UNIVERSIDAD AUTÓNOMA DE CHIAPAS

FACULTAD DE CONTADURÍA Y ADMINISTRACIÓN, CAMPUS I

LICENCIATURA EN INGENIERÍA EN DESARROLLO Y TECNOLOGÍAS DE SOFTWARE

CONMUTADORES Y REDES INALAMBRICAS

SEMESTRE: 7°   GRUPO: "M"

Dr. GUTIERREZ ALFARO LUIS

ALUMNO: DANIEL ALBERTO PÉREZ ALCÁZAR

ACT. 1.4 REALIZA LA SIGUIENTE PRÁCTICA EN PACKET TRACERT CONFIGURACIÓN DE VLANS
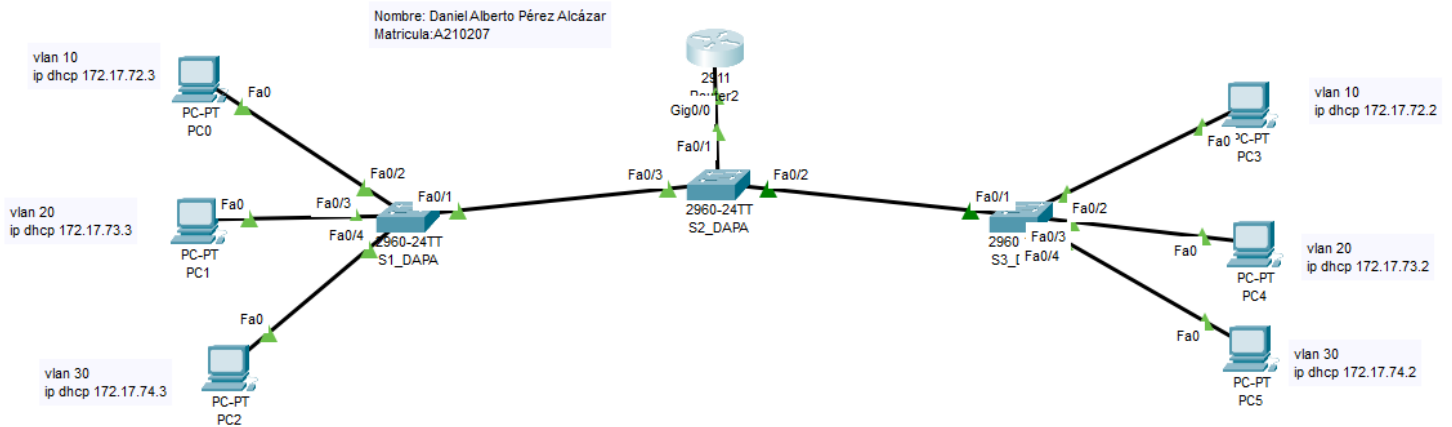
Viernes 23 de agosto de 2024.

Tuxtla Gutiérrez, Chiapas.

Link al archivo en GitHub:

Topología:

Configuración de cada Switch y Router:

SWITCH 1:

Switch>ena

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 10

Switch(config-vlan)#name vlan10

Switch(config-vlan)#exit

Switch(config)#vlan 20

Switch(config-vlan)#name vlan20

Switch(config-vlan)#exit

Switch(config)#vlan 30

Switch(config-vlan)#name vlan30

Switch(config-vlan)#exit

Switch(config)#inter

Switch(config)#interface FastEthermet 0/1

              ^

% Invalid input detected at '^' marker.

Switch(config)#interface FastEthernet 0/1

Switch(config-if)#switchport trunk allowed vlan 10,20,30

Switch(config-if)#exit

Switch(config)#interface fast

Switch(config)#interface fastEthernet 0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 10

Switch(config-if)#exit

Switch(config)#exit

Switch#

%SYS-5-CONFIG_I: Configured from console by console

Switch#wr

Building configuration...

[OK]

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#

Switch(config)#name S1

       ^

% Invalid input detected at '^' marker.

Switch(config)#switch name s1

       ^

% Invalid input detected at '^' marker.

Switch(config)#hostname S1

S1(config)#hostname Switch1

Switch1(config)#ena

% Incomplete command.

Switch1(config)#conf t

      ^

% Invalid input detected at '^' marker.

Switch1(config)#interface fast

Switch1(config)#interface fastEthernet 0/3

Switch1(config-if)#switc

Switch1(config-if)#switchport mode acc

Switch1(config-if)#switchport mode access

Switch1(config-if)#

Switch1(config-if)#

Switch1(config-if)#switchport access vlan 20

Switch1(config-if)#exit

Switch1(config)#interface fastEthernet 0/4

Switch1(config-if)#switchport mode access

Switch1(config-if)#switchport access vlan 30

Switch1(config-if)#exit

Switch1(config)#

Switch1(config)#wr

     ^

% Invalid input detected at '^' marker.

Switch1(config)#exit

Switch1#

%SYS-5-CONFIG_I: Configured from console by console

Switch1#wr

Building configuration...

SWITCH 2:

Switch>ena

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#host name

name(config)#hostname S2_DAPA

S2_DAPA(config)#vlan 10

S2_DAPA(config-vlan)#name vlan10

S2_DAPA(config-vlan)#exit

S2_DAPA(config)#vlan 20

S2_DAPA(config-vlan)#name vlan20

S2_DAPA(config-vlan)#exit

S2_DAPA(config)#vlan 30

S2_DAPA(config-vlan)#name vlan30

S2_DAPA(config-vlan)#exit

S2_DAPA(config)#exit

S2_DAPA#

%SYS-5-CONFIG_I: Configured from console by console

S2_DAPA#conf t

Enter configuration commands, one per line. End with CNTL/Z.

