IH CQU CGIATHÀNH PH H CHÍ MINH TR NG IH CKHOAH CT NHIỆN

KHOA CÔNG NGH THÔNG TIN MÔN:TH C T PM NG MÁY TÍNH

BÁO CÁO BÀIT PTU N4+5 VLAN VÀ VTP

L p: 09HCA

H tên: Võ Hu nh an

MSSV: 0941037

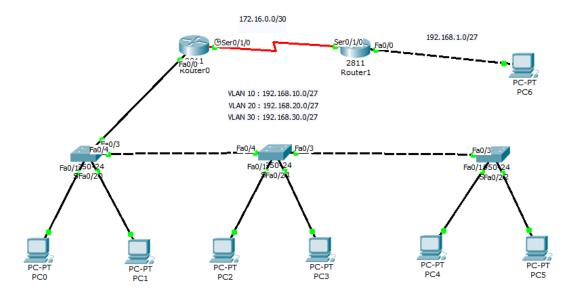
Ph n 1: VLAN

Yêu c u:

- C u hình t i switch và router cho phép các máy tính thu c các VLAN khác nhau có the liên c v i nhau.- C u hình t i switch và router cho phép các máy tính thu c các VLAN khác nhau có the liên c v i nhau.
- Thêm R1, c u hình nh tuy n cho phép t t c các PC có th liên l c c v i nhau.

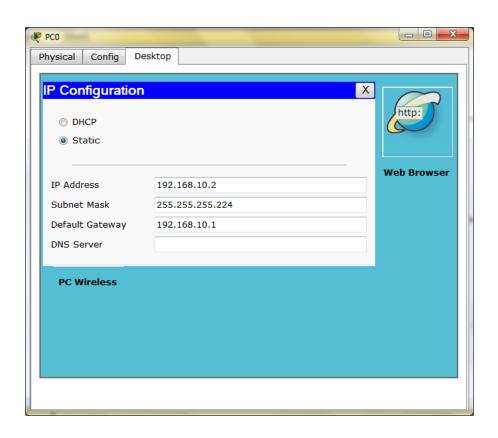
Bài làm:

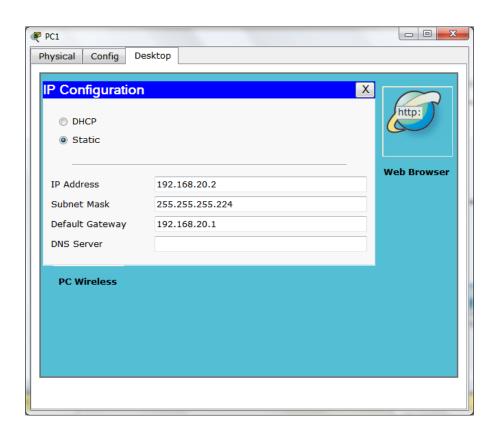
1. Mô hình the chi n.

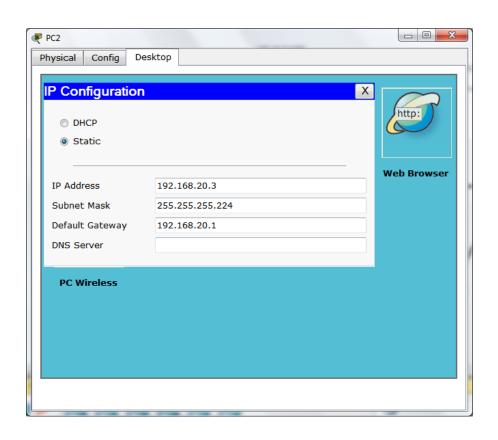


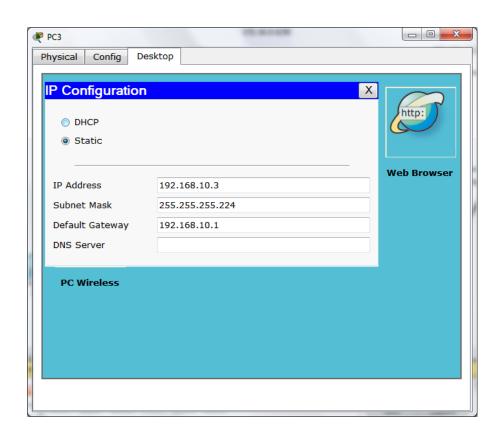
2. C u hình t i switch và router cho phép các máy tính thu c các VLAN khác nhau có th liên l c v i nhau. Thêm R1, c u hình nh tuy n cho phép t t c các PC có th liên l c c v i nhau.

