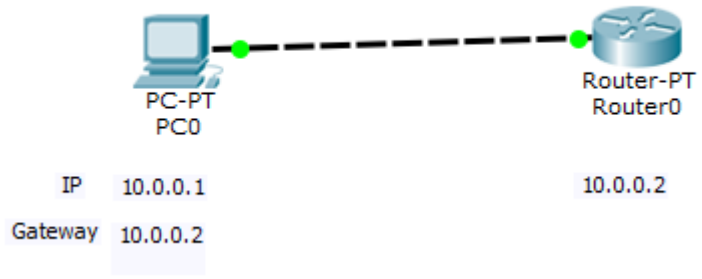
Lab 05

To understand the operation of TELNET while accessing the router placed in the server room from a PC in IT office.

Topology



Configuration

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 20.0.0.2 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#end
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R1
R1(config)#
%SYS-5-CONFIG_I: Configured from console by console

R1(config)#
R1(config)#enable secret p0
R1(config)#line vty 0 5
R1(config-line)#;1;login
% Login disabled on line 132, until 'password' is set
% Login disabled on line 133, until 'password' is set
% Login disabled on line 134, until 'password' is set
% Login disabled on line 135, until 'password' is set
% Login disabled on line 136, until 'password' is set
% Login disabled on line 137, until 'password' is set
R1(config-line)#password p1
R1(config-line)#ewexit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
R1#
R1#configure terminal
```

Output

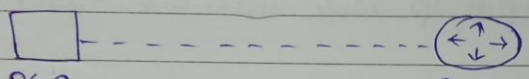
```
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>telnet 10.0.0.2
Trying 10.0.0.2 ...Open


User Access Verification

Password:
Password:
R1>enable
Password:
R1#
```

Observation

04/10/24

Lab 05:

Aim: To understand the operation of TELNET while accessing the router placed in the server room from a PC in IT office.



IP : 10.0.0.1 IP: 10.0.0.1

Gateway: 10.0.0.2

Configuration steps:

1. In Cisco Packet Tracer select a PC & Router.
2. Connect & configure the Router & PC.
   PC 0 - 10.0.0.1 (IP), 10.0.0.2 (Gateway).
   Router 0 - 10.0.0.2 (IP).
3. Observe that link state to up.
4. In the Router's CLI set configurations using commands. To change hostname & to set Password.

```
# hostname R1
R1 (config)#

# enable secret P0
# line vty 0 5
# login

# Password P1
# exit
# exit
```

→ Now, we can see that it is Configured from console by console.

wr
Building configuration
[OK]

5. Now, Ping router IP, so that it asks User Access Verification.

Observation:

>ping 10.0.0.2
pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes = 32 time = 0ms TTL = 255
Reply from 10.0.0.2: bytes = 32 time = 0ms TTL = 255
Reply from 10.0.0.2: bytes = 32 time = 0ms TTL = 255
Reply from 10.0.0.2: bytes = 32 time = 0 ms TTL = 255

ping statistics for 10.0.0.2:
packets: sent = 4, Recieved = 4, Lost = 0 (0% Loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms.

>telnet 10.0.0.2
Trying 10.0.0.2 .... open
User Access Verification
Password: P1
Password: P1
R1>enable
Password: P0
R1#
[Connection to 10.0.0.2 closed by foreign host].

Lab 8
29/10