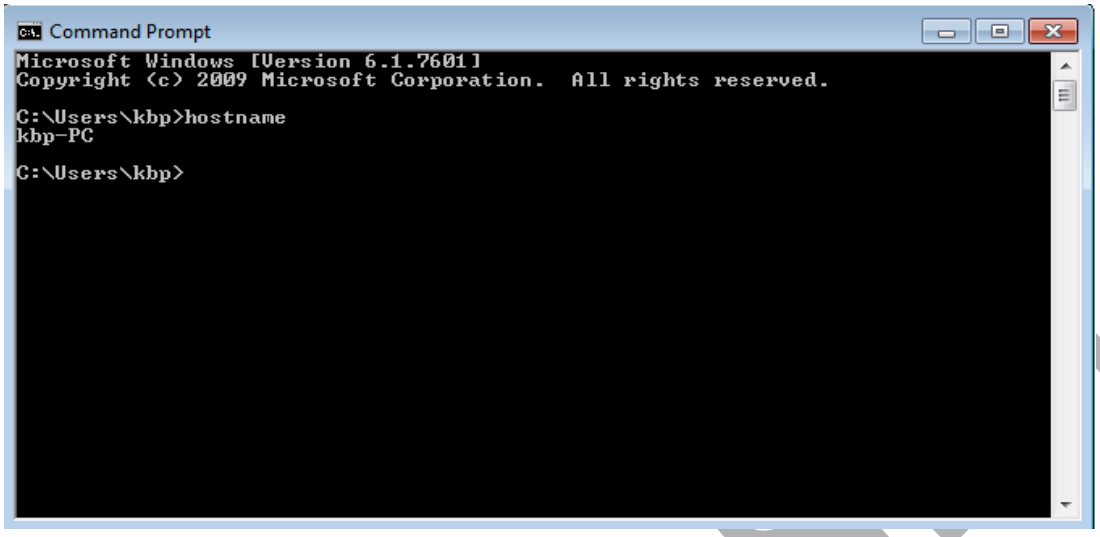
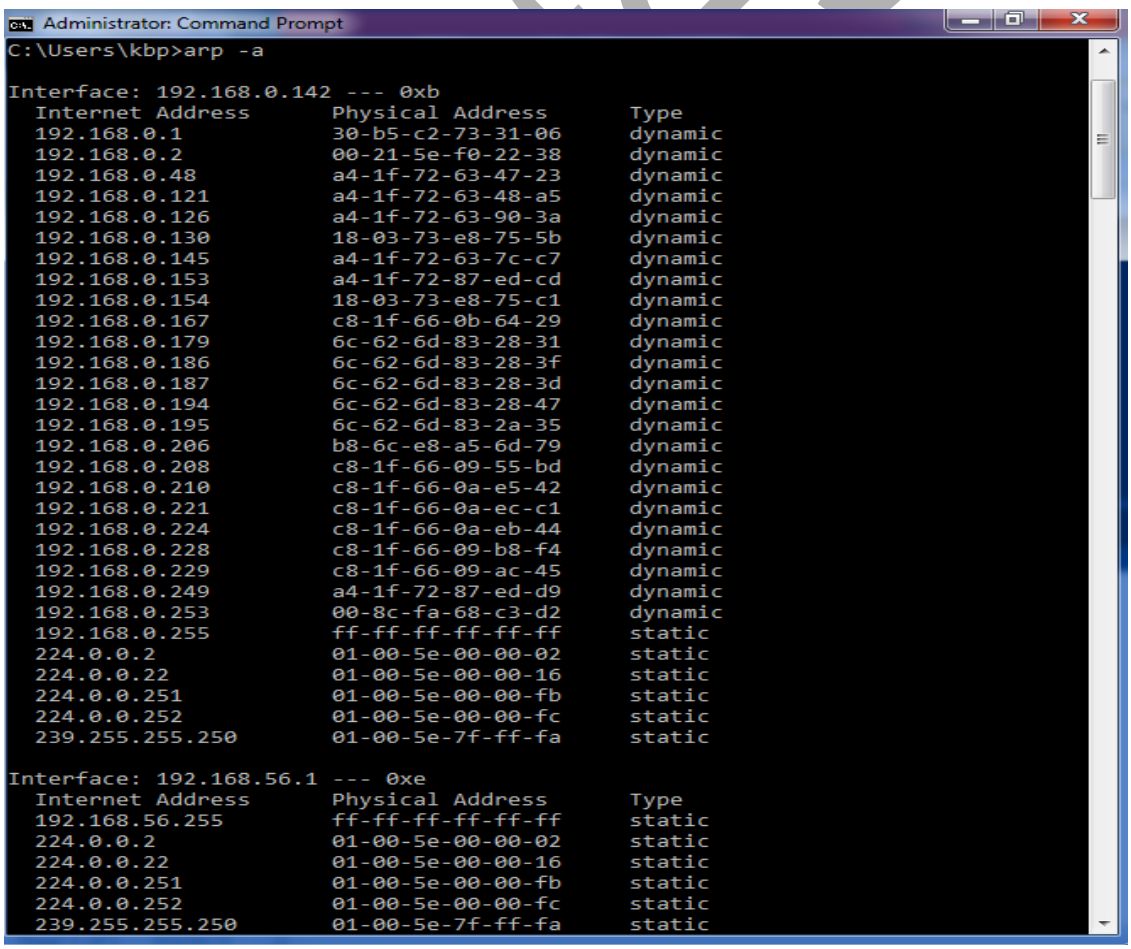
Practical No-2

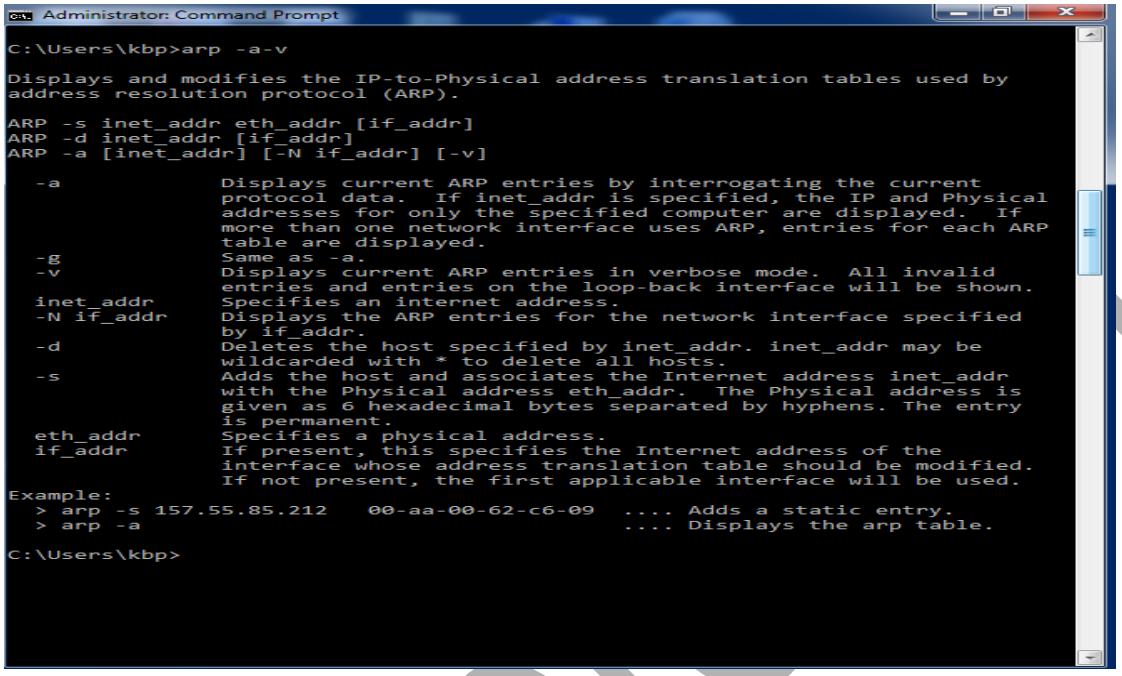
hostname



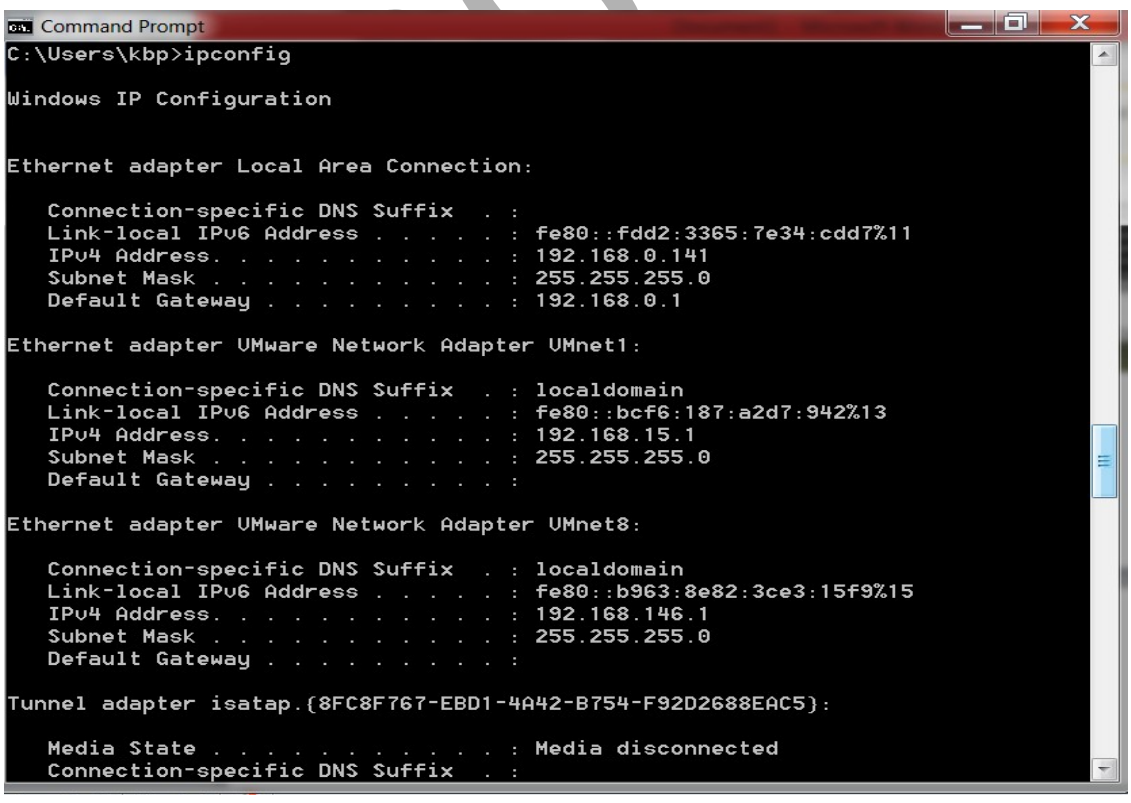
arp -a



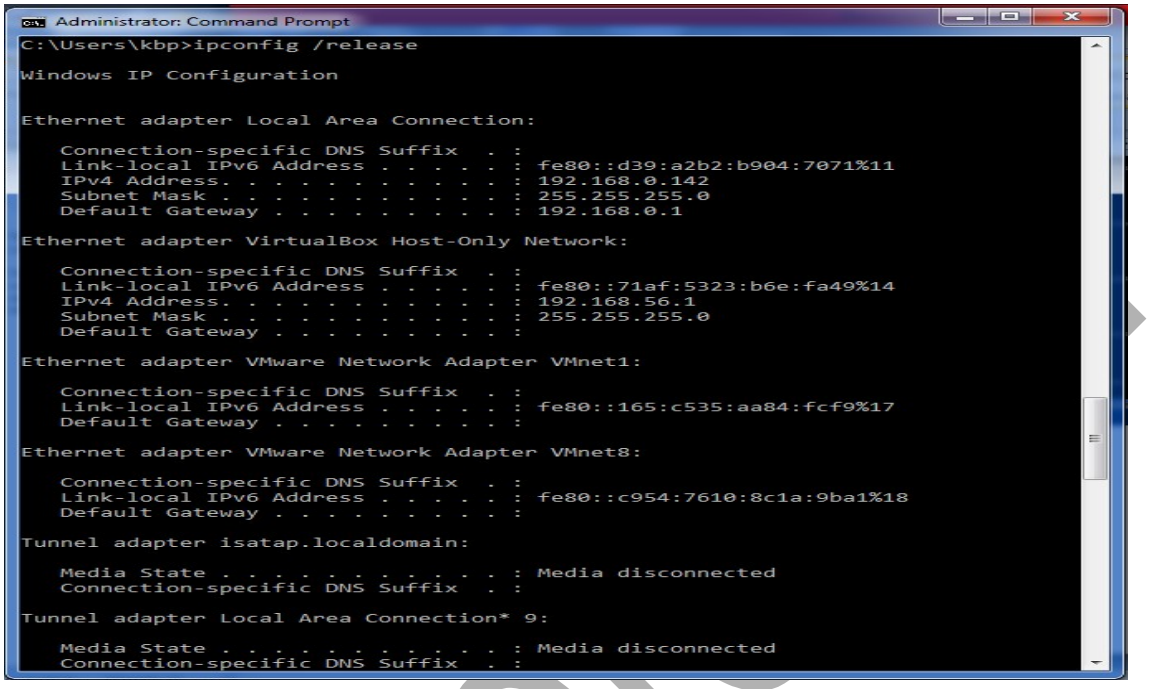
arp –a -v



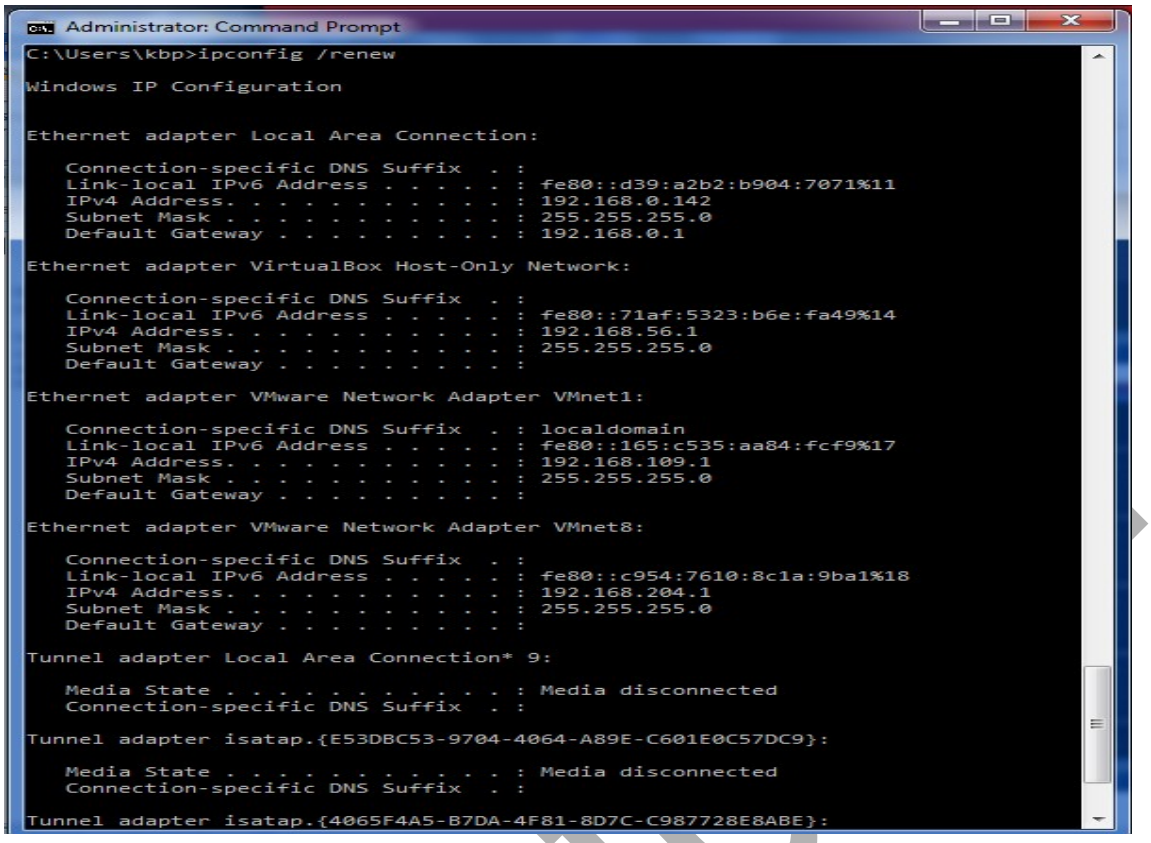
ipconfig



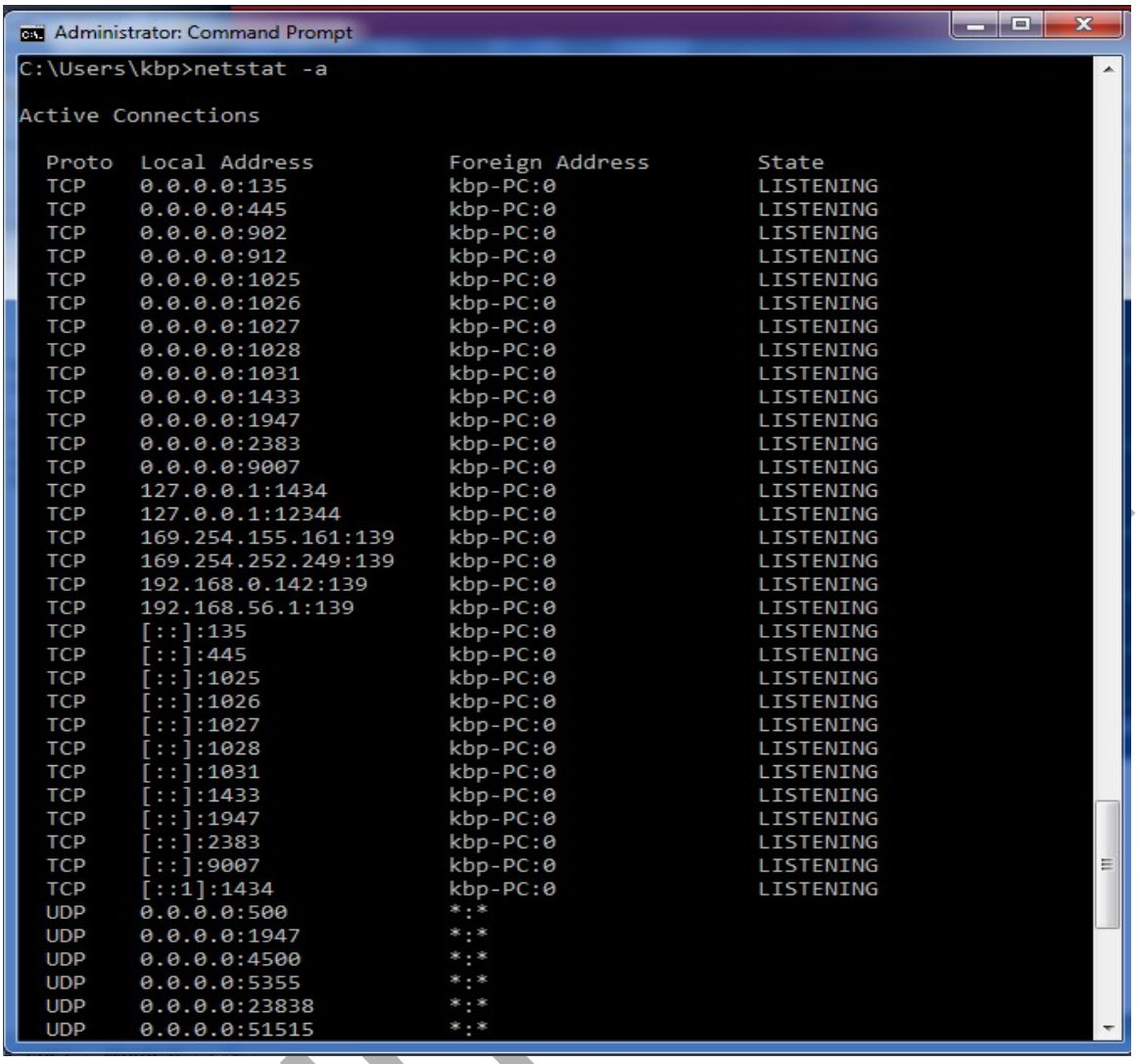
ipconfig /release



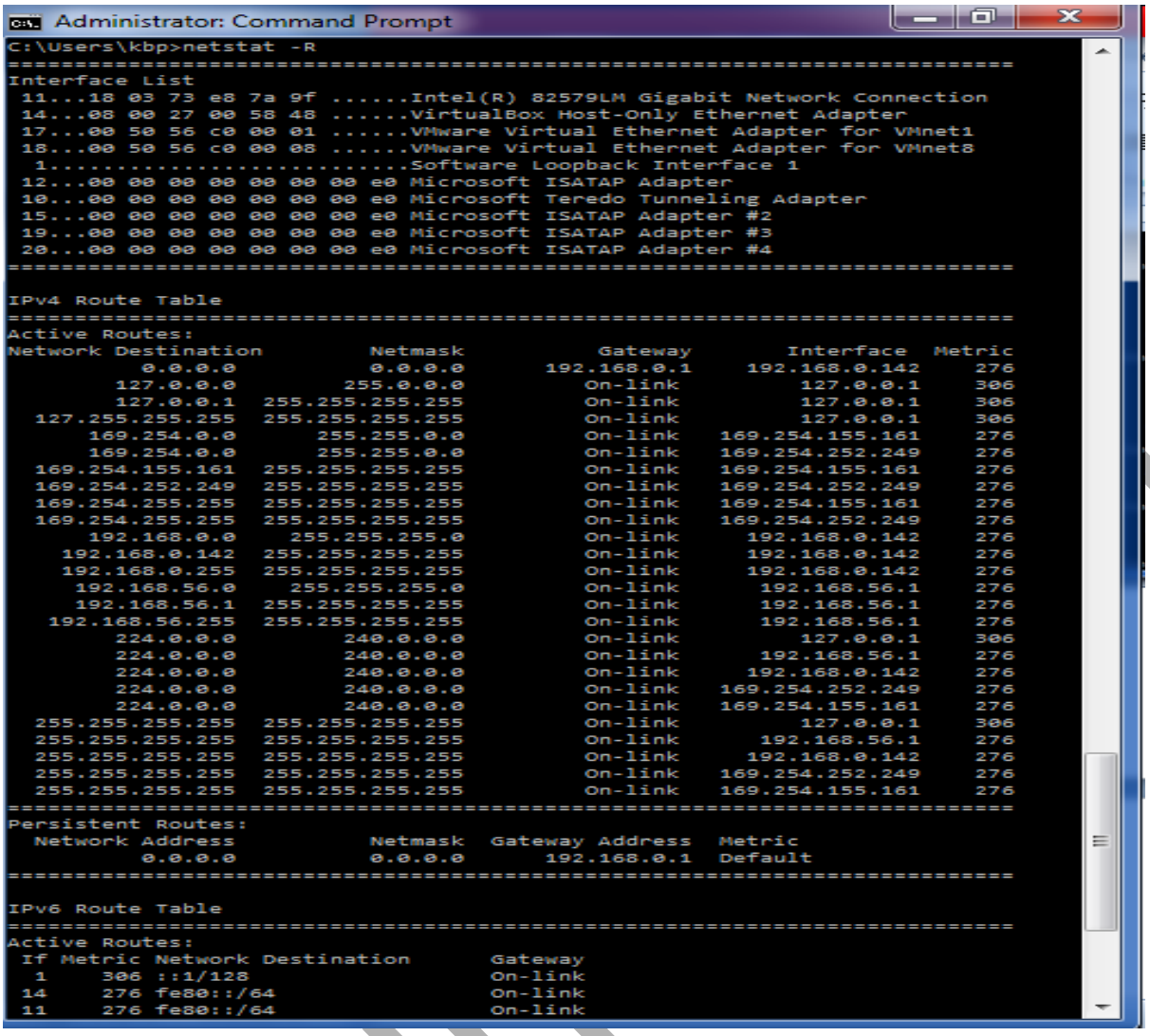
ipconfig /renew



netstat -a


Administrator: Command Prompt
C:\Users\kbp>netstat -a
Active Connections
Proto Local Address Foreign Address State
TCP 0.0.0.0:135 kbp-PC:0 LISTENING
TCP 0.0.0.0:445 kbp-PC:0 LISTENING
TCP 0.0.0.0:902 kbp-PC:0 LISTENING
TCP 0.0.0.0:912 kbp-PC:0 LISTENING
TCP 0.0.0.0:1025 kbp-PC:0 LISTENING
TCP 0.0.0.0:1026 kbp-PC:0 LISTENING
TCP 0.0.0.0:1027 kbp-PC:0 LISTENING
TCP 0.0.0.0:1028 kbp-PC:0 LISTENING
TCP 0.0.0.0:1031 kbp-PC:0 LISTENING
TCP 0.0.0.0:1433 kbp-PC:0 LISTENING
TCP 0.0.0.0:1947 kbp-PC:0 LISTENING
TCP 0.0.0.0:2383 kbp-PC:0 LISTENING
TCP 0.0.0.0:9007 kbp-PC:0 LISTENING
TCP 127.0.0.1:1434 kbp-PC:0 LISTENING
TCP 127.0.0.1:12344 kbp-PC:0 LISTENING
TCP 169.254.155.161:139 kbp-PC:0 LISTENING
TCP 169.254.252.249:139 kbp-PC:0 LISTENING
TCP 192.168.0.142:139 kbp-PC:0 LISTENING
TCP 192.168.56.1:139 kbp-PC:0 LISTENING
TCP [::]:135 kbp-PC:0 LISTENING
TCP [::]:445 kbp-PC:0 LISTENING
TCP [::]:1025 kbp-PC:0 LISTENING
TCP [::]:1026 kbp-PC:0 LISTENING
TCP [::]:1027 kbp-PC:0 LISTENING
TCP [::]:1028 kbp-PC:0 LISTENING
TCP [::]:1031 kbp-PC:0 LISTENING
TCP [::]:1433 kbp-PC:0 LISTENING
TCP [::]:1947 kbp-PC:0 LISTENING
TCP [::]:2383 kbp-PC:0 LISTENING
TCP [::]:9007 kbp-PC:0 LISTENING
TCP [::1]:1434 kbp-PC:0 LISTENING
UDP 0.0.0.0:500 *:*
UDP 0.0.0.0:1947 *:*
UDP 0.0.0.0:4500 *:*
UDP 0.0.0.0:5355 *:*
UDP 0.0.0.0:23838 *:*
UDP 0.0.0.0:51515 *:*

netstat –R


Administrator: Command Prompt
C:\Users\kbp>netstat -R
Interface List
11...18 03 73 e8 7a 9f ......Intel(R) 82579LM Gigabit Network Connection
14...08 00 27 00 58 48 ......VirtualBox Host-Only Ethernet Adapter
17...00 50 56 c0 00 01 ......VMware Virtual Ethernet Adapter for VMnet1
18...00 50 56 c0 00 08 ......VMware Virtual Ethernet Adapter for VMnet8
1...........................Software Loopback Interface 1
12...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter
10...00 00 00 00 00 00 00 e0 Microsoft Teredo Tunneling Adapter
15...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #2
19...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #3
20...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #4
IPv4 Route Table
Active Routes:
Network Destination Netmask Gateway Interface Metric
0.0.0.0 0.0.0.0 192.168.0.1 192.168.0.142 276
127.0.0.0 255.0.0.0 On-link 127.0.0.1 306
127.0.0.1 255.255.255.255 On-link 127.0.0.1 306
127.255.255.255 255.255.255.255 On-link 127.0.0.1 306
169.254.0.0 255.255.0.0 On-link 169.254.155.161 276
169.254.0.0 255.255.0.0 On-link 169.254.252.249 276
169.254.155.161 255.255.255.255 On-link 169.254.155.161 276
169.254.252.249 255.255.255.255 On-link 169.254.252.249 276
169.254.255.255 255.255.255.255 On-link 169.254.155.161 276
169.254.255.255 255.255.255.255 On-link 169.254.252.249 276
192.168.0.0 255.255.255.0 On-link 192.168.0.142 276
192.168.0.142 255.255.255.255 On-link 192.168.0.142 276
192.168.0.255 255.255.255.255 On-link 192.168.0.142 276
192.168.56.0 255.255.255.0 On-link 192.168.56.1 276
192.168.56.1 255.255.255.255 On-link 192.168.56.1 276
192.168.56.255 255.255.255.255 On-link 192.168.56.1 276
224.0.0.0 240.0.0.0 On-link 127.0.0.1 306
224.0.0.0 240.0.0.0 On-link 192.168.56.1 276
224.0.0.0 240.0.0.0 On-link 192.168.0.142 276
224.0.0.0 240.0.0.0 On-link 169.254.252.249 276
224.0.0.0 240.0.0.0 On-link 169.254.155.161 276
255.255.255.255 255.255.255.255 On-link 127.0.0.1 306
255.255.255.255 255.255.255.255 On-link 192.168.56.1 276
255.255.255.255 255.255.255.255 On-link 192.168.0.142 276
255.255.255.255 255.255.255.255 On-link 169.254.252.249 276
255.255.255.255 255.255.255.255 On-link 169.254.155.161 276
Persistent Routes:
Network Address Netmask Gateway Address Metric
0.0.0.0 0.0.0.0 192.168.0.1 Default
IPv6 Route Table
Active Routes:
If Metric Network Destination Gateway
1 306 ::1/128 On-link
14 276 fe80::/64 On-link
11 276 fe80::/64 On-link

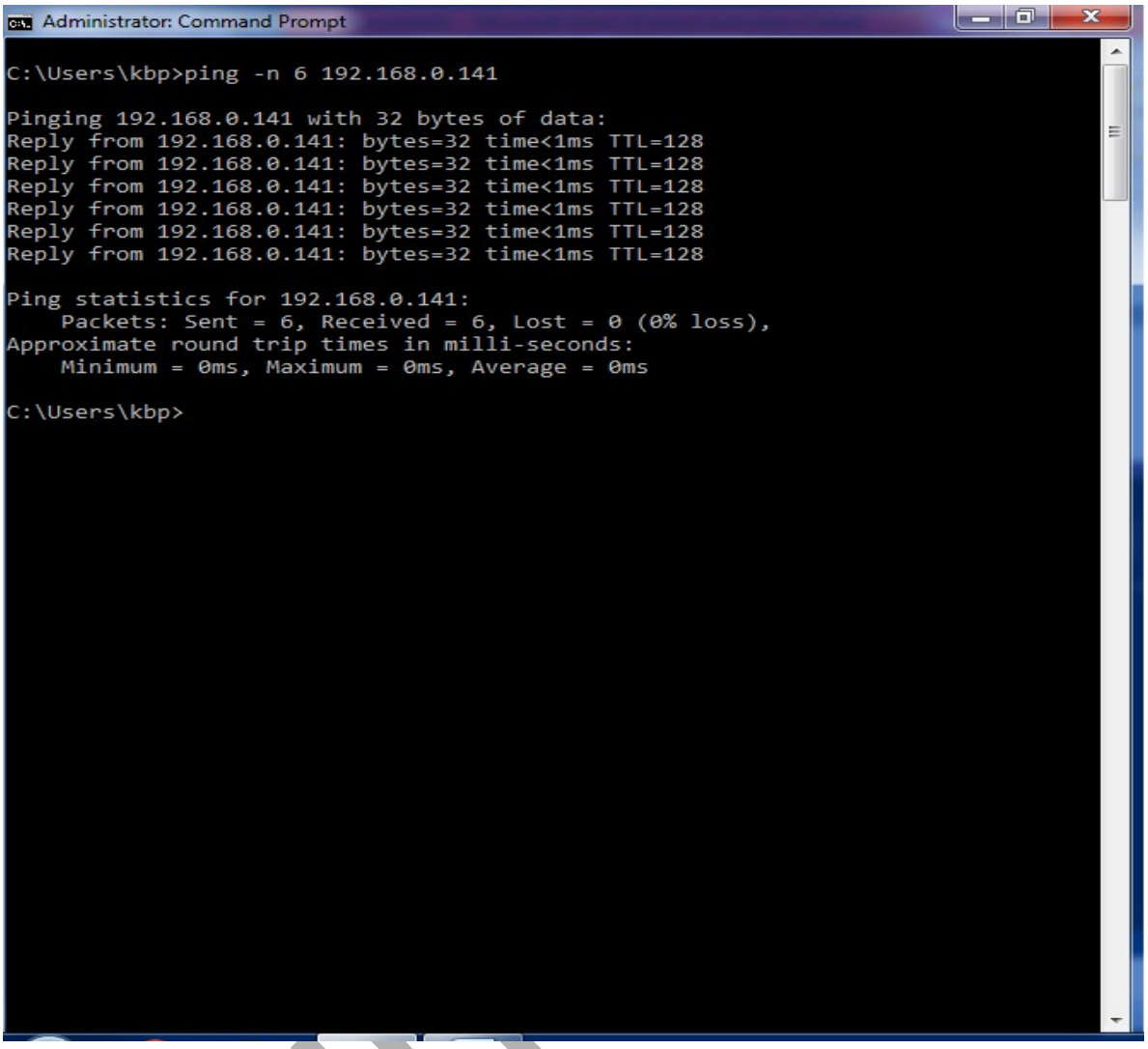
netstat –e

```
  None

C:\Users\kbp>netstat -e
Interface Statistics

                           Received            Sent

Bytes                      86455954        11171063
Unicast packets               72658           69430
Non-unicast packets          269768           28724
Discards                          0               0
Errors                            0               0
Unknown protocols                 0

C:\Users\kbp>
C:\Users\kbp>_
```

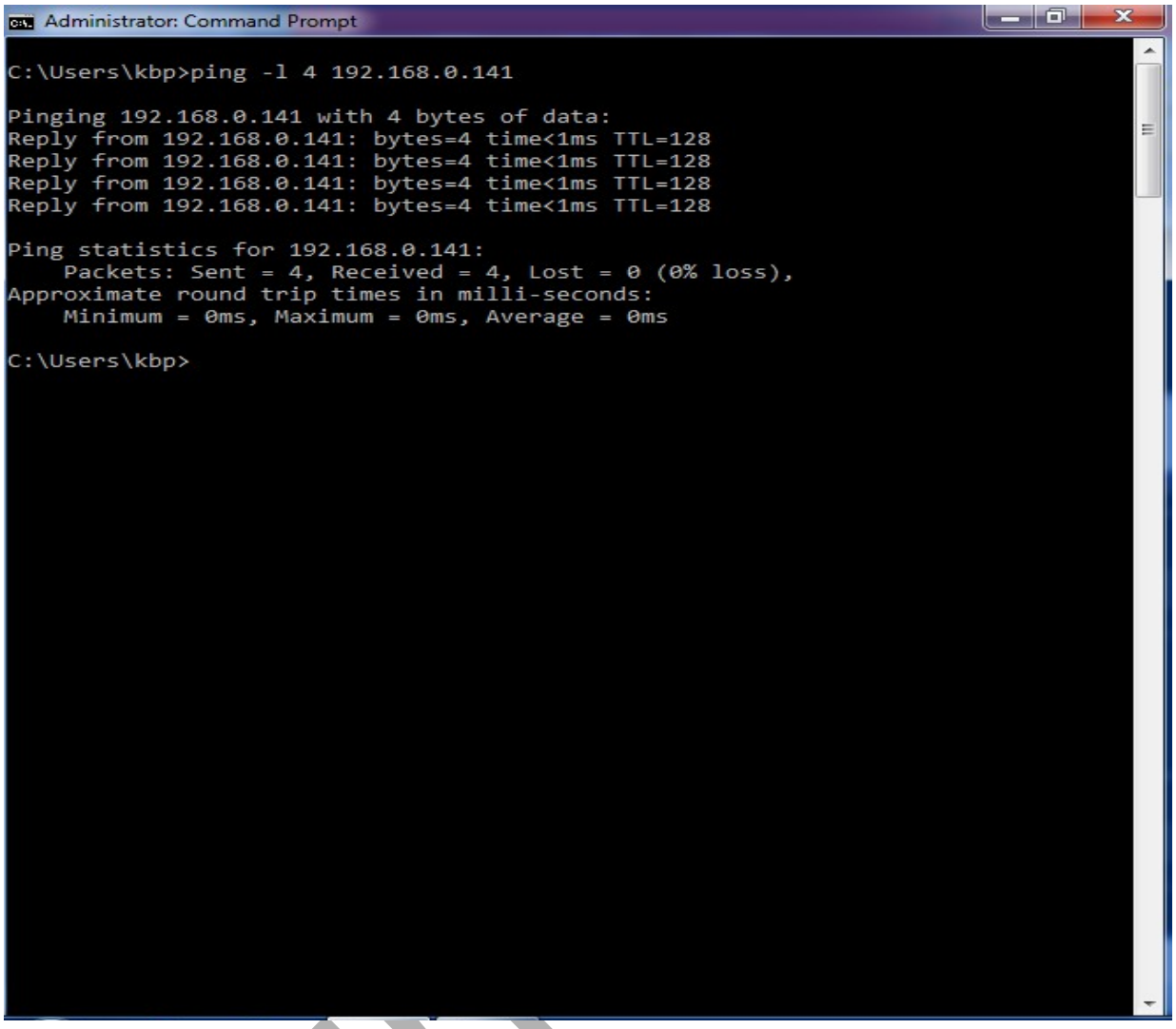
Ping google.com

```
Administrator: Command Prompt
C:\Users\kbp>ping google.com

Pinging google.com [216.58.220.174] with 32 bytes of data:
Reply from 216.58.220.174: bytes=32 time=3ms TTL=58
Reply from 216.58.220.174: bytes=32 time=10ms TTL=58
Reply from 216.58.220.174: bytes=32 time=2ms TTL=58
Reply from 216.58.220.174: bytes=32 time=2ms TTL=58

Ping statistics for 216.58.220.174:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 10ms, Average = 4ms

C:\Users\kbp>
```

