



UNIVERSIDAD AUTÓNOMA DE CHIAPAS

CAMPUS 1

Conmutadores Y Redes Inalámbricas

LICENCIATURA EN INGENIERÍA EN DESARROLLO Y TECNOLOGÍAS DE SOFTWARE

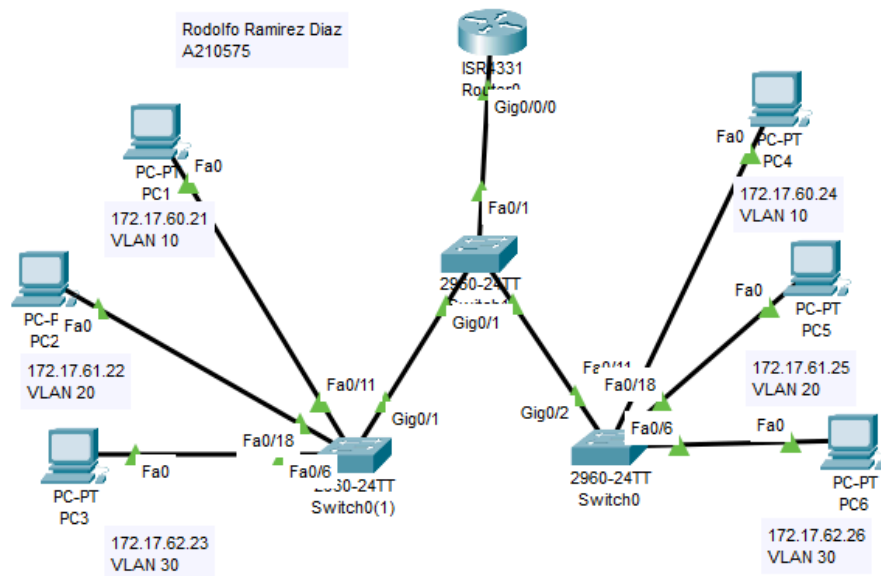
Séptimo SEMESTRE GRUPO “N”

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```
Router#show ip interface brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0/0	unassigned	YES	unset	up	down
GigabitEthernet0/0/0.10	172.17.60.1	YES	manual	up	down
GigabitEthernet0/0/0.20	172.17.61.1	YES	manual	up	down
GigabitEthernet0/0/0.30	172.17.62.1	YES	manual	up	down
GigabitEthernet0/0/1	unassigned	YES	unset	administratively down	down
GigabitEthernet0/0/2	unassigned	YES	unset	administratively down	down
Vlan1	unassigned	YES	unset	administratively down	down

```

Router#sh ip dhcp pool

Pool vlan10 :
  Utilization mark (high/low) : 100 / 0
  Subnet size (first/next) : 0 / 0
  Total addresses : 254
  Leased addresses : 0
  Excluded addresses : 3
  Pending event : none

  1 subnet is currently in the pool
  Current index      IP address range      Leased/Excluded/Total
  172.17.60.1       172.17.60.1 - 172.17.60.254  0 / 3 / 254

Pool vlan20 :
  Utilization mark (high/low) : 100 / 0
  Subnet size (first/next) : 0 / 0
  Total addresses : 254
  Leased addresses : 0
  Excluded addresses : 3
  Pending event : none

  1 subnet is currently in the pool
  Current index      IP address range      Leased/Excluded/Total
  172.17.61.1       172.17.61.1 - 172.17.61.254  0 / 3 / 254

Pool vlan30 :
  Utilization mark (high/low) : 100 / 0
  Subnet size (first/next) : 0 / 0
  Total addresses : 254
  Leased addresses : 0
  Excluded addresses : 3
  Pending event : none

  1 subnet is currently in the pool
  Current index      IP address range      Leased/Excluded/Total
  172.17.62.1       172.17.62.1 - 172.17.62.254  0 / 3 / 254

```

 PC1

Physical	Config	Desktop	Programming	Attributes
IP Configuration				
Interface		FastEthernet0		
IP Configuration				
<input checked="" type="radio"/> DHCP <input type="radio"/> Static				
IPv4 Address		172.17.60.2		
Subnet Mask		255.255.255.0		
Default Gateway		172.17.60.1		
DNS Server		0.0.0.0		