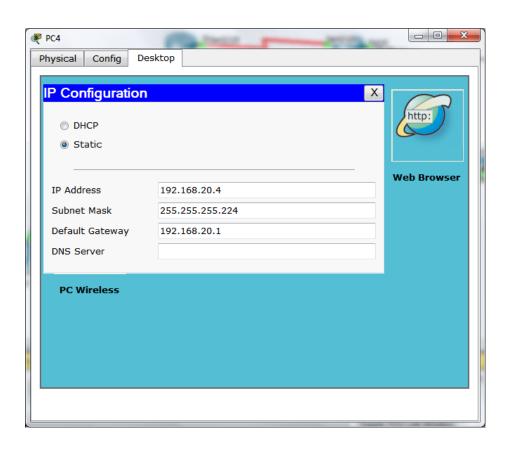
C u hình các PC nh trong hình:

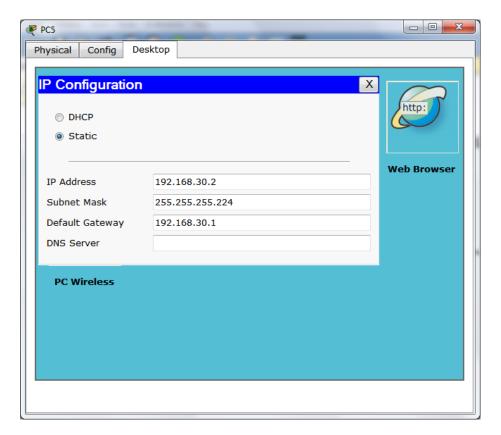


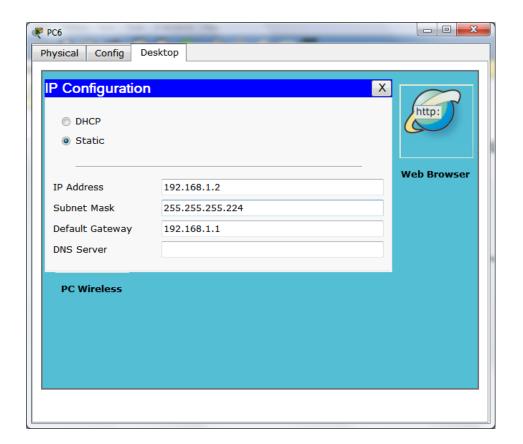




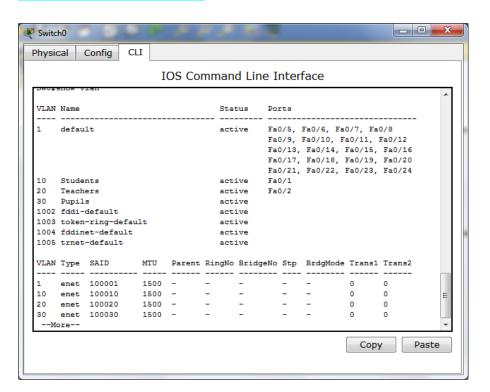


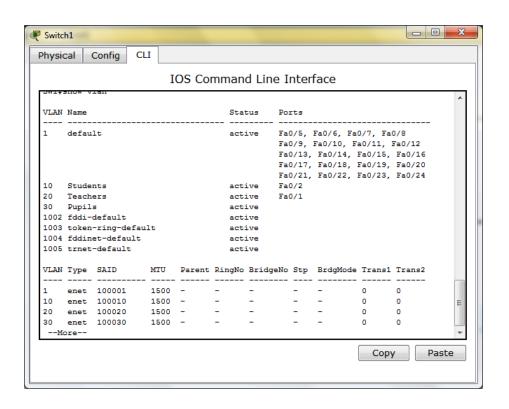


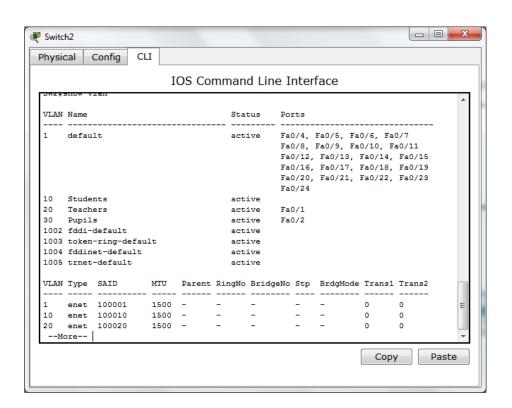




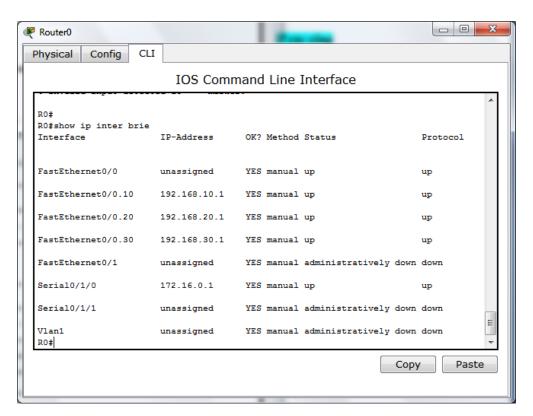
C u hình các Switch:

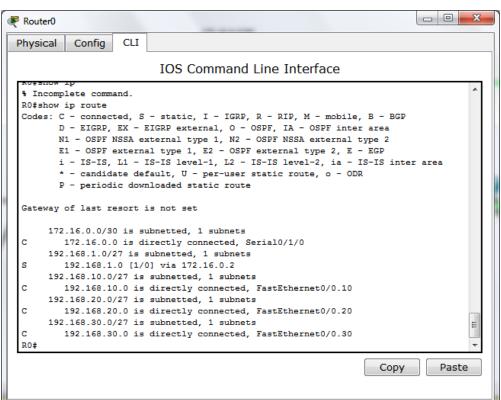


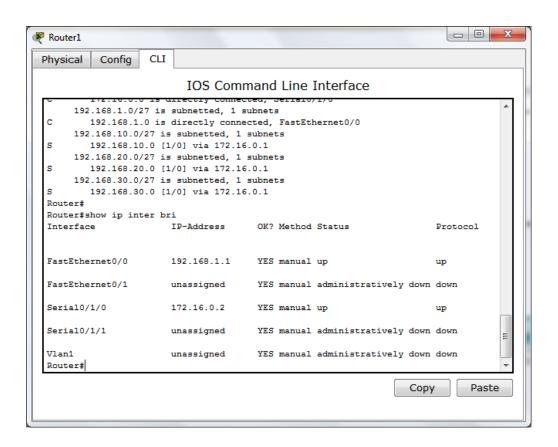


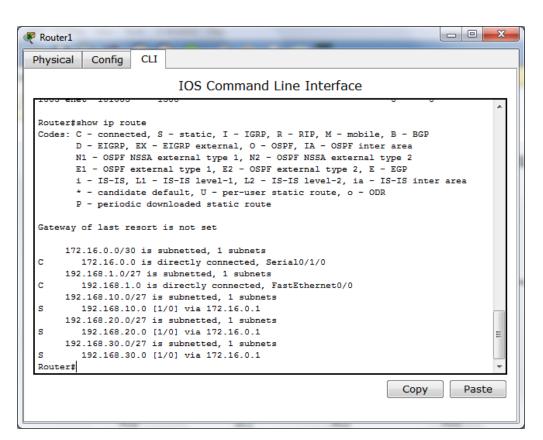


C u hình Satic Router và a ch IP các c ng









Màn hình ping c a các PC

PC0 Ping PC1

```
PC0
                     Desktop
 Physical
            Config
  Command Prompt
                                                                                    X
   Pinging 192.168.20.2 with 32 bytes of data:
   Request timed out.
   Reply from 192.168.20.2: bytes=32 time=35ms TTL=127
   Reply from 192.168.20.2: bytes=32 time=14ms TTL=127
   Reply from 192.168.20.2: bytes=32 time=29ms TTL=127
   Ping statistics for 192.168.20.2:
      Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
   Approximate round trip times in milli-seconds:
      Minimum = 14ms, Maximum = 35ms, Average = 26ms
   PC>ping 192.168.20.2
   Pinging 192.168.20.2 with 32 bytes of data:
   Reply from 192.168.20.2: bytes=32 time=33ms TTL=127
   Reply from 192.168.20.2: bytes=32 time=20ms TTL=127
   Reply from 192.168.20.2: bytes=32 time=18ms TTL=127
   Reply from 192.168.20.2: bytes=32 time=22ms TTL=127
   Ping statistics for 192.168.20.2:
       Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
   Approximate round trip times in milli-seconds:
      Minimum = 18ms, Maximum = 33ms, Average = 23ms
   PC>
```