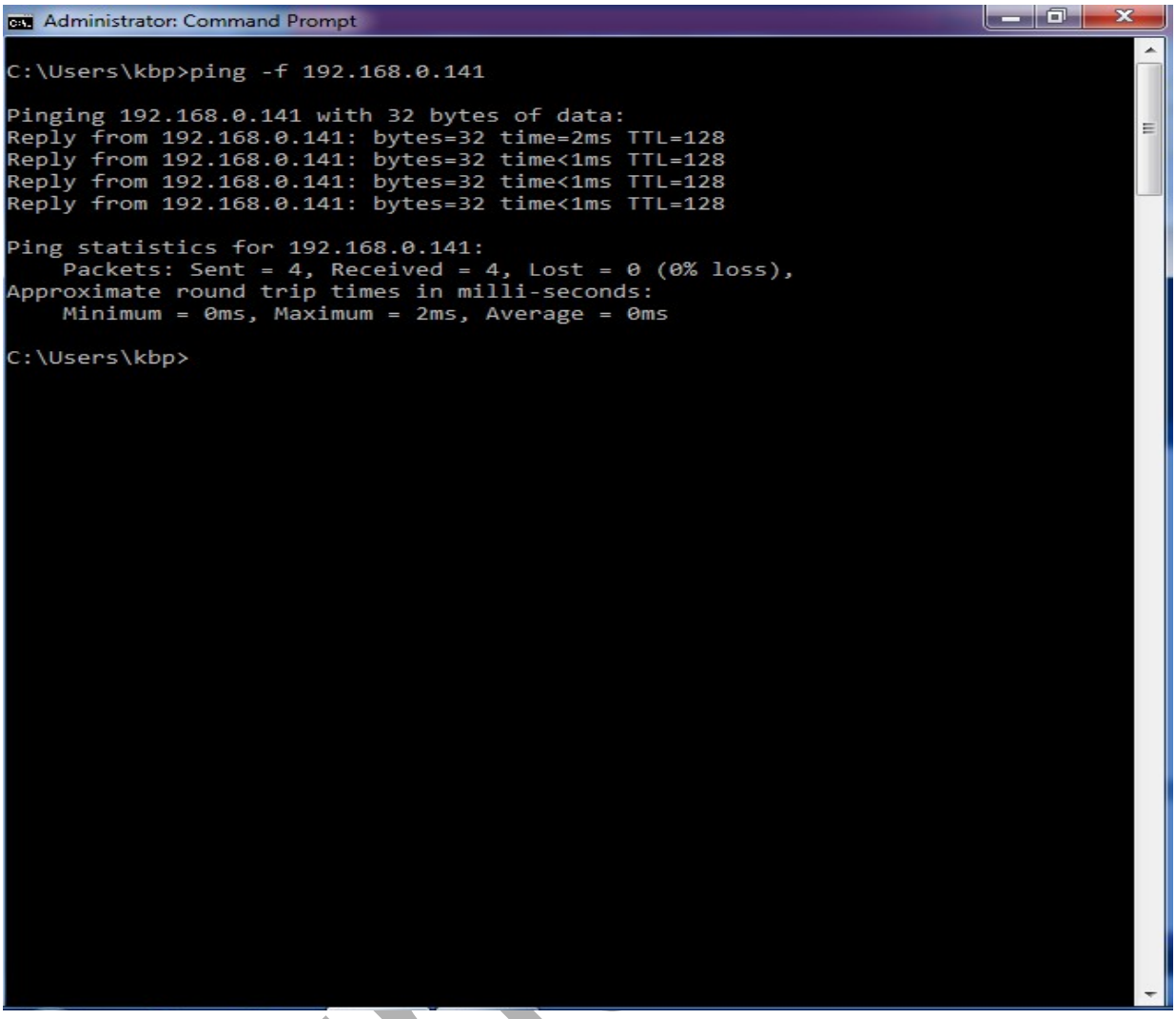
ping -n 6 192.168.0.141



ping –l 4 192.168.0.141



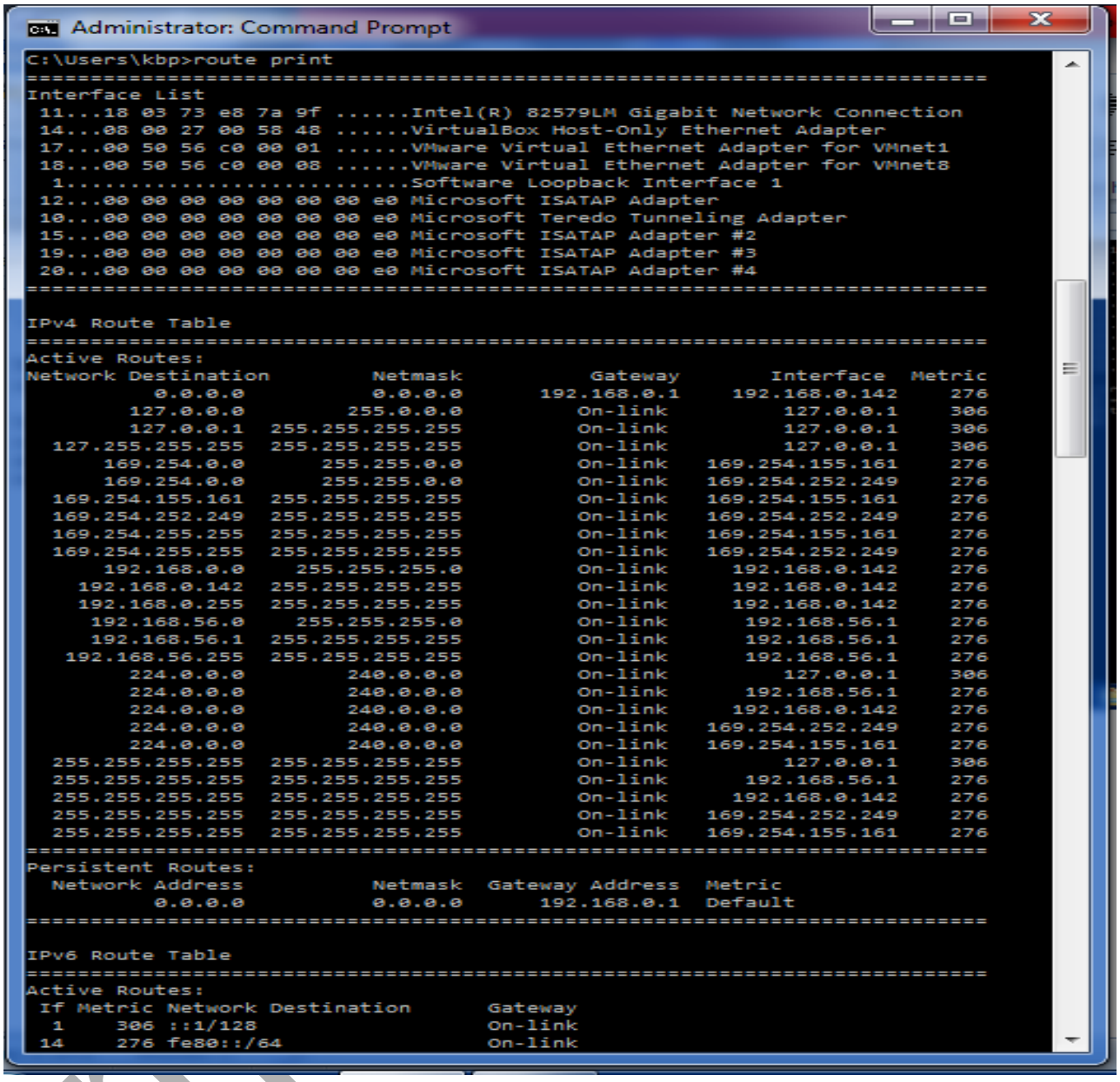
ping –f 192.168.0.141


Administrator: Command Prompt
C:\Users\kbp>ping -f 192.168.0.141
Pinging 192.168.0.141 with 32 bytes of data:
Reply from 192.168.0.141: bytes=32 time=2ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.0.141:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 0ms
C:\Users\kbp>

ping –t 192.168.0.141

```
Administrator: Command Prompt

C:\Users\kbp>ping -t 192.168.0.141

Pinging 192.168.0.141 with 32 bytes of data:
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.141:
    Packets: Sent = 11, Received = 11, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
Control-C
^C
C:\Users\kbp>
```

route print


Administrator: Command Prompt
C:\Users\kbp>route print
Interface List
11...18 03 73 e8 7a 9f ......Intel(R) 82579LM Gigabit Network Connection
14...08 00 27 00 58 48 ......VirtualBox Host-Only Ethernet Adapter
17...00 50 56 c0 00 01 ......VMware Virtual Ethernet Adapter for VMnet1
18...00 50 56 c0 00 08 ......VMware Virtual Ethernet Adapter for VMnet8
1...........................Software Loopback Interface 1
12...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter
10...00 00 00 00 00 00 00 e0 Microsoft Teredo Tunneling Adapter
15...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #2
19...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #3
20...00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #4
IPv4 Route Table
Active Routes:
Network Destination Netmask Gateway Interface Metric
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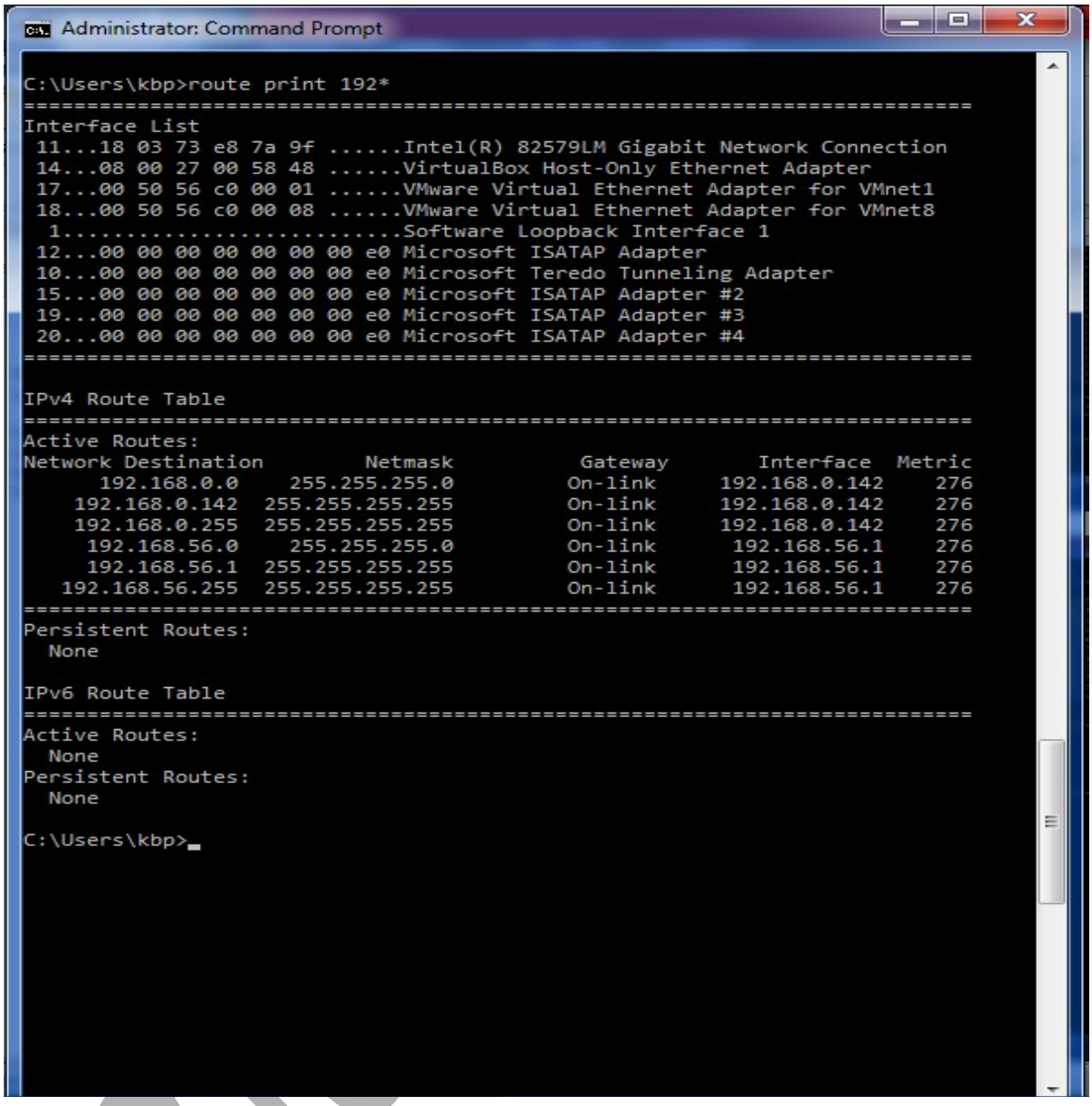
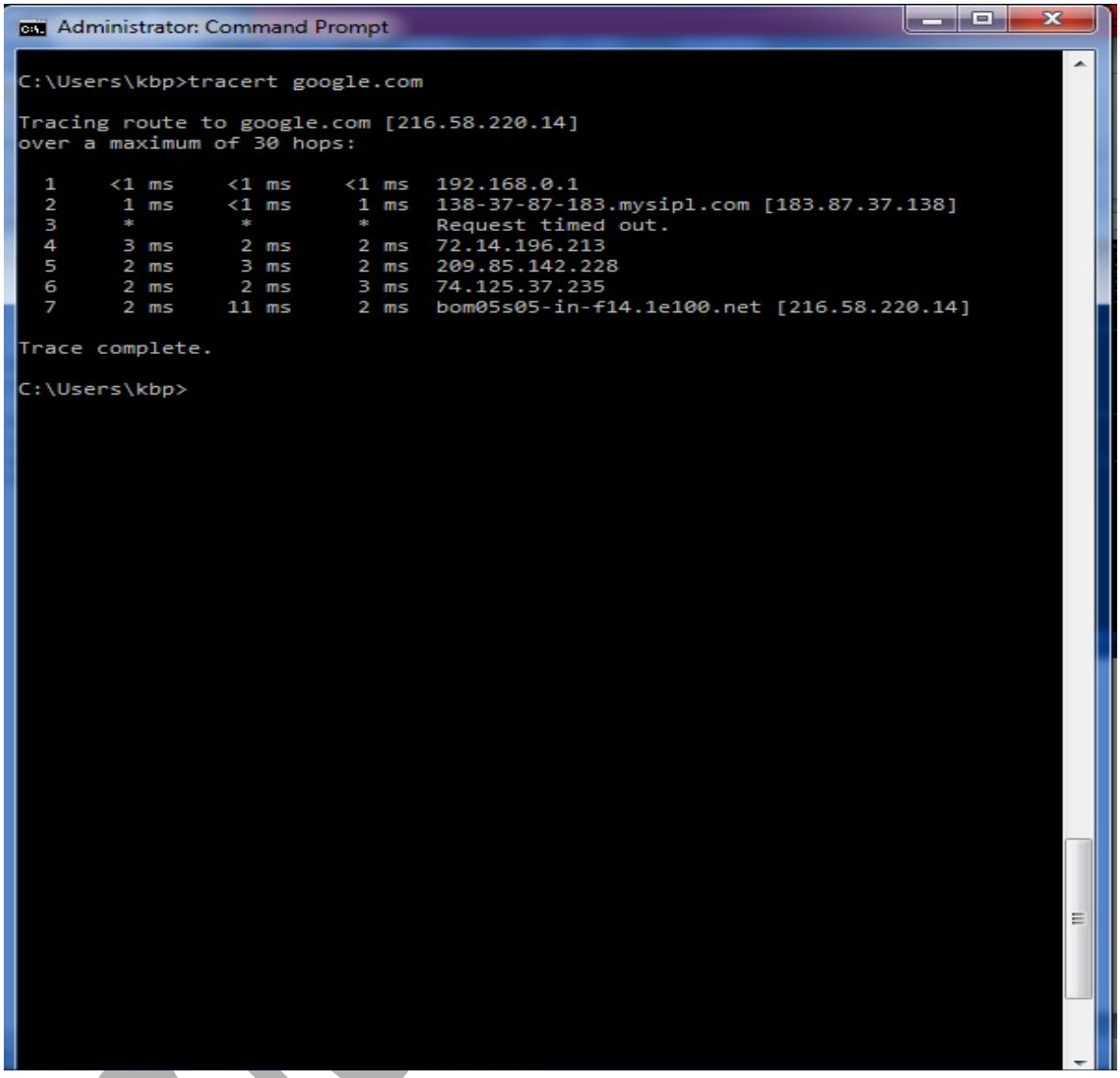
127.0.0.0 255.0.0.0 On-link 127.0.0.1 306
127.0.0.1 255.255.255.255 On-link 127.0.0.1 306
127.255.255.255 255.255.255.255 On-link 127.0.0.1 306
169.254.0.0 255.255.0.0 On-link 169.254.155.161 276
169.254.0.0 255.255.0.0 On-link 169.254.252.249 276
169.254.155.161 255.255.255.255 On-link 169.254.155.161 276
169.254.252.249 255.255.255.255 On-link 169.254.252.249 276
169.254.255.255 255.255.255.255 On-link 169.254.155.161 276
169.254.255.255 255.255.255.255 On-link 169.254.252.249 276
192.168.0.0 255.255.255.0 On-link 192.168.0.142 276
192.168.0.142 255.255.255.255 On-link 192.168.0.142 276
192.168.0.255 255.255.255.255 On-link 192.168.0.142 276
192.168.56.0 255.255.255.0 On-link 192.168.56.1 276
192.168.56.1 255.255.255.255 On-link 192.168.56.1 276
192.168.56.255 255.255.255.255 On-link 192.168.56.1 276
224.0.0.0 240.0.0.0 On-link 127.0.0.1 306
224.0.0.0 240.0.0.0 On-link 192.168.56.1 276
224.0.0.0 240.0.0.0 On-link 192.168.0.142 276
224.0.0.0 240.0.0.0 On-link 169.254.252.249 276
224.0.0.0 240.0.0.0 On-link 169.254.155.161 276
255.255.255.255 255.255.255.255 On-link 127.0.0.1 306
255.255.255.255 255.255.255.255 On-link 192.168.56.1 276
255.255.255.255 255.255.255.255 On-link 192.168.0.142 276
255.255.255.255 255.255.255.255 On-link 169.254.252.249 276
255.255.255.255 255.255.255.255 On-link 169.254.155.161 276
Persistent Routes:
Network Address Netmask Gateway Address Metric
0.0.0.0 0.0.0.0 192.168.0.1 Default
IPv6 Route Table
Active Routes:
If Metric Network Destination Gateway
1 306 ::1/128 On-link
14 276 fe80::/64 On-link

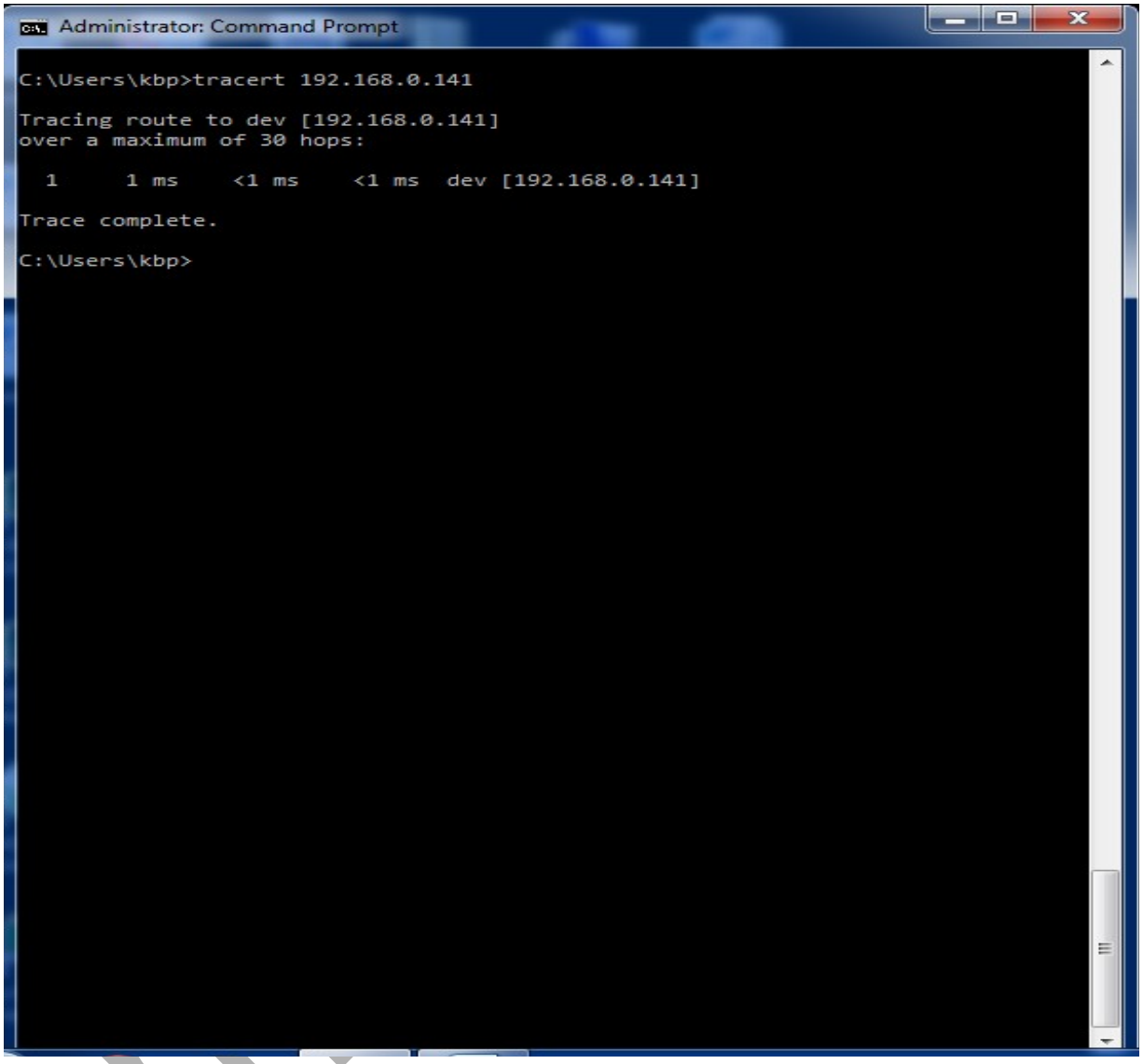
ping print 192*



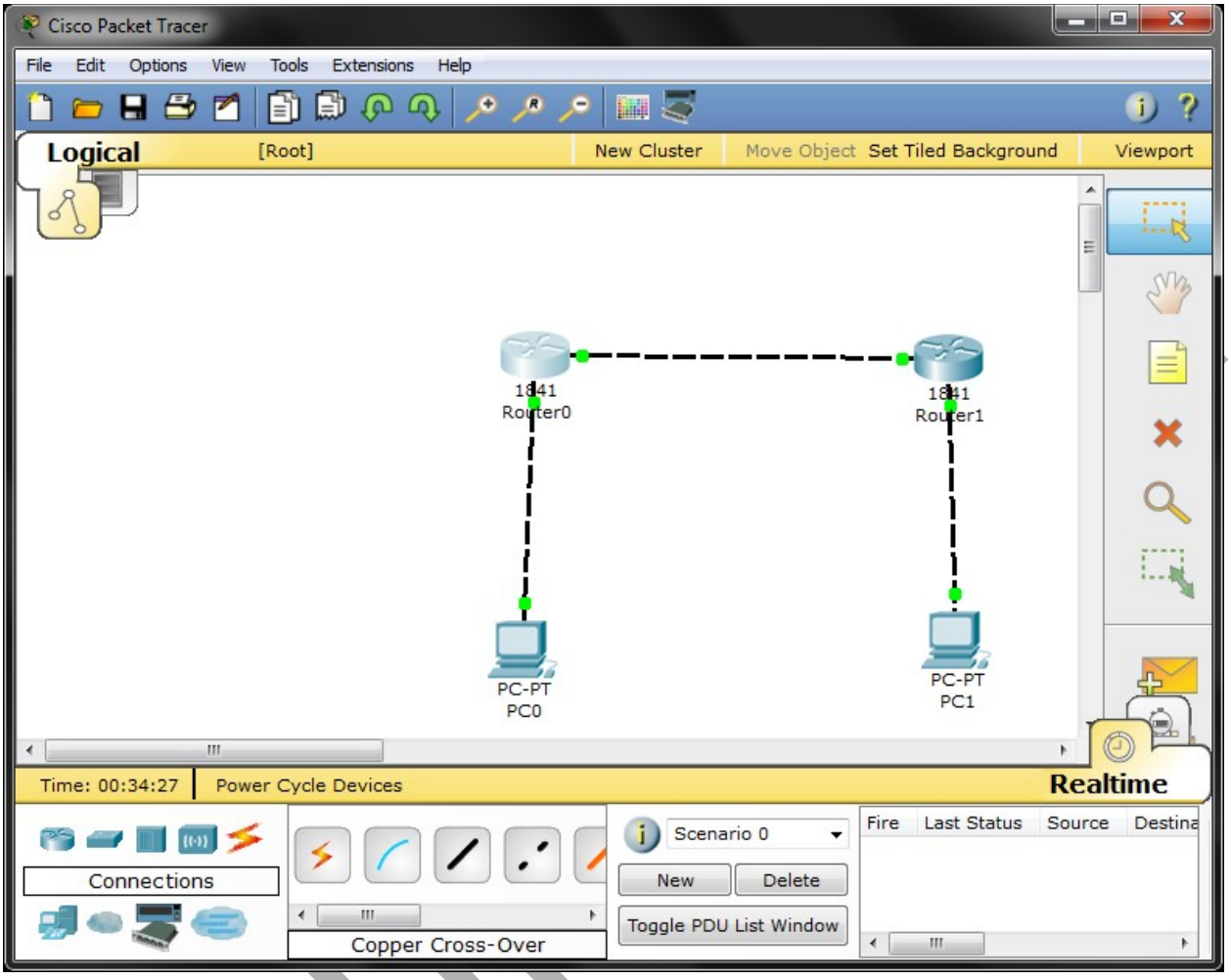
tracert google.com



tracert 103.213.213.226



Practical No-3



Router r0

Router>en

Router#config t

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

Router(config)#hostname r1

r1(config)#interface f0/0

r1(config-if)#ip address 10.0.0.1 255.0.0.0

r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

r1(config)#interface f0/1

r1(config-if)#ip address 20.0.0.1 255.0.0.0

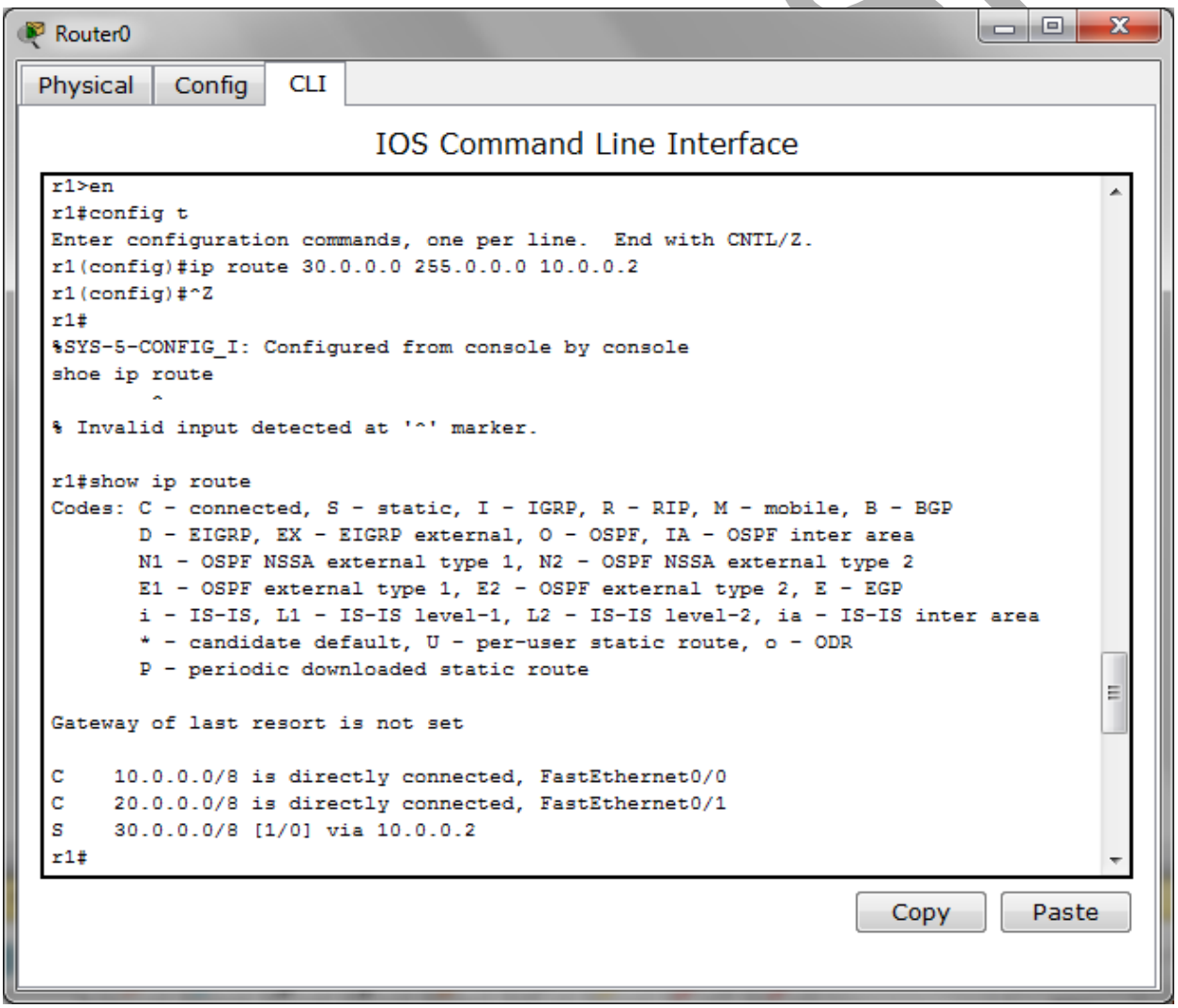
r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

r1(config-if)#exit

r1(config)#



Router r1

Router>en

Router#config t

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

Router(config)#hostname r2

r2(config)#interface f0/0

r2(config-if)#ip address 10.0.0.2 255.0.0.0

r2(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

r2(config-if)#exit

r2(config)#interface f0/1

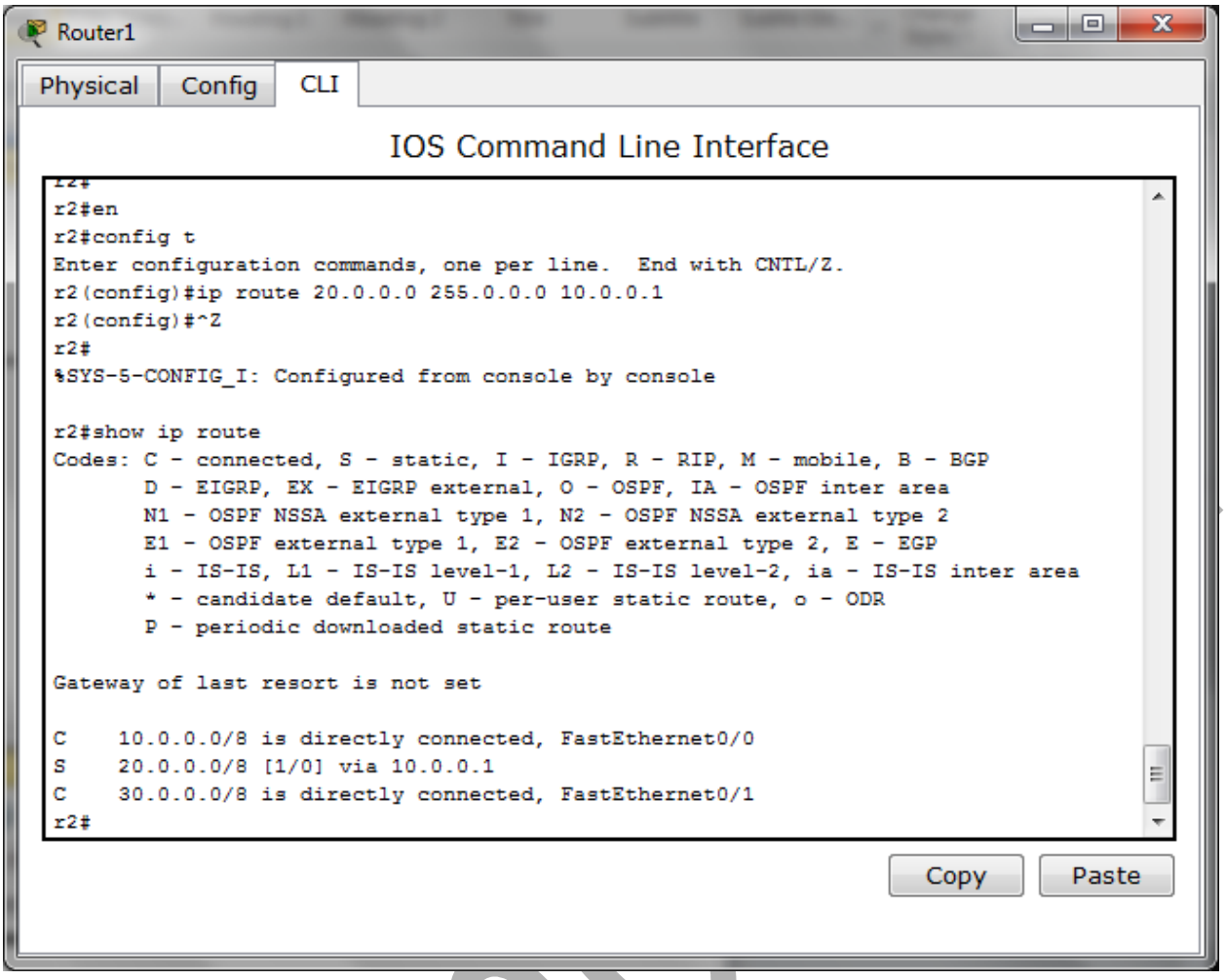
r2(config-if)#ip address 30.0.0.1 255.0.0.0

