



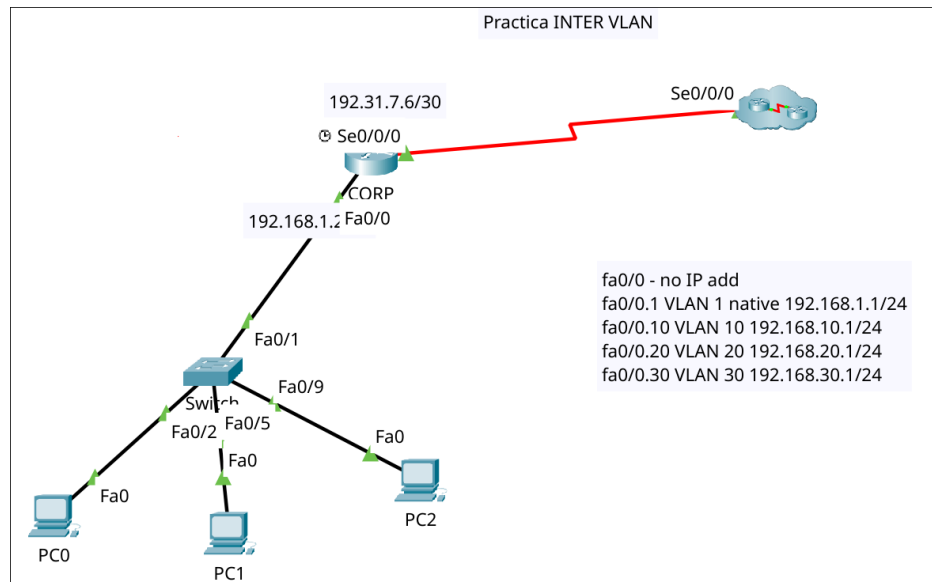
Universidad Veracruzana
FACULTAD DE INGENIERÍA ELÉCTRICA Y ELECTRÓNICA

REDES DE COMPUTADORAS

E10 - Inter VLAN
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1 Topología de Red



2 Información de las VLANs

2.1 Router CORP

```
CORP#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS
inter area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is not set

    192.31.7.0/30 is subnetted, 1 subnets
C       192.31.7.4 is directly connected, Serial0/0/0
C     192.168.1.0/24 is directly connected, FastEthernet0/0.1
C     192.168.10.0/24 is directly connected, FastEthernet0/0.10
C     192.168.20.0/24 is directly connected, FastEthernet0/0.20
C     192.168.30.0/24 is directly connected, FastEthernet0/0.30
D     198.133.219.0/24 [90/2297856] via 192.31.7.5, 00:46:07, Serial0/0/0
```

```
CORP#show ip eigrp topology
IP-EIGRP Topology Table for AS 10/ID(192.168.30.1)

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
        r - Reply status
```

```
P 192.31.7.4/30, 1 successors, FD is 2169856
   via Connected, Serial0/0/0
P 192.168.1.0/24, 1 successors, FD is 28160
   via Connected, FastEthernet0/0.1
P 192.168.10.0/24, 1 successors, FD is 28160
   via Connected, FastEthernet0/0.10
P 192.168.20.0/24, 1 successors, FD is 28160
   via Connected, FastEthernet0/0.20
P 192.168.30.0/24, 1 successors, FD is 28160
   via Connected, FastEthernet0/0.30
P 198.133.219.0/24, 1 successors, FD is 2297856
   via 192.31.7.5 (2297856/128256), Serial0/0/0
```

```
CORP#show ip eigrp neighbors
IP-EIGRP neighbors for process 10
```

H	Address	Interface	Hold (sec)	Uptime	SRTT (ms)	RT0	Q Cnt	Seq Num
0	192.31.7.5	Se0/0/0	14	00:46:57	40	1000	0	18

2.2 Switch

```
L2Switch1#show vlan brief
VLAN Name                Status    Ports
-----
1    default                active    Fa0/13, Fa0/14, Fa0/15,
Fa0/16                                Fa0/17, Fa0/18, Fa0/19,
Fa0/20                                Fa0/21, Fa0/22, Fa0/23,
Fa0/24                                Gig0/1, Gig0/2
10   Sales                  active    Fa0/2, Fa0/3, Fa0/4
20   Engineering            active    Fa0/5, Fa0/6, Fa0/7,
Fa0/8
30   Marketing              active    Fa0/9, Fa0/10, Fa0/11,
Fa0/12
1002 fddi-default         active
1003 token-ring-default   active
1004 fddinet-default      active
1005 trnet-default        active

L2Switch1#show interface trunk
Port      Mode      Encapsulation  Status        Native vlan
Fa0/1     on        802.1q         trunking      1

Port      Vlans allowed on trunk
Fa0/1     1-1005







Port      Vlans allowed and active in management domain
Fa0/1     1,10,20,30

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/1     1,10,20,30

L2Switch1#show vtp status
VTP Version capable      : 1 to 2
VTP version running      : 1
VTP Domain Name          :
VTP Pruning Mode         : Disabled
VTP Traps Generation     : Disabled
Device ID                : 000A.41AE.AD00
Configuration last modified by 0.0.0.0 at 3-1-93 00:32:06
Local updater ID is 192.168.1.2 on interface Vl1 (lowest numbered VLAN
interface found)

Feature VLAN :
-----
VTP Operating Mode       : Server
Maximum VLANs supported locally : 255
Number of existing VLANs : 8
Configuration Revision    : 6
MD5 digest               : 0x95 0xCB 0x6E 0x57 0x15 0xAC 0xC9
0x23
                          0xE5 0x4C 0x62 0xA0 0xFA 0x11 0x82
0x7E
L2Switch1#
```

2.3 Prueba de comunicaci3n

Realtime Simulation									
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
	Successful	PC0	ISP	ICMP		0.000	N	0	(edit)
	Successful	PC1	ISP	ICMP		0.000	N	1	(edit)
	Successful	PC2	ISP	ICMP		0.000	N	2	(edit)