



Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 48.12.1.
Ping request could not find host 48.12.1. Please check the name and try again.
C:\>ping 48.12.1.7

Pinging 48.12.1.7 with 32 bytes of data:

Reply from 48.12.1.7: bytes=32 time<lms TTL=128
Reply from 48.12.1.7: bytes=32 time=8ms TTL=128
Reply from 48.12.1.7: bytes=32 time<lms TTL=128
Reply from 48.12.1.7: bytes=32 time<lms TTL=128
Ping statistics for 48.12.1.7:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 8ms, Average = 2ms

C:\>
```



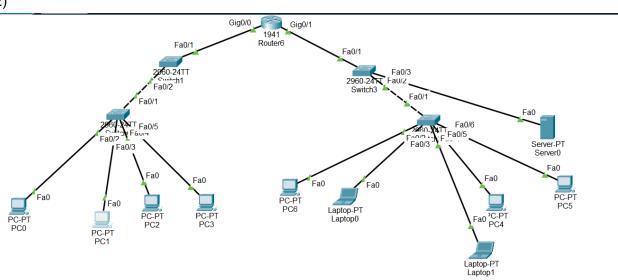
Command Prompt

Switch>

```
Cisco Packet Tracer PC Command Line 1.0
C:\>telnet 48.12.1.8
Trying 48.12.1.8 ...Open
User Access Verification
Password:
Switch>
Switch>exit
[Connection to 48.12.1.8 closed by foreign host]
C:\>telnet 48.12.1.9
Trying 48.12.1.9 ...Open
User Access Verification
Password:
Switch>exit
[Connection to 48.12.1.9 closed by foreign host]
C:\>telnet 48.12.1.10
Trying 48.12.1.10 ...Open
User Access Verification
Password:
```

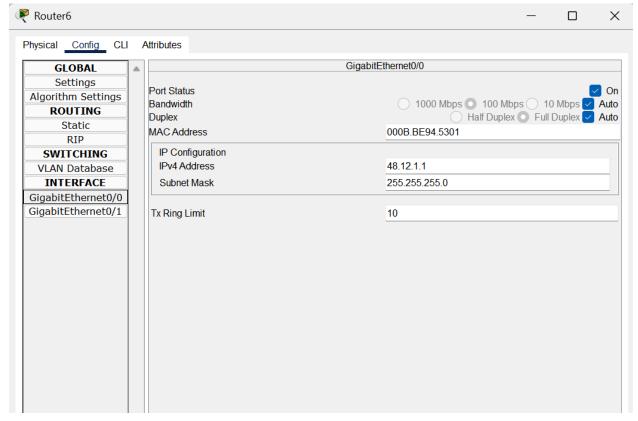
```
Switch>enable
Password:
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #
Switch(config)#interface vlan1
Switch(config-if) #ip address 48.12.1.11 255.255.255.0
% Connection refused by remote host
C:\>telnet 48.12.1.10
Trying 48.12.1.10 ...
% Connection timed out; remote host not responding
C:\>telnet 48.12.1.11
Trying 48.12.1.11 ...Open
User Access Verification
Password:
Switch>en
```

2)





Router(config-if) #exit
Router(config) #int gig0/0
Router(config-if) #ip address 48.12.1.1 255.255.255.0
Router(config-if) #no shutdown
Router(config-if) #exit
Router(config) #int gig0/1
Router(config-if) #ip address 48.12.2.1 255.255.255.0
Router(config-if) #no shutdown
Router(config-if) #no shutdown
Router(config-if) #exit





Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>
Switch>en
Switch#show running-config
Building configuration...
Current configuration: 1080 bytes
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname Switch
spanning-tree mode pvst
spanning-tree extend system-id
interface FastEthernet0/1
interface FastEthernet0/2
interface FastEthernet0/3
interface FastEthernet0/4
interface FastEthernet0/5
interface FastEthernet0/6
interface FastEthernet0/7
interface FastEthernet0/8
interface FastEthernet0/9
interface FastEthernet0/10
```

```
interface FastEthernet0/11
interface FastEthernet0/12
interface FastEthernet0/13
interface FastEthernet0/14
interface FastEthernet0/15
interface FastEthernet0/16
interface FastEthernet0/17
interface FastEthernet0/18
interface FastEthernet0/19
interface FastEthernet0/20
interface FastEthernet0/21
interface FastEthernet0/22
interface FastEthernet0/23
interface FastEthernet0/24
interface GigabitEthernet0/1
interface GigabitEthernet0/2
interface Vlanl
no ip address
shutdown
line con 0
line vty 0 4
```