PC0 Ping PC2

```
_ _ _ X
₽ PC0
 Physical Config Desktop
  Command Prompt
                                                                                                       X
   Pinging 192.168.20.3 with 32 bytes of data:
  Reply from 192.168.20.3: bytes=32 time=43ms TTL=127
Reply from 192.168.20.3: bytes=32 time=38ms TTL=127
   Reply from 192.168.20.3: bytes=32 time=28ms TTL=127
   Ping statistics for 192.168.20.3:
   Packets: Sent = 4, Received = 3, Lost = 1 (25% loss), Approximate round trip times in milli-seconds:
        Minimum = 28ms, Maximum = 43ms, Average = 36ms
   PC>ping 192.168.20.3
   Pinging 192.168.20.3 with 32 bytes of data:
   Reply from 192.168.20.3: bytes=32 time=49ms TTL=127
   Reply from 192.168.20.3: bytes=32 time=29ms TTL=127
   Reply from 192.168.20.3: bytes=32 time=41ms TTL=127
   Reply from 192.168.20.3: bytes=32 time=39ms TTL=127
   Ping statistics for 192.168.20.3:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 29ms, Maximum = 49ms, Average = 39ms
```

PC0 Ping PC3

```
_ 0 X
Physical Config Desktop
 Command Prompt
                                                                                                             Χ
 Pinging 192.168.10.3 with 32 bytes of data:
  Reply from 192.168.10.3: bytes=32 time=39ms TTL=128
 Reply from 192.168.10.3: bytes=32 time=16ms TTL=128
Reply from 192.168.10.3: bytes=32 time=13ms TTL=128
Reply from 192.168.10.3: bytes=32 time=17ms TTL=128
  Ping statistics for 192.168.10.3:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
       Minimum = 13ms, Maximum = 39ms, Average = 21ms
  PC>ping 192.168.10.3
  Pinging 192.168.10.3 with 32 bytes of data:
  Reply from 192.168.10.3: bytes=32 time=46ms TTL=128
 Reply from 192.168.10.3: bytes=32 time=10ms TTL=128
Reply from 192.168.10.3: bytes=32 time=11ms TTL=128
  Reply from 192.168.10.3: bytes=32 time=28ms TTL=128
  Ping statistics for 192.168.10.3:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
       Minimum = 11ms, Maximum = 46ms, Average = 26ms
```

PC0 Ping PC4

```
- - X
PC0
 Physical Config Desktop
   Command Prompt
                                                                                                                                Χ
    Pinging 192.168.20.4 with 32 bytes of data:
    Reply from 192.168.20.4: bytes=32 time=25ms TTL=127
Reply from 192.168.20.4: bytes=32 time=53ms TTL=127
Reply from 192.168.20.4: bytes=32 time=29ms TTL=127
    Ping statistics for 192.168.20.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
          Minimum = 25ms, Maximum = 53ms, Average = 35ms
    PC>ping 192.168.20.4
    Pinging 192.168.20.4 with 32 bytes of data:
    Reply from 192.168.20.4: bytes=32 time=36ms TTL=127 Reply from 192.168.20.4: bytes=32 time=38ms TTL=127 Reply from 192.168.20.4: bytes=32 time=23ms TTL=127
    Reply from 192.168.20.4: bytes=32 time=35ms TTL=127
    Ping statistics for 192.168.20.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
          Minimum = 23ms, Maximum = 38ms, Average = 33ms
```

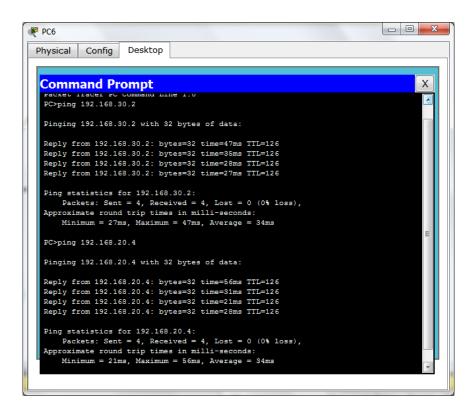
PC0 Ping PC5

```
- - X
Physical Config Desktop
                                                                                                      X
 Command Prompt
 Pinging 192.168.30.2 with 32 bytes of data:
 Request timed out.
  Reply from 192.168.30.2: bytes=32 time=43ms TTL=127
  Reply from 192.168.30.2: bytes=32 time=36ms TTL=127
  Reply from 192.168.30.2: bytes=32 time=46ms TTL=127
 Ping statistics for 192.168.30.2:
 Packets: Sent = 4, Received = 3, Lost = 1 (25% loss), Approximate round trip times in milli-seconds:
      Minimum = 36ms, Maximum = 46ms, Average = 41ms
  PC>ping 192.168.30.2
  Pinging 192.168.30.2 with 32 bytes of data:
 Reply from 192.168.30.2: bytes=32 time=42ms TTL=127
Reply from 192.168.30.2: bytes=32 time=46ms TTL=127
Reply from 192.168.30.2: bytes=32 time=42ms TTL=127
  Reply from 192.168.30.2: bytes=32 time=34ms TTL=127
  Ping statistics for 192.168.30.2:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
       Minimum = 34ms, Maximum = 46ms, Average = 41ms
```

