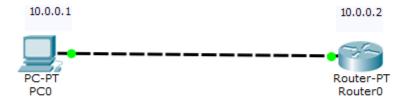
NAME: MANVI SHARMA USN: 1BM22CS149

CN LAB 4

AIM: TO UNDERSTAND THE OPERATION OF TELNET BY ACCESSING THE ROUTER PLACED IN THE SERVER ROOM FROM A PC IN IT OFFICE.

TOPOLOGY:



CONNECTION SETUP B/W PC and ROUTER:

Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown

ROUTER CONFIGURATION FOR SECRET-KEY and PASSWORD:

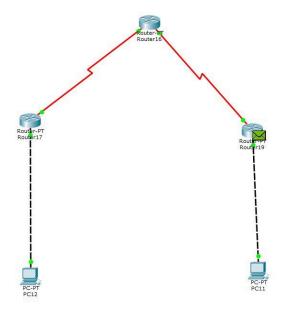
```
Router(config-if)#exit
Router(config) #interface FastEthernet0/0
Router(config-if)#
Router(config-if) #exit
Router(config) #interface FastEthernet0/0
Router(config-if) #ip address 10.0.0.2 255.0.0.0
Router(config-if)#
Router(config-if) #exit
Router(config) #interface FastEthernet0/0
Router(config-if) #exit
Router(config) #hostname R1
R1(config) #ebenable secret p0
R1(config)#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 p1
R1(config-line)#exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console
Building configuration...
[OK]
R1#
```

USING TELNET COMMAND:

```
Command Prompt
Packet Tracer PC Command Line 1.0
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
Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms
PC>telnet 10.0.0.2
Trying 10.0.0.2 ...Open
User Access Verification
Password:
R1>enable
Password:
R1#
[Connection to 10.0.0.2 closed by foreign host]
PC>
```

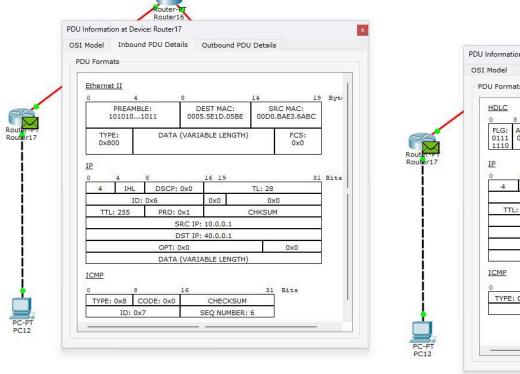
b) TTL CONCEPT

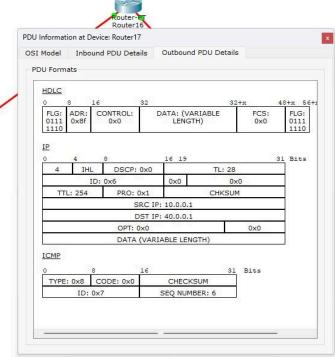
TOPOLOGY:



INBOUND FOR ROUTER1:

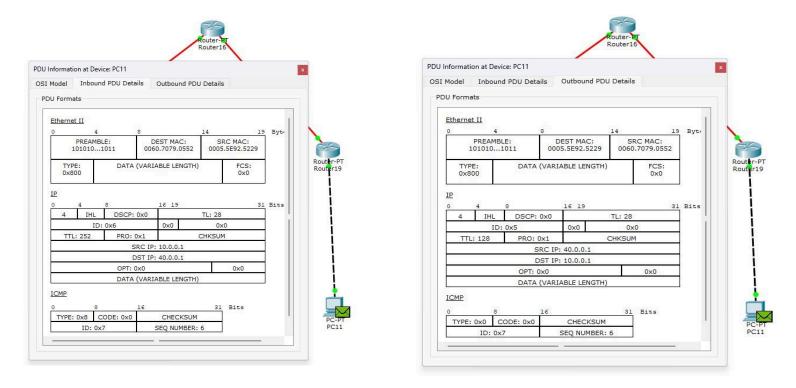
OUTBOUND FOR ROUTER1:



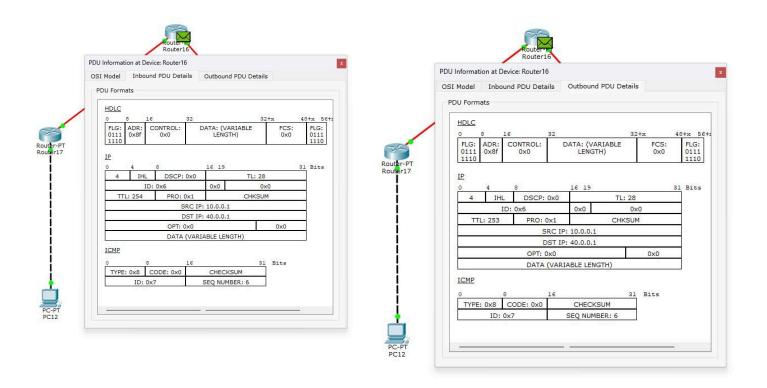


INBOUND FOR PC1:

OUTBOUND FOR PC1:



OUTBOUND FOR ROUTER1: INBOUND FOR ROUTER1:



OBSERVATION: ACCESSING ROUTER USING TELNET:

The second secon	The state of the s
39/10/84	dab=05
Aim:	To understand the operation of TELNET by according
	the nouter placed in the server room from a
	or i TT office
rish	second of all such thatel the above
P	TELNET => TELECOMM notwork
	TELE means memore for not near.
Þ	Thying to arren which is fax using TELENET
Tobolo	ou to
Topolo	paddren paddren
	10:0:0:2
	25 Routex-PT
- Aller	PC-PT HOWELD
Observ	ation :
Step 1 -	setup topology and configure PC and Router: setting ip addresses of PC and router click PCO, go to "config" - "ip address" - 10.0.0.1 click on router O, go to config - "ip address" - 10.0.0.2
	setting to addresses of PC and rouler
1	click PCO, go to "config" - "ip address" - 10.0.0.1
27	click on House O, go to compig - ipaddres - 10.00.2
	Configuring ? co and routers : (Setting connection)
لينستر	click on reaters go to = "ciz" enter commands
Route	enable.
Route	e # config t
	(config# interface Fast Ethernet 0/0
Rower	(config-1)# ip address 10.0.0.1 255.0.0.0
Rowle	re (config-if) to chut down
-	
	Cornection built succenfully.
Slepa.)	Using TEINET setting for password, secret key,
- 1	hostname for nower.
0)	Click on Routero go to "CIJ" enter command-
Routers	config-if # exit
	(config)# interface hostname R1 [11 changes recouter name to Rs
No. of Contract of	

	← Bafna, Gold ←
	Dete: 2911024
RI (Con	(ig) # enable secret po (11 setting secret tray)
RICconf	g)# line vty 05 11 vty=virtlual terminal it is fluxed to set line connection du range 0 tos
	ellured to set line connection du ronge 0 tos
	Die for Co, 1,2,3,4,13 ids
RI (confi	g-line)# login
RI Con	Hig-wno) # password pt (likething proved for second key)
RI (Cor	hig-line)# exit
	JAB) # 620,7
RIH	
Step3-	Trying to ping my to router 'RI' and
	by using secret key and pssword - enabling
	noutex configuration
0)	Click on RouterRI go to desictop" - command Brompt & type -
-	Input-Output Command prompt:
817	oing large, 2
Per	ping 10.0.0.2 with 20 byter of Jato:
	Roply from 10.0.0.2: bytes=32 time: Oms TTL=255
	(74)
	Ping statistics for 10.0.0.0.0:
	Ping statistics for 10.0.0.0:: Packets: semt=4, Received=4, lost=0 (0) 6 lox),
	(11 beg of direct connection)
	Appear wound tuip times in ms:
	Min s oms, Maors oms, Aug soms
0	de las halmad
PCY	teleptorot 10.0.0.2
	Taying 6.0.02 Open
Nox.	wer Access verification
Me	Password: _ (11 +ype p1)
RIZ	emable
Po	unword: _ (11 enter p0)
RI	Francett - tool to a study of color batt.
	Transmettion closed to 1010102 closed by foreign host].