0.63 192.168.86.64 0.0.0.63  
access-list 101 permit ip 192.168.56.0 0.0.0.63 192.168.26.64 0.0.0.63  
access-list 101 permit ip 192.168.56.0 0.0.0.63 192.168.26.128 0.0.0.63  
access-list 101 permit ip 192.168.56.0 0.0.0.63 192.168.26.192 0.0.0.63  
access-list 101 deny ip any any
```

```
access-list 102 permit icmp 192.168.86.64 0.0.0.63 any echo  
access-list 102 permit icmp 192.168.26.64 0.0.0.63 any echo  
access-list 102 permit icmp 192.168.26.128 0.0.0.63 any echo  
access-list 102 permit icmp 192.168.26.192 0.0.0.63 any echo  
access-list 102 permit icmp any any echo-reply  
access-list 102 deny ip any any
```

```
int g0/0  
ip access-group 101 in  
ip access-group 102 out
```

R10

```
//// LEVANTAR PUERTOS ////
```

```
int g0/1  
no shutdown  
ip address 9.9.9.2 255.255.255.0
```

```
int g0/0  
no shutdown  
ip address 192.168.56.65 255.255.255.192
```

```
//// ENRUTAMIENTO EIGRP ////
```

```
router eigrp 100  
network 9.9.9.0 0.0.0.255
```

```

network 192.168.56.64 0.0.0.63
no auto-summary

///// ACCESS LIST /////
access-list 1 permit 192.168.86.64 0.0.0.63
access-list 1 deny any
access-list 101 permit icmp any any echo-reply
access-list 101 deny ip any any

int g0/0
ip access-group 1 out
ip access-group 101 in

```

R11

```

-----R11-----
///// LEVANTAR PUERTOS /////

int g0/2
no shutdown
ip address 10.10.10.2 255.255.255.0

int g0/0
no shutdown
ip address 192.168.56.129 255.255.255.192

///// ENRUTAMIENTO EIGRP /////
router eigrp 100
network 10.10.10.0 0.0.0.255
network 192.168.56.128 0.0.0.63
no auto-summary

///// ACCESS LIST /////
access-list 1 permit 192.168.86.64 0.0.0.63
access-list 1 deny any
access-list 101 permit icmp any any echo-reply
access-list 101 deny ip any any

int g0/0
ip access-group 1 out
ip access-group 101 in

```

R12

```

///// LEVANTAR PUERTOS /////

```

```

int s0/3/1
no shutdown
ip address 11.11.11.2 255.255.255.0

int g0/0
no shutdown
ip address 192.168.56.193 255.255.255.192

//// ENRUTAMIENTO EIGRP ////
router eigrp 100
network 11.11.11.0 0.0.0.255
network 192.168.56.192 0.0.0.63
no auto-summary

//// ACCESS LIST ////
access-list 101 permit ip 192.168.56.192 0.0.0.63 192.168.26.192 0.0.0.63
access-list 101 permit ip 192.168.56.192 0.0.0.63 192.168.56.0 0.0.0.63
access-list 101 permit ip 192.168.56.192 0.0.0.63 192.168.86.0 0.0.0.63
access-list 101 permit ip 192.168.56.192 0.0.0.63 192.168.86.64 0.0.0.63
access-list 101 deny ip any any

access-list 102 permit icmp 192.168.86.64 0.0.0.63 any echo
access-list 102 permit icmp any any echo-reply
access-list 102 deny ip any any

int g0/0
ip access-group 101 in
ip access-group 102 out

```

R13

```

//// LEVANTAR PUERTOS ////
int g0/0
no shutdown
ip address 6.6.6.2 255.255.255.0

int g0/1
no shutdown
ip address 12.12.12.1 255.255.255.0

int g0/2
no shutdown
ip address 14.14.14.1 255.255.255.0

int s0/3/0
no shutdown
ip address 13.13.13.1 255.255.255.0

//// ENRUTAMIENTO RIP ////
router rip

```

```

default-information originate
version 2
network 12.12.12.0
network 13.13.13.0
network 14.14.14.0
no auto-summary

