LAB 3

Configure default route to the Router.

OBSERVATION:

```
Experimention LAB -03
 -> configure IP address to routers in Packet
 + maces, Explore the following message: Ping
 Gresponses, desination ungreachable, greaves + timedout
    Terlay.
   Steps Involved:
 Step 1: Drag and drop 2 PC 2 and a generic
Sweders set the SP addresses of 2 PC & as 10.0.0.1
and so. 0. 0. 1 hespectively, set the gateway of 2 pg
as 10.0.0.3 and 20.0.0.3 nespectively and commed
them to the router.
Step 3: configure the houter lettings to conned to
two netwosiks (i.e. two paid of different n/w) by
uxing following steps after making the connection
 Router > enable
  Router + config terminal
 Mowter (config) # interface Past Ethernet 0/0
 Router (config-if) Hip address 10.0.0.3 255,0.00
 Rowter (config - if) # no Shuddown.
 Router (config-if) # exit
 Router (config) # Interface fast Ethernet 1/0.
Row er (config-if) Hip address so.0.0.3 255 P.P.
 Road en (config-if) # no Sheddown
```

Rouder (config - if) # Exit

Rouder (config - if) # Exit

Rouder #

step 3: Send a simple pour from with IP address 10.0.0.1 to PCI with IP address 30.0.0.1 and confinms how many Packets sent by using Ping command.

ster his similarly annect two more Pois with a router and configure by following above mentioned sters. Introduce one more nower and connect it to the existing two routers of different network and configure it

Step 5:
Now if you Ping from the PC with IP address 10.0.0.1
Now if you Ping from the Performe will be destination as 7 Ping 40.0.0.1 the nextonle will be destination unreachable. Although it seemed there's a connection unreachable two PC's indirectly via scouters but between these two PC's indirectly via scouters but every swuters may not have information negarding every networn Present in the topology so these PC's cannot commmunicate, To eliminate this we should use static swuting to teach every srowten manually.

we can do static houting for houter's by the following 2teps,

Router # config t Router (config) # ip soute 10.0.0.0 255,000,0, 5000. Prouter (config) Hip roade 20.0.0.0 255,0.0.0 50,00 Rowor (config) # ip soute 30.0,0,0 255,0.0,0 60.0,0 Road or (config) # ip 90000 40,0,0,0 2550,0,0 60.00 Pacter (config) Heart

Step 7: 50 bins to big of sir and souboutent we can view and the networks connected to a Growt or al Follows:

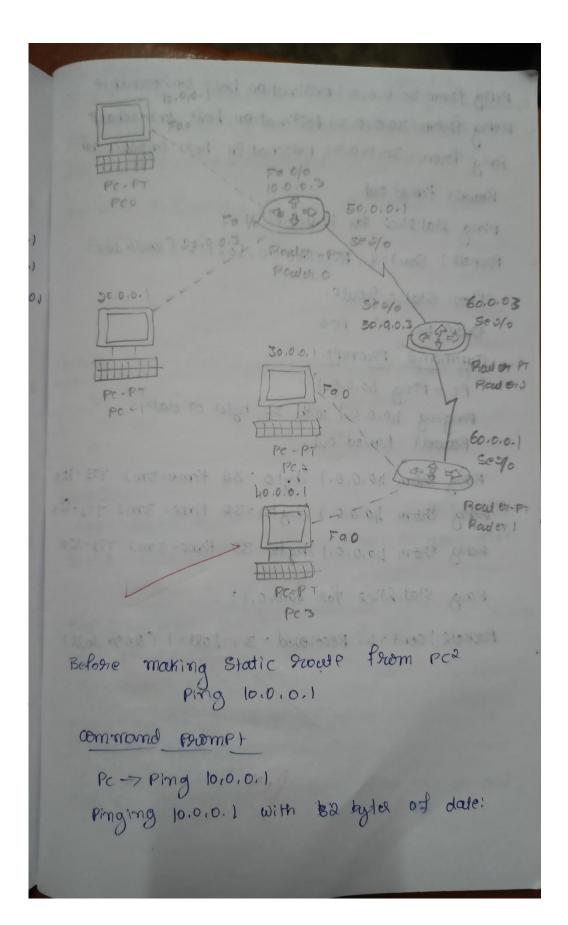
Rooden # Show IP Sworte codec c-connected, S-Static

