

PRÁCTICA 1: MANUAL DE CONFIGURACIONES

28/08/2021

GRUPO # 3

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TOPOLOGIA 1


VTP

SWITCH 1

```
config t
hostname S1
vtp domain Grupo3
vtp password Grupo
vtp mode server
vlan 13
name Estudiantes
exit
vlan 23
name Auxiliares
exit
vlan 33
name Profesores
exit
vlan 43
name Administracion
exit
vlan 999
name Blackhole
exit
vlan 99
name Native
exit
interface range fa0/1-3
switchport mode trunk
switchport trunk allowed vlan 13,23,33,43
switchport trunk native vlan 99
interface range fa0/4-24
switchport access vlan 999
```

SWITCH 0

```
config t
hostname S2
vtp domain Grupo3
vtp password Grupo3
vtp mode client
```




```
interface range fa0/1-3
switchport mode trunk
switchport trunk allowed vlan 13,23,33,43
switchport trunk native vlan 99
interface fa0/5
switchport access vlan 13
interface range fa0/4-24
switchport access vlan 999
```

SWITCH 2

```
config t
hostname S2
vtp domain Grupo3
vtp password Grupo3
vtp mode client
interface range fa0/1-2
switchport mode trunk
switchport trunk allowed vlan 13,23,33,43
switchport trunk native vlan 99
interface fa 0/3
switchport mode access
switchport access vlan 33
interface fa 0/4
switchport access vlan 23
interface range fa0/5-24
switchport access vlan 999
```

SWITCH 3

```
config t
hostname S3
vtp domain Grupo3
vtp password Grupo3
vtp mode transparent
vlan 103
name Registro
exit
interface fa0/1
switchport mode trunk
switchport trunk native vlan 99
interface range fa 0/2-4
switchport access vlan 103
interface range fa0/5-24
```



```
switchport access vlan 999
```

Inter VLAN- Routing - Router on a Stick

ROUTER 0

```
interface fa0/0.13
encapsulation dot1q 13
ip address 192.168.1.1 255.255.255.224
interface fa0/0.23
encapsulation dot1q 23
ip address 192.168.2.1 255.255.255.224
interface fa0/0.33
encapsulation dot1q 33
ip address 192.168.3.1 255.255.255.224
interface fa0/0.43
encapsulation dot1q 43
ip address 192.168.4.1 255.255.255.224
exit
interface fa0/0
no shutdown
```

Enrutamiento Estático


ROUTER 0

Configuración de Interfaces

```
enable
config t
int fa1/0
ip address 192.168.11.1 255.255.255.224
no sh
exit
int se2/0
ip address 10.0.0.1 255.0.0.0
exit
ip route 0.0.0.0 0.0.0.0 10.0.0.2
```

ROUTER 1

```
enable
config t
int fa0/0
ip address 192.168.44.1 255.255.255.224
no sh
```



```
exit
int se2/0
exit
ip route 0.0.0.0 0.0.0.0 10.0.0.1
```

Enrutamiento Dinamico

ROUTER 1

Configuración de Interfaces

```
enable
config t
int se2/0
ip address 10.0.0.2 255.0.0.0
exit
```

```
int giga6/0
ip address 192.168.10.1 255.255.255.0
exit
```

```
router ospf 1
network 192.16.10.0 0.0.0.255 area 1
network 192.168.44.2 0.0.0.31 area 1
redistribute static subnets
exit
```

TOPOLOGIA 2

Enrutamiento Dinamico


ROUTER 1

Configuración de Interfaces

```
interface serial 0/1/0
ip address 192.16.1.1 255.255.255.0
no shut
```

```
interface serial 0/1/1
ip address 192.16.2.1 255.255.255.0
no shut
```

OSPF



```
router ospf 1
network 192.16.1.0 0.0.0.255 area 1
network 192.16.2.0 0.0.0.255 area 1
exit
```

RIP

```
router rip
version 2
network 192.16.2.0
network 192.16.1.0
no auto-summary
exit
```

REDISTRIBUCIÓN

```
router rip
redistribute ospf 1 metric 2
router ospf 1
redistribute rip subnets
```

ROUTER 0

Configuración de Interfaces

```
interface serial 0/1/0
ip address 192.16.1.2 255.255.255.0
no shut
```

```
interface serial 0/1/1
ip address 192.16.3.1 255.255.255.0
no shut
```

```
interface serial 0/0/0
ip address 192.16.4.2 255.255.255.0
no shut
```

OSPF

```
router ospf 1
network 192.16.1.0 0.0.0.255 area 1
network 192.16.3.0 0.0.0.255 area 1
network 192.16.4.0 0.0.0.255 area 1
```

EIGRP

```
router eigrp 1
network 192.16.3.0 0.0.0.255
network 192.16.1.0 0.0.0.255
network 192.16.4.0 0.0.0.255
no auto-summary
```

REDISTRIBUCIÓN

```
router ospf 1
redistribute eigrp 1 subnets
```

```
router eigrp 1
redistribute ospf 1 metric 10000 100 255 1 1500
```

ROUTER 3

Configuración de Interfaces

```
interface serial 0/1/1
ip address 192.16.2.2 255.255.255.0
no shut
```

```
interface serial 0/1/0
ip address 192.16.3.2 255.255.255.0
no shut
```


RIP

```
router rip
version 2
network 192.16.2.0
network 192.16.3.0
no auto-summary
```

EIGRP

```
router eigrp 1
network 192.16.3.0 0.0.0.255
network 192.16.2.0 0.0.0.255
```

REDISTRIBUCION



```
router rip
redistribute eigrp 1 metric 2
```

```
router eigrp 1
redistribute rip metric 10000 10 255 1 1500
```

CONFIGURACIÓN DEL SWITCH

```
vlan 43
name Administracion
exit
interface fastEthernet 0/24
switchport access vlan 43
exit
interface fastEthernet 0/1
switchport mode trunk
exit
vlan 99
name Native
exit
interface fastEthernet 0/1
switchport trunk native vlan 99
```