r2(config-if)#no shut

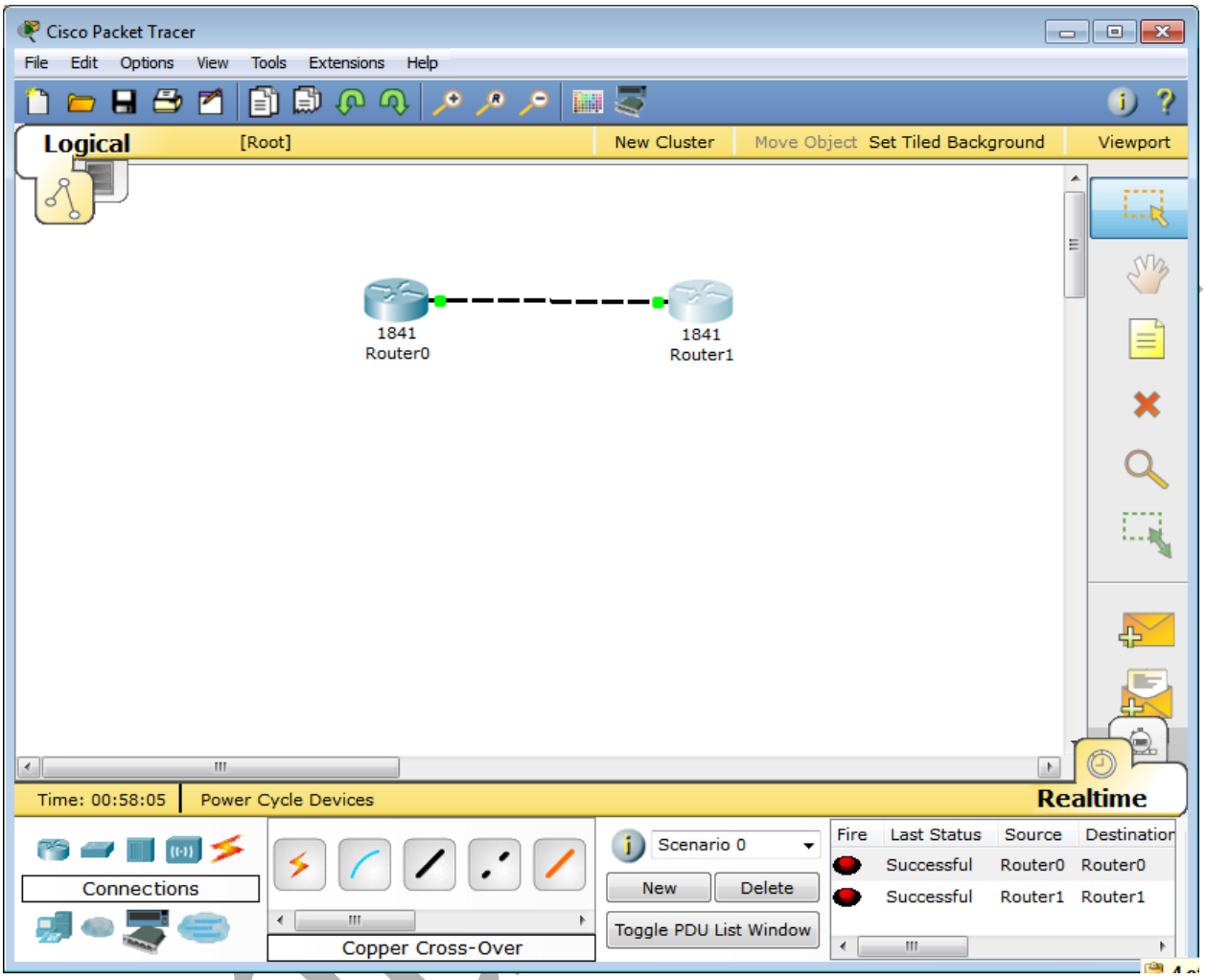
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

r2(config-if)#exit

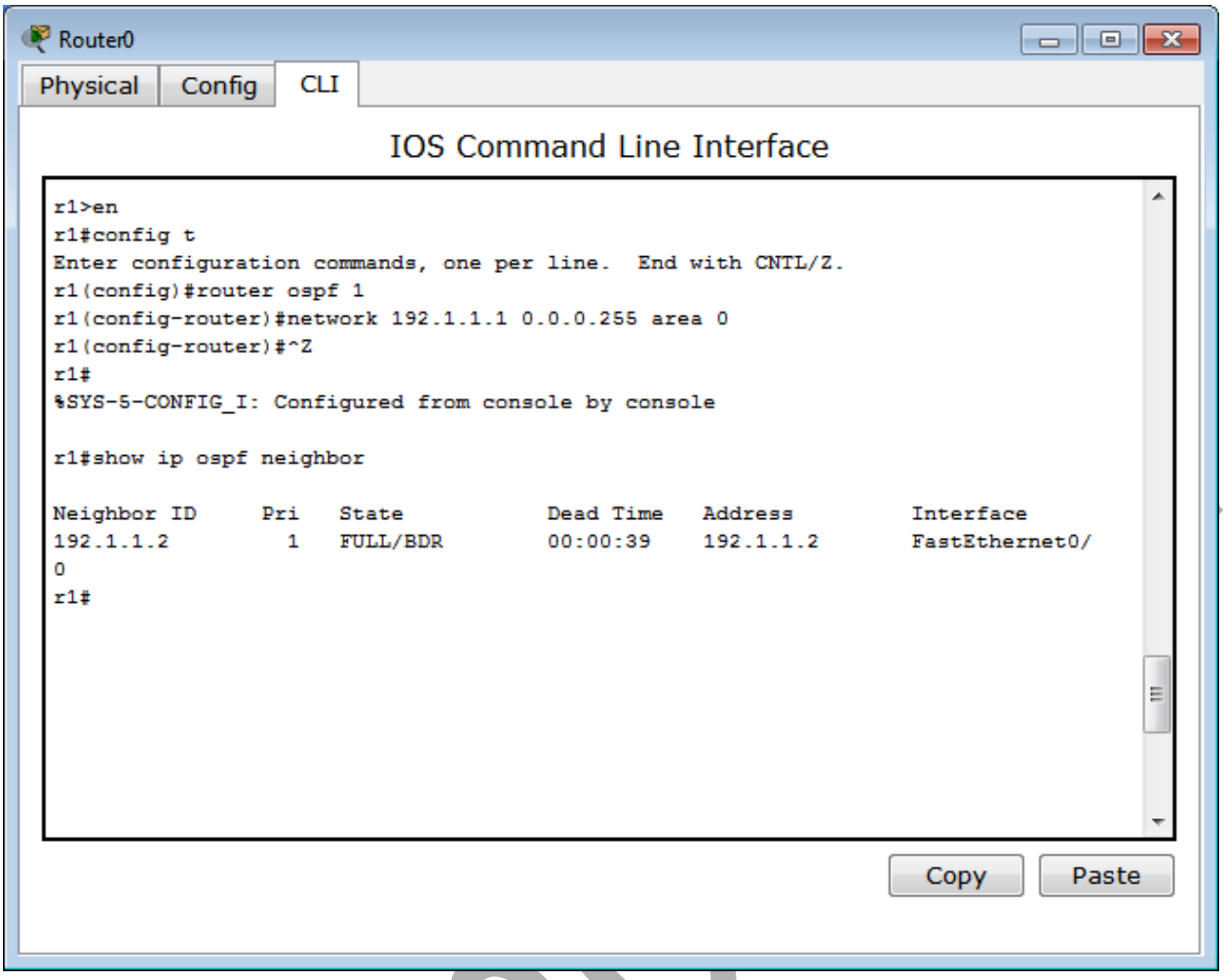

Router1
Physical
Config
CLI
IOS Command Line Interface
r2#
r2#en
r2#config t
Enter configuration commands, one per line. End with CNTL/Z.
r2(config)#ip route 20.0.0.0 255.0.0.0 10.0.0.1
r2(config)#^Z
r2#
%SYS-5-CONFIG_I: Configured from console by console
r2#show ip route
Codes: C - connected, S - static, 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
S 20.0.0.0/8 [1/0] via 10.0.0.1
C 30.0.0.0/8 is directly connected, FastEthernet0/1
r2#
Copy
Paste

Practical No-5 (OSPF)



Router 0

```
Router>en

Router#config t

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

Router(config)#hostname r1

r1(config)#interface f0/0

r1(config-if)#ip address 192.1.1.1 255.255.255.0

r1(config-if)#no shut



%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

r1(config)#router ospf 1

r1(config-router)#network 192.1.1.1 0.0.0.255 area 0

r1(config-router)#^Z

r1#

%SYS-5-CONFIG_I: Configured from console by console

r1#show ip ospf neighbor

r1#
```

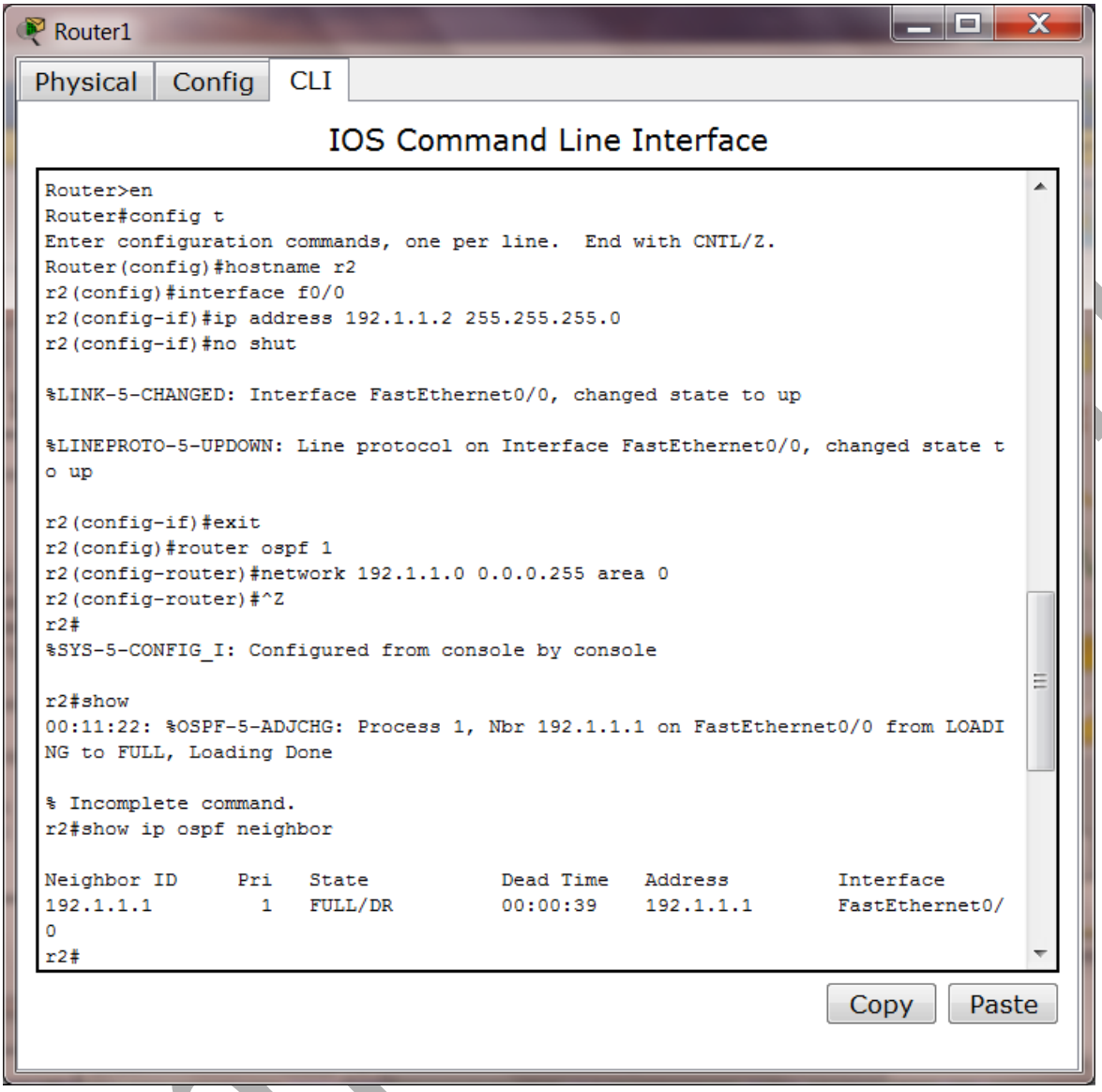


Router 1

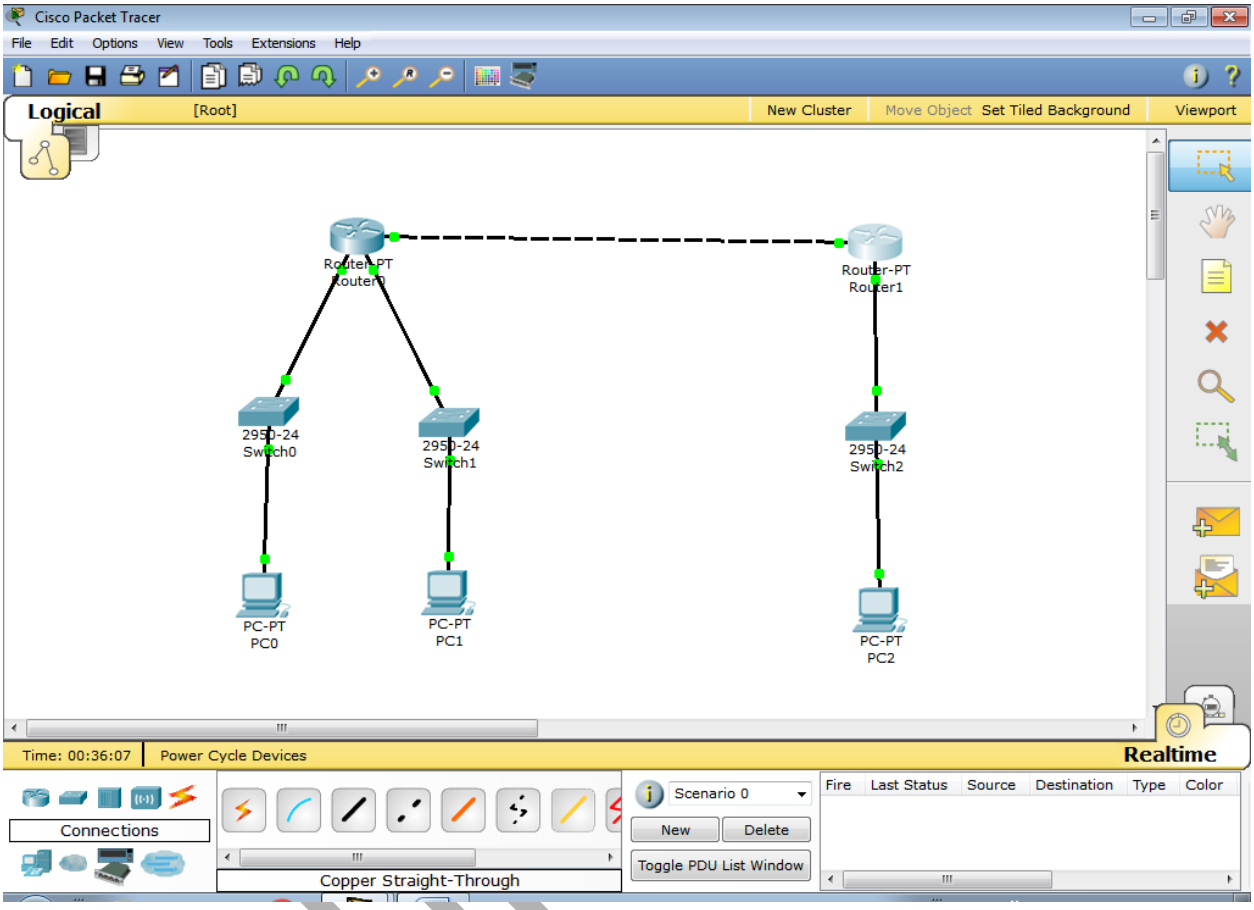
```
Router>en

Router#config t

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

Router(config)#hostname r2

r2(config)#interface f0/0

r2(config-if)#ip address 192.1.1.2 255.255.255.0

r2(config-if)#no shut


%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up


%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up


r2(config-if)#exit

r2(config)#router ospf 1

r2(config-router)#network 192.1.1.0 0.0.0.255 area 0

r2(config-router)#^Z

r2#

%SYS-5-CONFIG_I: Configured from console by console


r2#show

00:11:22: %OSPF-5-ADJCHG: Process 1, Nbr 192.1.1.1 on FastEthernet0/0 from LOADING to FULL, Loading Done


% Incomplete command.

r2#show ip ospf neighbor


Neighbor ID     Pri   State           Dead Time   Address         Interface
```

192.1.1.1 1 FULL/DR 00:00:39 192.1.1.1 FastEthernet0/0

r2#



Practical No:-4



Configure Router R0:

Router>en

Router#config t

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

Router(config)#interface f0/0

Router(config-if)#ip address 10.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#interface f1/0

Router(config-if)#ip address 20.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit

Router(config)#interface eth6/0

Router(config-if)#ip address 30.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface Ethernet6/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet6/0, changed state to up

Router(config-if)#exit

Configure Router R1 :

Router>en

Router#config t

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

Router(config)#interface f0/0

Router(config-if)#ip address 10.0.0.2 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#interface f1/0

Router(config-if)#ip address 40.0.0.1 255.0.0.0

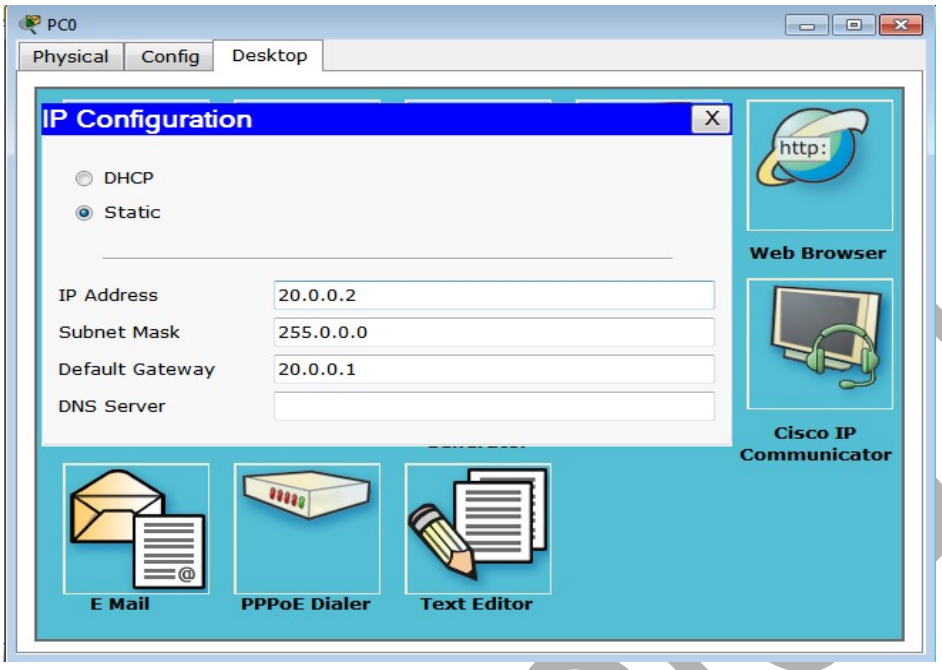
Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

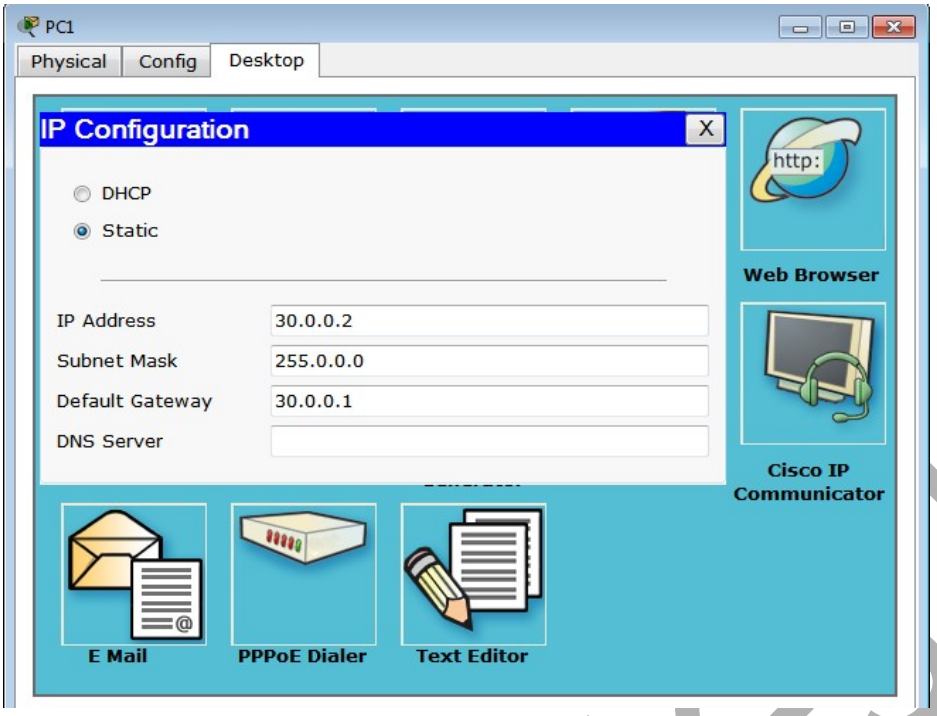
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit

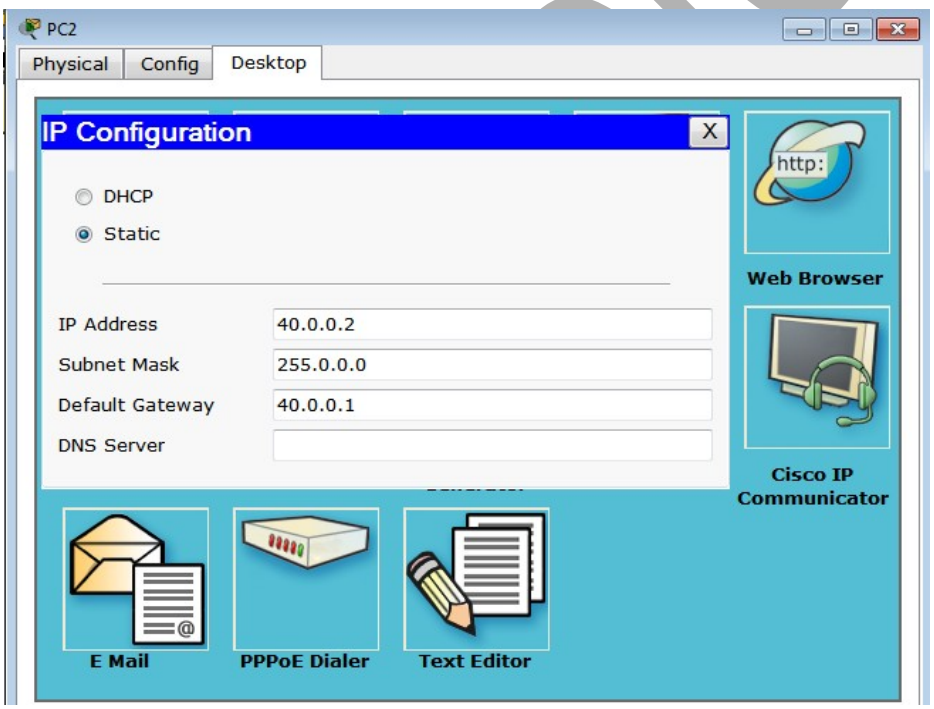
IP Configuration For PC0:



IP Configuration For PC1:



IP Configuration For PC2:



Configure RIP to Router R0:

Router>en

Router#config t

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

Router(config)#router rip

Router(config-router)#network?

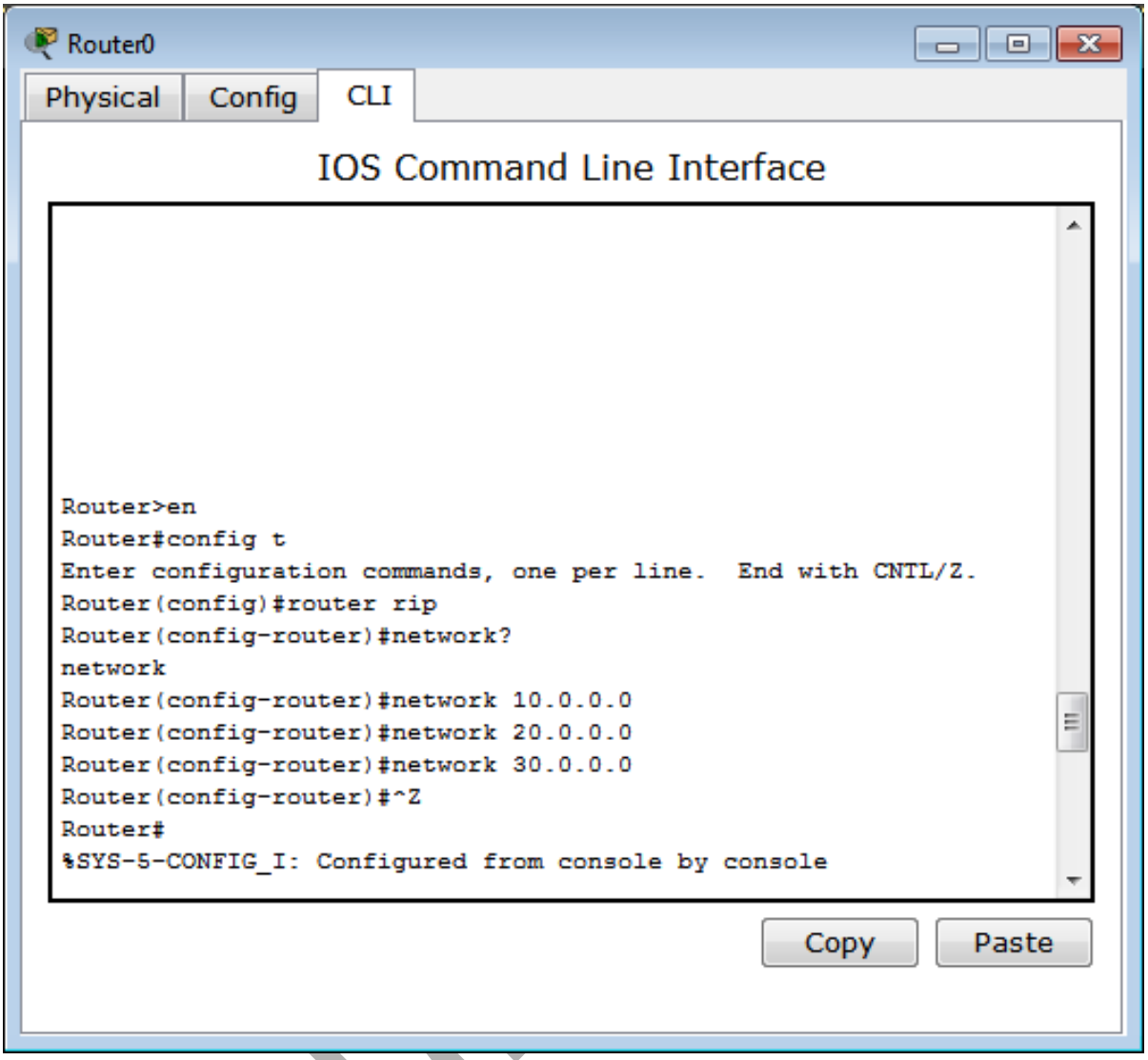
network

Router(config-router)#network 10.0.0.0

Router(config-router)#network 20.0.0.0

Router(config-router)#network 30.0.0.0

Router(config-router)#^Z



Configure RIP to Router R1:

Router>en

Router#config t

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

Router(config)#router rip

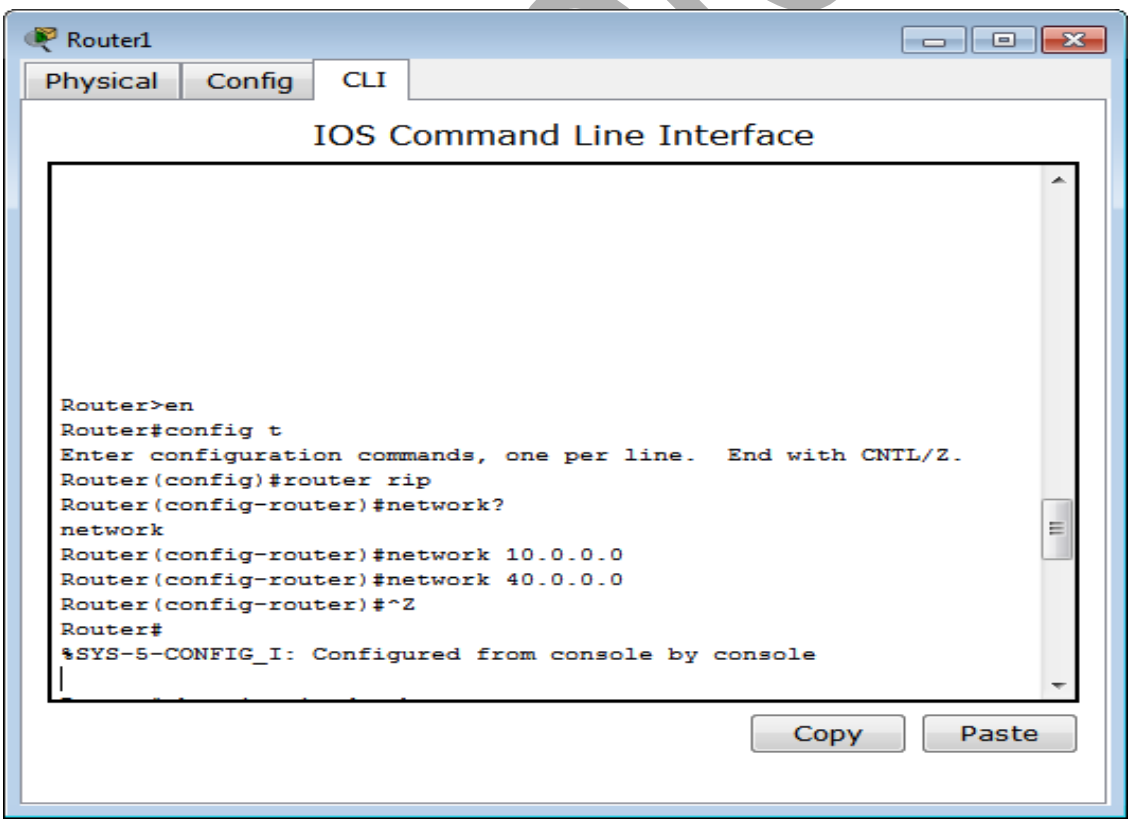
Router(config-router)#network?

network

Router(config-router)#network 10.0.0.0

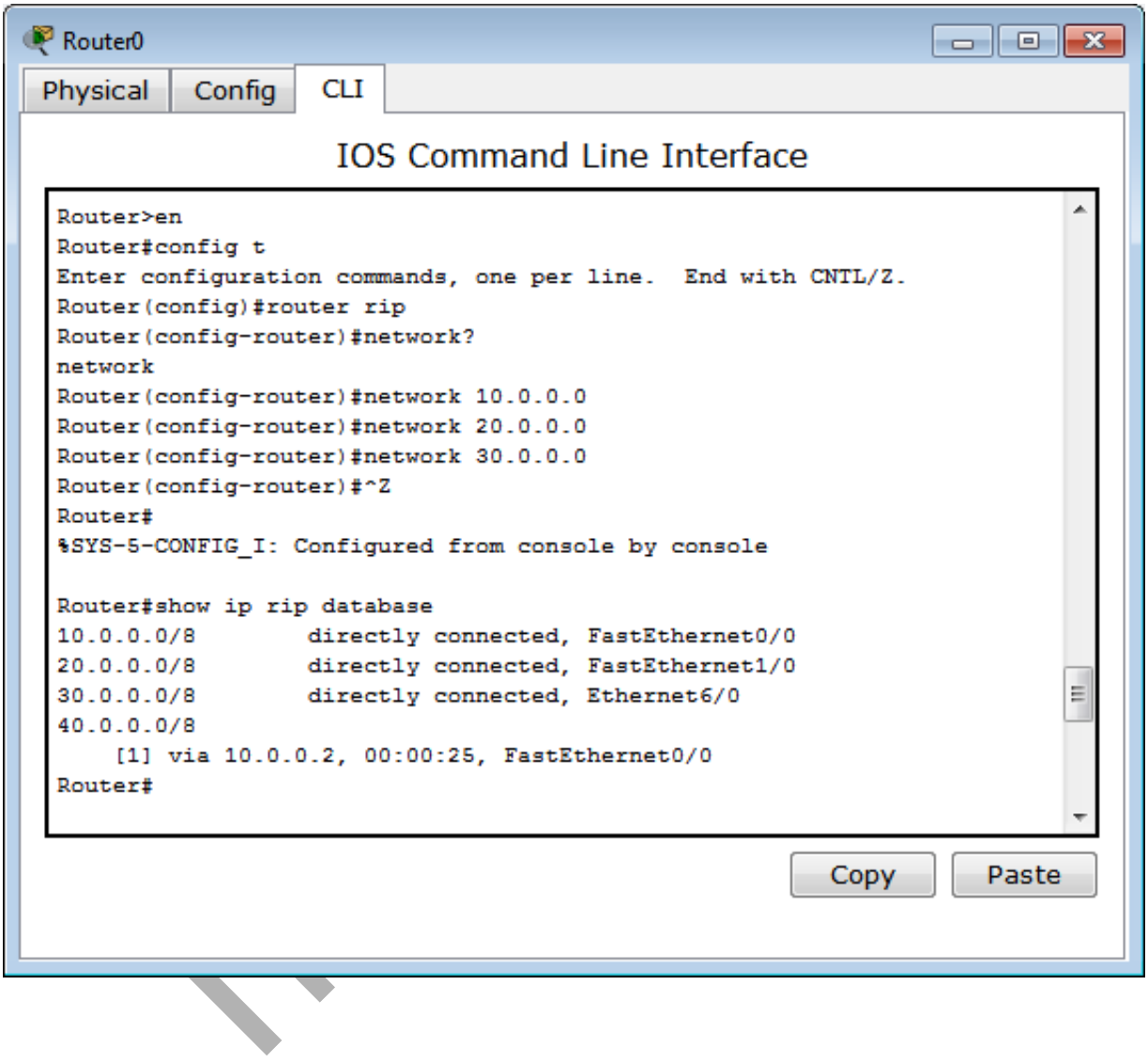
Router(config-router)#network 40.0.0.0

Router(config-router)#^Z



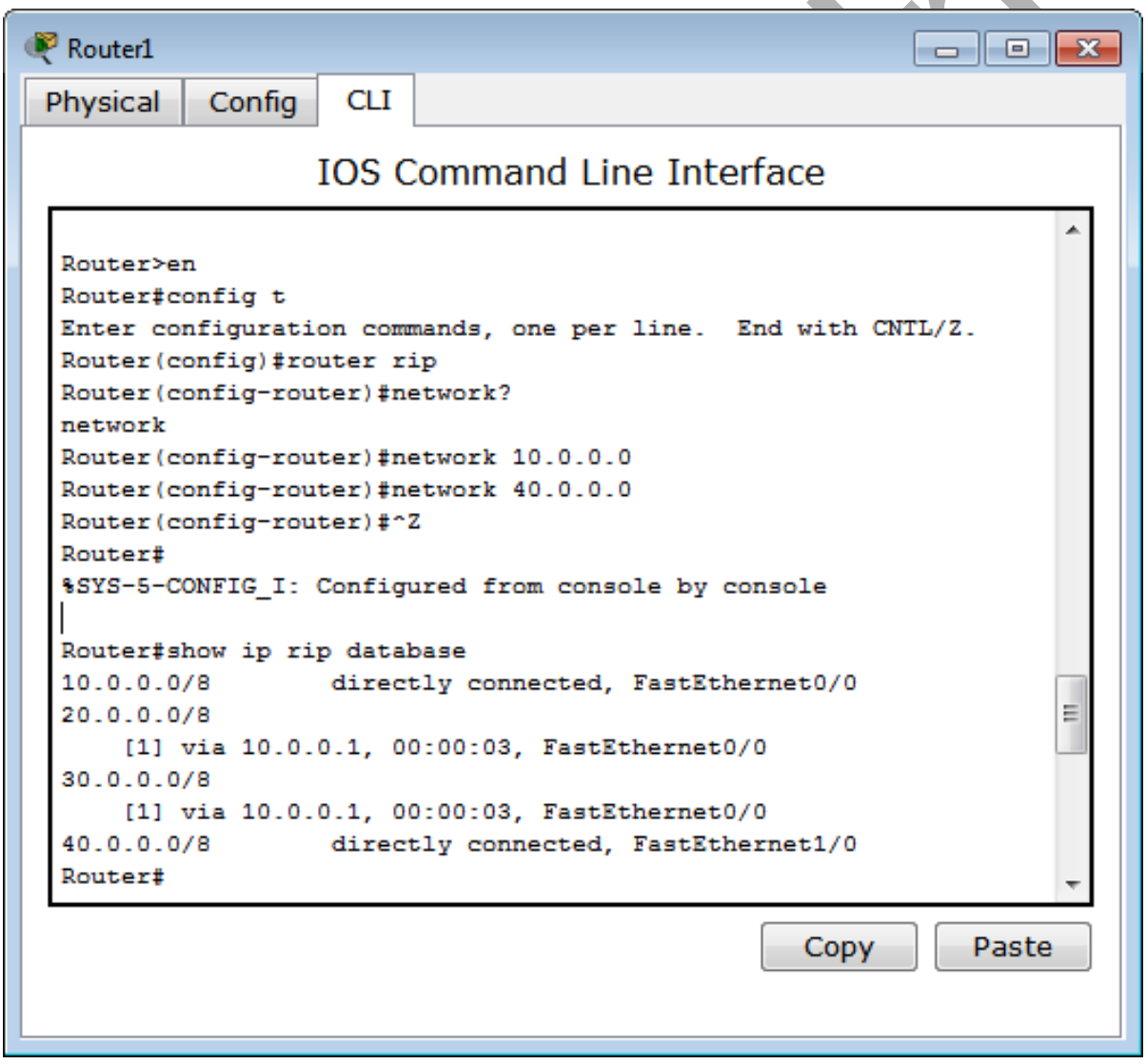
See Routing Table For Router R0:

