## <u>Skill Test 1</u>

Pick up a router and perform the password recovery procedure. After the procedure is complete, the router should be boot to setup mode (no start-up configuration saved) and the register value should be 0x2102.

## LAB 2 LAN switch VLAN, trunking and VTP

2-0 The switches are connected with cross-over cables like this: sw1-8 to sw2-8, sw2-7to sw3-8, sw3-7 to sw4-8

2-1 Make sure the switch hostname and enable secret password exist. Make sure the switch is accessible by telnet. If not, add them as described in LAB 1.

2-2 Create VLANs: 100, 200, 300: (VLAN name is case sensitive)

```
vlan 100
          name CCNA
      vlan 200
          name Class2009
      vlan 300
          name Course3
2-3 Shut down VLAN 1
      int vlan 1
          no ip addr
           shut
2-4 Assign VLAN addresses
      int vlan 100
          ip addr 10.100.x.1 255.255.0.0
          no shut
      int vlan 200
          ip addr 10.200.x.1 255.255.0.0
          no shut
      int vlan 300
          ip addr 10.30.x.1 255.255.0.0
          no shut
2-5 Assign VLAN and Trunking to switch ports
      int range fa0/1 - 2
           sw mo ac
          sw ac vl 100
      int range fa0/3 - 4
          sw mo ac
           sw ac vl 200
      int range fa0/5 - 6
          sw mo ac
          sw ac vl 300
      int range fa0/7 - 8
          sw tr en dot
           sw mo tr
```

2-6 Connect your PC's 2<sup>nd</sup> Ethernet port to the first port of your switch and configure your PC as 10.100.x.10/16 Add a static route 10.0.0.0/8 and next hop 10.100.x.1 to your PC. [route add 10.0.0.0 mask 255.0.0.0 10.100.x.1] At this point, you should be able to ping from your PC or switch to all 10.100.x.1 and 10.100.x.10

```
2-7 Set up VTP
```

```
vtp mode server
vtp domain ccna3
vtp ver 2
vtp pass cisco
sh vtp status
sh vtp password
```

2-8 Add VLAN at your switch vlan 10x sh vlan br

At this point, you should see more VLANs than you have assigned, 10x. Change VTP mode to transparent then change to client and **show vlan brief**. Change VTP mode to transparent then change to server and **show vlan brief**.

Lab 2 second part:

Your PC cannot ping 10.200.x.1 or 10.30.x.1 at this point. Your PC should be able to telnet to your switch.

2-9 Please connect fa0/6 to a router fa0/1 with a straight cable. 2-10 At switch int fa0/6 sw tr encap dot1q sw mo tr 2-10 At router int fa 0/1no shut int fa0/1.100 en do 100 ip address 10.100.x.2 255.255.0.0 int fa0/1.200 en do 200 ip addr 10.200.x.2 255.255.0.0 int fa0/1.300 en do 300 ip addr 10.30.x.2 255.255.0.0

## 2-11 At PC

route delete 10.0.0.0 mask 255.0.0.0 10.100.x.1 route add 10.0.0.0 mask 255.0.0.0 10.100.x.2

ping 10.200.x.1 from PC ping 10.30.x.1 from PC