

Configuración de Router-on-a-Stick con VLANs (Cisco Packet Tracer)

Este documento contiene los comandos CLI necesarios para configurar una red con Router-on-a-Stick, VLANs y enlaces trunk 802.1Q en Cisco Packet Tracer, siguiendo la topología proporcionada.

Paso 1: Crear VLANs en los switches

Switch S1:

enable

configure terminal

vlan 3

name Management

vlan 4

name Operations

vlan 7

name ParkingLot

vlan 8

name Native

Switch S2:

enable

configure terminal

vlan 3

name Management

vlan 4

name Operations

vlan 7

name ParkingLot

vlan 8

name Native

Paso 2: Asignar VLANs a puertos de acceso

Switch S1:

```
interface fastethernet0/6
```

```
switchport mode access
```

```
switchport access vlan 3
```

```
exit
```

Switch S2:

```
interface fastethernet0/18
```

```
switchport mode access
```

```
switchport access vlan 4
```

```
exit
```

Paso 3: Configurar puertos trunk

Switch S1:

```
interface gigabitethernet0/1
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```

```
switchport trunk native vlan 8
```

exit

interface fastethernet0/5

switchport trunk encapsulation dot1q

switchport mode trunk

switchport trunk native vlan 8

exit

Switch S2:

interface fastethernet0/1

switchport trunk encapsulation dot1q

switchport mode trunk

switchport trunk native vlan 8

exit

Paso 4: Subinterfaces en el router

Router R1:

interface gigabitethernet0/0.3

encapsulation dot1q 3

ip address 192.168.3.1 255.255.255.0

exit

interface gigabitethernet0/0.4

encapsulation dot1q 4

ip address 192.168.4.1 255.255.255.0

exit

```
interface gigabitethernet0/0.8  
  
encapsulation dot1q 8 native  
  
exit
```

Paso 5: Configuración de IP en PCs

PC-A:

IP: 192.168.3.3

Mascara: 255.255.255.0

Gateway: 192.168.3.1

PC-B:

IP: 192.168.4.3

Mascara: 255.255.255.0

Gateway: 192.168.4.1