 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

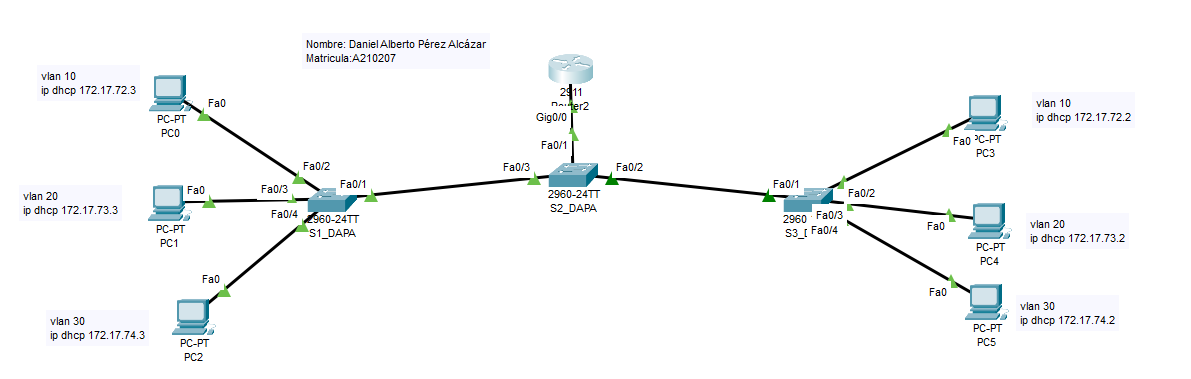
ACT. 1.4 REALIZA LA SIGUIENTE PRÁCTICA EN PACKET TRACERT CONFIGURACIÓN DE VLANS

Viernes 23 de agosto de 2024.

Tuxtla Gutiérrez, Chiapas.

**Link al archivo en GitHub:**

<https://github.com/Daniel-Alcazar/Act.-1.4_configuracion-de-Vlans_DAPA.git>

**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

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% 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

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% Invalid input detected at '^' marker.

Switch1(config)#exit

Switch1#

%SYS-5-CONFIG\_I: Configured from console by console

Switch1#wr

Building configuration...

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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

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SWITCH3:

Switch>ena

Switch#conf t

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

Switch(config)#host name S3\_DAPA

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% 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]

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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]