Router#show ip rip database



See Routing Table For Router R1:

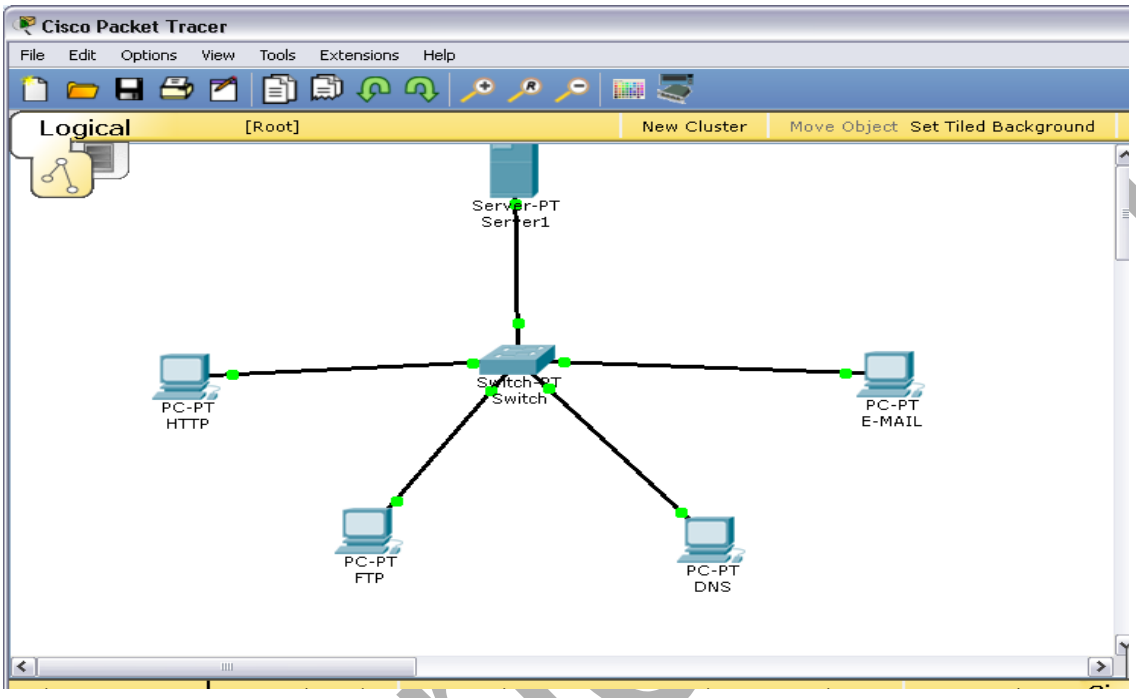
Router#show ip rip database



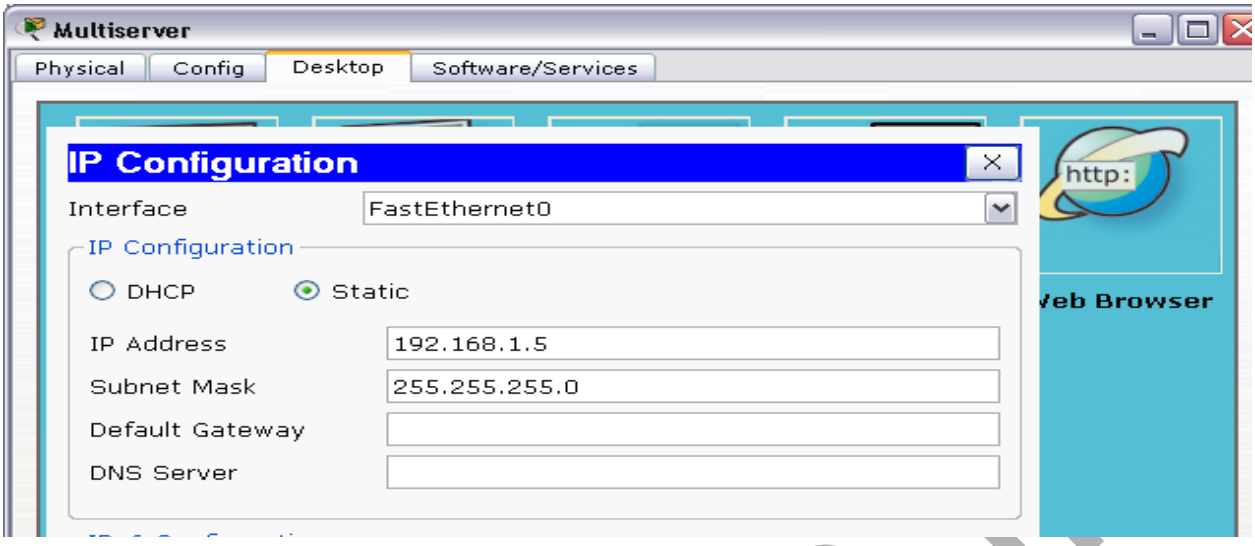
munotes.inPRACTICAL 6

Aim:Configuring UDP and TCP

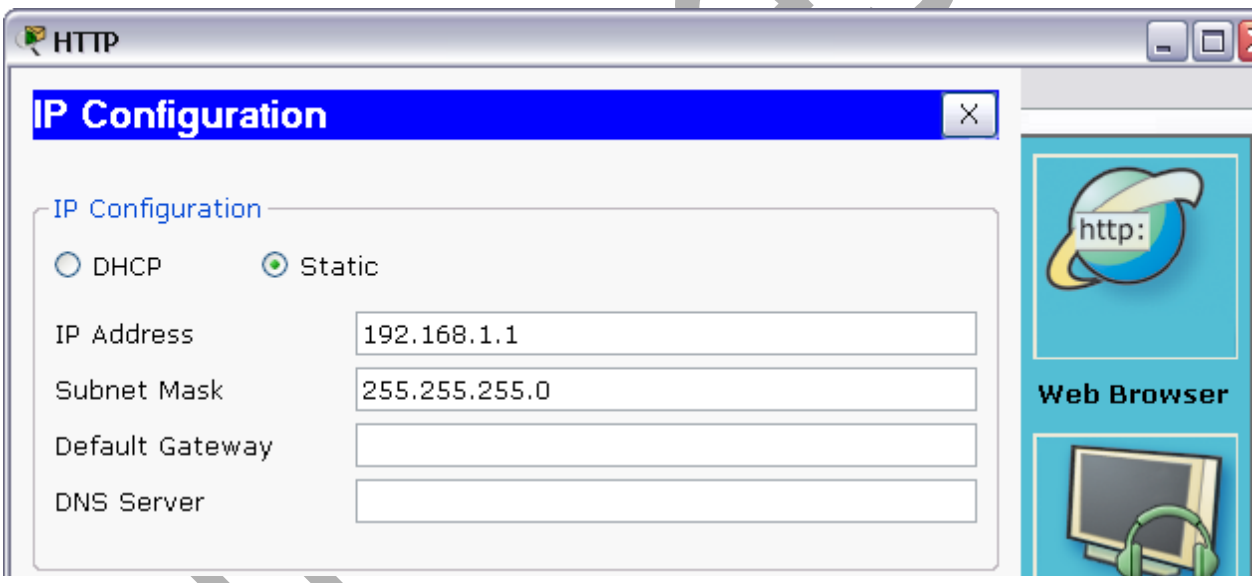
1] Click server/ Desktop/IP Configuration /Static [http client]:-



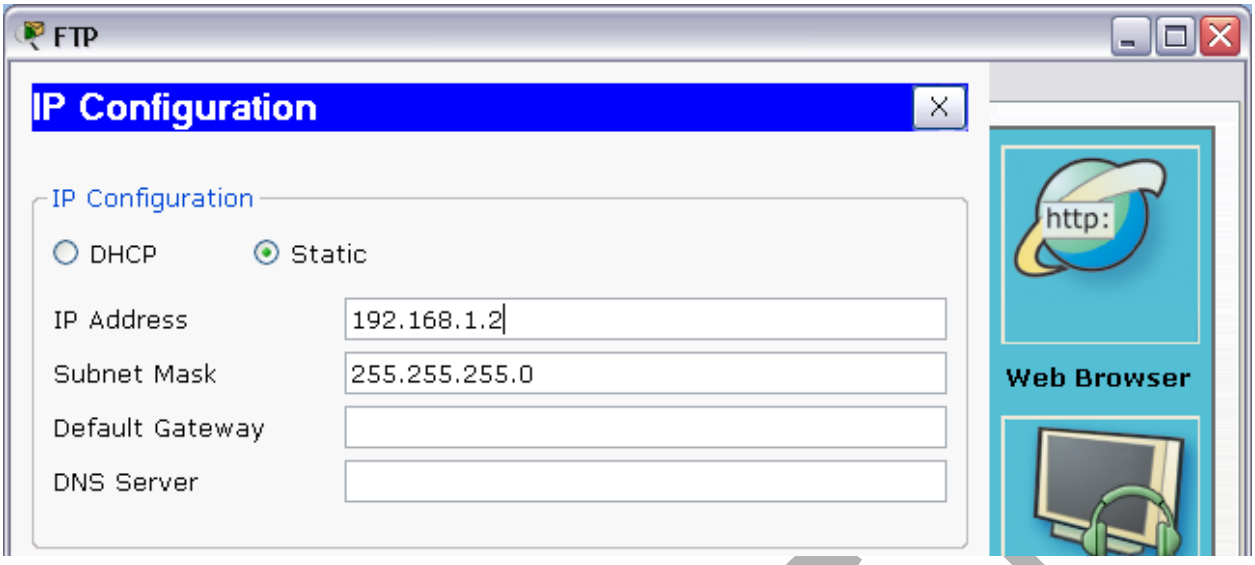
2] Click PC0/ Desktop/IP Configuration /Static [multiserver]:-



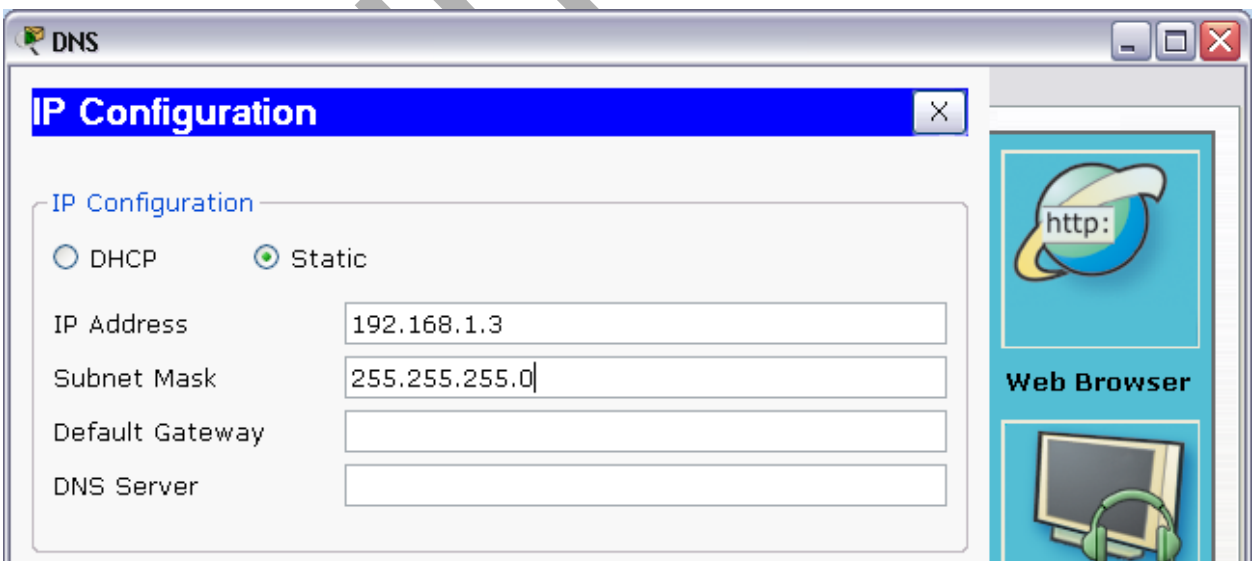
3] Click PC0/ Desktop/IP Configuration /Static [http client]:-



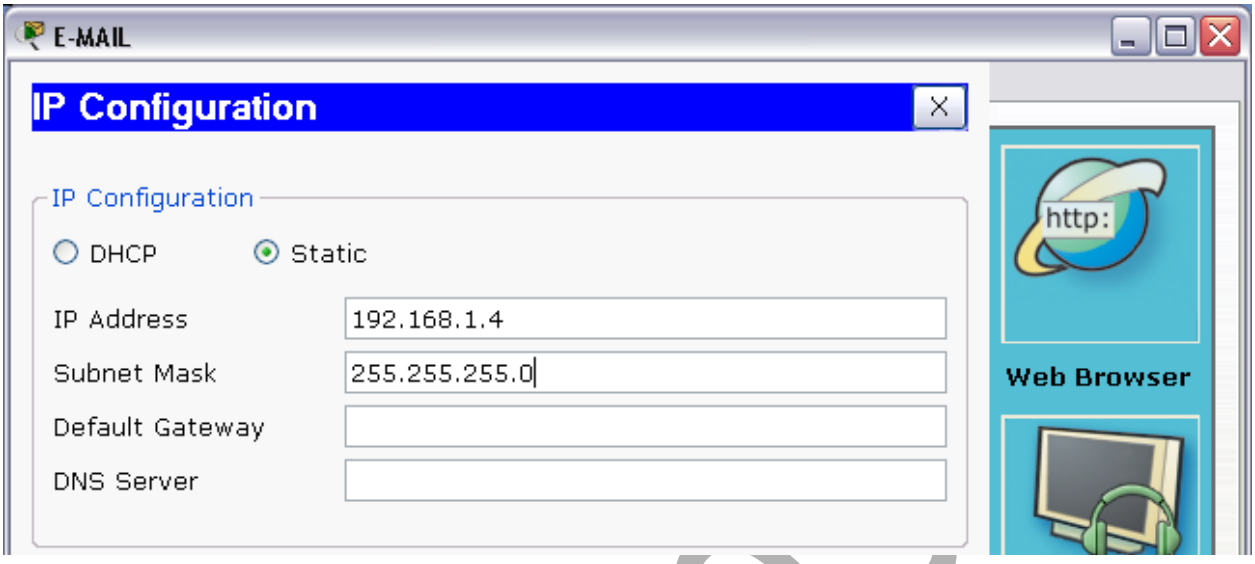
4] Click PC1/ Desktop/IP Configuration /Static [ftp client]:-



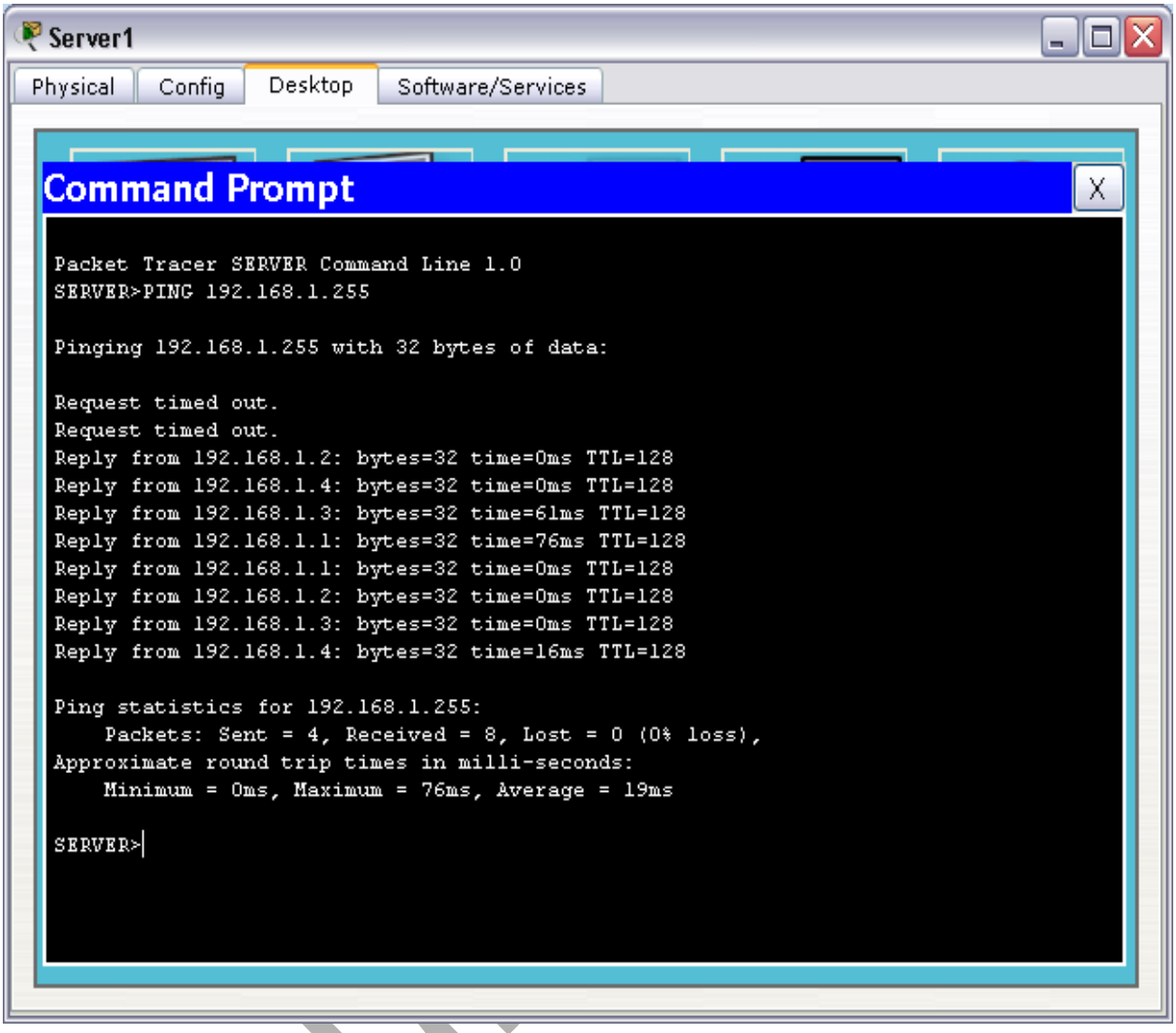
5] Click PC2/ Desktop/IP Configuration /Static [dns client]:-



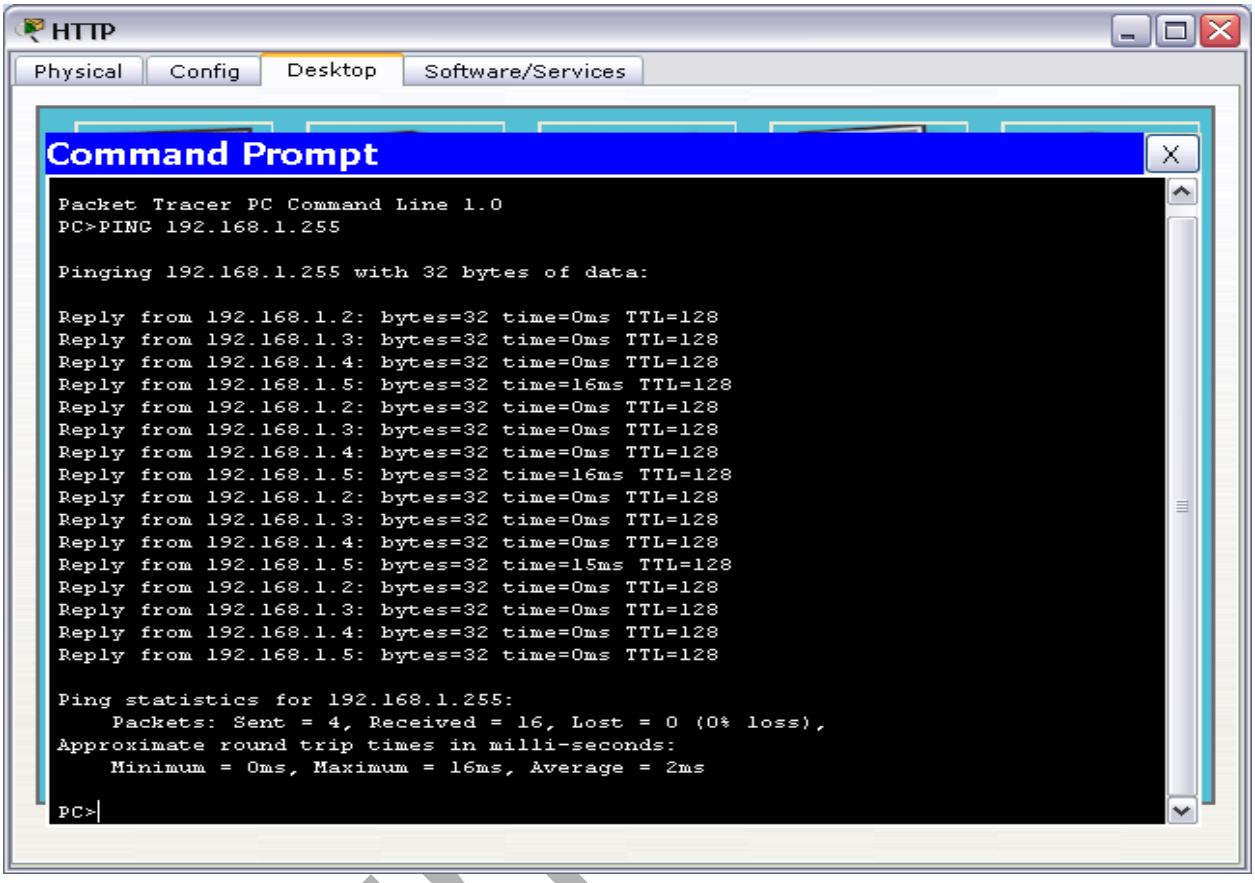
6] Click PC3/ Desktop/IP Configuration /Static [Email client]:-



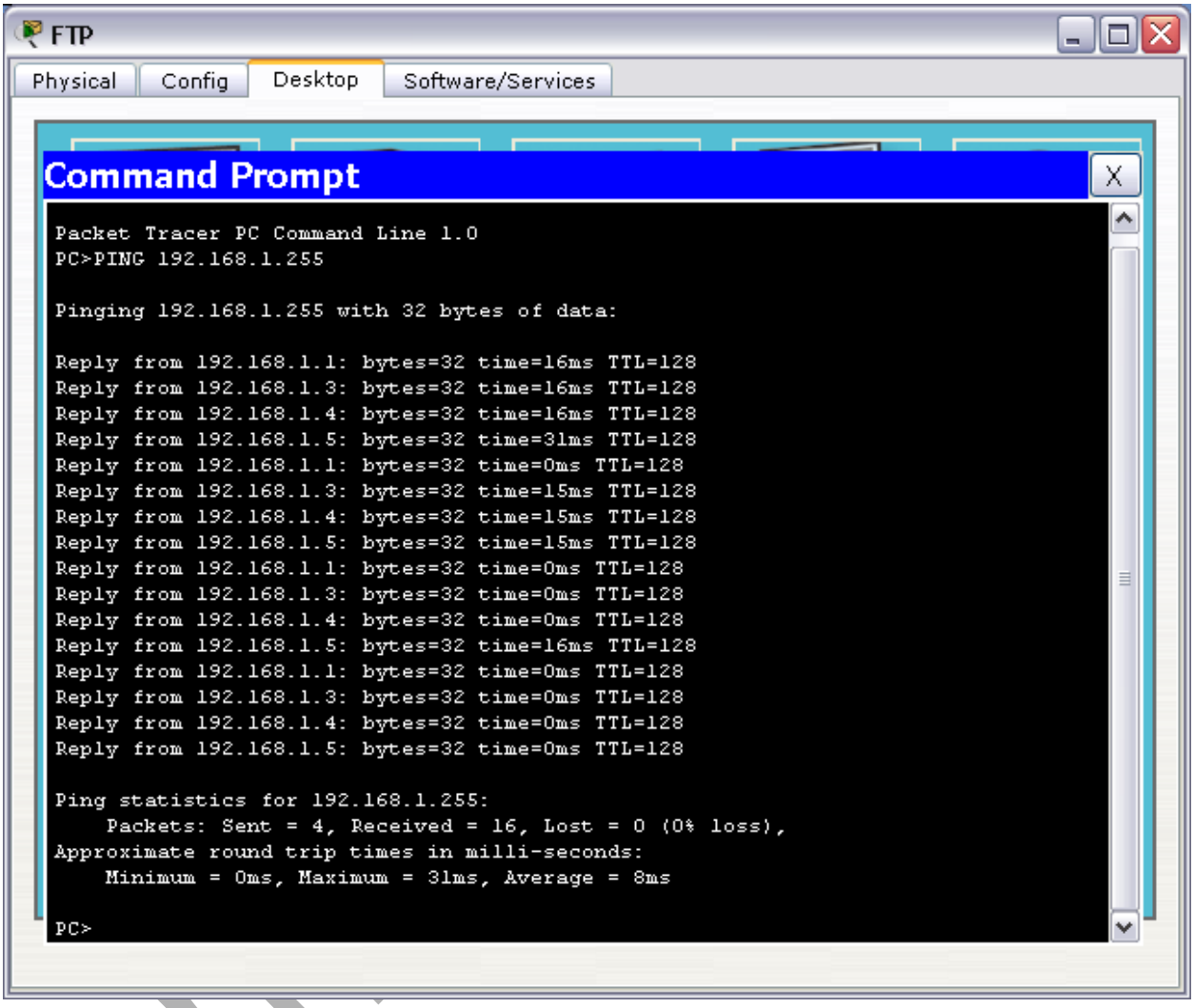
7] Command prompt for multiserver:-


Server1
Physical
Config
Desktop
Software/Services
Command Prompt
X
Packet Tracer SERVER Command Line 1.0
SERVER>PING 192.168.1.255
Pinging 192.168.1.255 with 32 bytes of data:
Request timed out.
Request timed out.
Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
Reply from 192.168.1.3: bytes=32 time=61ms TTL=128
Reply from 192.168.1.1: bytes=32 time=76ms TTL=128
Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
Reply from 192.168.1.4: bytes=32 time=16ms TTL=128
Ping statistics for 192.168.1.255:
Packets: Sent = 4, Received = 8, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 76ms, Average = 19ms
SERVER>

