Lab 9

Aim : To understand the operation of TELNET by accessing the routers in server room from a PC in IT office.

Topology :

Procedure -

1) Connect the devices as shown in topology above.
2) Configure IP address and set IP and gateway for PC.
3) Router CLI

```
router > enable
router # config t
router (config) # hostname r1
r1 (config) # enable secret p1
r1 (config) # interface fastethernet 0/0
r1 (config-if) # ip address 10.0.0.1 255.0.0.0
r1 (config-if) # no shut
r1 (config-if) # line vty 0 5
r1 (config-line) # login
```

```
r1(config-line)# password p0
r1(config-line)# exit
r1# wr
Building configuration...
```

Result

In PC0

```
PC > ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1 : bytes = 32 time = 21 ms TTL=255
Reply from 10.0.0.1 : bytes=32 time = 13 ms TTL = 255
Reply from 10.0.0.1 : bytes= 32 time = 6 ms TTL=255
Reply from 10.0.0.1 : bytes= 32 time = 0 ms TTL=255

Ping statics from 10.0.0.1:

    Packets : sent = 4, Received= 4, lost =0

Approximate roundtrip time in milliseconds:

    Minimum= 6ms Maximum = 21 ms Average=12ms
```

PC> telnet 10.0.0.1

Trying 10.0.0.1 ... open

User access verification

Password: (Type P0)

r1 >enable

Password: (Type P1)

r1 # show ip route

code:

gateway of last resort not set

C 10.0.0.0/8 is directly connected, fastethernet0/0

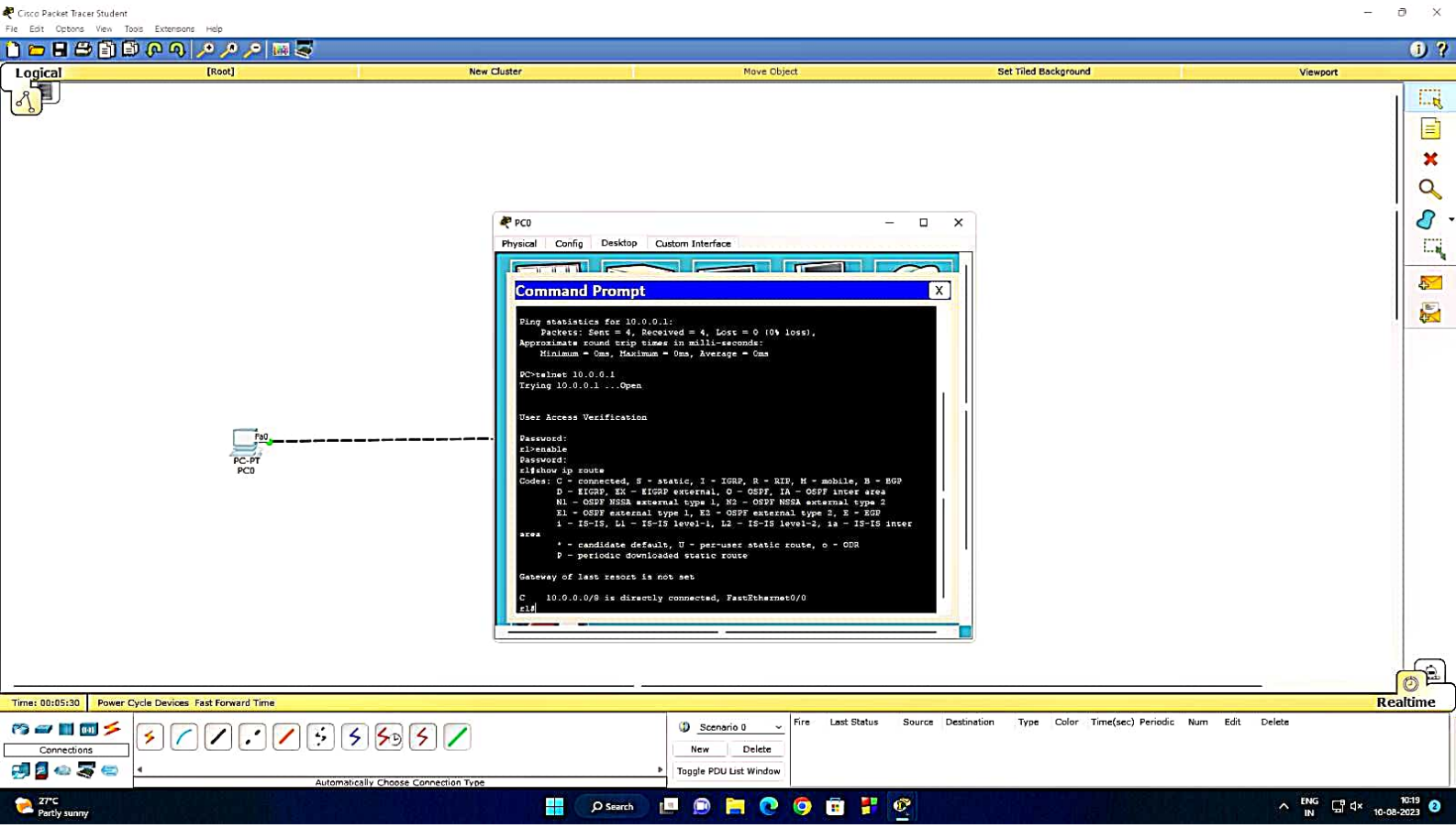
r1#

observation

1) Telnet - used by terminal emulation programs that allow you to log into a remote host

2) we logged into 10.0.0.1 IP devices through 10.0.0.2 IP device

3) The password typed is not visible.


Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Ping statistics for 10.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open
User Access Verification
Password:
rl>enable
Password:
rl#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
C 10.0.0.0/8 is directly connected, FastEthernet0/0
rl#
Fa0
PC-PT
PC0
Time: 00:05:30
Power Cycle Devices Fast Forward Time
Realtime
Connections
Automatically Choose Connection Type
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete
27°C
Partly sunny
Search
ENG
IN
10:19
10-08-2023