REDES 2 Practica 1

Estudiantes:

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Escenario	Protocolo - Spanning-Tree	Red Primaria	Red Basicos	Red diversificado
1	PVST	26.89s	27s	27s
2	Rapid PVST	2.62s	2.54s	2.30s

Se escogio el rapid pvst, ya que la convergencia es un 90% mas rápida

Configuraciones:

```
SW1_30 (vtp server):

enable
configure terminal
hostname SW1_30
vtp domain grupo30
vtp password redes2grupo30
vtp version 2
vtp mode server
vlan 13
name PRIMARIA
vlan 23
name BASICOS
vlan 33
name DIVERSIFICADO
vlan 999
name Parking_lot
no ip domain-lookup

spanning-tree mode rapid-pvst

enable secret usac
line console 0
password usac
login
line vty 0 15
password usac
login
exit
service password-encryption
```

```
banner motd $ SOLO PERSONAL AUTORIZADO! $
end
copy running-config startup-config


SW2-10_30 (vtp client):

enable
configure terminal
hostname SW12_30
vtp domain grupo30
vtp password redes2grupo30
vtp version 2
vtp mode client
no ip domain-lookup


enable secret usac
line console 0
password usac
login
line vty 0 15
password usac
login
exit
service password-encryption
banner motd $ SOLO PERSONAL AUTORIZADO! $
end
copy running-config startup-config

Troncales primer y segundo nivel:

configure terminal
interface range Fa0/1-5
switchport nonegotiate
switchport mode trunk
switchport trunk allowed vlan 13,23,33
switchport trunk native vlan 1
no shutdown
exit
interface range Fa0/6-24, g0/1-2
switchport mode access
switchport access vlan 999
shutdown
end
copy running-config startup-config


Troncales tercer nivel (SW5, SW7, SW10, SW12):

configure terminal
interface range Fa0/1-2
switchport nonegotiate
```

```
switchport mode trunk
switchport trunk allowed vlan 13,23,33
switchport trunk native vlan 1
no shutdown
exit
interface range Fa0/5-24, g0/1-2
switchport mode access
switchport access vlan 999
shutdown
end
copy running-config startup-config


Troncales tercer nivel (SW6, SW11):

configure terminal
interface range Fa0/1-2
switchport nonegotiate
switchport mode trunk
switchport trunk allowed vlan 13,23,33
switchport trunk native vlan 1
no shutdown
exit
interface range Fa0/4-24, g0/1-2
switchport mode access
switchport access vlan 999
shutdown
end
copy running-config startup-config


Modo acceso tercer nivel:

SWITCH 5 Y 12:
configure terminal
interface range Fa0/3-4
switchport mode access
switchport access vlan 13
no shutdown
end
copy running-config startup-config

SWITCH 6 y 11:
configure terminal
interface Fa0/3
switchport port-security
switchport port-security mac-address <dirección_MAC>
switchport port-security maximum 1
switchport port-security violation shutdown
switchport mode access
switchport access vlan 23
no shutdown
end
copy running-config startup-config
```

```
SWITCH 7 y 10:
configure terminal
interface range Fa0/3-4
switchport mode access
switchport access vlan 33
no shutdown
end
copy running-config startup-config


spanning-tree mode rapid-pvst
```

IP'S:

```
192.168.13.2
192.168.13.4
192.168.23.2
192.168.33.2
192.168.33.3
192.168.33.4
192.168.33.5
192.168.23.3
192.168.13.5
192.168.13.3
```