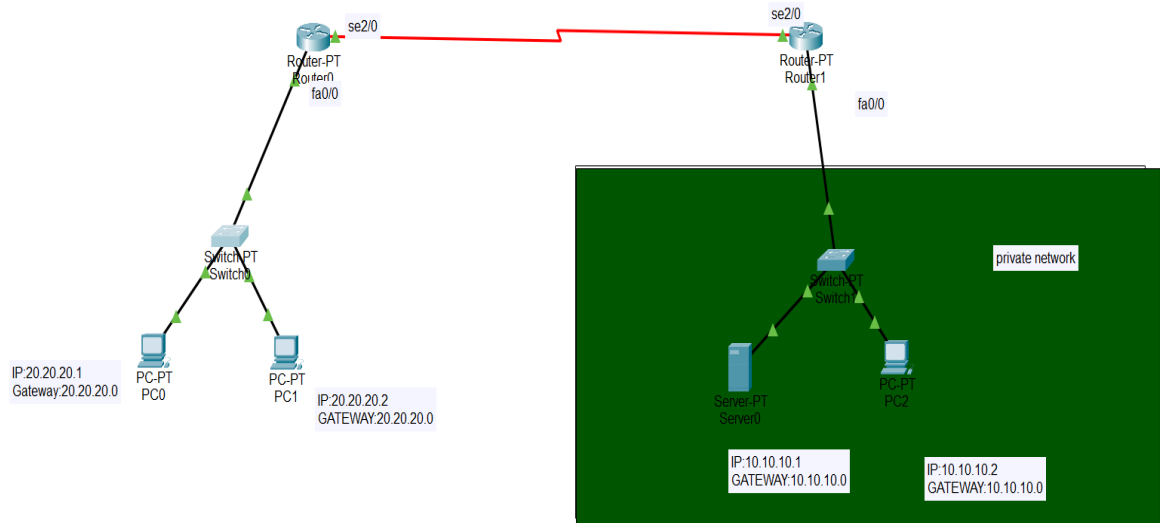


PROCEDURE:

- 1.OPEN CPT.
- 2.CONSTRUCT THE NETWORK AS GIVEN BELOW.



CONFIGURATION OF

IP ADDRESS FOR PC0-20.20.20.1,DEFAULT GATEWAY: 20.20.20.0

PC1-20.20.20.2 ,DEFAULT GATEWAY: 20.20.20.0

IP ADDRESS FOR PC2-10.10.10.2,DEFAULT GATEWAY: 10.10.10.0

SERVER-10.10.10.1 ,DEFAULT GATEWAY: 10.10.10.0

Click server->select services tab->select http and https

Then select index and change cisco packet tracer to Youtube in the code.Then save it.

3.CLICK ON ROUTER 1 AND GO TO CONFIG->FAST ETHERNET 0/0->GIVE IP AS 10.10.10.0 AND TURN ON PORT STATUS.

THEN CLICK SERIAL 2/0-> GIVE IP AS 30.30.30.2 AND TURN ON PORT STATUS.

4.REPEAT THE SAME FOR ROUTER 0.

Click on ROUTER 0 AND GO TO CONFIG->FAST ETHERNET 0/0->GIVE IP AS 20.20.20.0 AND TURN ON PORT STATUS.

THEN CLICK SERIAL 2/0-> GIVE IP AS 30.30.30.1 AND TURN ON PORT STATUS.

5.CONFIGURE NAT

Click router 1 ->go to tab CLI->and give configuration as below

First type router(config-if)#exit
Then follow procedure as below

```
Router(config)#ip nat inside source static 10.10.10.1 30.30.30.2
Router(config)#ip nat inside source static 10.10.10.2 30.30.30.2
Router(config)#int f0/0
Router(config-if)#ip nat inside
Router(config-if)#int s2/0
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#
Router(config)#ip route 20.0.0.0 255.0.0.0 30.30.30.1
Router(config)#
Router(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
```

6.CLOSE CLI AND GOTO TAB CONFIG->STATIC

GIVE NETWORK AS 20.0.0.0

MASK:255.0.0.0

NEXT HOP 30.30.30.1

THEN CLICK ADD.

7.NOW START SENDING PACKETS FROM PRIVATE TO PUBLIC NETWORK.

CLICK MAGNIFIER AND THEN CLICK ROUTER 1 TO VIEW NAT TABLE

NAT Table for Router1					
Protocol	Inside Global	Inside Local	Outside Local	Outside Global	
---	30.30.30.2	10.10.10.1	---	---	
---	30.30.30.2	10.10.10.2	---	---	
tcp	30.30.30.2:80	10.10.10.2:80	20.20.20.2:1027	20.20.20.2:1027	
tcp	30.30.30.2:80	10.10.10.2:80	20.20.20.2:1028	20.20.20.2:1028	

OUTPUT

```
C:\>ping 20.20.20.1

Pinging 20.20.20.1 with 32 bytes of data:

Reply from 20.20.20.1: bytes=32 time=14ms TTL=126
Reply from 20.20.20.1: bytes=32 time=2ms TTL=126
Reply from 20.20.20.1: bytes=32 time=1ms TTL=126
Reply from 20.20.20.1: bytes=32 time=1ms TTL=126

Ping statistics for 20.20.20.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 14ms, Average = 4ms

C:\>
```