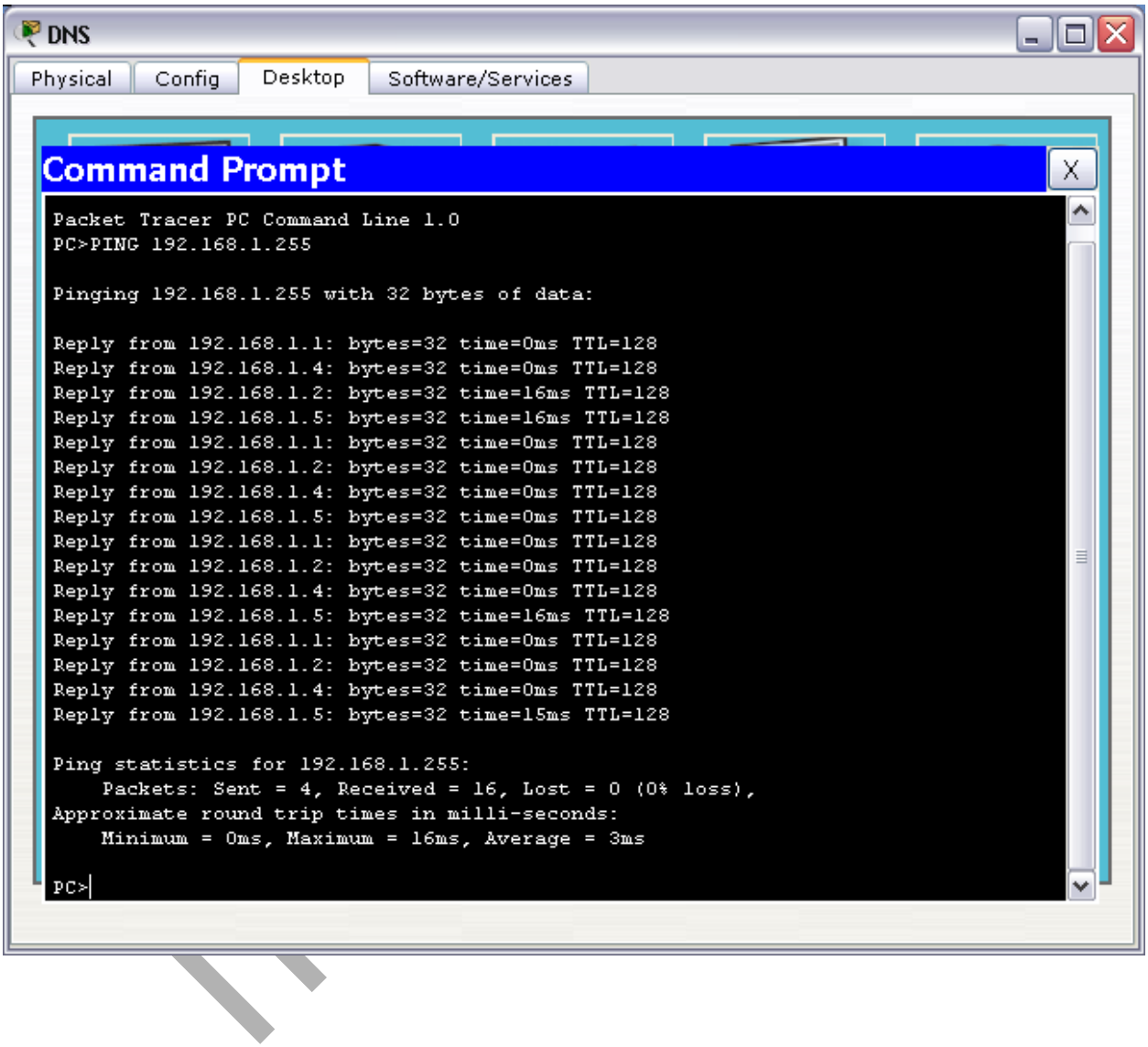
8] Command prompt for http client:-



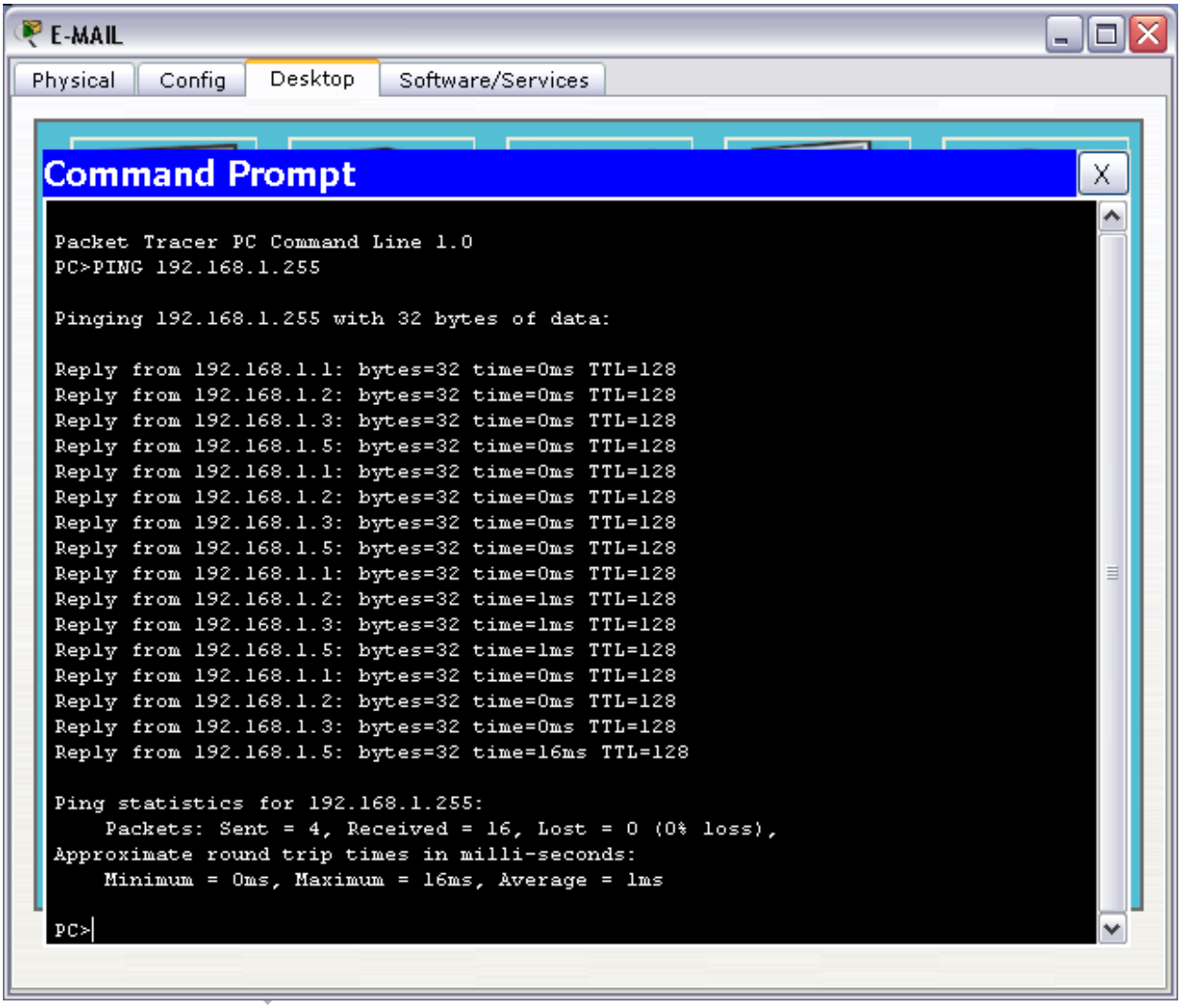
9] Command prompt for ftp client:-



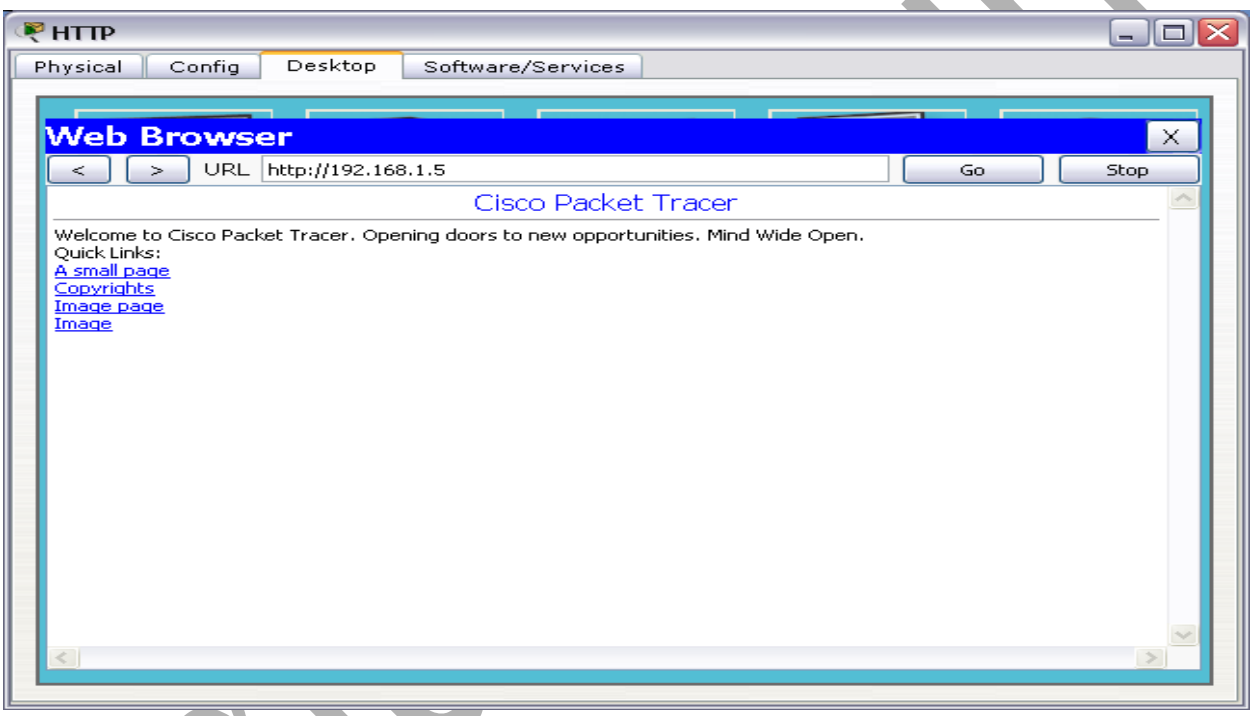
10] Command prompt for dns client:-



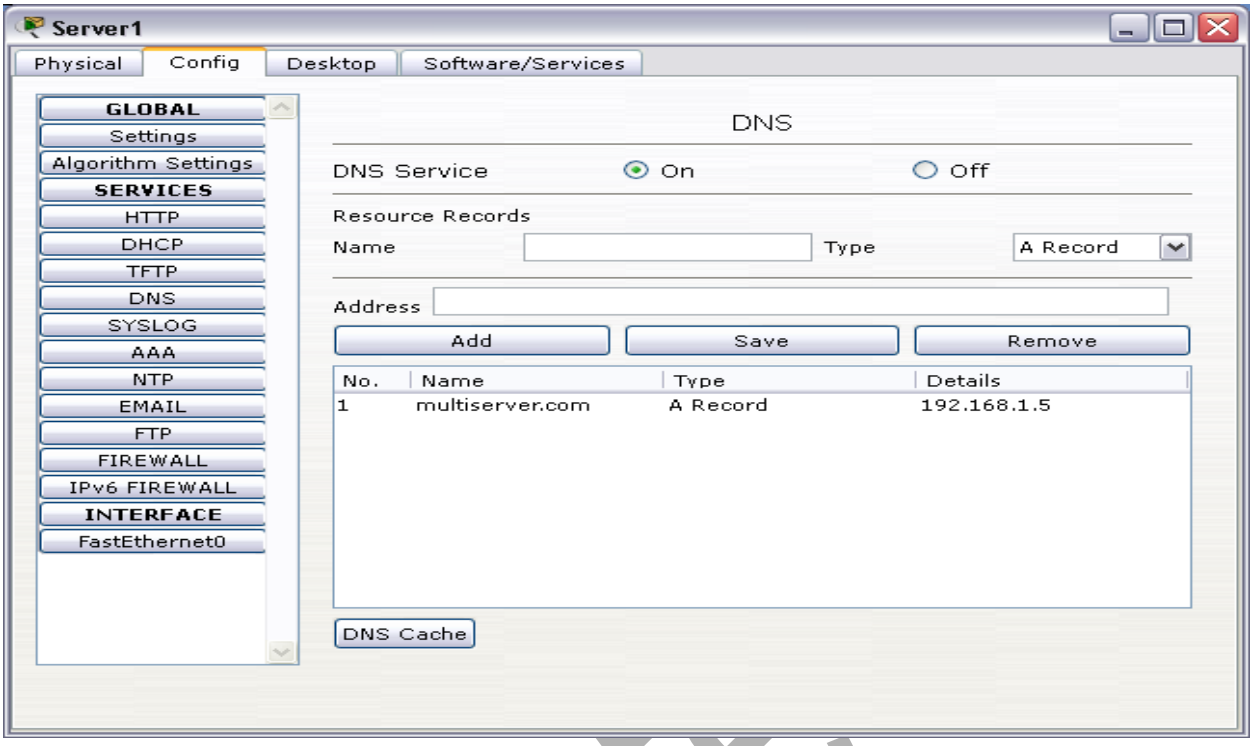
11] Command prompt for Email client:-



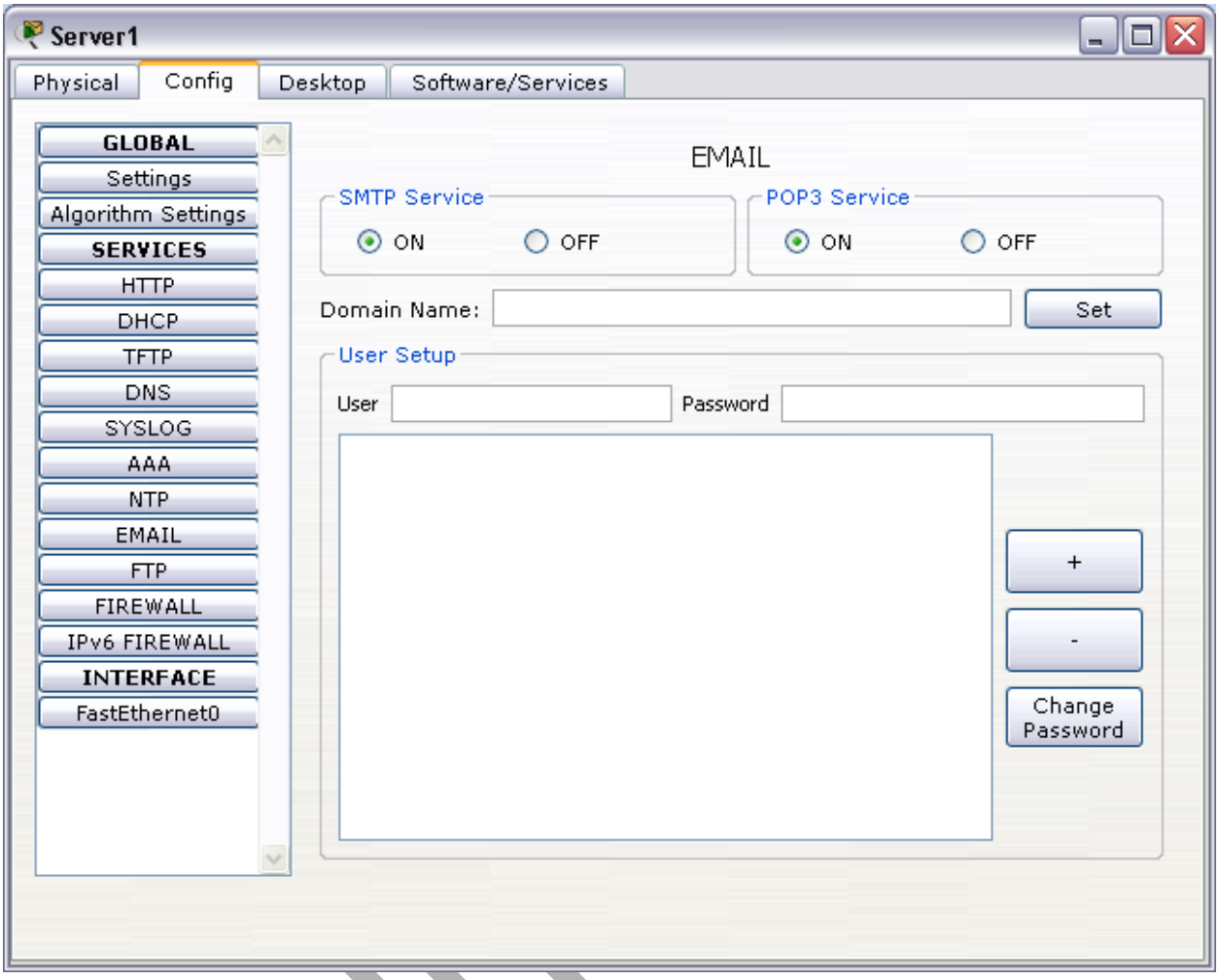
12] Go to simulation mode->click on http->click on web browser->type ip address192.168.1.5 ->Go



13] Go to realtime mode->click on multiserver->desktop->config->dns

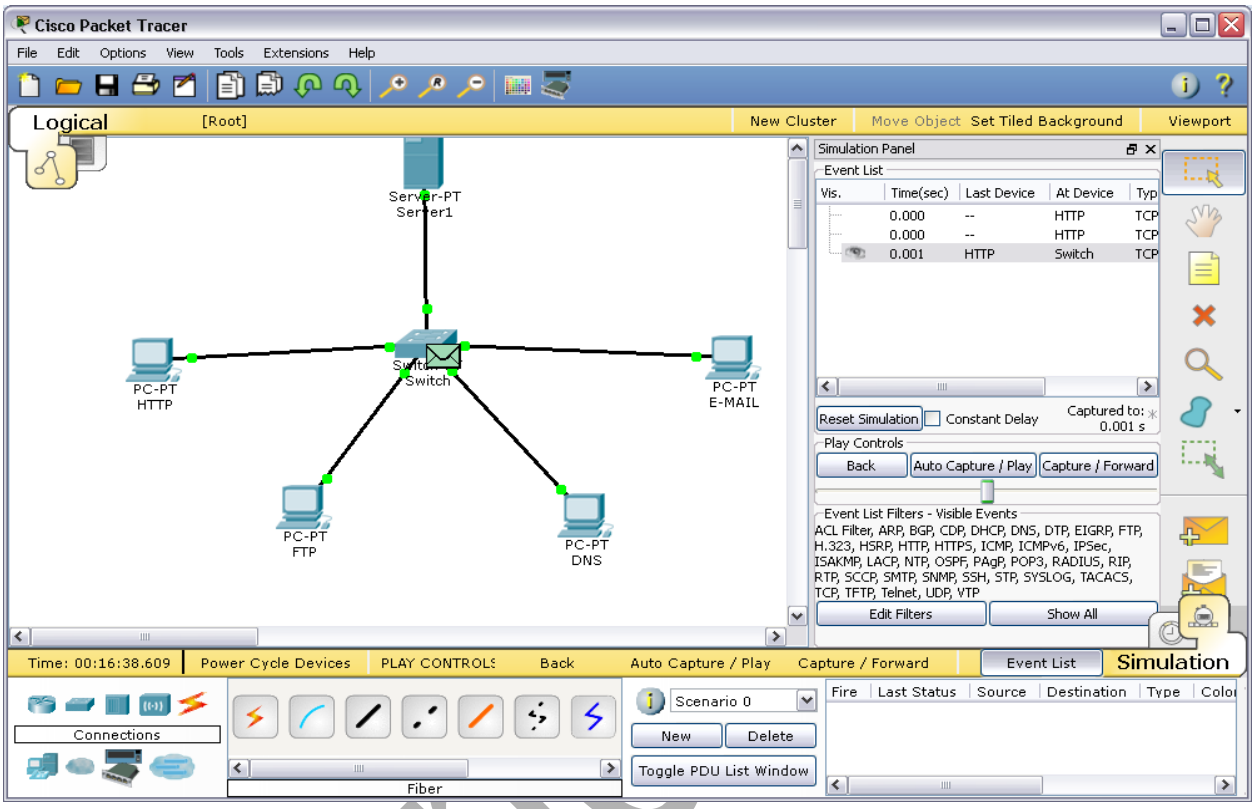


14] Go to realtime mode->click on multiserver->desktop->config->email

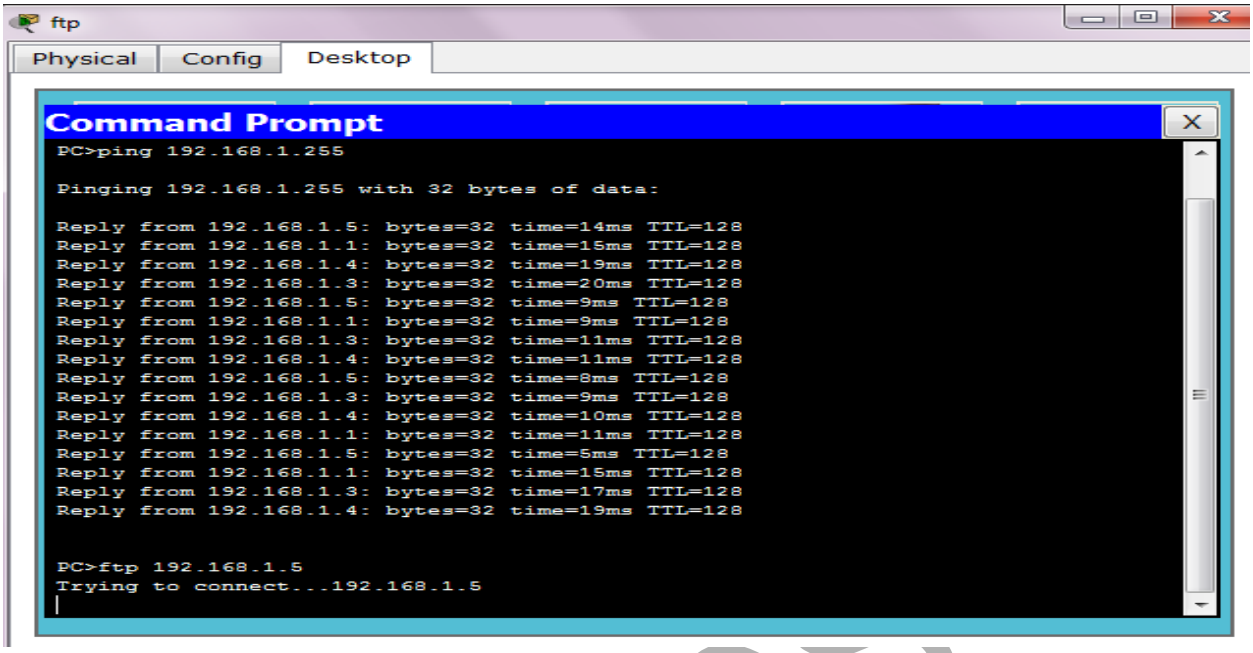

Server1
Physical
Config
Desktop
Software/Services
GLOBAL
Settings
Algorithm Settings
SERVICES
HTTP
DHCP
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
FIREWALL
IPv6 FIREWALL
INTERFACE
FastEthernet0
EMAIL
SMTP Service
ON
OFF
POP3 Service
ON
OFF
Domain Name:
Set
User Setup
User
Password
+
-
Change Password

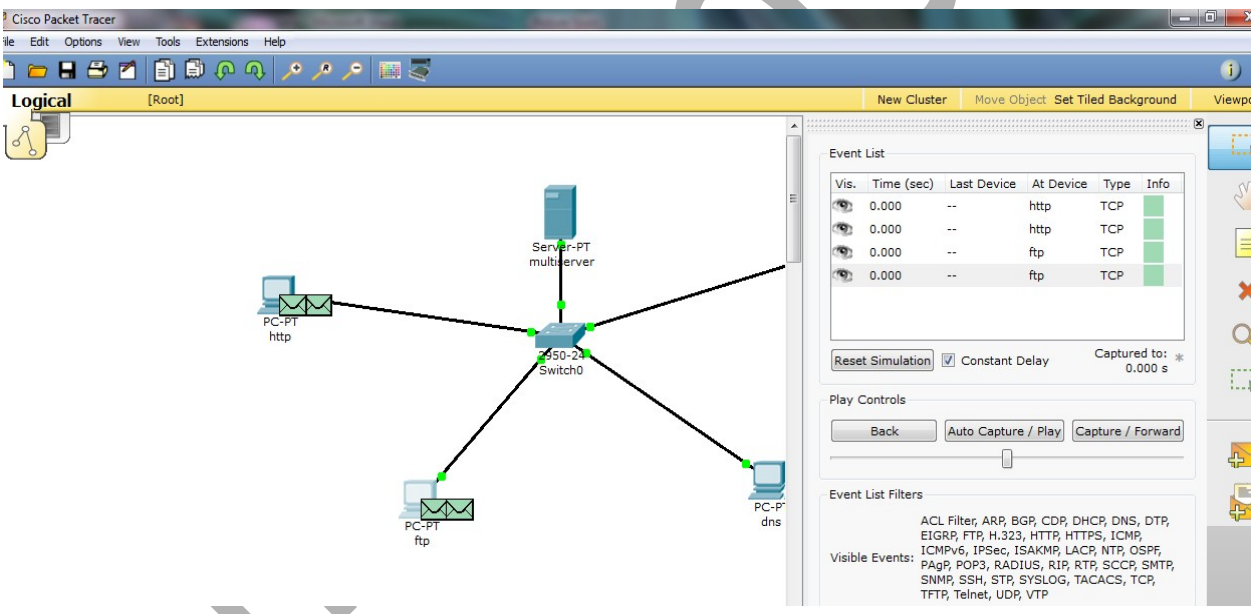
15] Open simulation mode:-

16] http click->desktop->web browser->type ip address 192.168.1.5-> then go

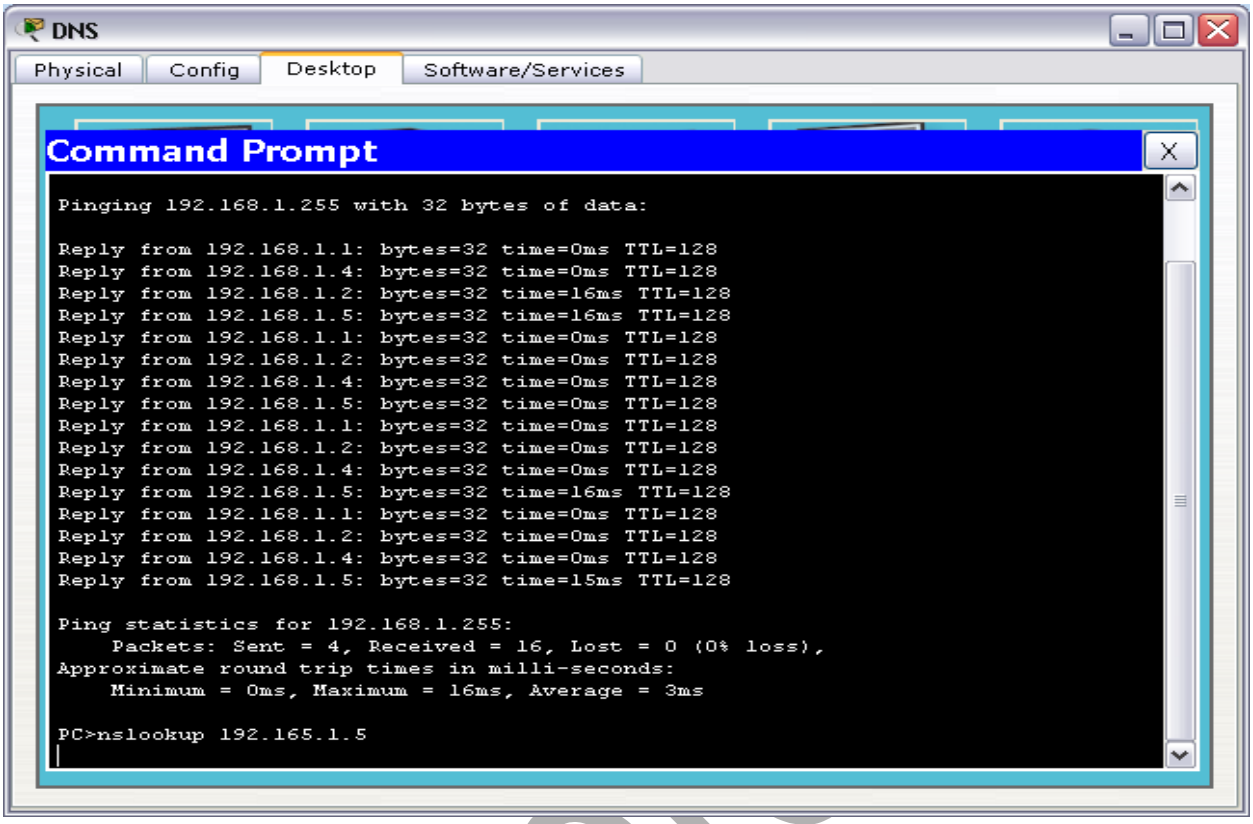


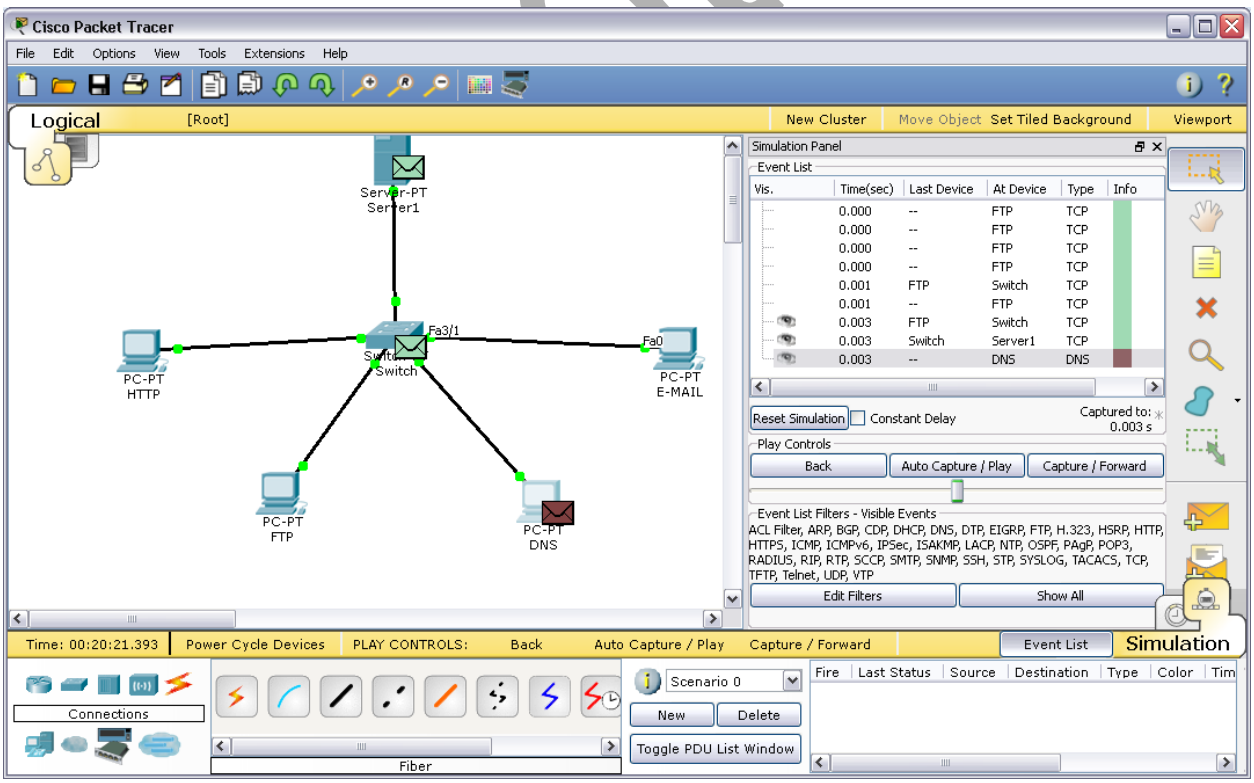
17] Click ftp client->command prompt ->Type >ftp 192.168.1.5



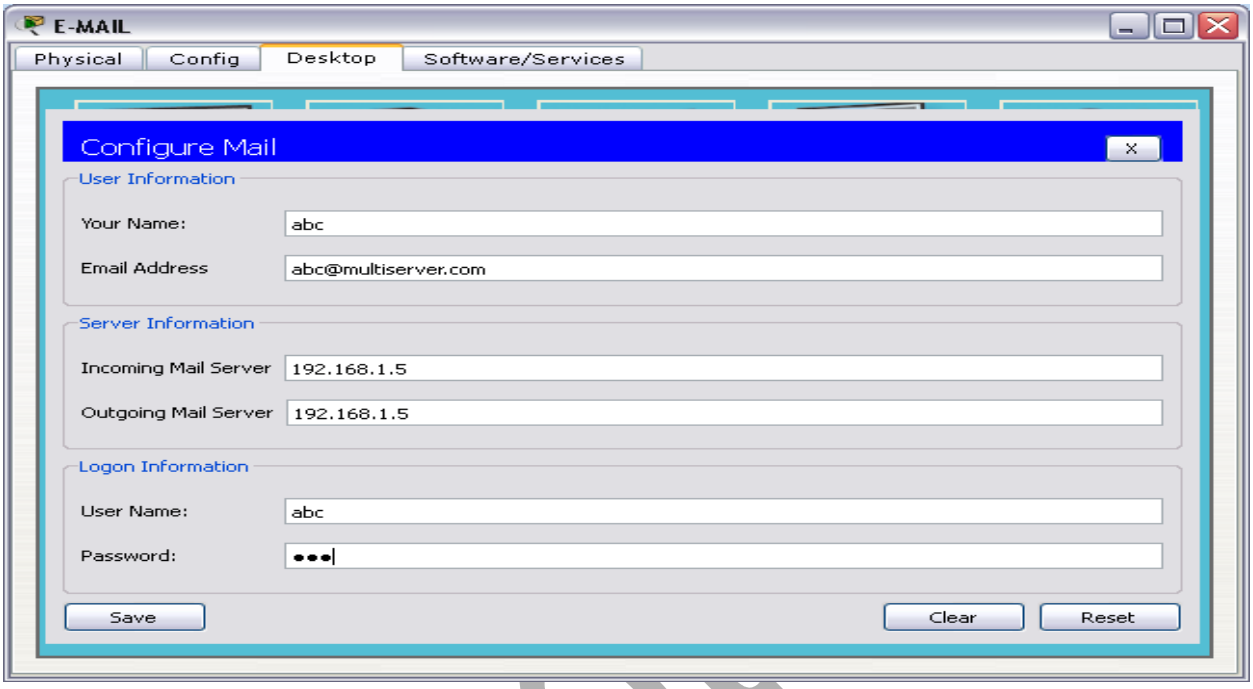


18] Click dns-> desktop-> command prompt ->Type-> nslookup 192.168.1.5

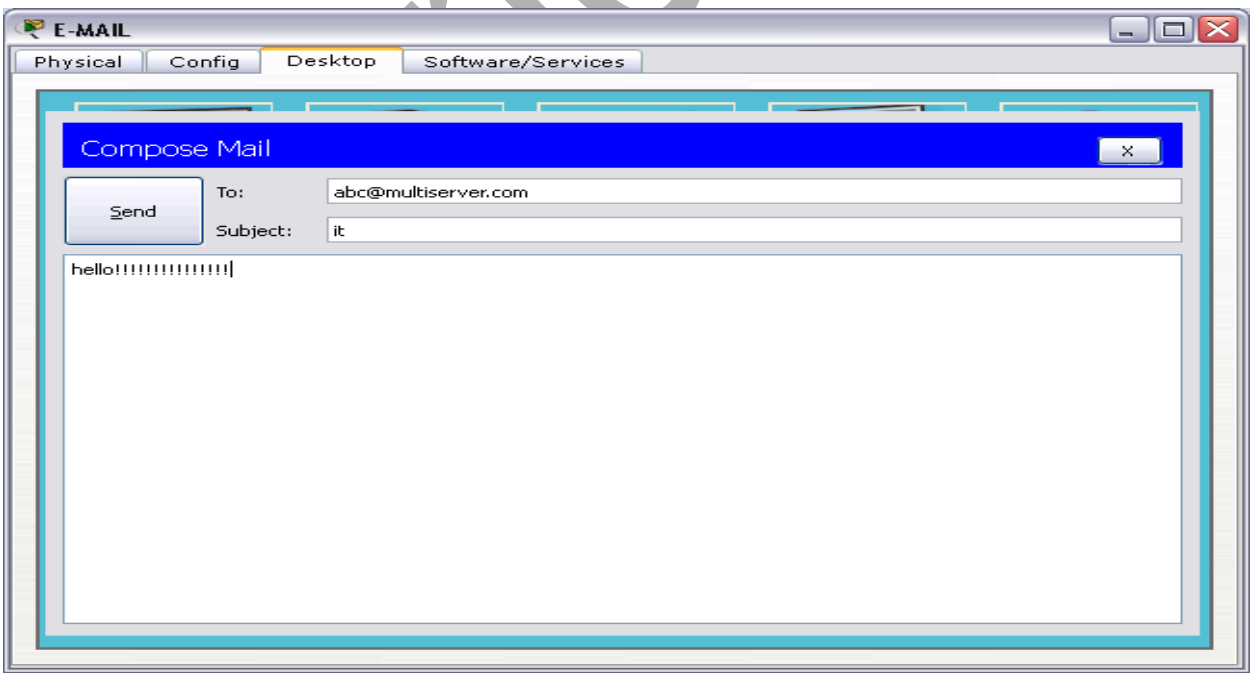

DNS
Physical
Config
Desktop
Software/Services
Command Prompt
Pinging 192.168.1.255 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
Reply from 192.168.1.2: bytes=32 time=16ms TTL=128
Reply from 192.168.1.5: bytes=32 time=16ms TTL=128
Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
Reply from 192.168.1.5: bytes=32 time=0ms TTL=128
Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
Reply from 192.168.1.5: bytes=32 time=16ms TTL=128
Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
Reply from 192.168.1.5: bytes=32 time=15ms TTL=128
Ping statistics for 192.168.1.255:
Packets: Sent = 4, Received = 16, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 16ms, Average = 3ms
PC>nslookup 192.165.1.5

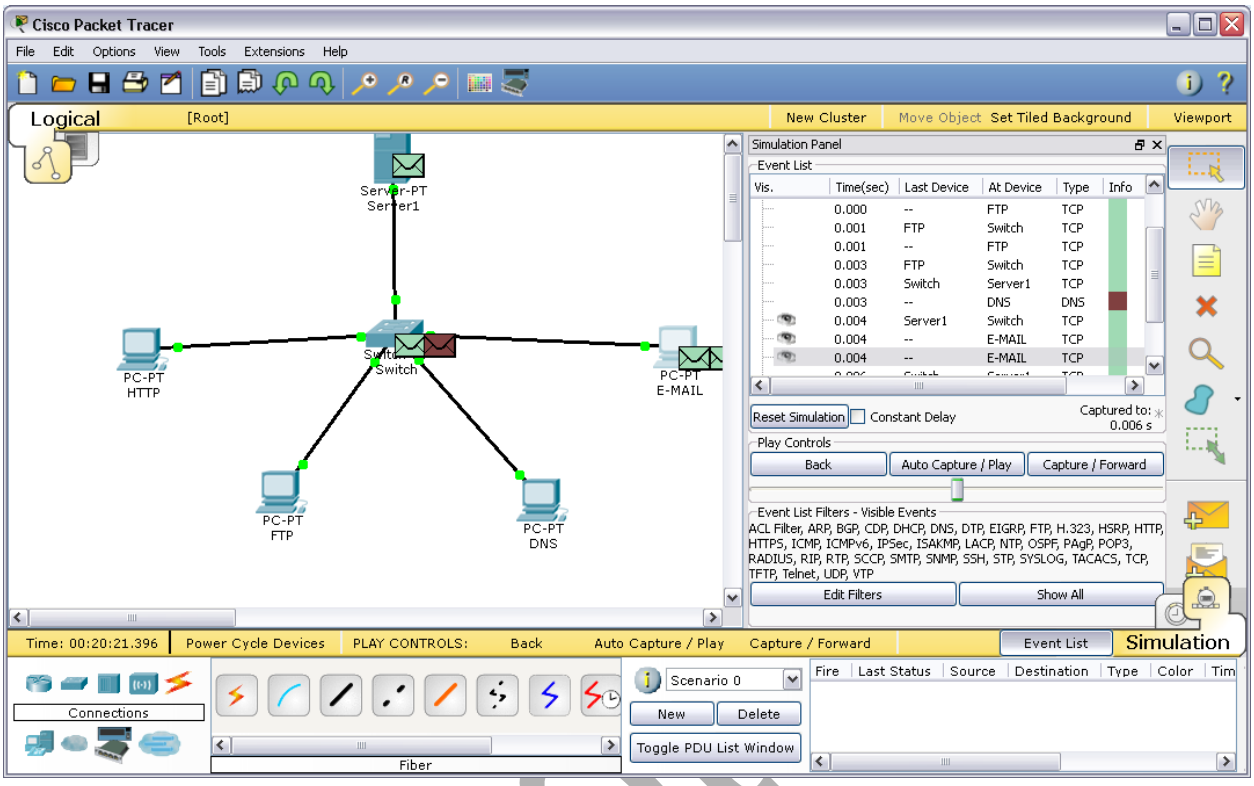

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Server-PT Server1
Fa3/1
Fa0
Switch
PC-PT HTTP
PC-PT E-MAIL
PC-PT FTP
PC-PT DNS
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device Type Info
Reset Simulation
Constant Delay
Captured to: 0.003 s
Play Controls
Back
Auto Capture / Play
Capture / Forward
Event List Filters - Visible Events
ACL Filter, ARP, BGP, CDP, DHCP, DNS, DTP, EIGRP, FTP, H.323, HSRP, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NTP, OSPF, PAgP, POP3, RADIUS, RIP, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP
Edit Filters
Show All
Time: 00:20:21.393
Power Cycle Devices
PLAY CONTROLS:
Back
Auto Capture / Play
Capture / Forward
Event List
Simulation
Connections
Fiber
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Tim

