

Telnet Implementation:

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
Switch(config)#interface vlan 1 ?
<cr>
Switch(config)#interface vlan 1
Switch(config)#interface vlan 1
Switch(config-if)#ip address 192.168.100.1 255.255.255.0
Switch(config-if)#]no sh
Switch(config-if)#]no shut
Switch(config-if)#]no shutd
Switch(config-if)#]no shutd
Switch(config-if)#]no shutdo
Switch(config-if)#]no shutdo
Switch(config-if)#]no shutdo
Switch(config-if)#]no shutdo
Switch(config-if)#]no shutdown
Switch(config-if)#]no shutdown
Switch(config-if)#]no shutdown
```

Ctrl+F6 to exit CLI focus

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```
Switch(config-if)#no shutdown
Switch(config-if)#no shutdo
Switch(config-if)#no shutdo
Switch(config-if)#no shutdown
Switch(config-if)#no shutdown
Switch(config-if)#no shutdown
Switch(config-if)#no shutdown
^
% Invalid input detected at '^' marker.

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

Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state
to up
%IP-4-DUPADDR: Duplicate address 192.168.100.1 on Vlan1, sourced by
00D0.BA97.A5B9

Switch(config-if)#exit
Switch(config)#line vty
Switch(config)#line vty 0 15
Switch(config-line)#password bilal
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.100.1 on Vlan1, sourced by 00D0.BA97.A5B9

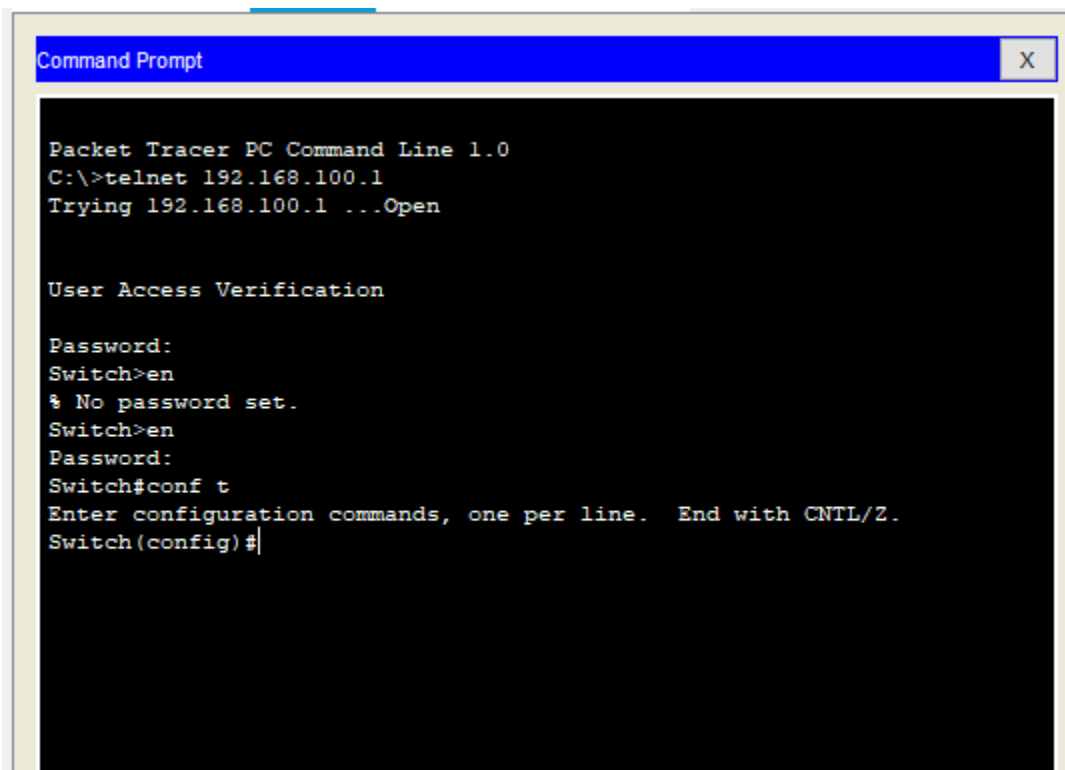
Switch(config-if)#exit
Switch(config)#line vty
Switch(config)#line vty 0 15
Switch(config-line)#password bilal
Switch(config-line)#login
Switch(config-line)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
```

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The screenshot shows a 'Command Prompt' window titled 'Packet Tracer PC Command Line 1.0'. The user has entered the command 'telnet 192.168.100.1', and the system responds with 'Trying 192.168.100.1 ...Open'. This is followed by a 'User Access Verification' prompt. The user enters the password 'en', and the system responds with '% No password set.'. The user then enters the command 'conf t', and the system prompts for configuration commands, one per line, ending with CNTL/Z. The current prompt is 'Switch(config)#'.

```
Packet Tracer PC Command Line 1.0
C:\>telnet 192.168.100.1
Trying 192.168.100.1 ...Open

User Access Verification

Password:
Switch>en
% No password set.
Switch>en
Password:
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#
```

SSH Implementation:

```
Switch#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname bilal
bilal(config)#ip domain name bilal_network
bilal(config)#crypto key generate rsa
^
% Invalid input detected at '^' marker.

bilal(config)#crypto key generate rsa
The name for the keys will be: bilal.bilal_network
Choose the size of the key modulus in the range of 360 to 2048 for
your
  General Purpose Keys. Choosing a key modulus greater than 512 may
take
  a few minutes.

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

```
bilal(config)#ip ssh version 2
*Mar 1 0:11:57.381: %SSH-5-ENABLED: SSH 1.99 has been enabled
bilal(config)#line vty 0 15
bilal(config-line)#ransport input ssh
^
% Invalid input detected at '^' marker.

bilal(config-line)#transport input ssh
bilal(config-line)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to
administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to down

%SYS-5-CONFIG_I: Configured from console by console
```

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```
Packet Tracer PC Command Line 1.0
C:\>ssh -l 192.168.100.1
Invalid Command.

C:\>ssh -l admin 192.168.100.1

Password:

Password:

Password:

bilal>enable
Password:
bilal#conf t
Enter configuration commands, one per line. End with CNTL/Z.
bilal(config)#interface fastE
bilal(config)#interface fastEthernet 0/0
%Invalid interface type and number
bilal(config)#interface fastEthernet 0/1
bilal(config-if)#shutdown

bilal(config-if)#exit
bilal(config)#exit
```