Physical Config CLI Attributes

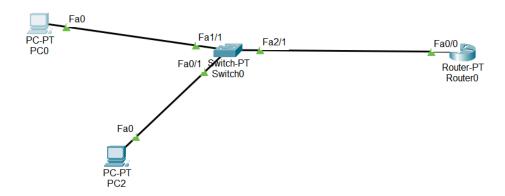
```
Switch>en
Switch#show running-config
Building configuration...
Current configuration: 1080 bytes
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime mse
no service password-encryption
hostname Switch
spanning-tree mode pvst
spanning-tree extend system-id
interface FastEthernet0/1
interface FastEthernet0/2
interface FastEthernet0/3
interface FastEthernet0/4
interface FastEthernet0/5
interface FastEthernet0/6
interface FastEthernet0/7
interface FastEthernet0/8
interface FastEthernet0/9
interface FastEthernet0/10
interface FastEthernet0/11
```

```
interface FastEthernet0/11
interface FastEthernet0/12
interface FastEthernet0/13
interface FastEthernet0/14
interface FastEthernet0/15
interface FastEthernet0/16
interface FastEthernet0/17
interface FastEthernet0/18
interface FastEthernet0/19
interface FastEthernet0/20
interface FastEthernet0/21
interface FastEthernet0/22
interface FastEthernet0/23
interface FastEthernet0/24
interface GigabitEthernet0/1
interface GigabitEthernet0/2
interface Vlanl
 no ip address
 shutdown
line con 0
line vty 0 4
```

```
login
line vty 5 15
login
!
!
!
end
```



```
Physical
       Config
               Desktop Programming Attributes
Command Prompt
    FILITIMUM - UMS, MAXIMUM - IZMS, AVELAGE - SMS
C:\>ping 48.12.2.1
Pinging 48.12.2.1 with 32 bytes of data:
Reply from 48.12.2.1: bytes=32 time<1ms TTL=255
Reply from 48.12.2.1: bytes=32 time<1ms TTL=255
Reply from 48.12.2.1: bytes=32 time=1ms TTL=255
Reply from 48.12.2.1: bytes=32 time<1ms TTL=255
Ping statistics for 48.12.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>telnet 48.12.2.1
Trying 48.12.2.1 ...Open
[Connection to 48.12.2.1 closed by foreign host]
C:\>ssh -1 admin 48.12.2.1
Password:
% Login invalid
Password:
router#
```





```
Programming
Physical
         Config
                 Desktop
                                       Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Request timed out.
Reply from 192.168.1.1: bytes=32 time=13ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<lms TTL=255
Ping statistics for 192.168.1.1:
     Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 13ms, Average = 4ms
C:\>telnet 192.168.1.1
Trying 192.168.1.1 ...Open
User Access Verification
Password:
Switch>
```

```
router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
router(config) #ip domain-name fast.edu.pk
router(config) #crypto key generate rsa
The name for the keys will be: router.fast.edu.pk
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]
router(config) #username admin privilege 15 secret ciscol23
*Mar 1 0:4:10.506: %SSH-5-ENABLED: SSH 2 has been enabled
router(config) #ip ssh version 2
router(config) #ip ssh time-out 60
router(config) #ip ssh authentication-retries 3
router(config) #line vty 0 4
router(config-line) #login local
router(config-line) #transport input ssh
router (config-line) #exit
router (config) #exit
router#
%SYS-5-CONFIG_I: Configured from console by console
router#show ip ssh
SSH Enabled - version 2.0
Authentication timeout: 60 secs; Authentication retries: 3
```



Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=2ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.1:

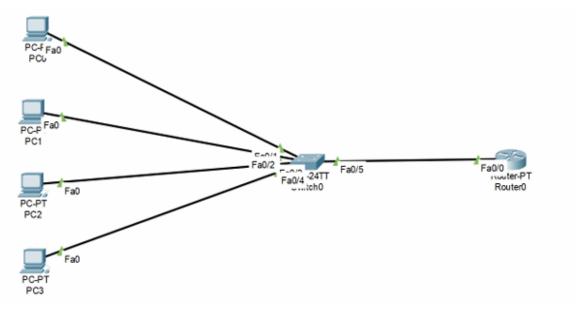
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>ssh -1 admin 192.168.1.1

Password:

router#
```



```
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#hostname Switchl
Switchl(config)#enable password ciscol23
Switchl(config)#line vty 0 4
Switchl(config-line)#password telnetpassword
Switchl(config-line)#login
Switchl(config-line)#transport input telnet
Switchl(config-line)#exit
```

```
Switchl(config)#interface vlan 1
Switchl(config-if)#ip address 192.168.1.6 255.255.255.0
Switchl(config-if)#no shutdown
```



Command Prompt

Cisco Packet Tracer PC Command Line 1.0 C:\>telnet 192.168.1.6 Trying 192.168.1.6 ...Open

User Access Verification

Password:

Password:

Switchl>en

Switchl>enable

Password:

Switchl#



Physical Config Desktop Programming

Command Prompt

C:\>telnet 192.168.1.6 Trying 192.168.1.6 ...Open

User Access Verification

Password: Switchl>en Password: Switchl#

```
Router>en
Router>enable
Router#config t
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname Router1
Routerl(config) #enable secret admin@123
Router1(config) #username admin privilege 15 password sshsecure
Routerl(config) #ip domain-name techinnovators.com
Routerl(config)#crypto key generate rsa
The name for the keys will be: Routerl.techinnovators.com
Choose the size of the key modulus in the range of 360 to 2048 fo.
  General Purpose Keys. Choosing a key modulus greater than 512 m
  a few minutes.
How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK
Routerl(config) #ip ssh version 2
*Mar 1 0:28:52.934: %SSH-5-ENABLED: SSH 1.99 has been enabled
Routerl(config)#line vty 0 4
Routerl(config-line)#login local
Routerl(config-line) #transport input ssh
Routerl(config-line) #exit
```



Physical Config Desktop Programming Attribut

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>ssh -l admin 192.168.1.1

Password:

| Routerl#show | users | | | |
|--------------|-------|---------|----------|--------------|
| Line | User | Host(s) | Idle | Location |
| * 0 con 0 | | idle | 00:00:00 |) |
| 134 vty 0 | admin | idle | 00:05:48 | : |
| 135 vty 1 | admin | idle | 00:00:14 | ł. |
| Interface | User | Mode | Idle | Peer Address |



Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>ssh -l admin Routerl

C:\>ssh admin@Routerl

Invalid Command.

C:\>ssh -1 admin Router1

C:\>ssh -1 admin 192.168.1.1

Password:

Router1#en

| Switchl>show | users | | | |
|--------------|-------|---------|----------|--------------|
| Line | User | Host(s) | Idle | Location |
| * 0 con 0 | | idle | 00:00:00 | |
| 2 vty 0 | | idle | 00:00:49 | 192.168.1.2 |
| 3 vty 1 | | idle | 00:00:07 | 192.168.1.3 |
| Interface | User | Mode | Idle | Peer Address |