S2_DAPA(config)#interface fast

S2_DAPA(config)#interface fastEthernet 0/1

S2_DAPA(config-if)#switchport mode trunk

S2_DAPA(config-if)#switchport trunk allowed vlan 10,20,30

S2_DAPA(config-if)#exit

S2_DAPA(config)#interface fas

S2_DAPA(config)#interface fastEthernet 0/2

S2_DAPA(config-if)#switchport mode trunk

S2_DAPA(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

S2_DAPA(config-if)#switchport trunk allowed vlan 10,20,30

S2_DAPA(config-if)#exit

S2_DAPA(config)#

S2_DAPA(config)#wr

          ^

% Invalid input detected at '^' marker.

S2_DAPA(config)#exit

S2_DAPA#

%SYS-5-CONFIG_I: Configured from console by console

S2_DAPA#wr

Building configuration...

[OK]

S2_DAPA#ena

S2_DAPA#conf t

Enter configuration commands, one per line. End with CNTL/Z.

S2_DAPA(config)#interface fas

S2_DAPA(config)#interface fastEthernet 0/3

S2_DAPA(config-if)#switchport mode trunk

S2_DAPA(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

S2_DAPA(config-if)#switchport trunk allowed vlan 10,20,30

S2_DAPA(config-if)#exit

S2_DAPA(config)#exit

S2_DAPA#

%SYS-5-CONFIG_I: Configured from console by console

S2_DAPA#wr

SWITCH3:

Switch>ena

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#host name S3_DAPA

                    ^

% Invalid input detected at '^' marker.

```
Switch(config)#hostname S3_DAPA

S3_DAPA(config)#vlan 10

S3_DAPA(config-vlan)#name vlan10

S3_DAPA(config-vlan)#exit

S3_DAPA(config)#vlan 20

S3_DAPA(config-vlan)#name vlan20

S3_DAPA(config-vlan)#exit

S3_DAPA(config)#vlan 30

S3_DAPA(config-vlan)#name vlan30

S3_DAPA(config-vlan)#exit

S3_DAPA(config)#interface fas

S3_DAPA(config)#interface fastEthernet 0/1

S3_DAPA(config-if)#switchport mode trunk

S3_DAPA(config-if)#switchport trunk allowed vlan 10,20,30

S3_DAPA(config-if)#exit

S3_DAPA(config)#interface fas

S3_DAPA(config)#interface fastEthernet 0/2

S3_DAPA(config-if)#switchport mode access

S3_DAPA(config-if)#switchport access vlan 10

S3_DAPA(config-if)#exit

S3_DAPA(config)#interface fastEthernet 0/3

S3_DAPA(config-if)#switchport mode access

S3_DAPA(config-if)#switchport access vlan 20

S3_DAPA(config-if)#exit

S3_DAPA(config)#interface fastEthernet 0/4

S3_DAPA(config-if)#switchport mode access

S3_DAPA(config-if)#switchport access vlan 30

S3_DAPA(config-if)#exit

S3_DAPA(config)#exit
```

S3_DAPA#

%SYS-5-CONFIG_I: Configured from console by console

S3_DAPA#wr

Building configuration...

[OK]

ROUTER1:

Router>ena

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname Router1_DAPA

Router1_DAPA(config)#interface g0/0

Router1_DAPA(config-if)#no sh

Router1_DAPA(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line   protocol   on   Interface   GigabitEthernet0/0, changed state to up

Router1_DAPA(config-if)#exit

Router1_DAPA(config)#inferface g0/0.10

          ^

% Invalid input detected at '^' marker.

Router1_DAPA(config)#interface g0/0.10

Router1_DAPA(config-subif)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0.10, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.10, changed state to up

Router1_DAPA(config-subif)#encapsulation dot1Q 10

Router1_DAPA(config-subif)#ip address 172.17.72.1 255.255.255.0

Router1_DAPA(config-subif)#exit

Router1_DAPA(config)#interface g0/0.20

Router1_DAPA(config-subif)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0.20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.20, changed state to up

Router1_DAPA(config-subif)#encapsulation dot1Q 20

Router1_DAPA(config-subif)#ip address 172.17.73.1 255.255.255.0

Router1_DAPA(config-subif)#exit

Router1_DAPA(config)#interface g0/0.30

Router1_DAPA(config-subif)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0.30, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.30, changed state to up

Router1_DAPA(config-subif)#encapsulation dot1Q 30

Router1_DAPA(config-subif)#ip address 172.17.74.1 255.255.255.0

Router1_DAPA(config-subif)#exit

Router1_DAPA(config)#ip dhcp pool vlan10

Router1_DAPA(dhcp-config)#network 172.17.72.0 255.255.255.0

Router1_DAPA(dhcp-config)#default-router 172.17.72.1

Router1_DAPA(dhcp-config)#exit

Router1_DAPA(config)#ip dhcp pool vlan20

Router1_DAPA(dhcp-config)#network 172.17.73.0 255.255.255.0

Router1_DAPA(dhcp-config)#default-router 172.17.73.1

Router1_DAPA(dhcp-config)#exit

Router1_DAPA(config)#ip dhcp pool vlan30

Router1_DAPA(dhcp-config)#network 172.17.74.0 255.255.255.0

Router1_DAPA(dhcp-config)#default-router 172.17.74.1

Router1_DAPA(dhcp-config)#exit

Router1_DAPA(config)#exit

Router1_DAPA#

%SYS-5-CONFIG_I: Configured from console by console

Router1_DAPA#wr

Building configuration...

[OK]