PC0 Ping PC6

```
- - X
PC0
Physical Config Desktop
  Command Prompt
                                                                                                X
  Pinging 192.168.1.2 with 32 bytes of data:
  Reply from 192.168.1.2: bytes=32 time=29ms TTL=126
  Reply from 192.168.1.2: bytes=32 time=31ms TTL=126
  Reply from 192.168.1.2: bytes=32 time=38ms TTL=126
  Ping statistics for 192.168.1.2:
  Packets: Sent = 4, Received = 3, Lost = 1 (25% loss), Approximate round trip times in milli-seconds:
       Minimum = 29ms, Maximum = 38ms, Average = 32ms
  PC>ping 192.168.1.2
  Pinging 192.168.1.2 with 32 bytes of data:
  Reply from 192.168.1.2: bytes=32 time=41ms TTL=126
  Reply from 192.168.1.2: bytes=32 time=32ms TTL=126
Reply from 192.168.1.2: bytes=32 time=29ms TTL=126
  Reply from 192.168.1.2: bytes=32 time=33ms TTL=126
  Ping statistics for 192.168.1.2:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
       Minimum = 29ms, Maximum = 41ms, Average = 33ms
```

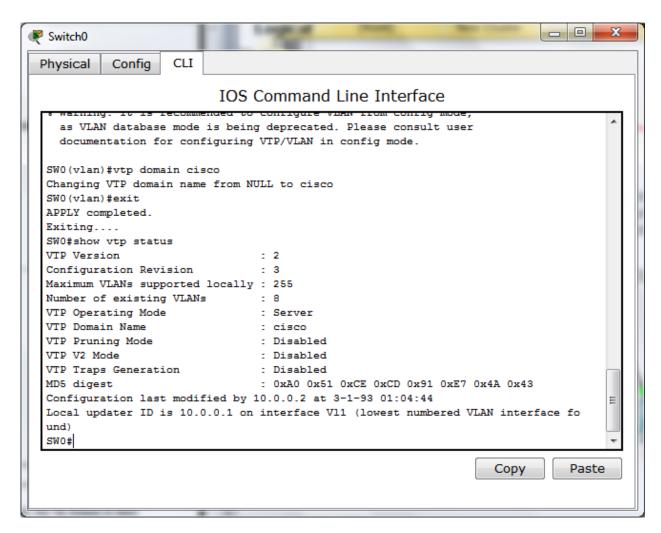
PC6 Ping PC5 và PC4



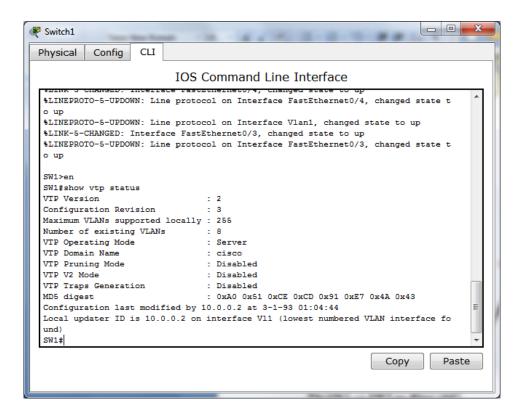
T ng t v i các PC còn l i u ping c cho nhau h t