19] Click on email-> desktop-> email -> configure email



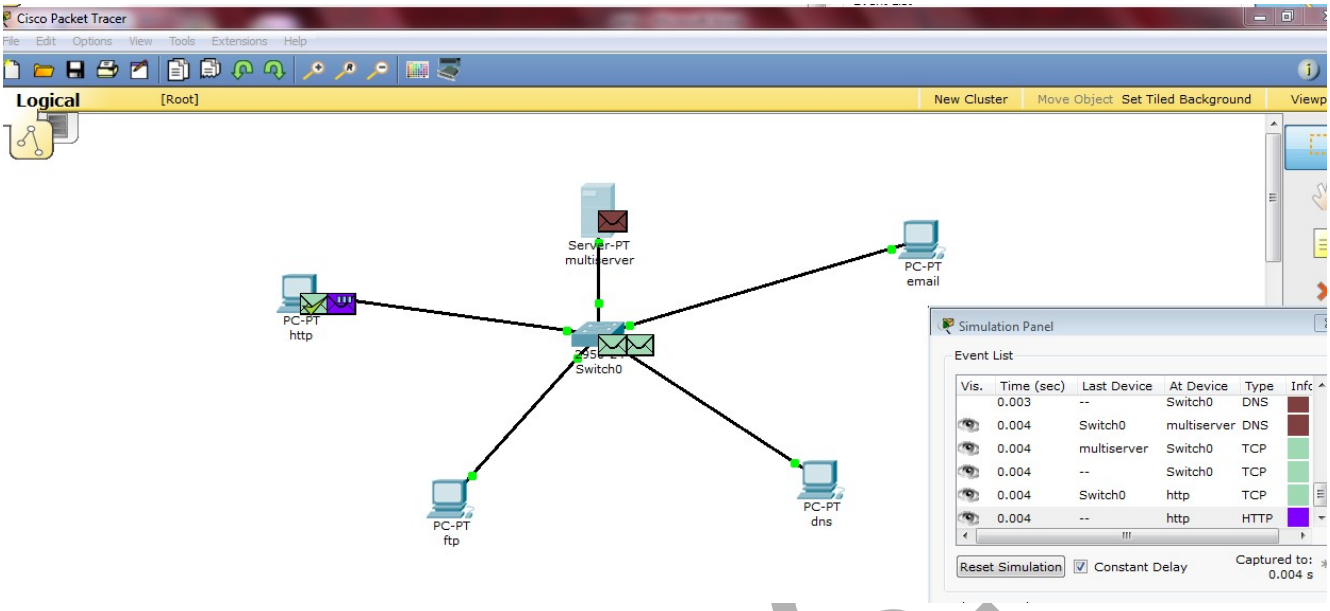
20] Go to compose mail



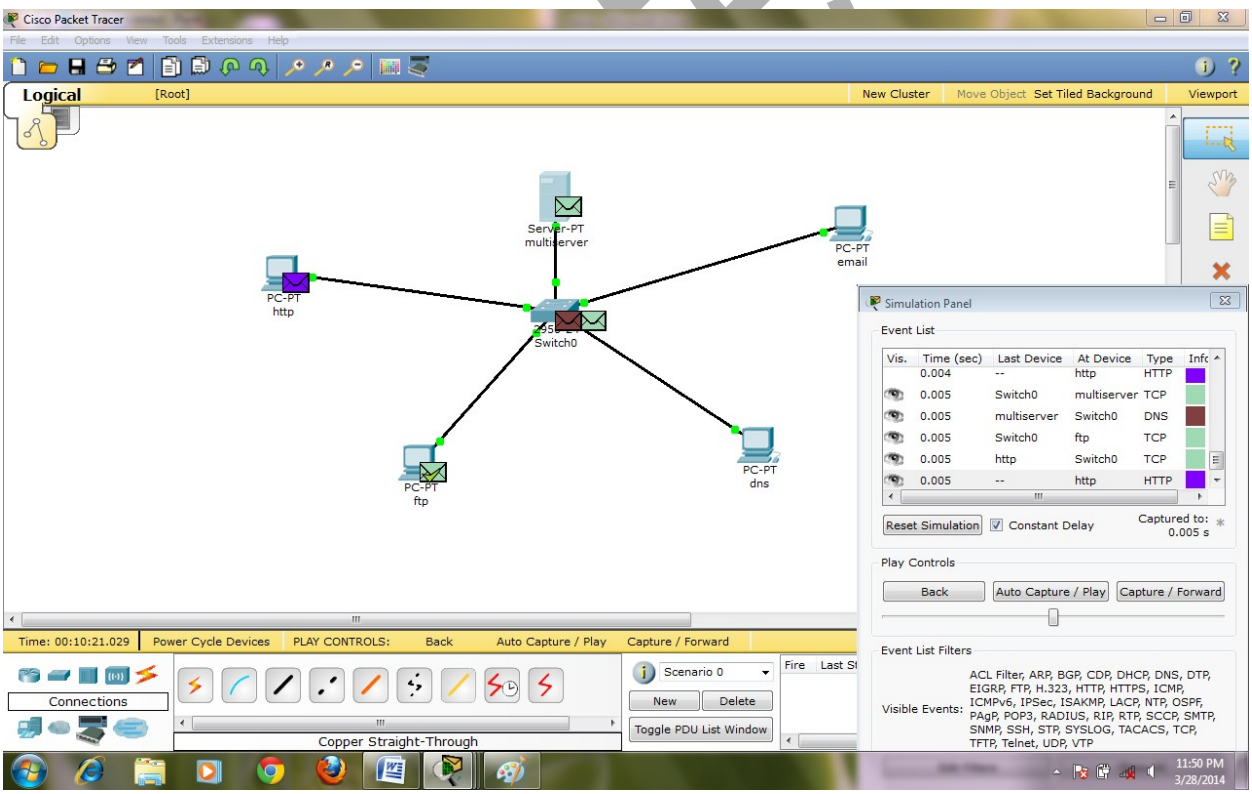


21] Go to simulation mode -> Click on capture and forward ->then click again capture and forward

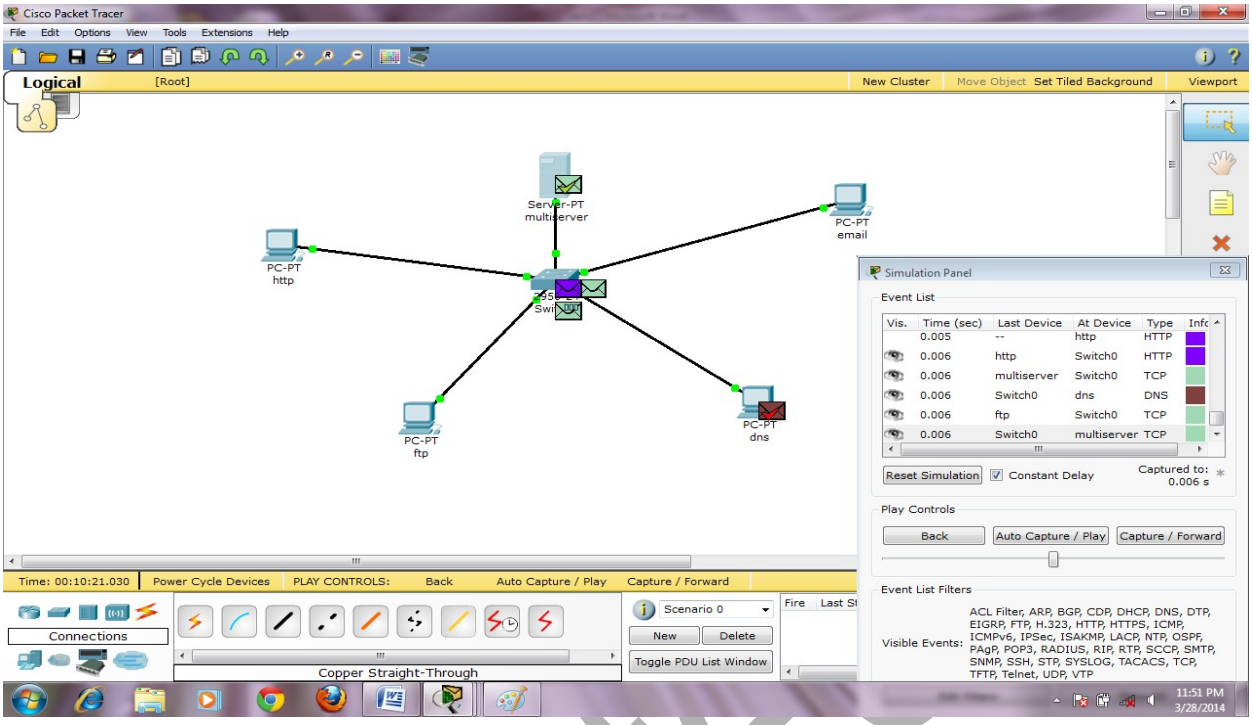
A] http client:-



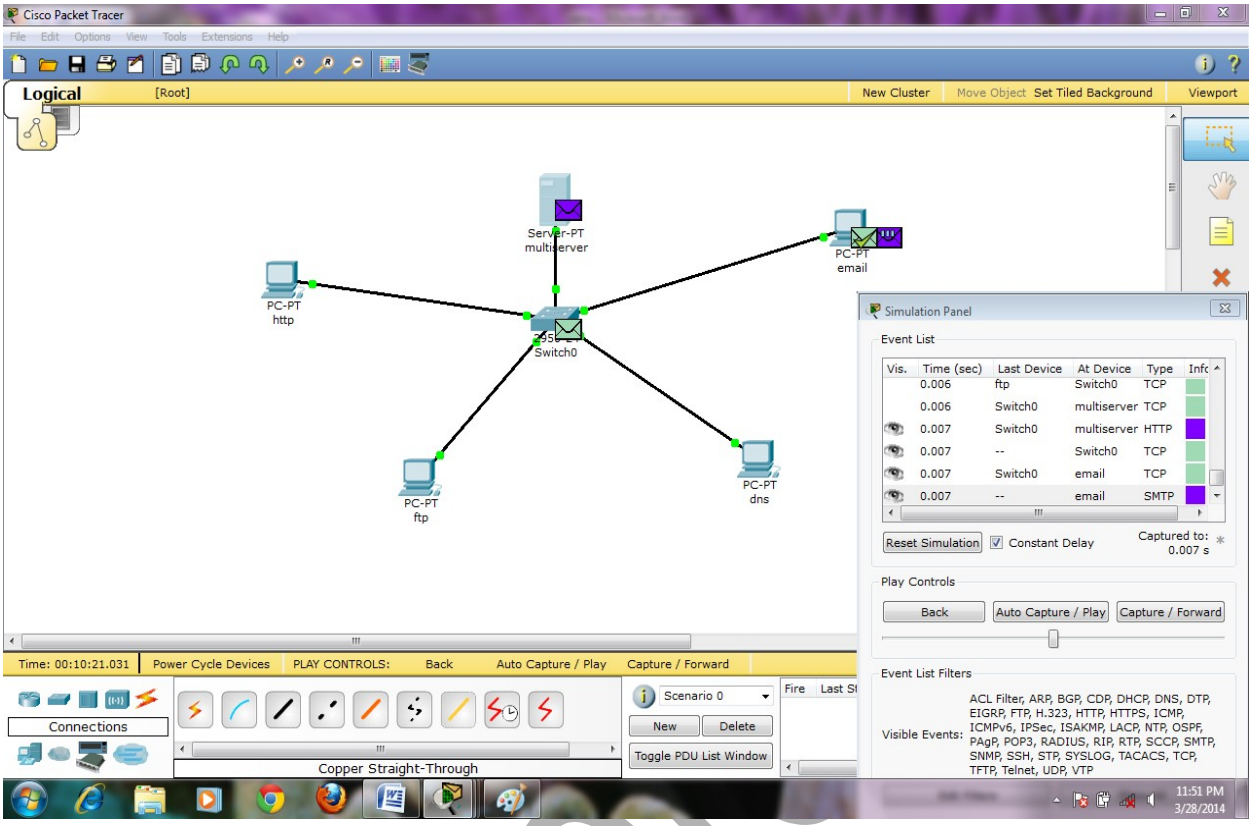
B] ftp client:-



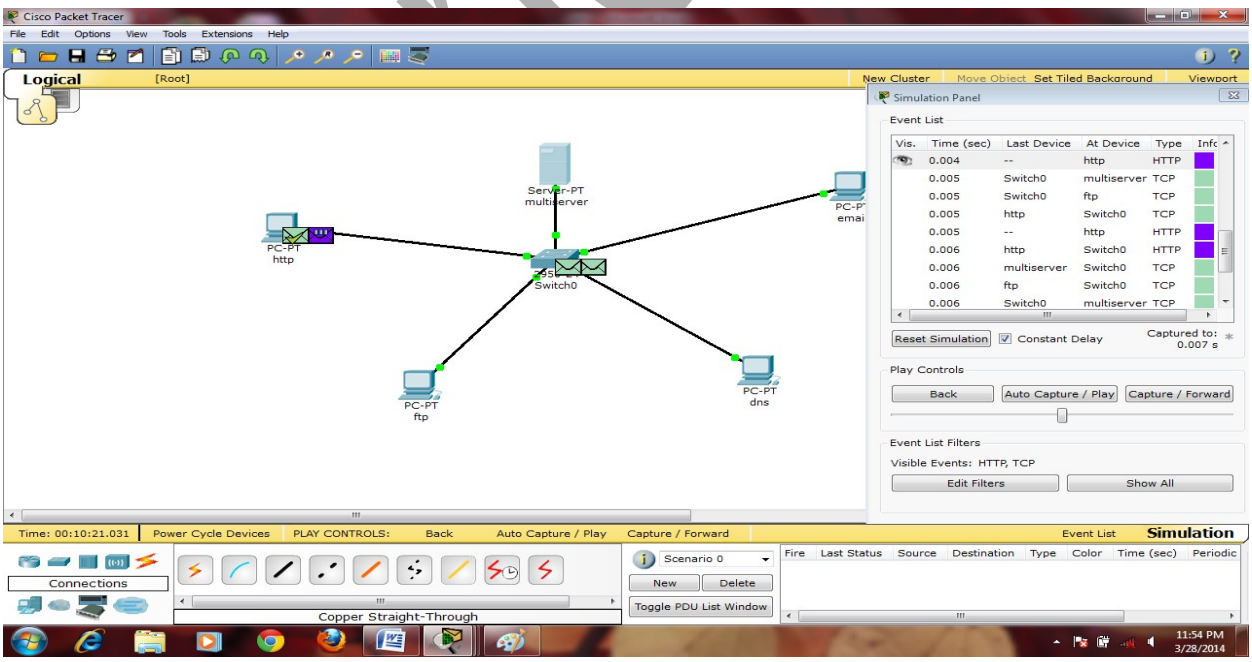
C] Dns client:-



D] Email client:-

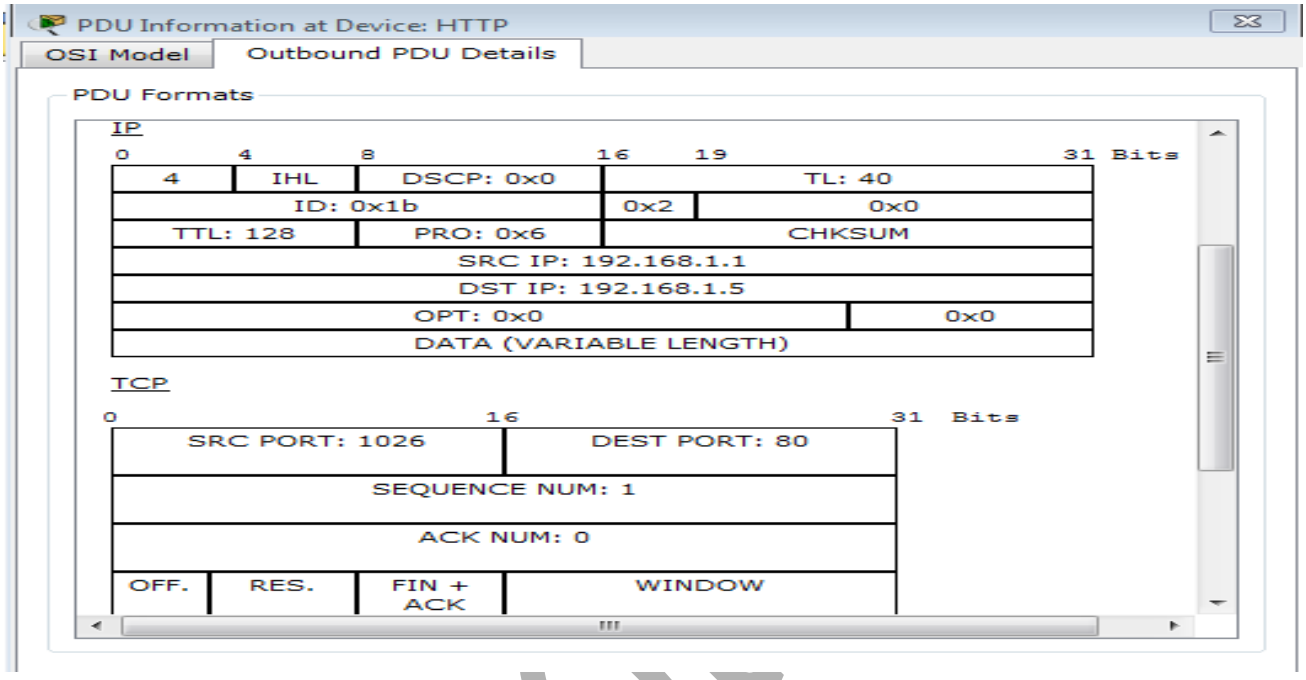


22] Now Edit filter -> unchecked the checkbox show all ->select http,tcp->capture and forward

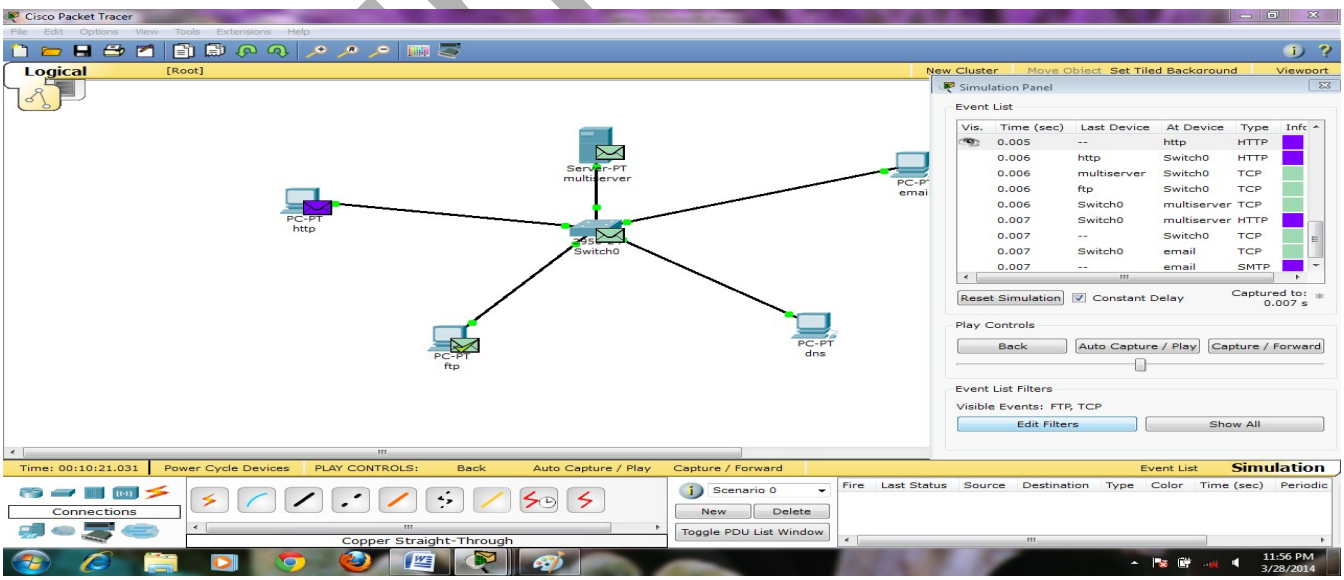


23] click on inbound PDU details

A] http:-

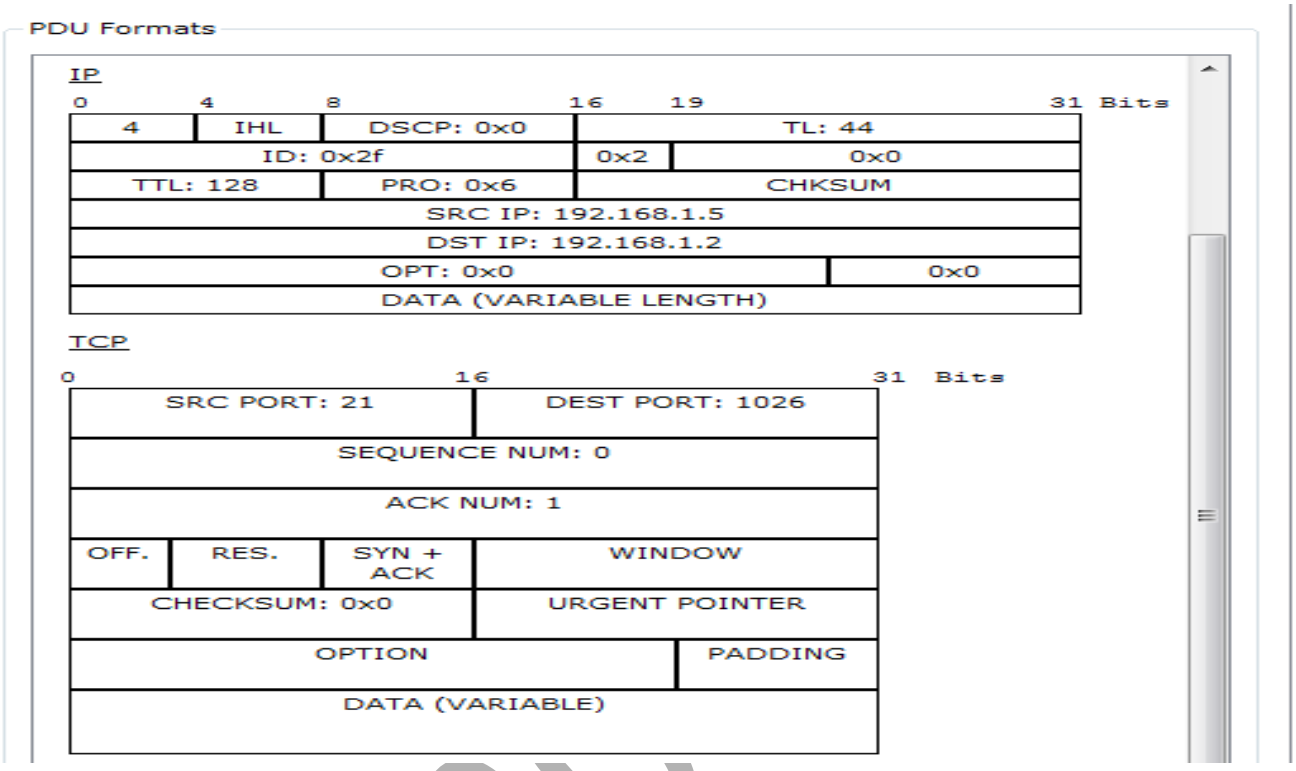


24] Edit filter -> unchecked the checkbox show all ->select ftp,tcp->capture and forward

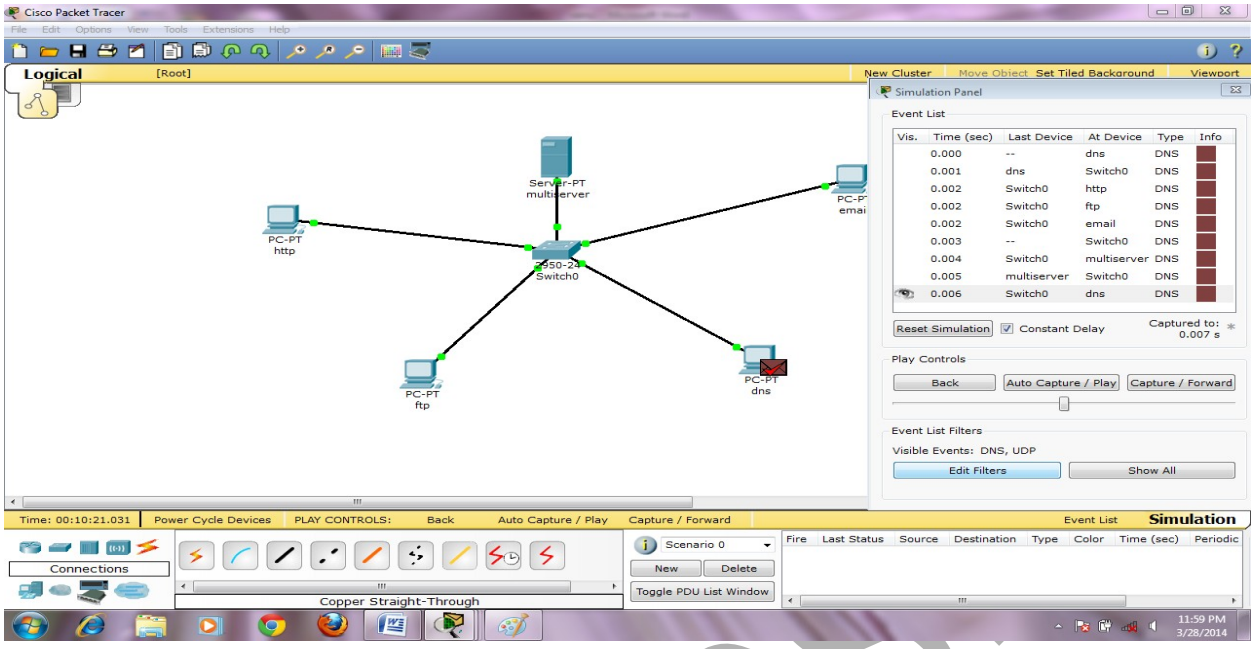


23] click on inbound PDU details

B] Ftp:-

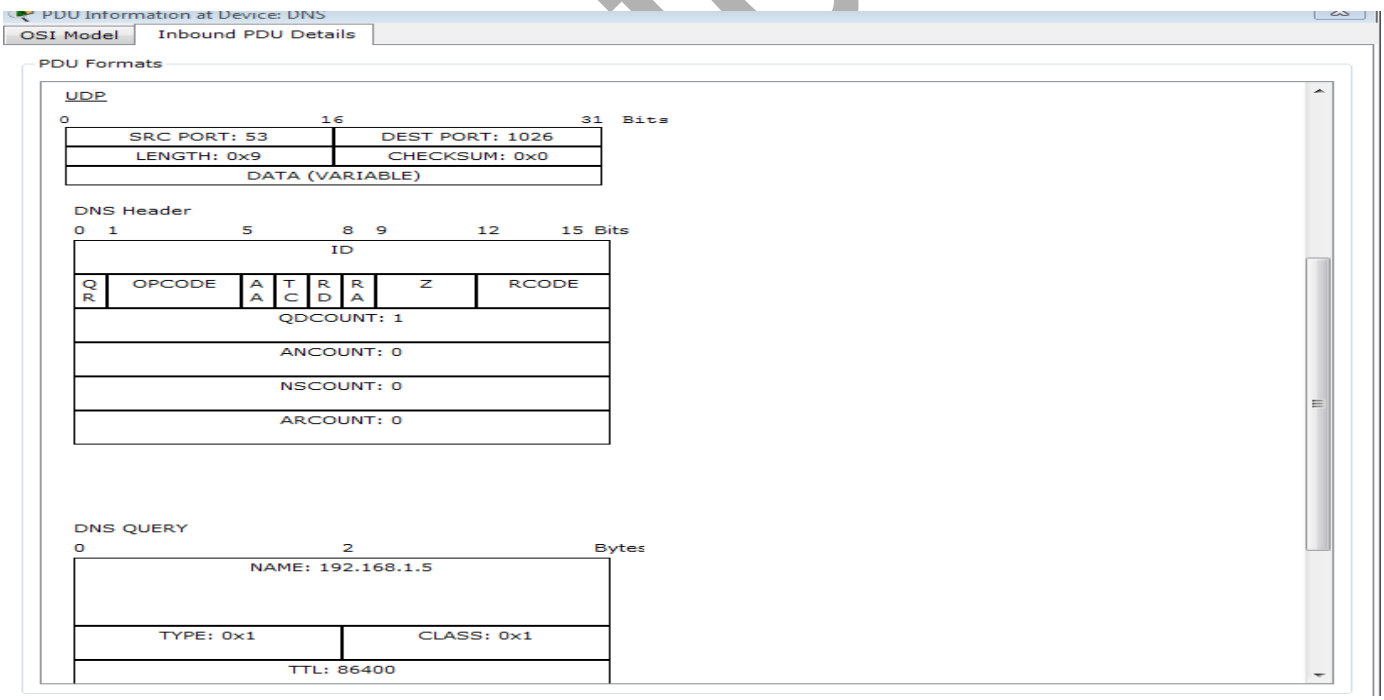


25] Edit filter -> unchecked the checkbox show all ->select udp,dns->capture and forward

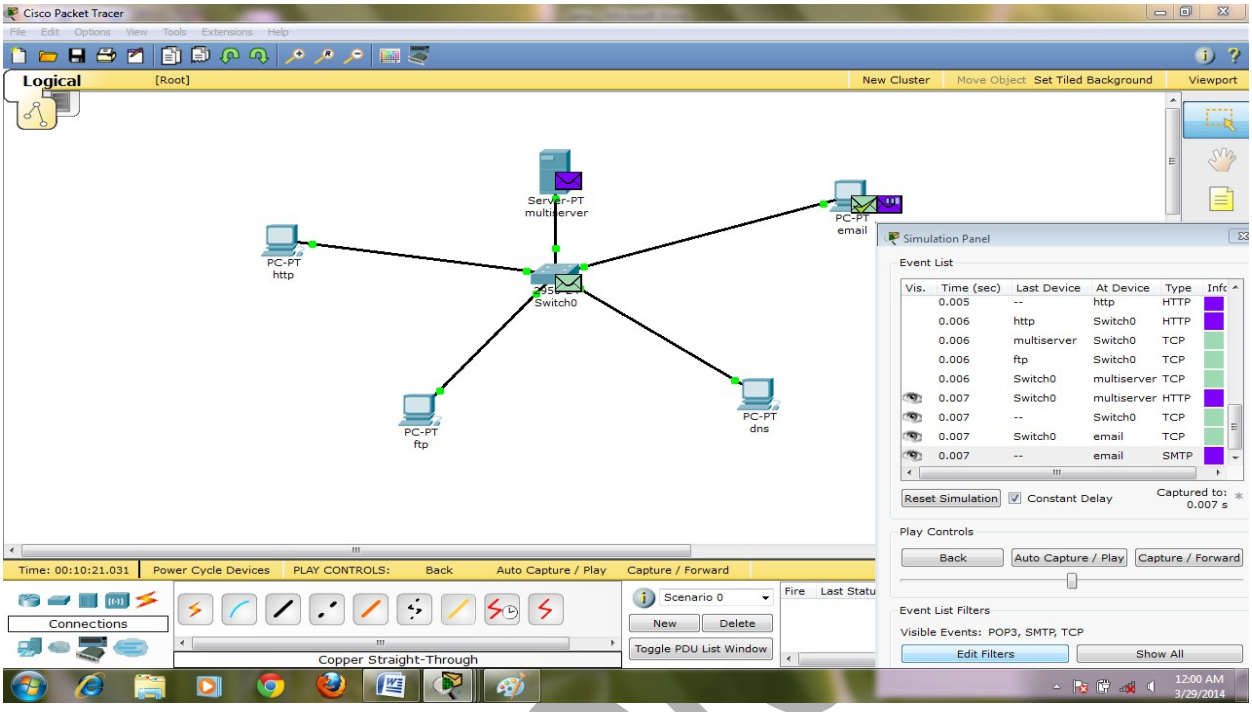


26] click on inbound PDU details

C] Dns:-

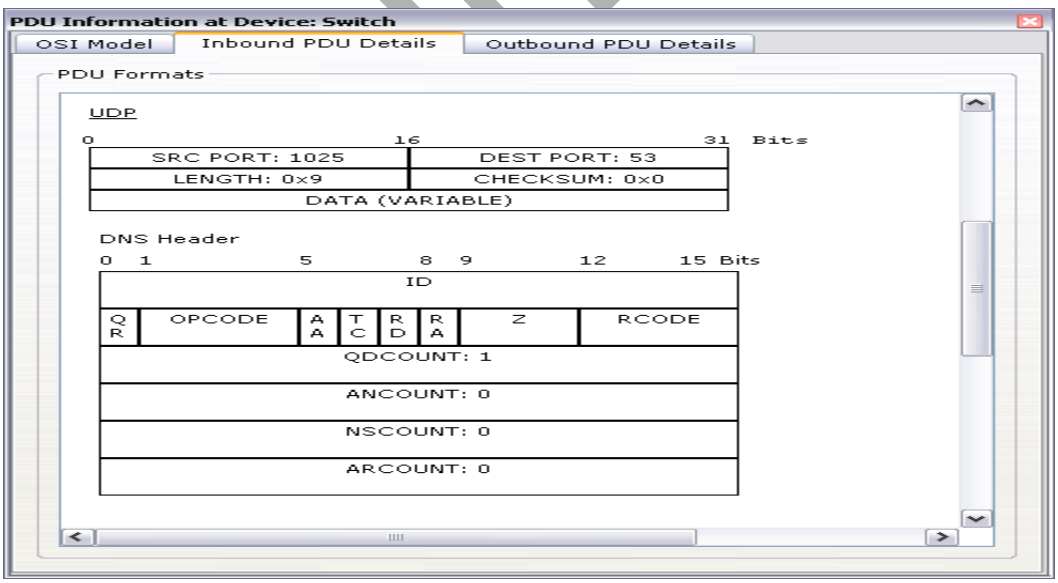


27] Edit filter -> unchecked the checkbox show all ->select pop3,smtp,tcp->capture and forward



28] click on inbound PDU details

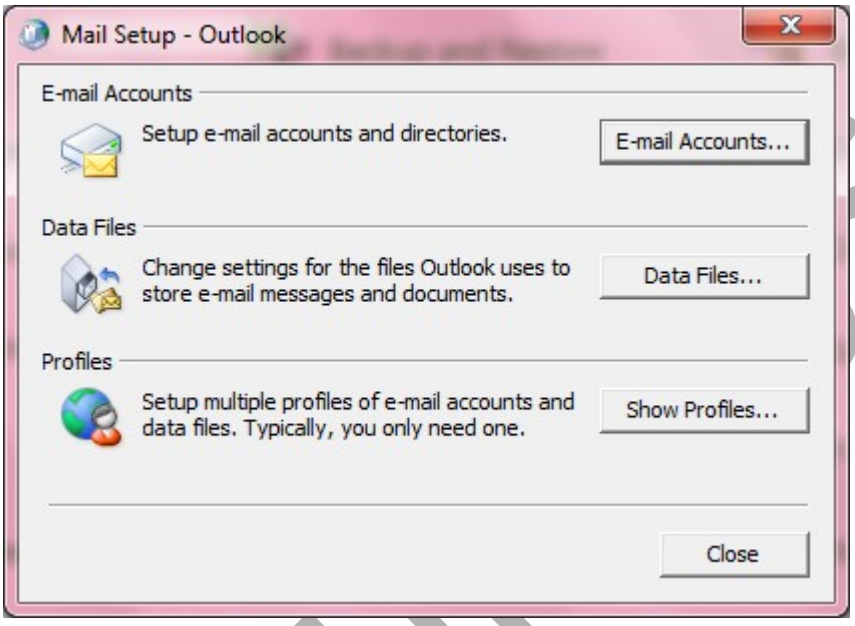
B] Email:-



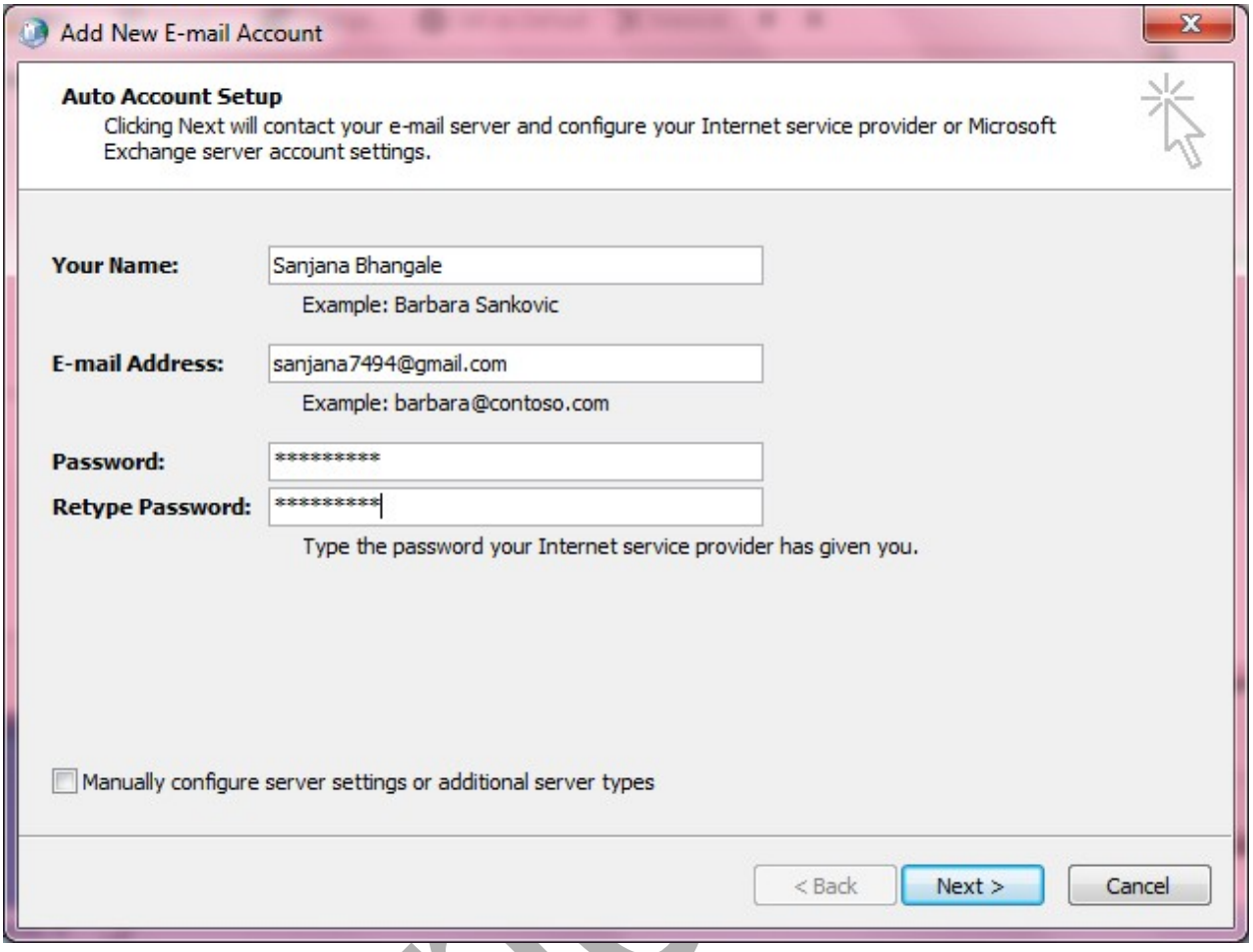
Practical –

Aim : Configure SMTP, POP3, IMAP and MIME.

