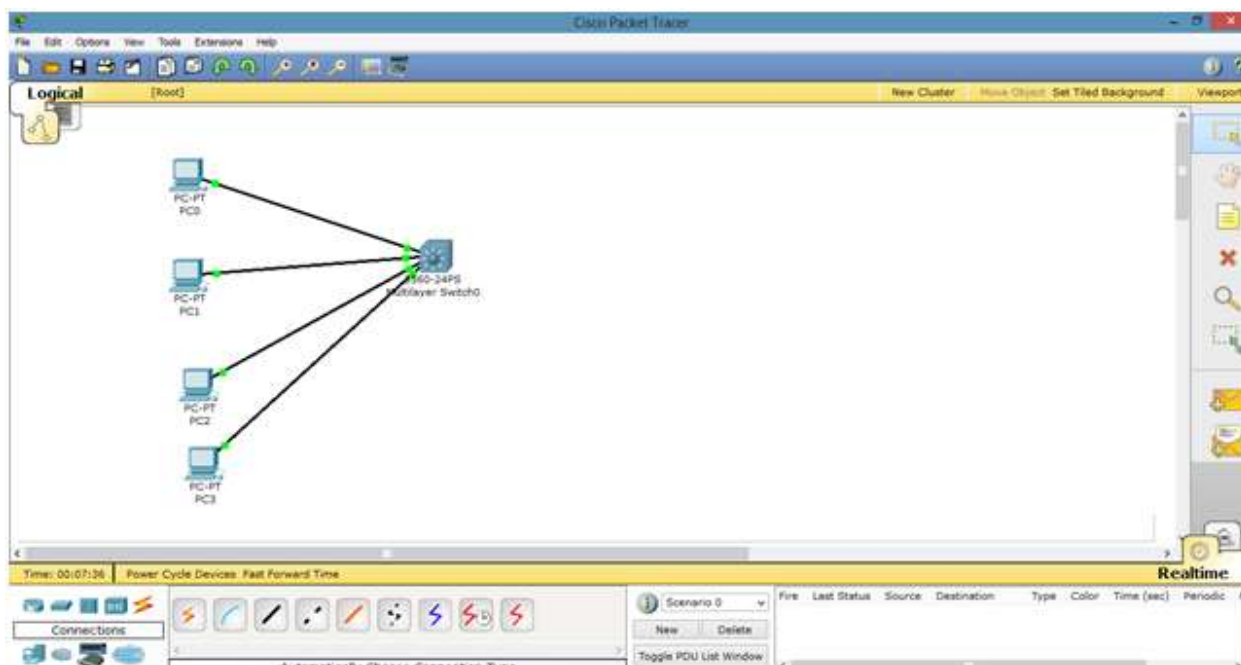


## Practical 08 Configure TELNET and SSH in Packet Tracer.

Step 1 : First take one router four end devices ( pc or laptop ) and set proper connections among them and Set IPs on the PCs.