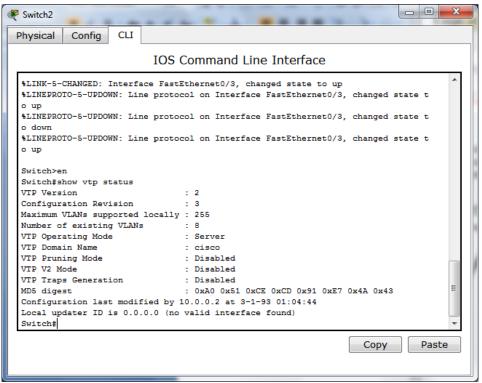
Ph n 2: Trunking Protocol (VTP)

i tên Domain SW0 sang Cisco

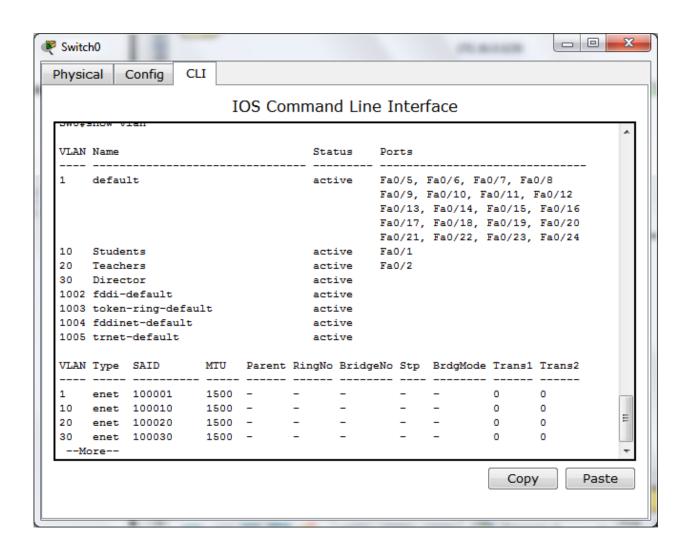


Thì SW1 và SW2 t ng c p nh t thông tin nh hình

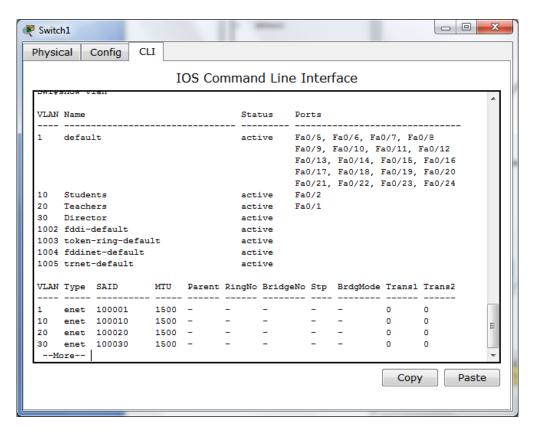


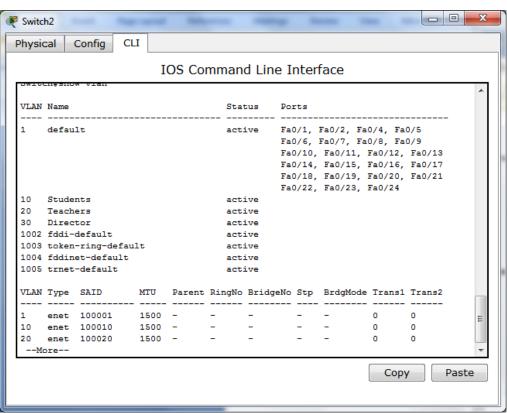


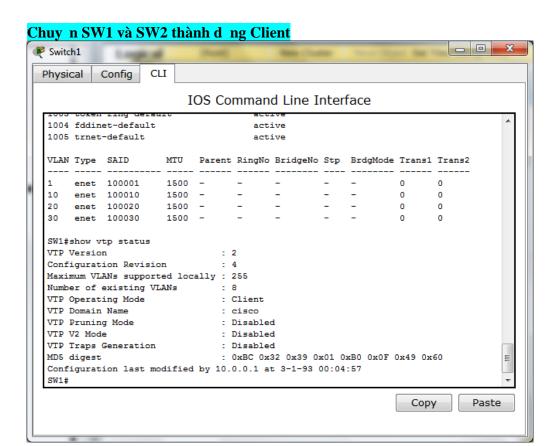