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 172.17.61.2

Subnet Mask 255.255.255.0

Default Gateway 172.17.61.1

DNS Server 0.0.0.0

IPv6 Configuration

PC3

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 172.17.62.2

Subnet Mask 255.255.255.0

Default Gateway 172.17.62.1

DNS Server 0.0.0.0

IPv6 Configuration

PC4

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 172.17.60.3

Subnet Mask 255.255.255.0

Default Gateway 172.17.60.1

DNS Server 0.0.0.0

PC5

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 172.17.61.3

Subnet Mask 255.255.255.0

Default Gateway 172.17.61.1

DNS Server 0.0.0.0

PC6

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 172.17.62.3

Subnet Mask 255.255.255.0

Default Gateway 172.17.62.1

DNS Server 0.0.0.0

```
Router>ena
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface g0/0/0
Router(config-if)#encaps
^
% Invalid input detected at '^' marker.
```

```
Router(config-if)#exit
Router(config)#interface g0/0/0.10
Router(config-subif)#encapsulation dot1q 10
Router(config-subif)#ip address 172.17.60.1 255.255.255.0
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#interface g0/0/0.20
Router(config-subif)#encapsulation dot1q 20
Router(config-subif)#ip address 172.17.61.1 255.255.255.0
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#interface g0/0/0.30
Router(config-subif)#encapsulation dot1q 30
Router(config-subif)#ip address 172.17.62.1 255.255.255.0
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#ip dhcp pool vlan10
Router(dhcp-config)#exit
Router(config)#ip dhcp pool vlan10
Router(dhcp-config)#network 172.17.60.0 255.255.255.0
Router(dhcp-config)#default-router 172.17.60.1
Router(dhcp-config)#exit
Router(config)#ip dhcp pool vlan20
Router(dhcp-config)#network 172.17.61.0 255.255.255.0
Router(dhcp-config)#default-router 172.17.61.1
Router(dhcp-config)#exit
Router(config)#ip dhcp pool vlan30
Router(dhcp-config)#network 172.17.62.0 255.255.255.0
Router(dhcp-config)#default-router 172.17.62.1
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 172.17.78.1 172.17.60.10
Router(config)#ip dhcp excluded-address 172.17.78.1 172.17.61.10
Router(config)#ip dhcp excluded-address 172.17.78.1 172.17.62.10
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Router#wr
Building configuration...
[OK]
```

```

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface g0/0/0.10
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#interface g0/0/0.20
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#interface g0/0/0.30
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#do wr
Building configuration...
[OK]
Router(config)#interface g0/0/0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/0/0.10, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/0/0.20, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/0/0.30, changed state to up

Router(config-if)#exit
Router(config)#do wr
Building configuration...
[OK]
Router(config)#exit

Switch De ARRIBA
Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#exit
Switch(config)#interface g0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan 10,20,30
Switch(config-if)#interface g0/2
Switch(config-if)#exit

```

```
Switch(config)#interface g0/2
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan 10,20,30
Switch(config-if)#exit
Switch(config)#wr
```

^

% Invalid input detected at '^' marker.

```
Switch(config)#do wr
Building configuration...
[OK]
Switch(config)#interface f0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan 10,20,30
Switch(config-if)#exit
Switch(config)#do wr
Building configuration...
[OK]
Switch(config)#
```

```
Switch de abajo a los lados S2/S3
Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#exit
Switch(config)#interface fa0/11
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
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)#interface fa0/18
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#ininterface fa0/11
```

^

% Invalid input detected at '^' marker.

```
Switch(config)#interface fa0/11
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface fa0/18
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#do wr
Building configuration...
```

[OK]

```
Switch(config)#
```

%LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

```
Switch(config)#interface g0/2
Switch(config-if)#switchport mode trunk
```

```
Switch(config-if)#
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

```
Switch(config-if)#switchport trunk allowed vlan 10,20,30
Switch(config-if)#exit
Switch(config)#do wr
Building configuration...
[OK]
Switch(config)#
```

<https://github.com/lradaurl/Act.-1.4-configuracion-de-Vlans/>