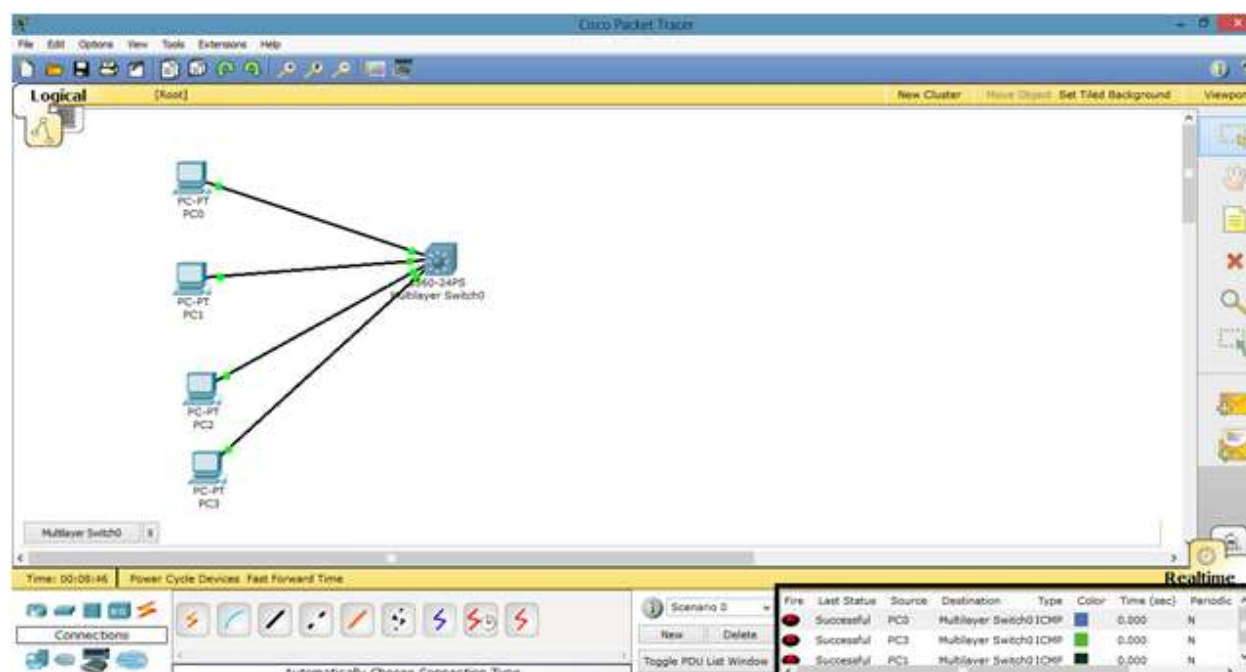
Step 2 : As, by default, all PCs are in vlan 1. We will create a virtual interface on switch with vlan 1 as follows.

```
Physical Config CLI
IOS Command Line Interface

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int
Switch(config)#interface vi
Switch(config)#interface vl
Switch(config)#interface vlan 1 ?
<cr>
Switch(config)#interface vlan 1
Switch(config-if)#ip ad
Switch(config-if)#ip address 192.168.1.1 255.255.255.0
Switch(config-if)#no shut
Switch(config-if)#no shutdown

%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
Switch(config-if)#
```

Step 3 : Now, we can ping to switch by our hosts because hosts are in vlan 1 and switch also has a vlan 1 interface.



Step 4 : lets apply line authentication on the switch. The system supports 20 virtual tty (vty) lines for Telnet, Secure Shell Server (SSH) and FTP services. Each Telnet, SSH, or FTP session requires one vty line.

```
Switch(config-if)#no shut
Switch(config-if)#no shutdown

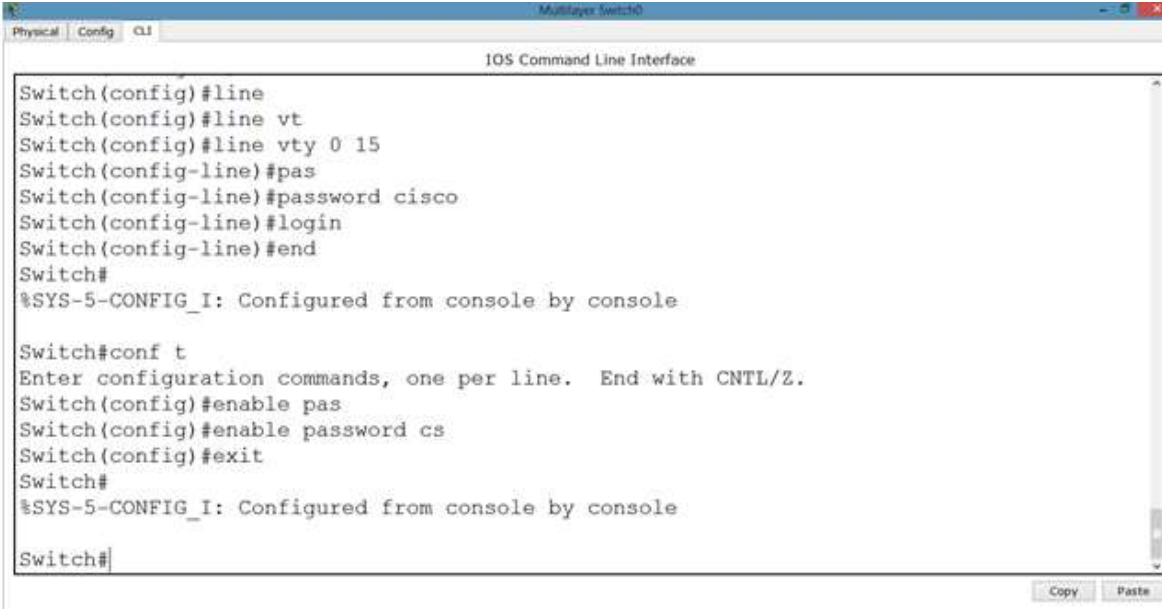
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

Switch(config-if)#exit
Switch(config)#line
Switch(config)#line vt
Switch(config)#line vty 0 15
Switch(config-line)#pas
Switch(config-line)#password cisco
Switch(config-line)#login
Switch(config-line)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
```