//// ENRUTAMIENTO EIGRP ////
router eigrp 100
network 6.6.6.0 0.0.0.255
no auto-summary

//// REDISTRIBUCION ////
router eigrp 100
redistribute rip metric 255 1 1 1 1

router rip
redistribute eigrp 100 metric 15

/// IP6 ///
ipv6 unicast-routing
ipv6 router rip redv6

int s0/3/1
ipv6 address 2001:DB8:B:2::2/64
ipv6 rip redv6 enable
no shutdown

int Tunnel0
ipv6 address 3000::2/112
ipv6 rip redv6 enable
tunnel source g0/0
tunnel destination 2.2.2.2
tunnel mode ipv6ip

```

R14

```

//// LEVANTAR PUERTOS ////

int g0/0
no shutdown
ip address 192.168.86.1 255.255.255.192

int g0/1
no shutdown
ip address 12.12.12.2 255.255.255.0

//// ENRUTAMIENTO RIP ////
router rip
default-information originate

```

```

version 2
network 12.12.12.0
network 192.168.86.0
no auto-summary

///// ACCESS LIST /////
access-list 101 permit ip 192.168.86.0 0.0.0.63 192.168.86.64 0.0.0.63
access-list 101 permit ip 192.168.86.0 0.0.0.63 192.168.26.64 0.0.0.63
access-list 101 permit ip 192.168.86.0 0.0.0.63 192.168.26.128 0.0.0.63
access-list 101 permit ip 192.168.86.0 0.0.0.63 192.168.26.192 0.0.0.63
access-list 101 deny ip any any

access-list 102 permit icmp 192.168.86.64 0.0.0.63 any echo
access-list 102 permit icmp 192.168.26.64 0.0.0.63 any echo
access-list 102 permit icmp 192.168.26.128 0.0.0.63 any echo
access-list 102 permit icmp 192.168.26.192 0.0.0.63 any echo
access-list 102 permit icmp any any echo-reply
access-list 102 deny ip any any

int g0/0
ip access-group 101 in
ip access-group 102 out

```

R15

```

///// LEVANTAR PUERTOS /////

int g0/0
no shutdown
ip address 192.168.86.129 255.255.255.192

int g0/2
no shutdown
ip address 14.14.14.2 255.255.255.0

///// ENRUTAMIENTO RIP /////
router rip
default-information originate
version 2
network 14.14.14.0
network 192.168.86.128
no auto-summary

///// ACCESS LIST /////
access-list 1 permit 192.168.86.64 0.0.0.63
access-list 1 deny any
access-list 101 permit icmp any any echo-reply
access-list 101 deny ip any any

int g0/0

```

```
ip access-group 1 out
ip access-group 101 in
```

R16

```
//// LEVANTAR PUERTOS ////

int g0/0
no shutdown
ip address 192.168.86.65 255.255.255.192

int s0/3/0
no shutdown
ip address 13.13.13.2 255.255.255.0

//// ENRUTAMIENTO RIP ////
router rip
default-information originate
version 2
network 13.13.13.0
network 192.168.86.64
no auto-summary

//// ACCESS LIST ////
access-list 101 permit icmp any any echo-reply
int g0/0
ip access-group 101 out
```

R17

```
/// IP6 ///
ipv6 unicast-routing
ipv6 router rip redv6

int g0/0
ipv6 address 2001:DB8:B:1::1/64
ipv6 rip redv6 enable
no shutdown

int g0/1
ipv6 address 2001:DB8:A:1::1/64
ipv6 rip redv6 enable
no shutdown

//// ACCESS LIST ////
access-list 101 permit icmp any any echo-reply
```

```
int g0/1
ip access-group 101 out
```

R18

```
/// IP6 ///
```

```
ipv6 unicast-routing
ipv6 router rip redv6
```



```
int s0/3/0
ipv6 address 2001:DB8:B:2::1/64
ipv6 rip redv6 enable
no shutdown
```



```
int g0/0
ipv6 address 2001:DB8:A:2::1/64
ipv6 rip redv6 enable
no shutdown
```