



Computer Networking lab

NAT

Course Code: CSE 314

Submitted to:

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Section: PC-A

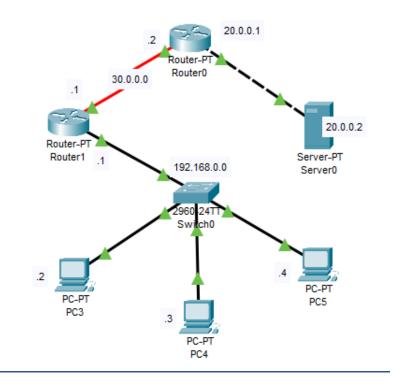
Department of CSE

Daffodil International University

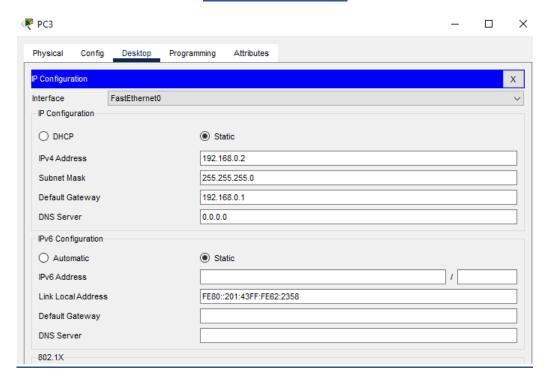
Date of Submission: 11/16/2022



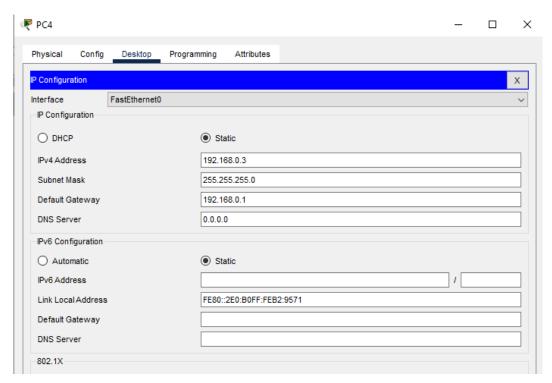
Diagram



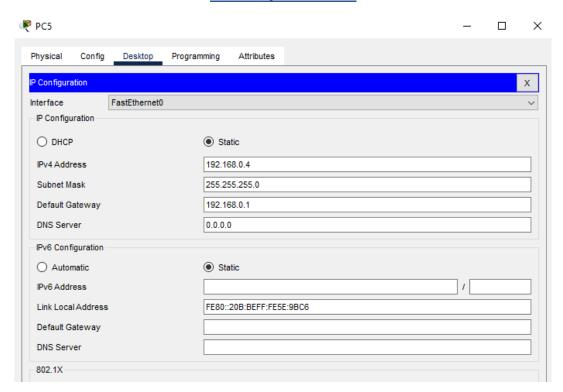
1st Pc Ip Address



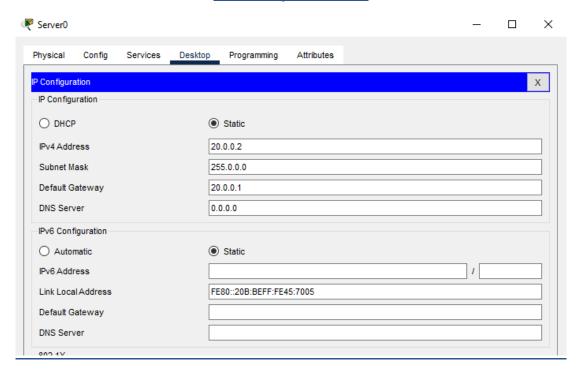
2nd Pc Ip Address



3rd Pc Ip Address



Server Ip Address



Coding part

Router-01

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int f0/0

Router(config-if)#ip add 192.168.0.1 255.255.255.0

Router(config-if)#no shut

Router(config-if)#ex

Router(config)#int s2/0

Router(config-if)#ip add 30.0.0.1 255.0.0.0

Router(config-if)#no shut

Router(config-if)#ex

Router(config)#ex

Router(config)#ip route 0.0.0.0 0.0.0.0 serial 2/0

Router(config)#access-list 1 permit 192.168.0.0 0.0.0.255

Router(config)#ip nat pool test 50.0.0.1 50.0.0.5 netmask 255.0.0.0

Router(config)#ip nat inside source list 1 pool test

Router(config)#int f0/0

Router(config-if)#ip nat inside

Router(config-if)#ex

Router(config)#int serial 2/0
Router(config-if)#ip nat outside
Router(config-if)#ex
Router(config)#ex
Router#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]

Router-02

Router>en
Router#config t
Router(config)#int s2/0
Router(config-if)#ip add 30.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#ex Router(config)#int f0/0 Router(config-if)#ip add 20.0.0.1 255.0.0.0 Router(config-if)#no shut

Router(config-if)#ex Router(config)#ex

Router#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Router#

Router(config)#int f0/0 Router(config-if)#ex Router(config)#ip route 0.0.0.0 0.0.0.0 s2/0 Router(config)#hostname R2

CMD

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 20.0.0.2
Pinging 20.0.0.2 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.2: bytes=32 time=12ms TTL=126
Reply from 20.0.0.2: bytes=32 time=12ms TTL=126
Reply from 20.0.0.2: bytes=32 time=14ms TTL=126

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Packet transfer



CMD

```
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 20.0.0.2
Pinging 20.0.0.2 with 32 bytes of data:
Request timed out.
Reply from 20.0.0.2: bytes=32 time=12ms TTL=126
Reply from 20.0.0.2: bytes=32 time=12ms TTL=126 Reply from 20.0.0.2: bytes=32 time=14ms TTL=126
Ping statistics for 20.0.0.2:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 12ms, Maximum = 14ms, Average = 12ms
C:\>20.0.0.2
Invalid Command.
C:\>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 20.0.0.1: bytes=32 time=1ms TTL=254
Ping statistics for 20.0.0.1:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
     Minimum = lms, Maximum = lms, Average = lms
```