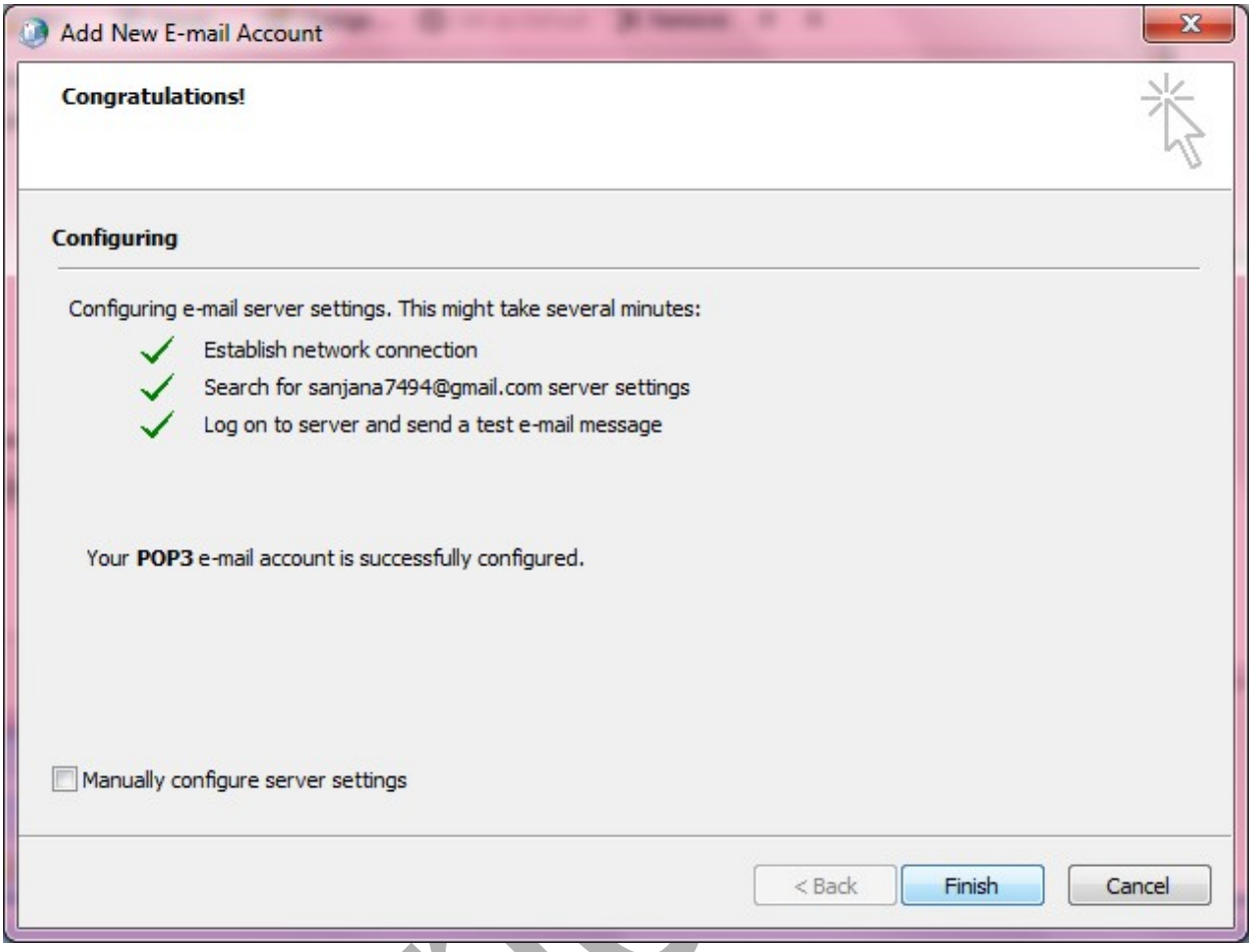
Step 1: Go to Control Panel->Mail Setup->E-Mail Accounts

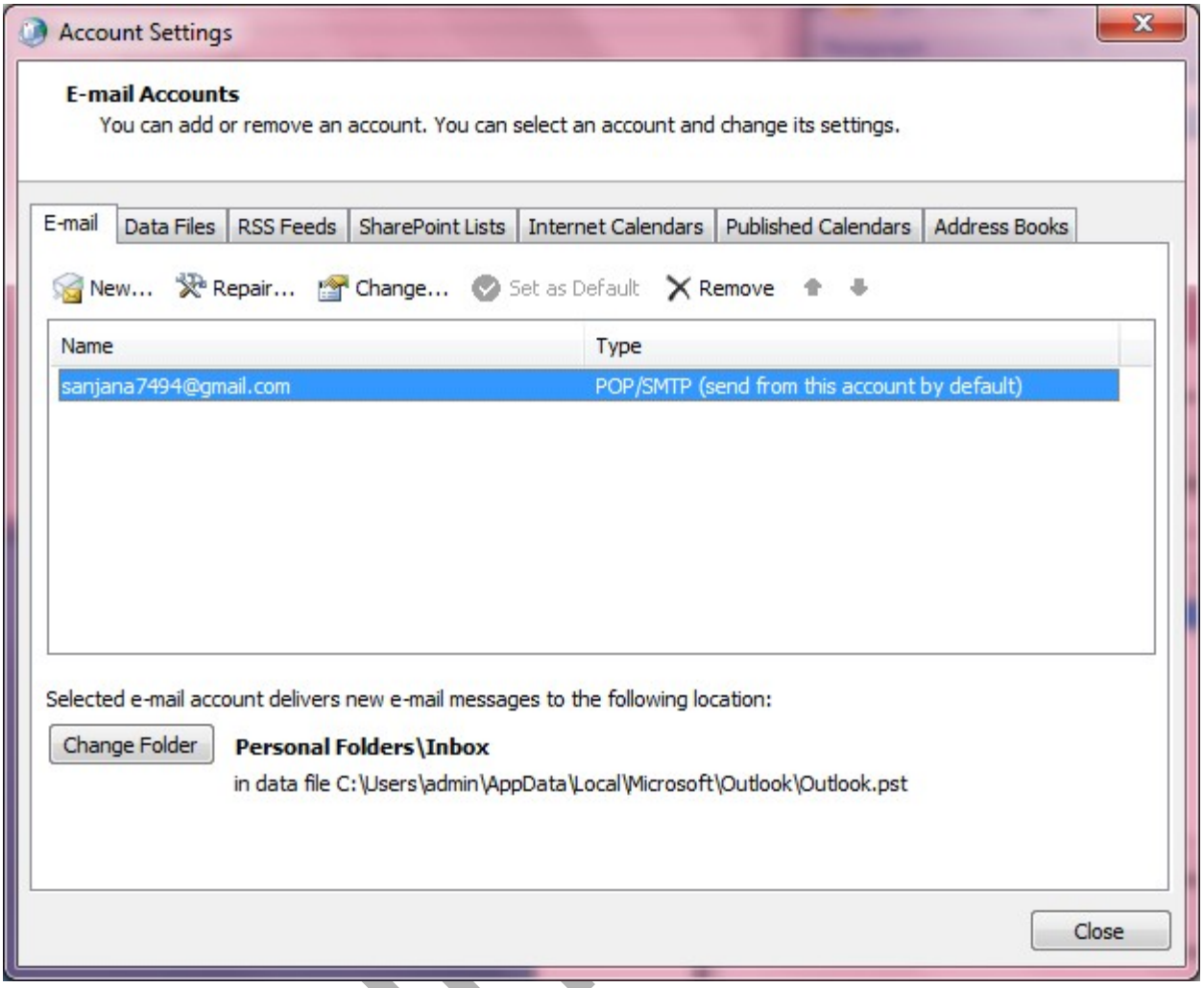


Step 2: Enter Name , Email address and password -> next



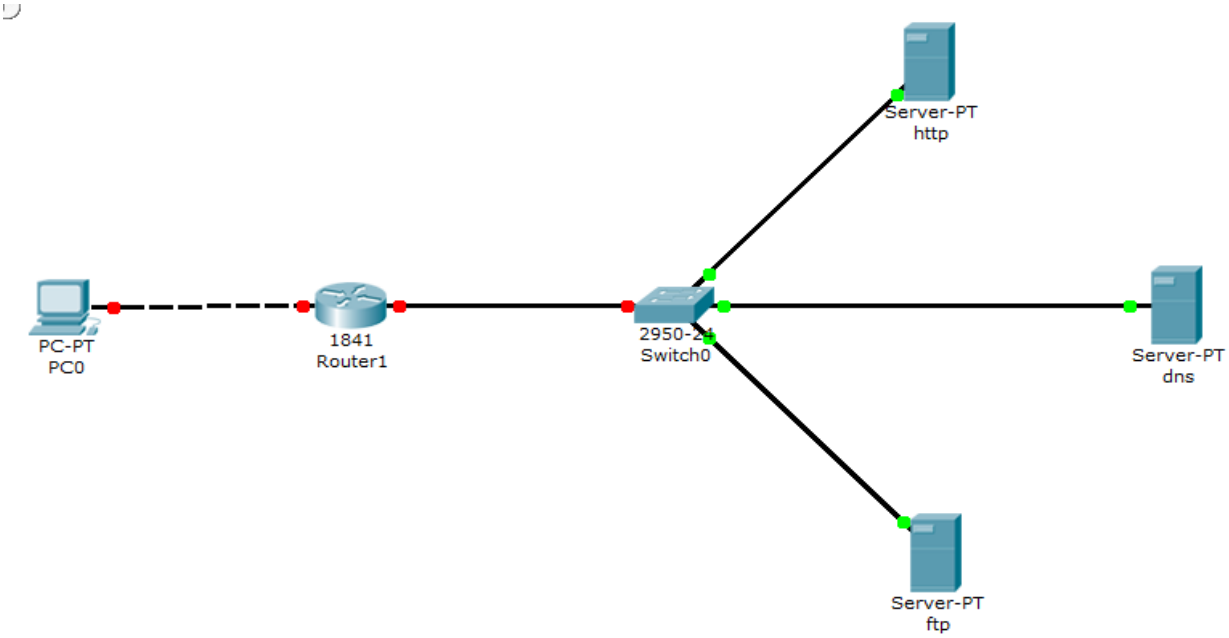
Step 3: Finish


Add New E-mail Account
Congratulations!
Configuring
Configuring e-mail server settings. This might take several minutes:
Establish network connection
Search for sanjana7494@gmail.com server settings
Log on to server and send a test e-mail message
Your POP3 e-mail account is successfully configured.
Manually configure server settings
< Back
Finish
Cancel

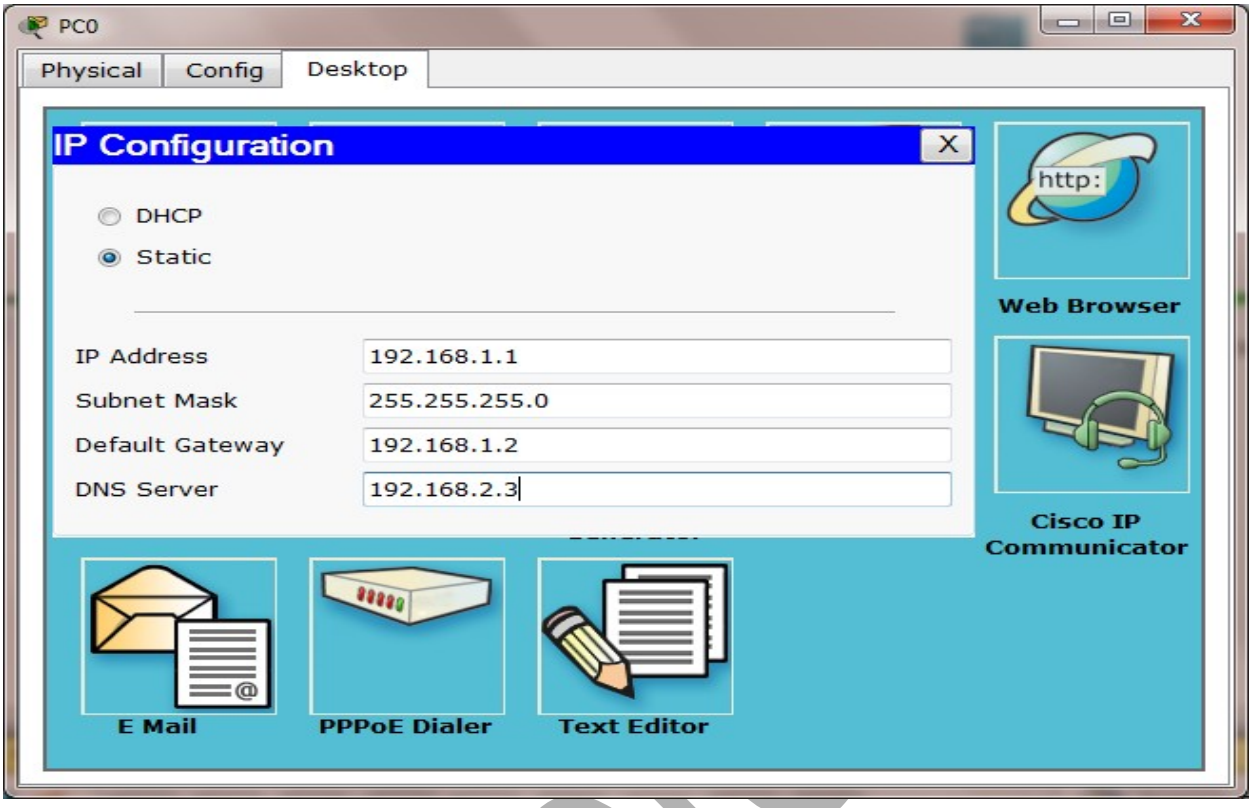

Account Settings
E-mail Accounts
You can add or remove an account. You can select an account and change its settings.
E-mail
Data Files
RSS Feeds
SharePoint Lists
Internet Calendars
Published Calendars
Address Books
New...
Repair...
Change...
Set as Default
Remove
Name
Type
sanjana7494@gmail.com
POP/SMTP (send from this account by default)
Selected e-mail account delivers new e-mail messages to the following location:
Change Folder
Personal Folders\Inbox
in data file C:\Users\admin\AppData\Local\Microsoft\Outlook\Outlook.pst
Close

Step 4: Open Microsoft Office Outlook

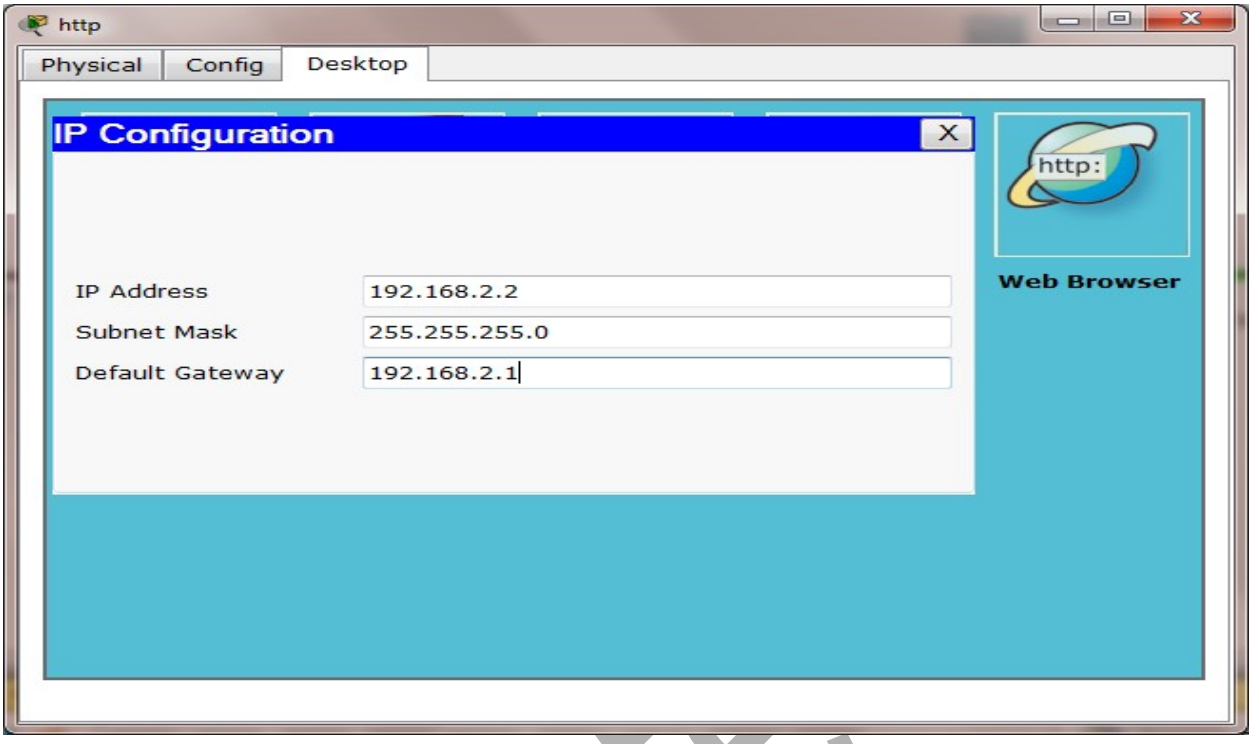
Practical No:-7



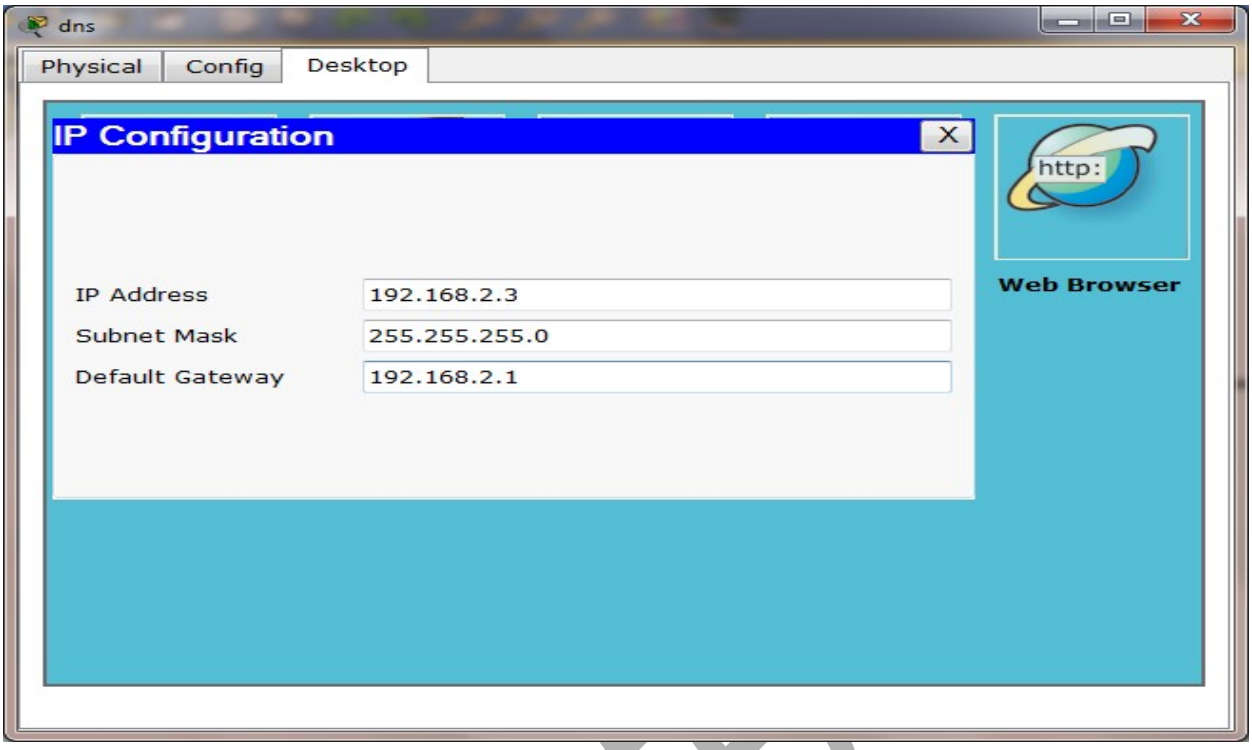
Step 1:-configuring PC0



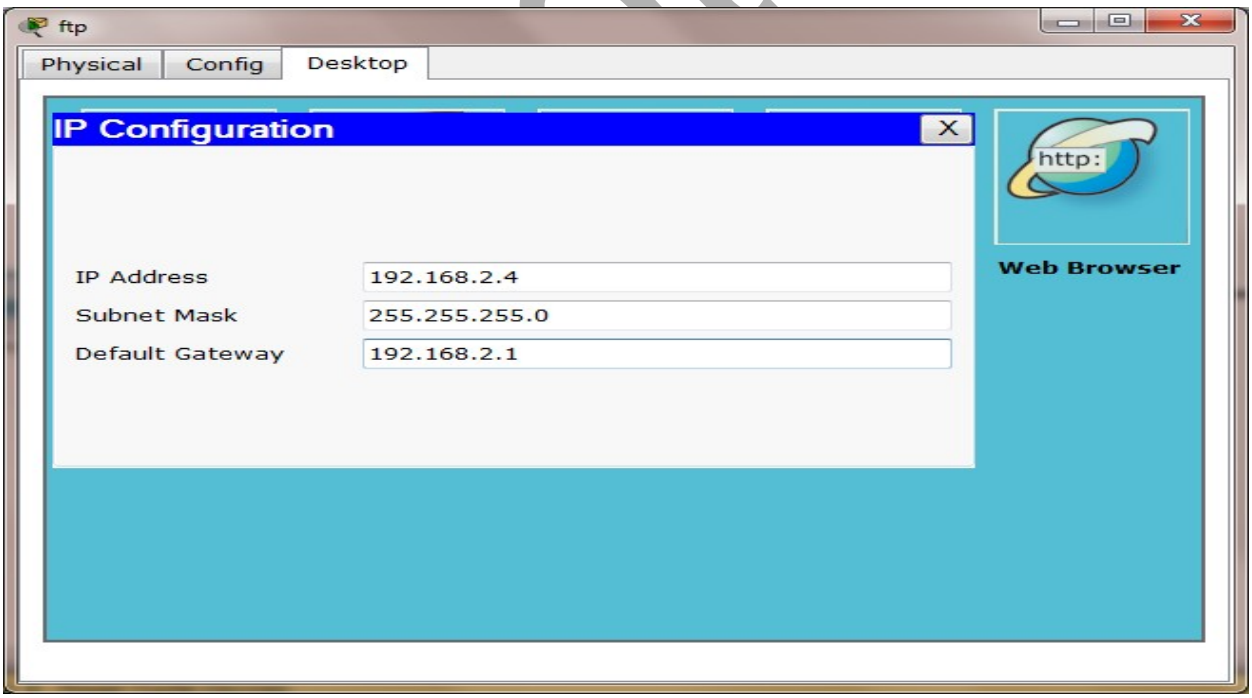
Step 2:-configuring HTTP



Step 3:-configuring DNS



Step 4:-configuring FTP



Step 5:-configuring Router0

Router>en

Router#config t

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

Router(config)#hostname r1

r1(config)#interface f0/0

r1(config-if)#ip address 192.168.1.2 255.255.255.0

r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

r1(config)#interface f0/1

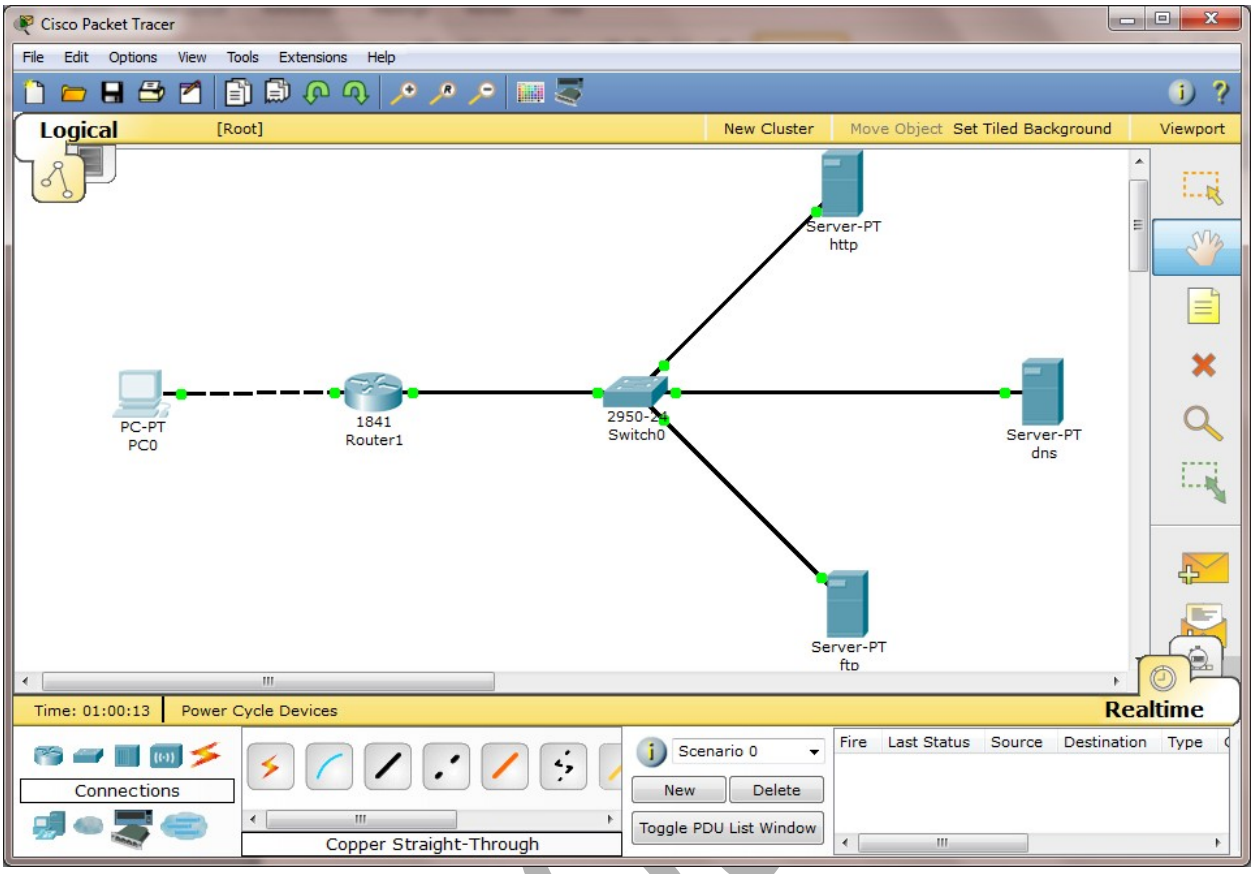
r1(config-if)#ip address 192.168.2.1 255.255.255.0

r1(config-if)#no shut

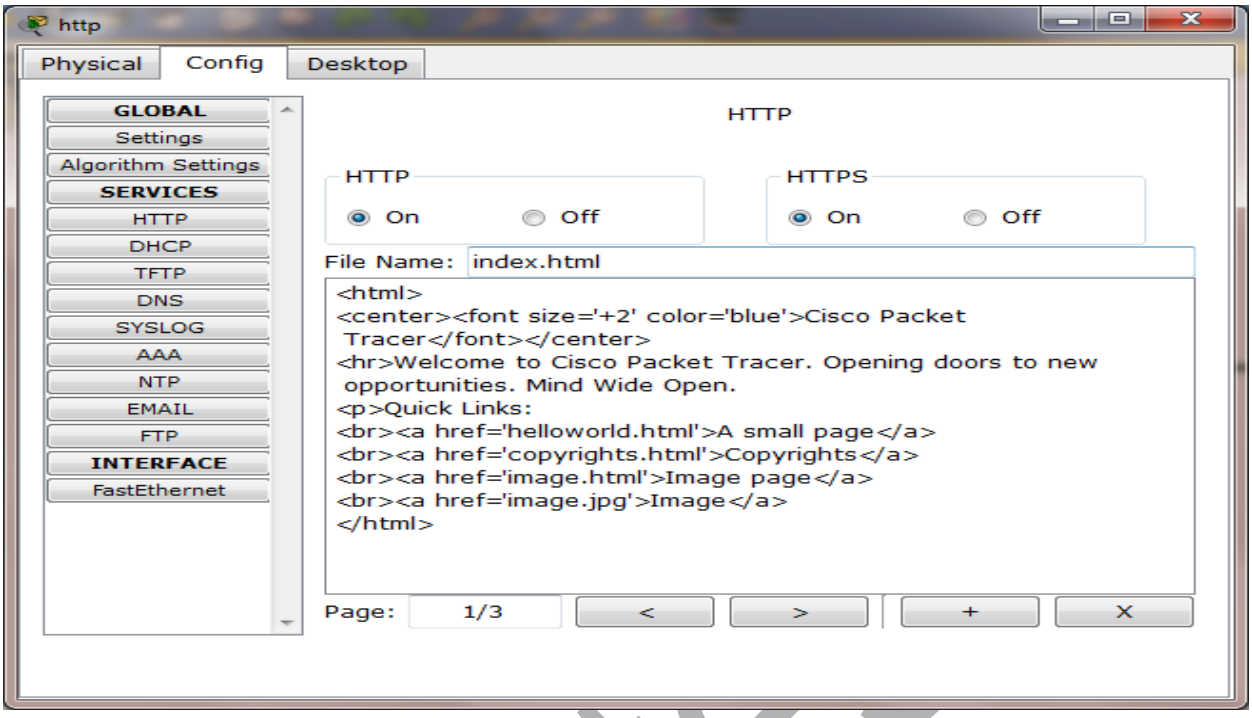
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

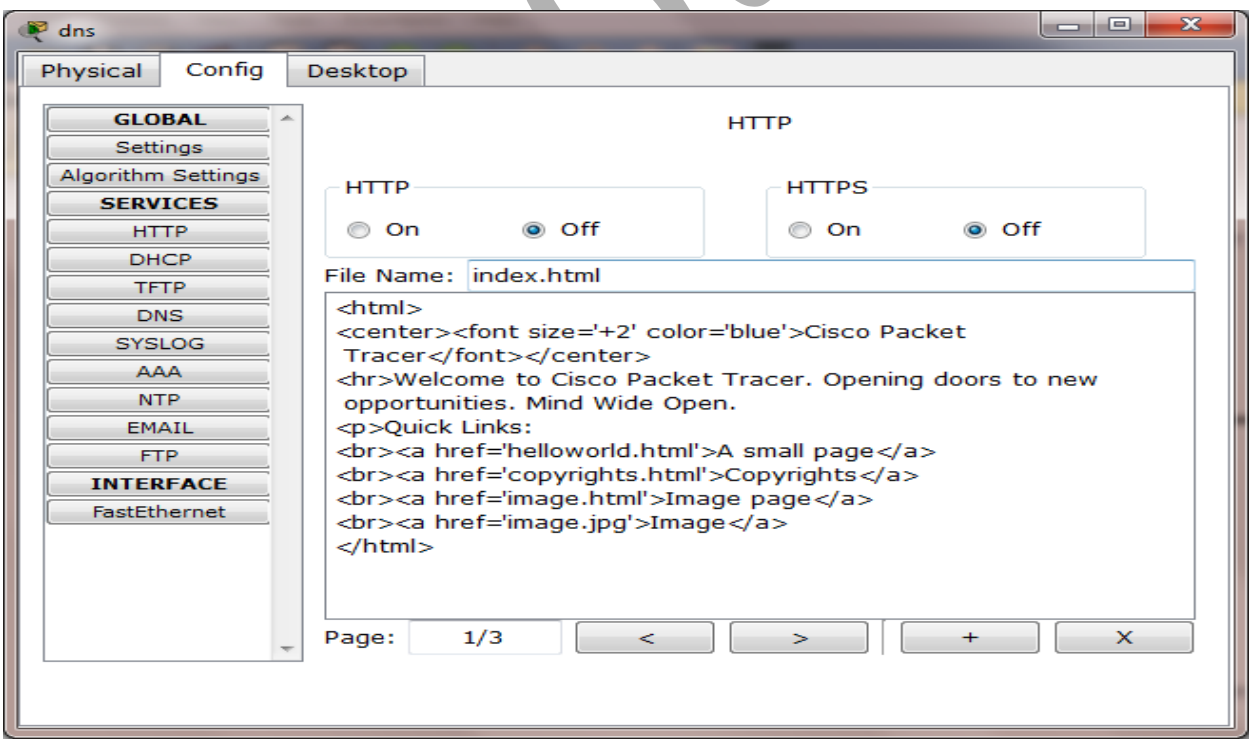
r1(config-if)#exit



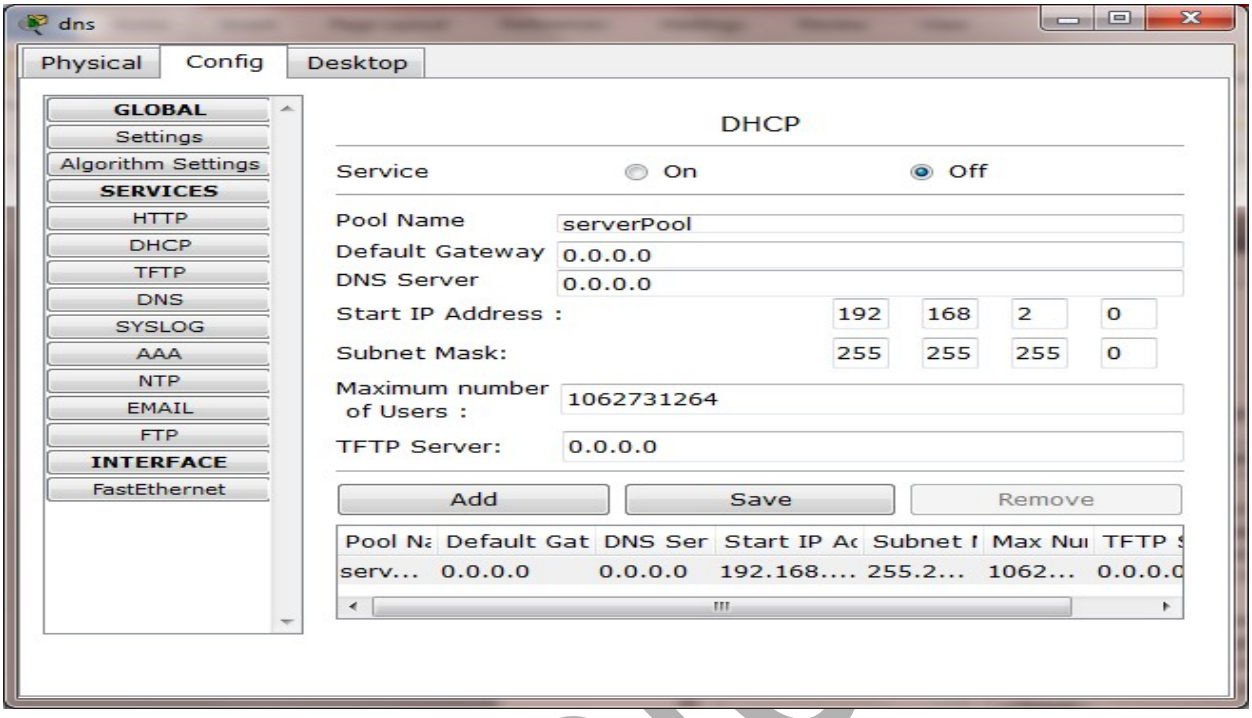
Step 6:-configuring HTTP -> Check if it is on



