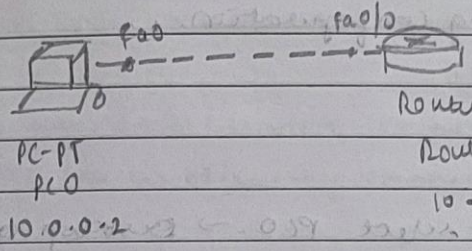
Bafna Gold
Date: Page:

10/8/22 Experiment 11

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

Topology:



Procedure:

1) Select a PC and a router drop them in the workspace connect them using a copper cross over connection set the IP address of PC as 10.0.0.2. Select 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
% login disabled on line 132, until 'password' is set
% login disabled on line 133, until 'password' is set

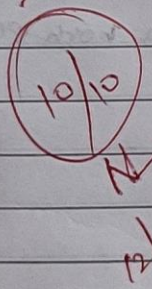
%login disabled on line 134, until 'password' is set
%login disabled on line 135, until 'password' is set
%login disabled on line 136, until 'password' is set
%login disabled on line 137, until 'password' is set
R1 (config-line)# password po
R1 (config-line)# exit
R1 (config)# exit
R1#wr
Building configuration...
[ok]
R1#.

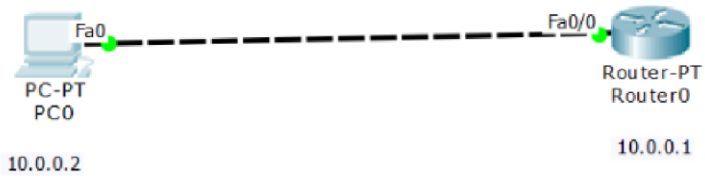
Results: select PC0. → Desktop → command prompt
PC>ping 10.0.0.1
pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes = 32 time=0ms TTL=255
Reply from 10.0.0.1: bytes = 32 time=0ms TTL=255
Reply from 10.0.0.1: bytes = 32 time=0ms TTL=255
Reply from 10.0.0.1: bytes = 32 time=0ms TTL=255
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 = 0 ms
PC> telnet 10.0.0.1
Trying 10.0.0.1 ... Open
User Access Verification
password:
R1>enable
password:
R1#show ip route
codes: C - connected, S - static, I - IGRP, R - RIP,
M - mobile, B - BGP, D - EIGRP, EX - EIGRP

external, O-OSPT, 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
DT.

Observation:
Telnet stands for teletype Network, but it
can also be used to establish a connection
using telnet protocol. It is used for
accessing remote computers over TCP/IP
networks like the Internet.





PC0

Physical | Config | Desktop | Custom Interface

Command Prompt

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Packet Tracer PC Command Line 1.0
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=1ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255

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 = 1ms, Average = 0ms

PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open


User Access Verification

Password:
% Password:  timeout expired!

[Connection to 10.0.0.1 closed by foreign host]
PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open


User Access Verification

Password:
Password:
Password:

[Connection to 10.0.0.1 closed by foreign host]
PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open


User Access Verification

Password:
r1>enable
Password:
r1#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
r1#
```