

Act. 2.3 Configure DHCP Server for multiple VLANs on the Switch vlan10,20,30



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1. AS A FIRST STEP WE CREATE THE VLANS ON THE SWITCH

```
Switch>ena
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SWTOM
SWTOM(config)#vlan 10
SWTOM(config-vlan)#name vlan10
SWTOM(config-vlan)#exit
SWTOM(config)#vlan 20
SWTOM(config-vlan)#name vlan20
SWTOM(config-vlan)#exit
SWTOM(config)#vlan 30
SWTOM(config-vlan)#name vlan30
SWTOM(config-vlan)#exit
SWTOM(config)#end
SWTOM#
%SYS-5-CONFIG_I: Configured from console by console

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

2. AS A SECOND STEP WE GIVE ACCESS TO THE INTERFACES OF THE SWITCH TO ITS VLAN TO ITS CORRESPONDING VLAN

```
SWTOM#ena
SWTOM#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SWTOM(config)#inter range f0/1-2
SWTOM(config-if-range)#switchport mode access
SWTOM(config-if-range)#switchport access vlan 10
SWTOM(config-if-range)#exit
SWTOM(config)#inter range fa0/3-4
SWTOM(config-if-range)#switchport mode access
SWTOM(config-if-range)#switchport access vlan 20
SWTOM(config-if-range)#exit
SWTOM(config)#inter range fa0/5-6
SWTOM(config-if-range)#switchport mode access
SWTOM(config-if-range)#switchport access vlan 30
SWTOM(config-if-range)#exit
SWTOM(config)#end
SWTOM#
%SYS-5-CONFIG_I: Configured from console by console

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

3. AS STEP NUMBER 3 WE TRUNCATE THE INTERFACE G0/1

```
SWTOM#ena
SWTOM#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SWTOM(config)#inter g0/1
SWTOM(config-if)#switchport mode trunk
SWTOM(config-if)#exit
SWTOM(config)#end
SWTOM#
%SYS-5-CONFIG_I: Configured from console by console
```

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

4. AS THE FOURTH STEP TO INTERFACE G0/0/0 WE CREATE THREE SUB-INTERFACES AND ADD AN IP AS DEFAULT-ROUTER TO EACH SUB-INTERFACE

```
HACHI>ena
HACHI#conf t
HACHI(config)#hostname HACHI
HACHI(config)#int gigabitEthernet 0/0/0
HACHI(config-if)#no ip add
HACHI(config-if)#no sh
Enter configuration commands, one per line. End with CNTL/Z.
HACHI(config-if)#inter g0/0/0.10
HACHI(config-subif)#en
HACHI(config-subif)#encapsulation d
HACHI(config-subif)#encapsulation dot1Q 10
HACHI(config-subif)#ip address 192.18.10.1 255.255.255.0
HACHI(config-subif)#exit
HACHI(config)#inter g0/0/0
HACHI(config-if)#inter g0/0/0.20
HACHI(config-subif)#en
HACHI(config-subif)#encapsulation d
HACHI(config-subif)#encapsulation dot1Q 20
HACHI(config-subif)#ip address 192.18.20.1 255.255.255.0
HACHI(config-subif)#exit
HACHI(config)#inter g0/0/0
HACHI(config-if)#inter g0/0/0.30
HACHI(config-subif)#encapsulation dot1Q 30
HACHI(config-subif)#ip address 192.18.30.1 255.255.255.0
HACHI(config-subif)#exit
HACHI(config)#end
HACHI#
%SYS-5-CONFIG_I: Configured from console by console

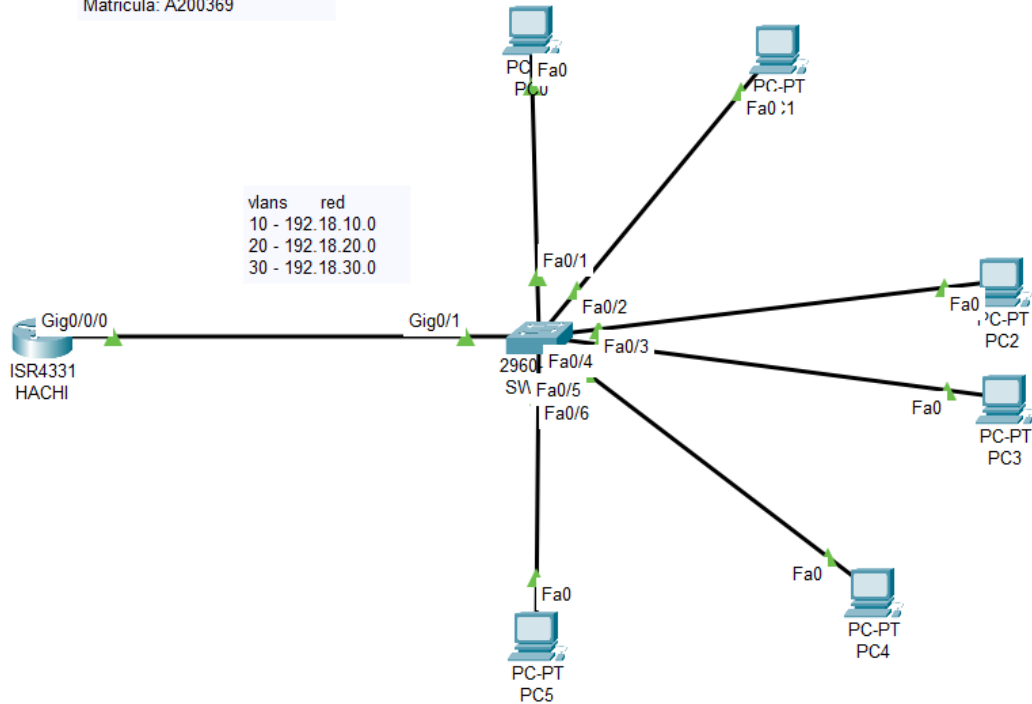
HACHI#wr
Building configuration...
[OK]
HACHI#
```

5. AS FIFTH STEP WE CONFIGURED THE DHCP SERVICE IN THE ROUTER FOR EACH VLAN

```
HACHI#ena
HACHI#conf t
Enter configuration commands, one per line. End with CNTL/Z.
HACHI(config)#ip dhcp pool vlan10
HACHI(dhcp-config)#network 192.18.10.0 255.255.255.0
HACHI(dhcp-config)#default-router 192.18.10.1
HACHI(dhcp-config)#dns-server 192.18.10.1
HACHI(dhcp-config)#exit
HACHI(config)#ip dhcp pool vlan20
HACHI(dhcp-config)#network 192.18.20.0 255.255.255.0
HACHI(dhcp-config)#default-router 192.18.20.1
HACHI(dhcp-config)#dns-server 192.18.20.1
HACHI(dhcp-config)#exit
HACHI(config)#ip dhcp pool vlan30
HACHI(dhcp-config)#network 192.18.30.0 255.255.255.0
HACHI(dhcp-config)#default-router 192.18.30.1
HACHI(dhcp-config)#dns-server 192.18.30.1
HACHI(dhcp-config)#exit
HACHI(config)#end
HACHI#
%SYS-5-CONFIG_I: Configured from console by console
```

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

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Realtime Simu											
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
0	Successful	PC0	PC1	ICMP	Green	0.000	N	0	(edit)	(delete)	
delete	Successful	PC2	PC3	ICMP	Green	0.000	N	1	(edit)	(delete)	
Window	Successful	PC5	PC4	ICMP	Cyan	0.000	N	2	(edit)	(delete)	