C p nh t VLAN 30 cho SW0

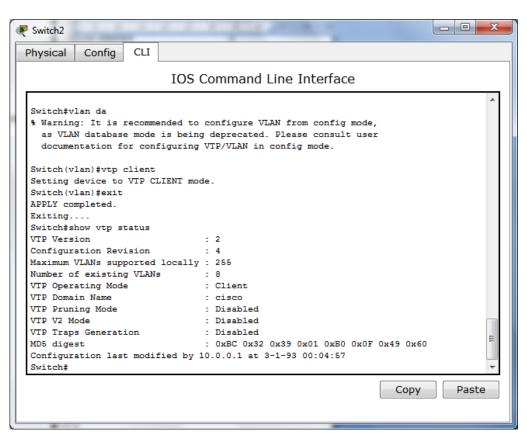


Ta th y SW1 và SW2 c ng t c p nh t thông tin VLAN 30 vào



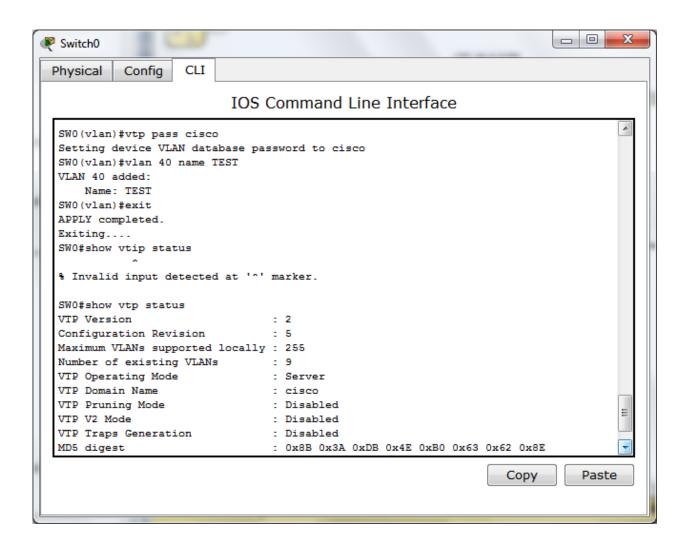




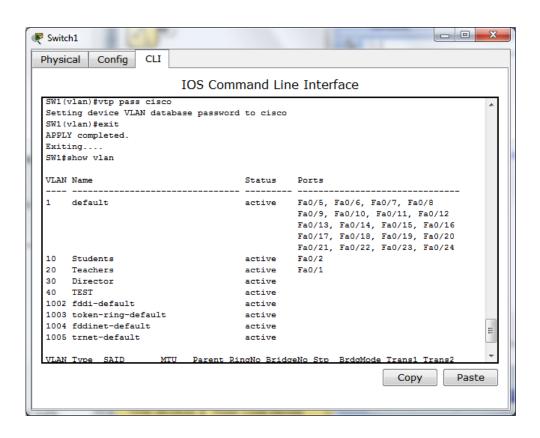


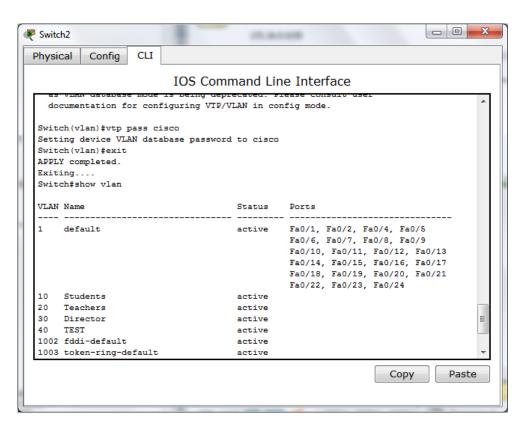
t VPT Password

Ta i password trên SW0 và t o VLAN 40.