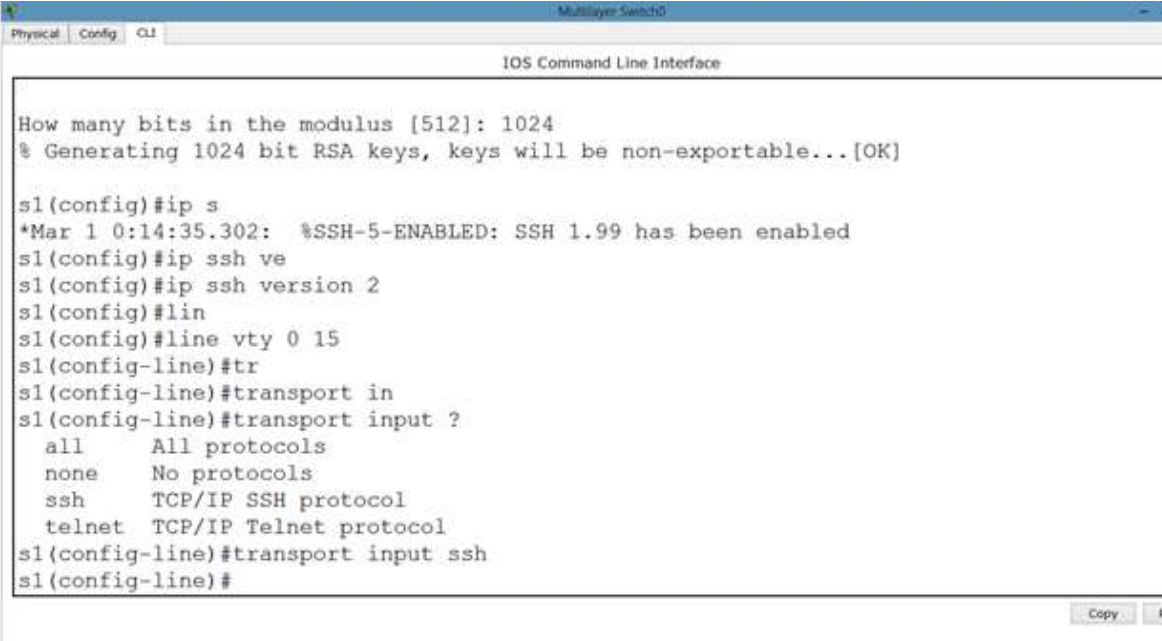
Step 5 : Lets apply password on the switch enabled mode.



```
Switch(config)#line
Switch(config)#line vt
Switch(config)#line vty 0 15
Switch(config-line)#pas
Switch(config-line)#password cisco
Switch(config-line)#login
Switch(config-line)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#enable pas
Switch(config)#enable password cs
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
```



```
How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

s1(config)#ip s
*Mar 1 0:14:35.302: %SSH-5-ENABLED: SSH 1.99 has been enabled
s1(config)#ip ssh ve
s1(config)#ip ssh version 2
s1(config)#lin
s1(config)#line vty 0 15
s1(config-line)#tr
s1(config-line)#transport in
s1(config-line)#transport input ?
    all      All protocols
    none     No protocols
    ssh      TCP/IP SSH protocol
    telnet   TCP/IP Telnet protocol
s1(config-line)#transport input ssh
s1(config-line)#
```

Now, we can change the username from admin to something else.