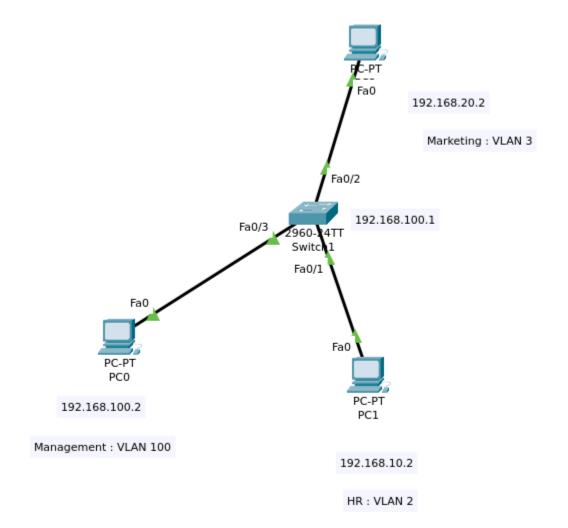
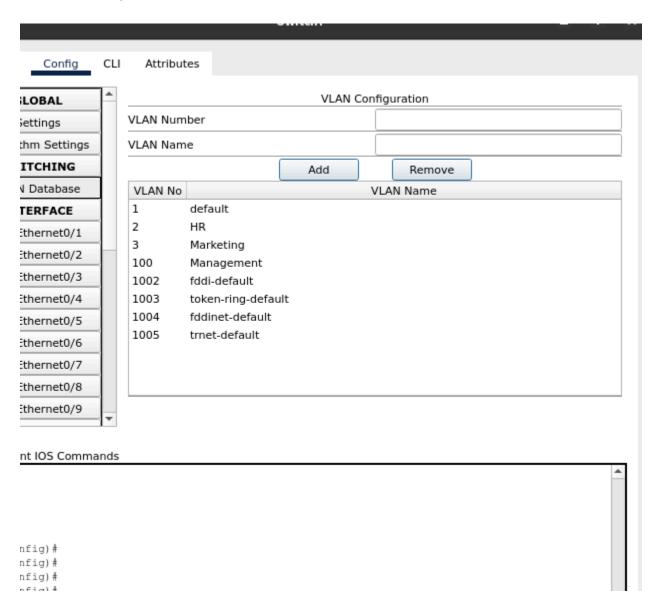
Q7)



For this, I will be using 3 VLANS: HR, Marketing and Management and only Management will be able to ssh into the switch.

First, i will configure the VLANs



Next, I will set an IP to the Switch with the interface VLAN 100 (Management). This IP will be so that only Management can access and not any other device.

```
!
interface Vlan100
ip address 192.168.100.1 255.255.255.0
!
```

Next, I will assign a domain name:

```
!
!
ip domain-name cisco.com
!
```

After this, we will generate crypto keys which enables ssh:

```
Swl(config) #crypto key ?
  generate Generate new keys
 zeroize Remove keys
Swl (config) #crypto key generate ?
 rsa Generate RSA keys
Swl (config) #crypto key generate rsa ?
 general-keys Generate a general purpose RSA key pair for signing and
                encryption
Swl(config) #crypto key generate rsa general-ke
Swl (config) #crypto key generate rsa general-keys ?
 modulus Provide number of modulus bits on the command line
Swl (config) #crypto key generate rsa general-keys modulus 1024
The name for the keys will be: Swl.cisco.com
% The key modulus size is 1024 bits
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]
*Mar 1 0:5:0.844: %SSH-5-ENABLED: SSH 1.99 has been enabled
```

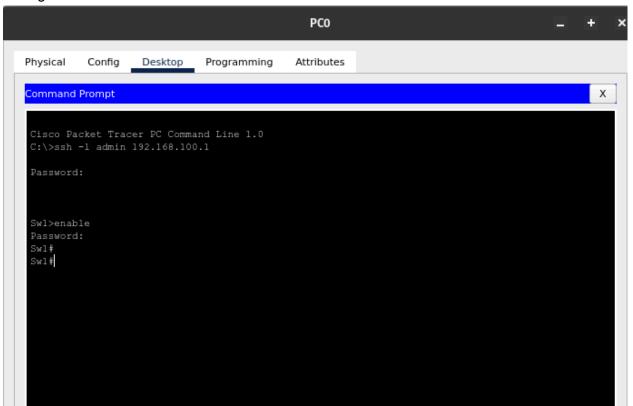
Next, we will enable ssh sessions, along with creating a Switch enable password, a local user and password:

```
Swl(config) #line vty 0 15
Swl (config-line) #transpor
Swl (config-line) #transport outp
Swl(config-line) #transport output ssh
Swl(config-line) #do wr
Swl(config) #enable passw
Swl (config) #enable password 1234
Swl(config) #local usern
Sw1 (config) #username admin password 12345
Swl (config) #do wr
Building configuration ...
[OK]
Swl(config) #line vty 0 15
Swl(config-line) #login local
Swl(config-line)#do wr
Building configuration...
[OK]
Swl(config-line)#^Z
```

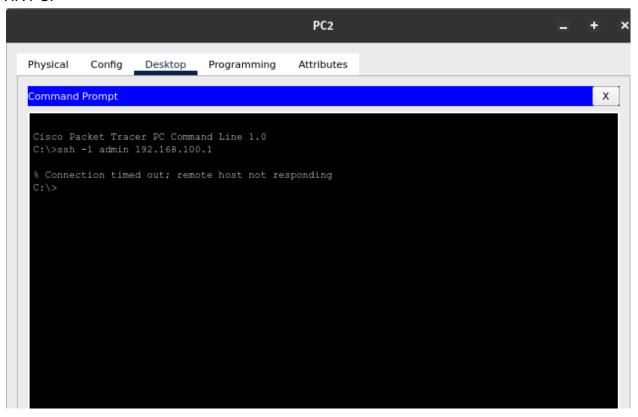
This tells the switch to login using local account when someone ssh into the switch.

Now, we can successfully ssh into the switch.

Management PC:



HR PC:



Thus, we can see that we can only ssh using the management PC and not any other VLAN pc.