i password SW1 và SW2 thì c p nh t thông tin c a VLAN4

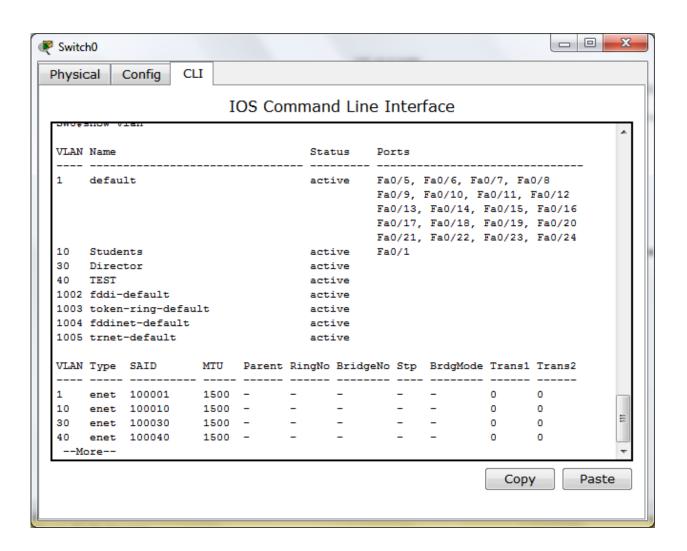


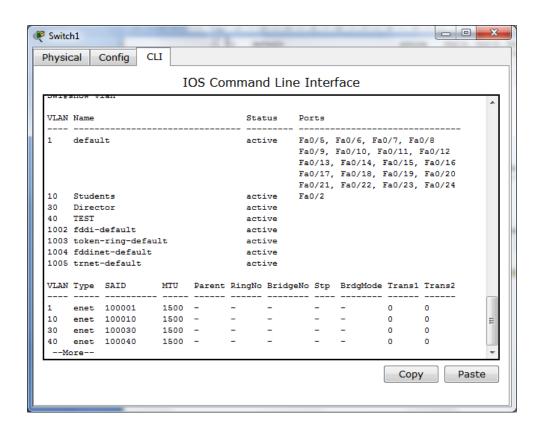


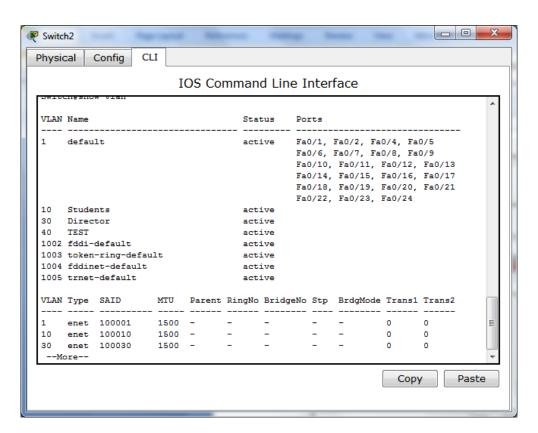
Xoá VLAN trên SW server và ki m tra các client

Sau khi th c hi n lênh xóa vlan no vlan 20 trên SW0

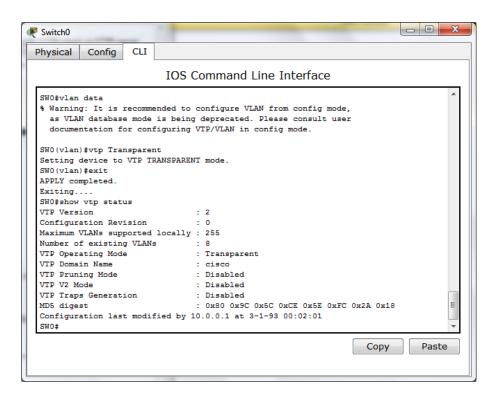
Ki m tra c 2 SW1, SW2 thì thông tin v VLAN l p t c c p nh t l i

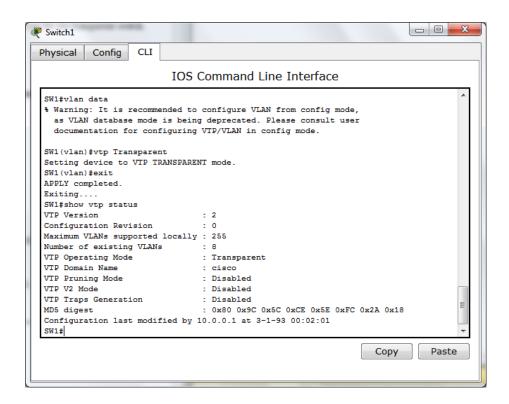


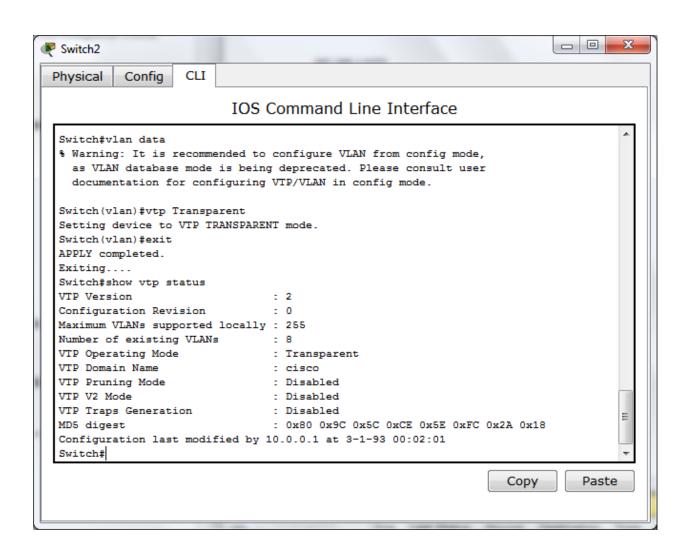




Mode Transparent trên các switch







--- H T ----