5 .10.0.0.0/8 [5/0] via 50.0.0.1 S 20,0,0,0/8 [20] S 30,0,0,0/8 [210]

S 40.0.0.0/8 [210]

E 50.0.0.018 12 digrectly connected. Serial sto

C 60.0.0.0/8 is dispedly connected socials



Reply from 30.0.0,3 ! Destination host un meachable Reply forom 30,0,0,3; perfination hort omheachase Party from 30,0,0,3; Deltination host unsieconals Reavest firmed out

Ping statistics for 10,0.0.1?

Packell : Sent=4, Received =0, Lost=4 (1000'10 Joss)

After Static Howle.

from Pc1 Pin Pc3

Command Prompti-

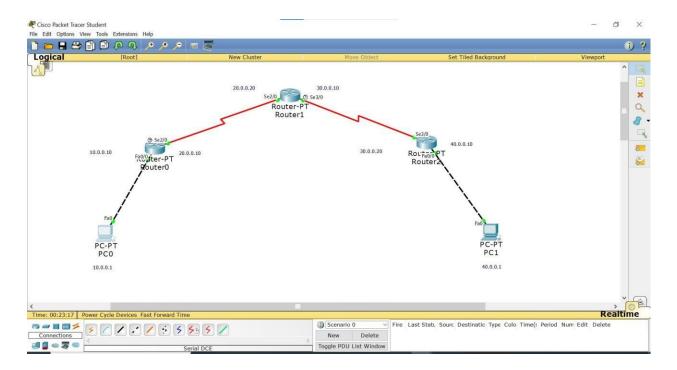
Pc > Ping 40.0.0.1

Pringing 40,0,0,1 with 32 byter of data. Reavest timed out.

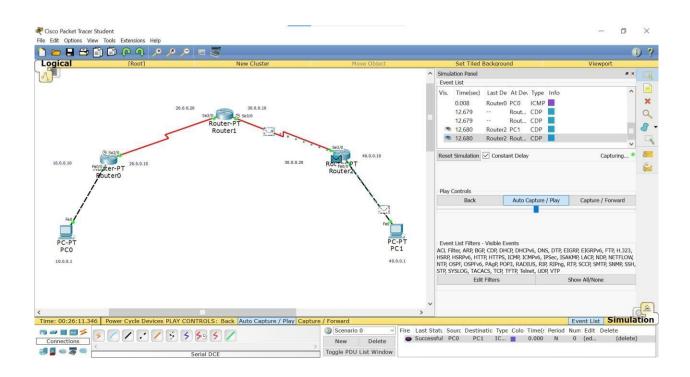
Reply from 40.0.0.1 ibyte = 32 time=3m2 TT=105 Berry from 40.0.0.1 iby ter=32 time=3ml Trul Reply from 40,0,0,1 ibyter= 32 time= 3ml 771-125 Ping Statistice for 40,0,0,1:

Packets: sent = 4, Received = 3, Lost = 1 (25% Joss)

TOPOLOGY:



OUTPUT:





Physical

Config

Desktop

Custom Interface

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.1
Pinging 40.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
Reply from 40.0.0.1: bytes=32 time=16ms TTL=125
Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 16ms, Average = 6ms
PC>ping 40.0.0.1
Pinging 40.0.0.1 with 32 bytes of data:
Reply from 40.0.0.1: bytes=32 time=21ms TTL=125
Reply from 40.0.0.1: bytes=32 time=9ms TTL=125 Reply from 40.0.0.1: bytes=32 time=2ms TTL=125
Reply from 40.0.0.1: bytes=32 time=4ms TTL=125
Ping statistics for 40.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 21ms, Average = 9ms
PC>
```