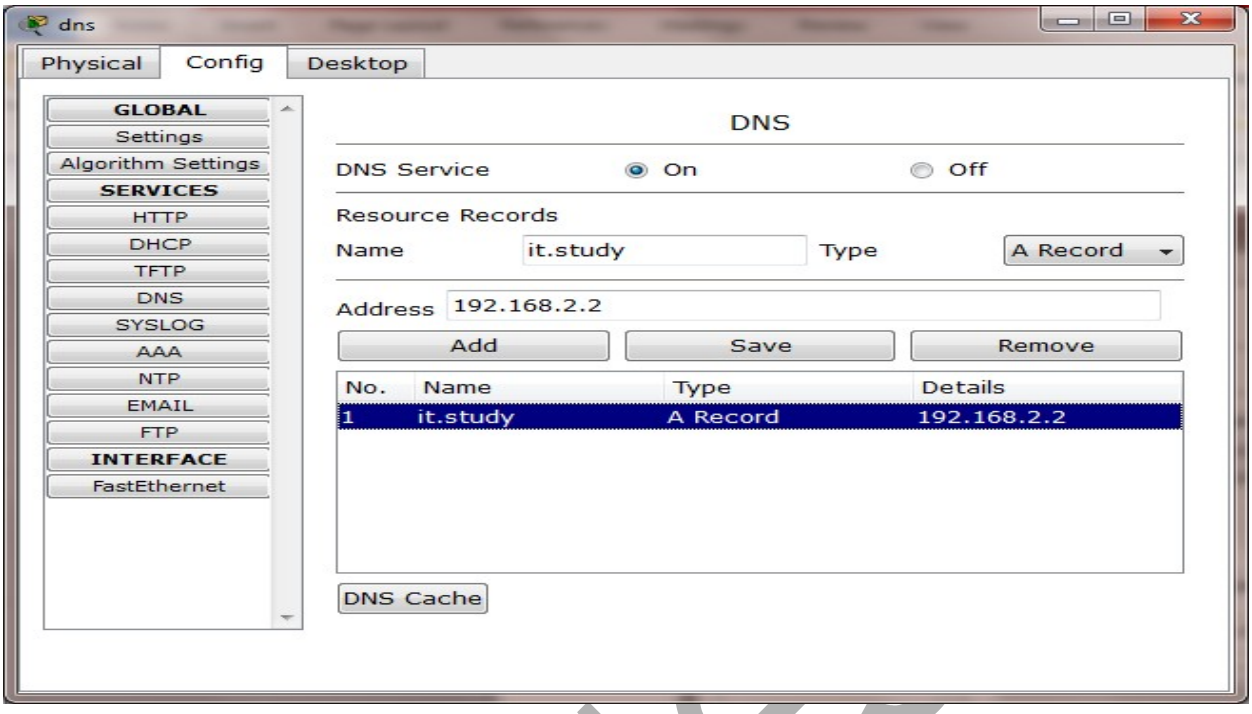
Step 7:-configuring DNS -> Check if HTTP is off



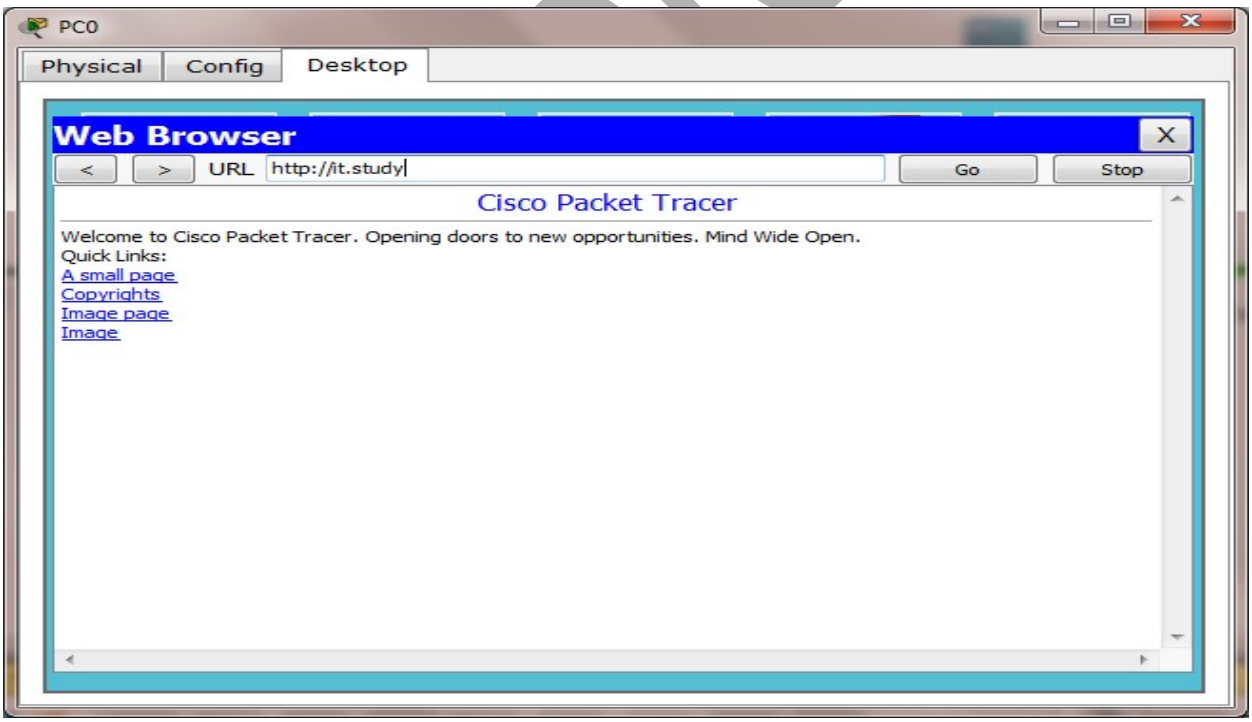
Step 8:-configuring DNS -> Check if DHCP is off



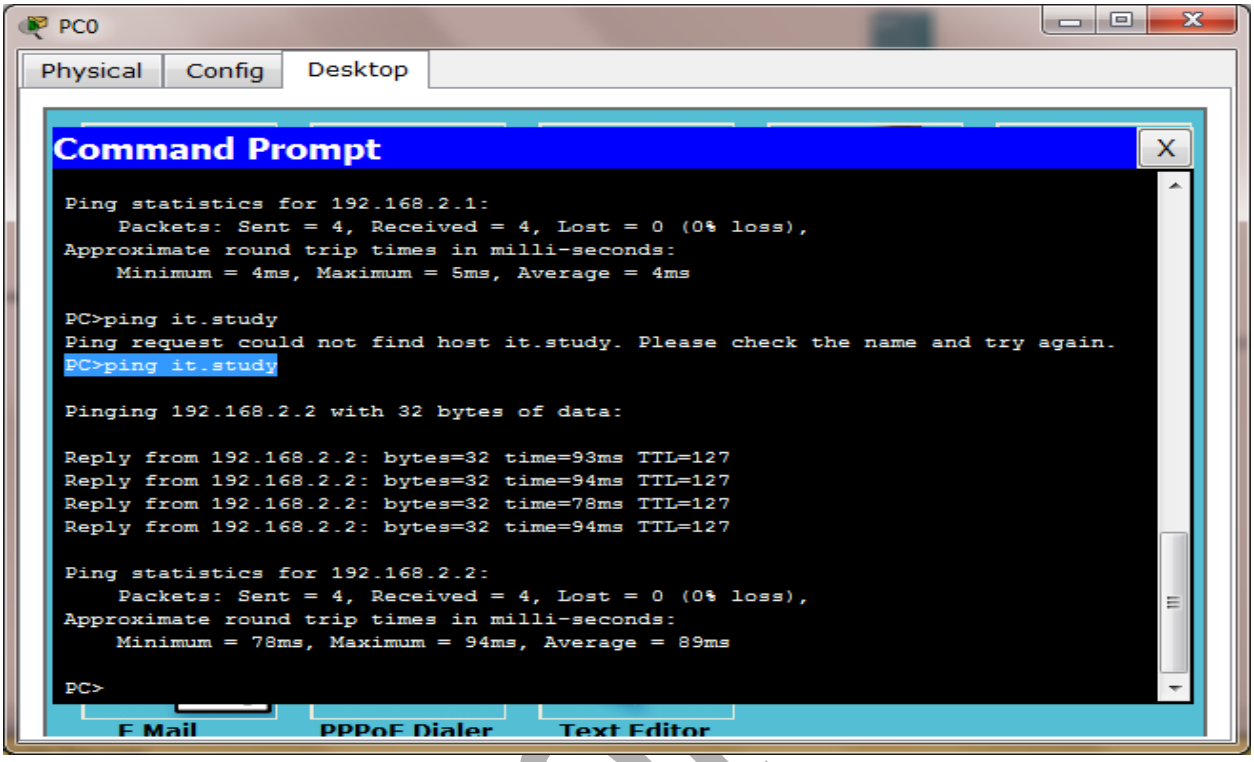
Step 9:-configuring DNS -> Check if DNS is On -> add name and address



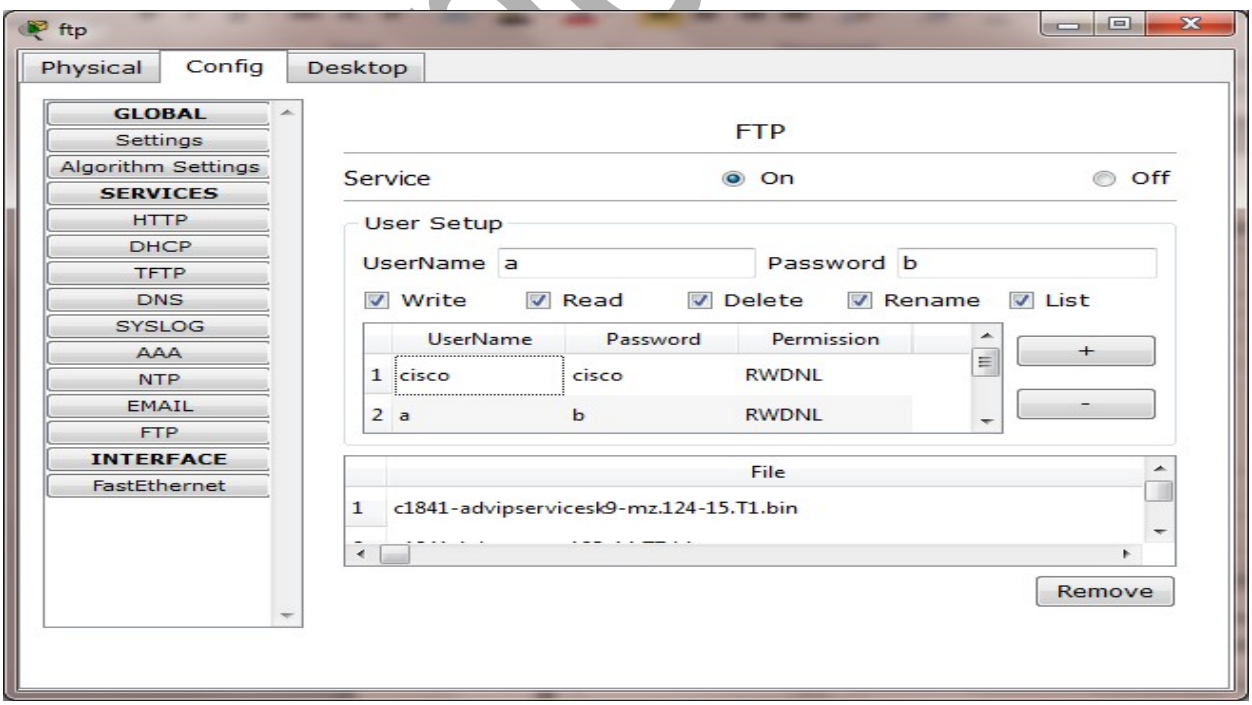
Step 10:-PC0 -> Desktop -> Web Browser -> Type url http://it.study



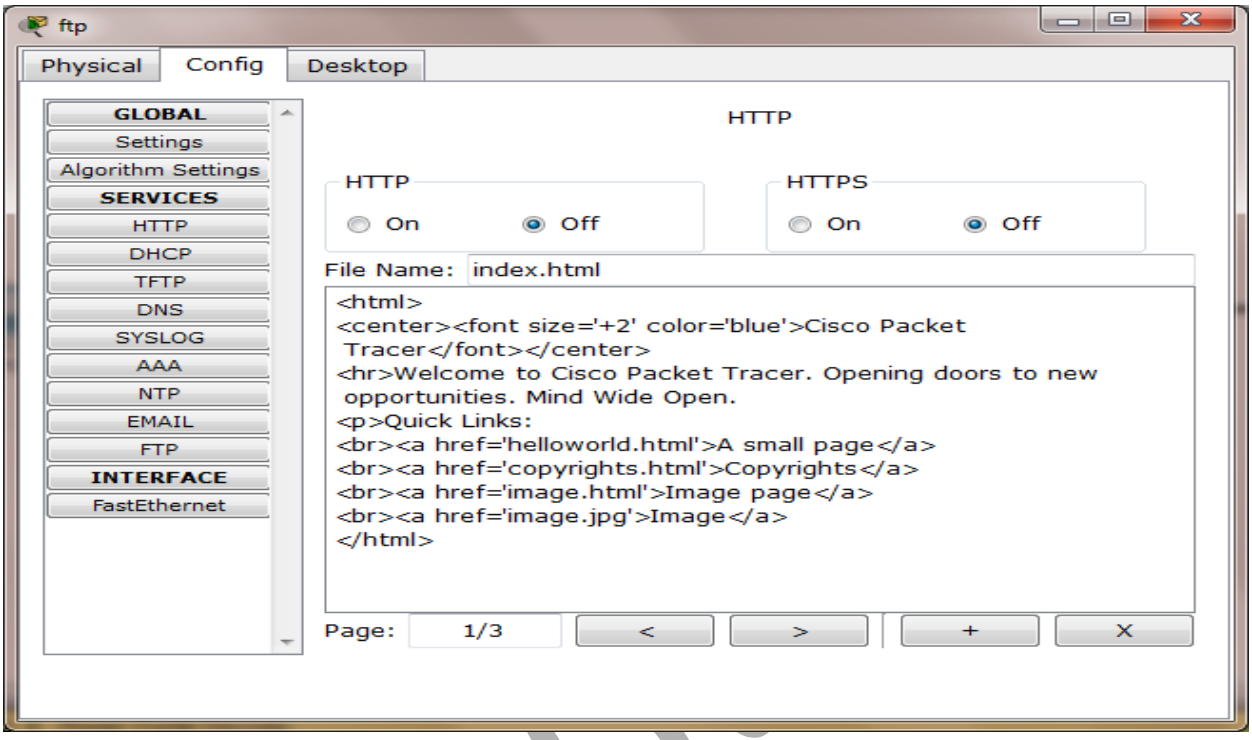
Step 11:-configuring PC0 -> Desktop -> Command Prompt -> Ping it.study



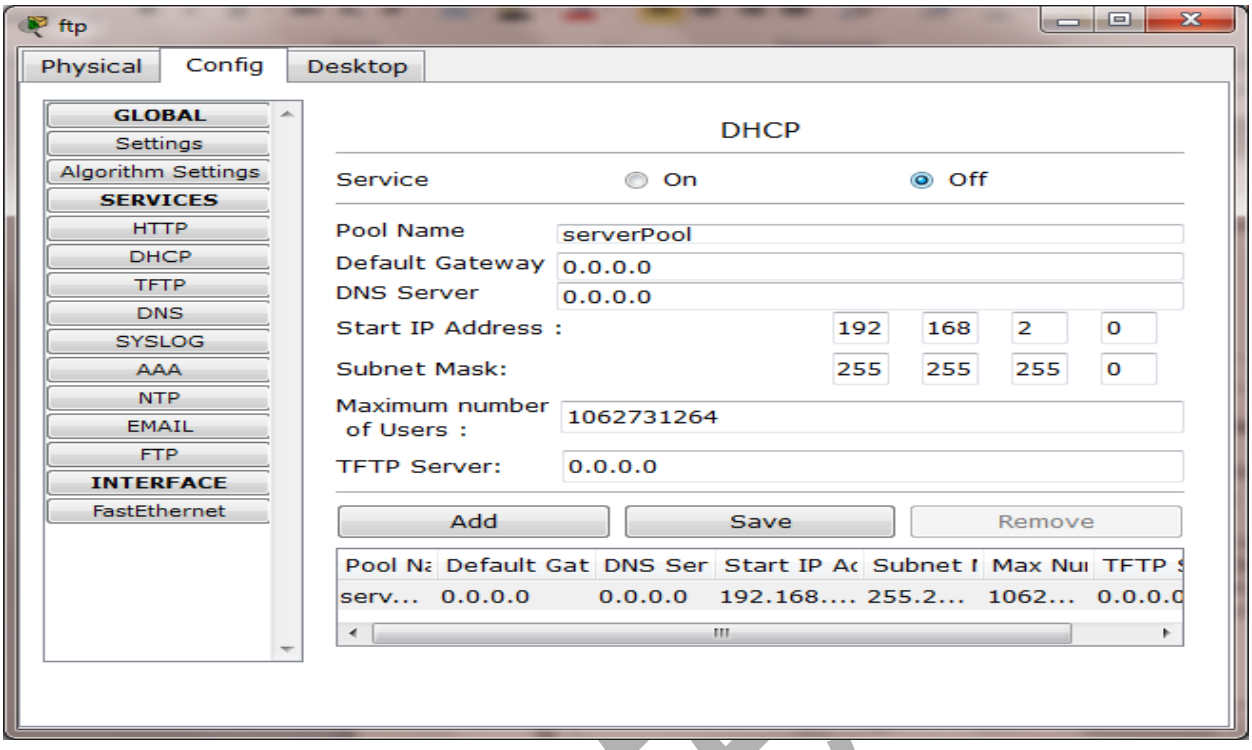
Step 12:-configuring FTP



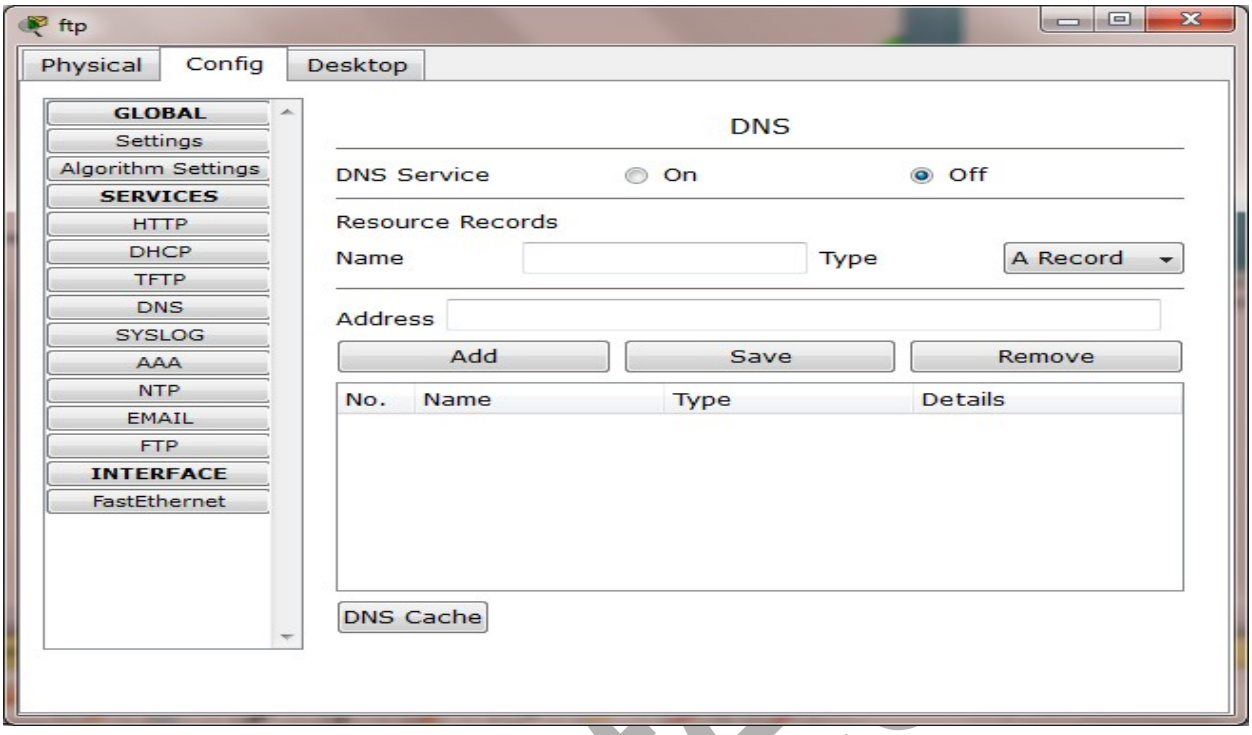
Step 13:-configuring HTTP in FTP -> Check if HTTP is off



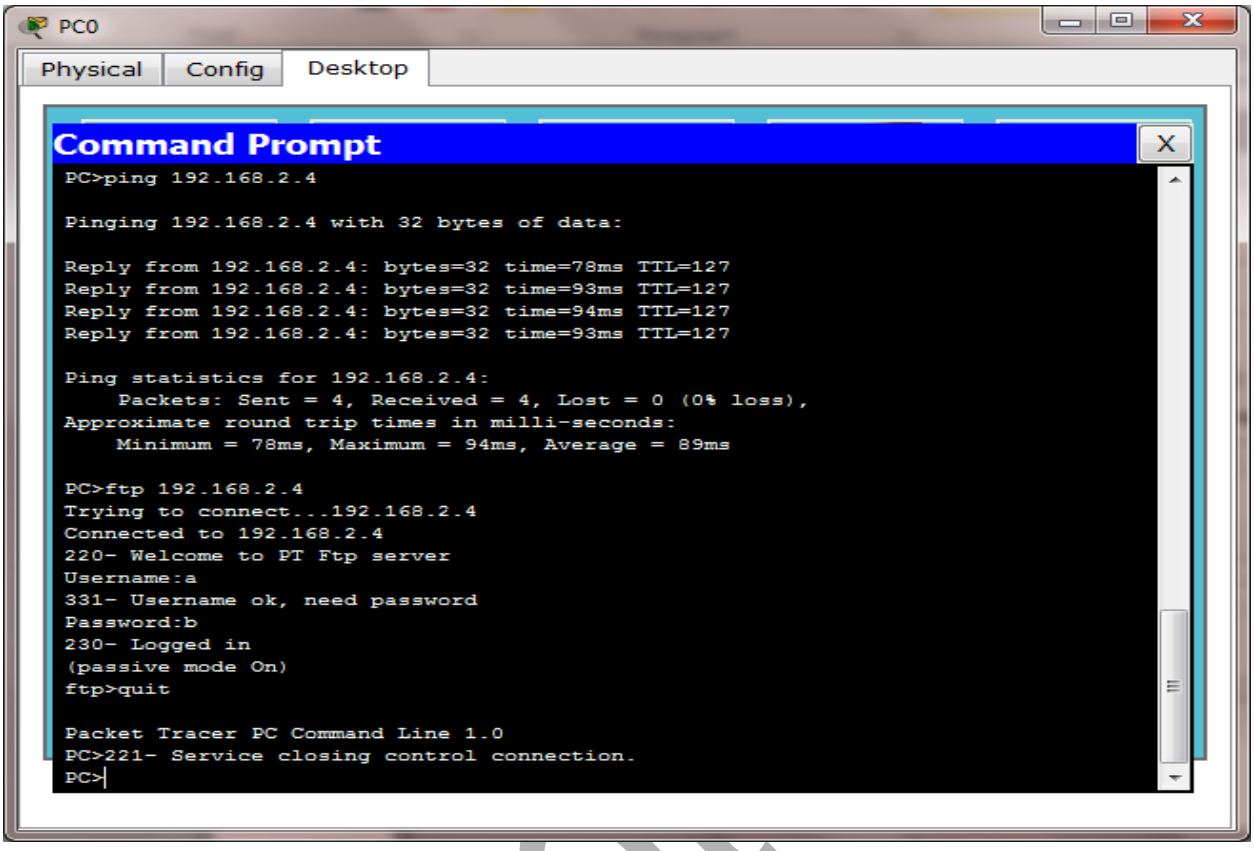
Step 14:-configuring DHCP in FTP -> Check if DHCP is off



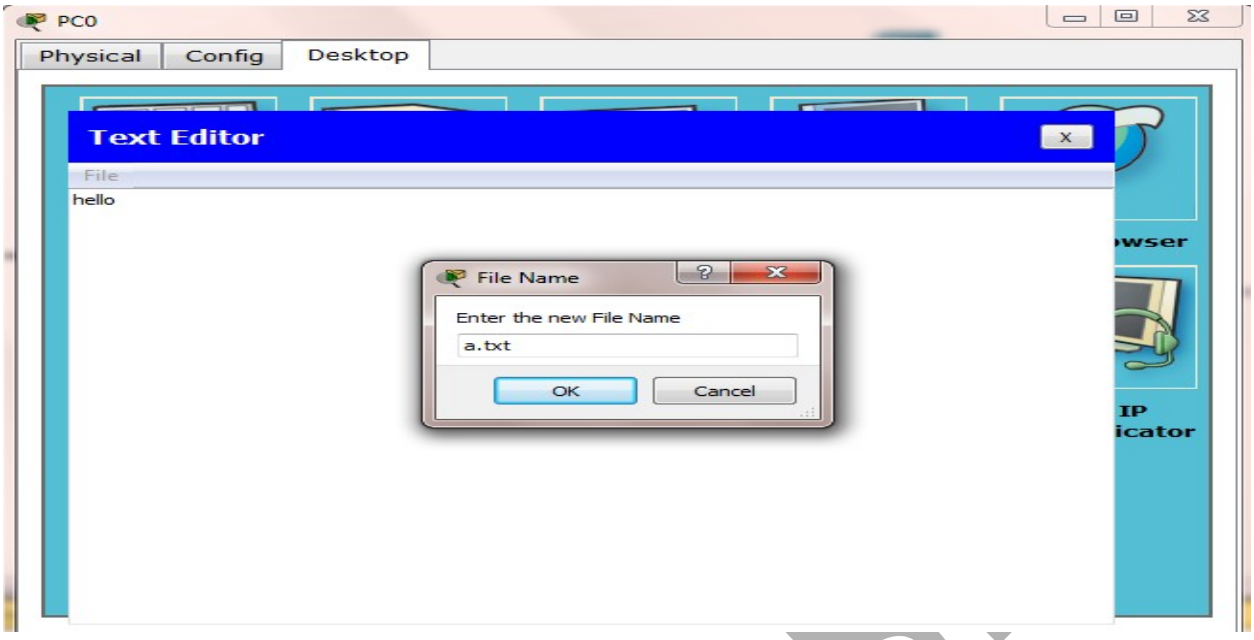
Step 15:-configuring DNS in FTP -> Check if DNS is off



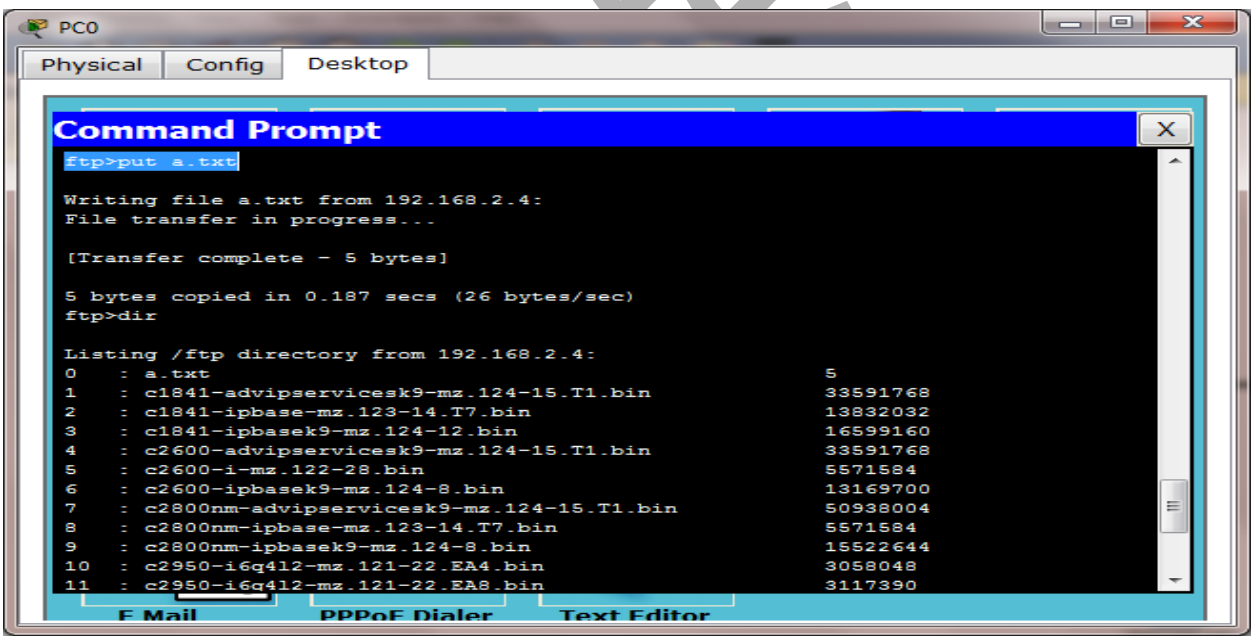
Step 16:-configuring PC0 -> Desktop -> Command Prompt -> ftp 192.168.2.4



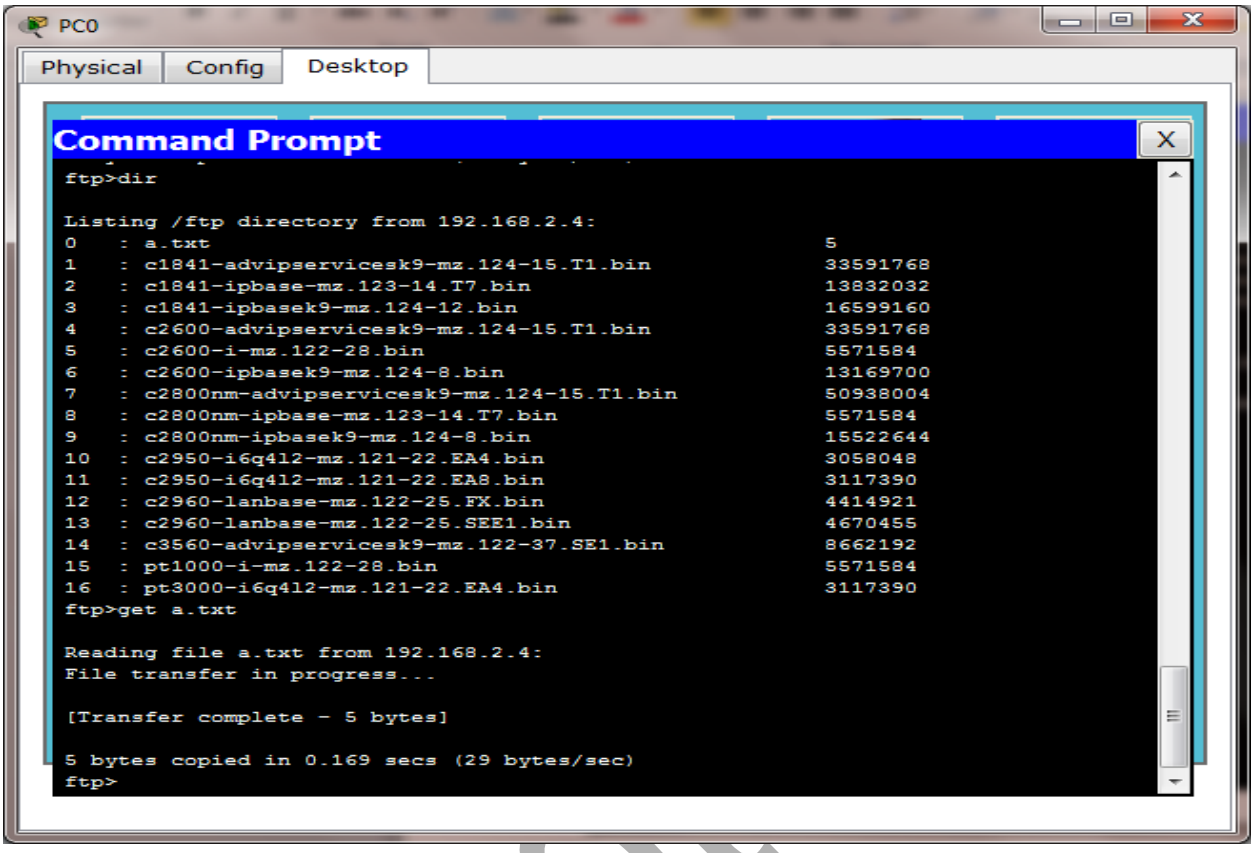
Step 17:- PC0 -> Desktop -> Text Editor-> Save it as a.txt



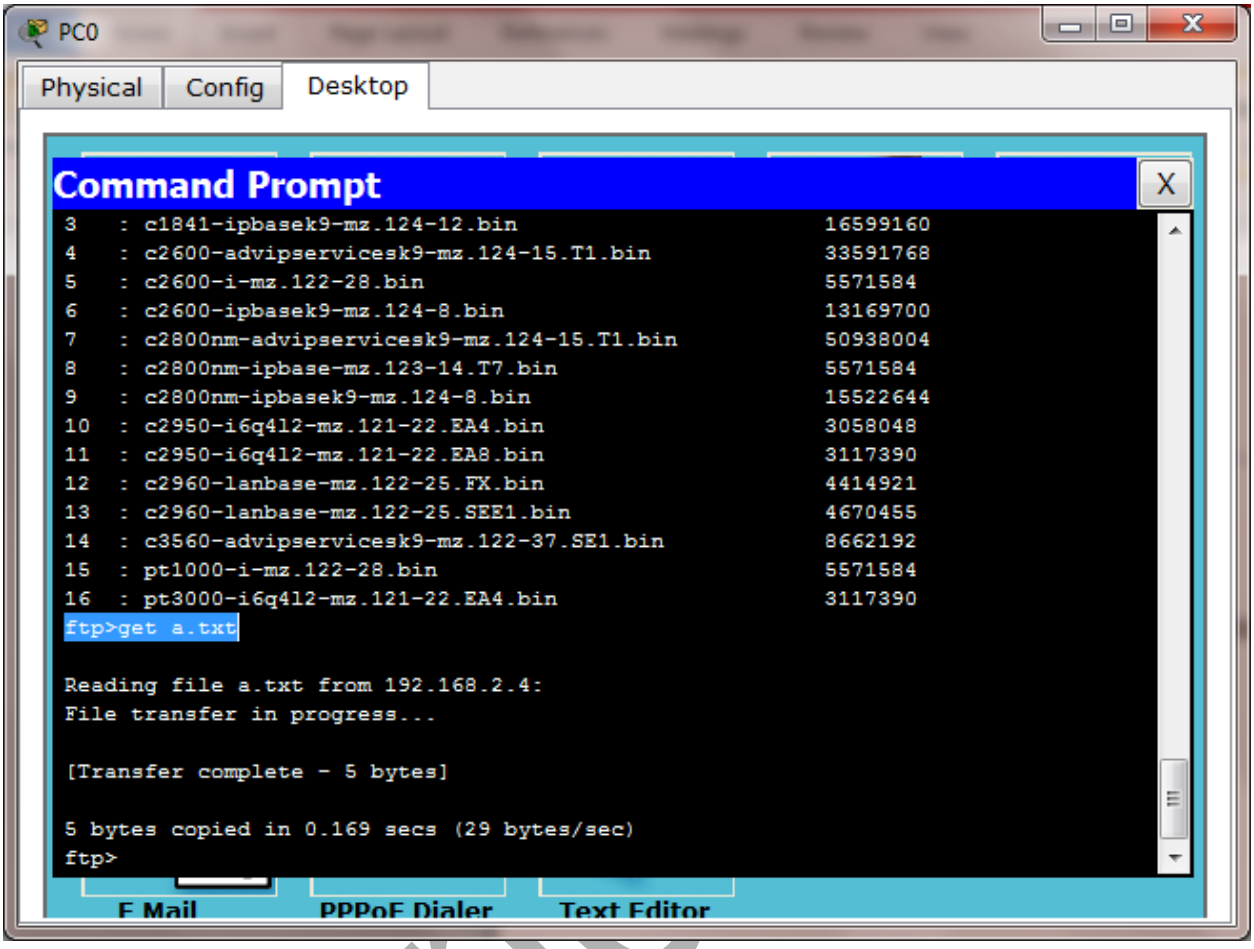
Step 18:-configuring PC0 -> Desktop -> Command Prompt -> put a.txt



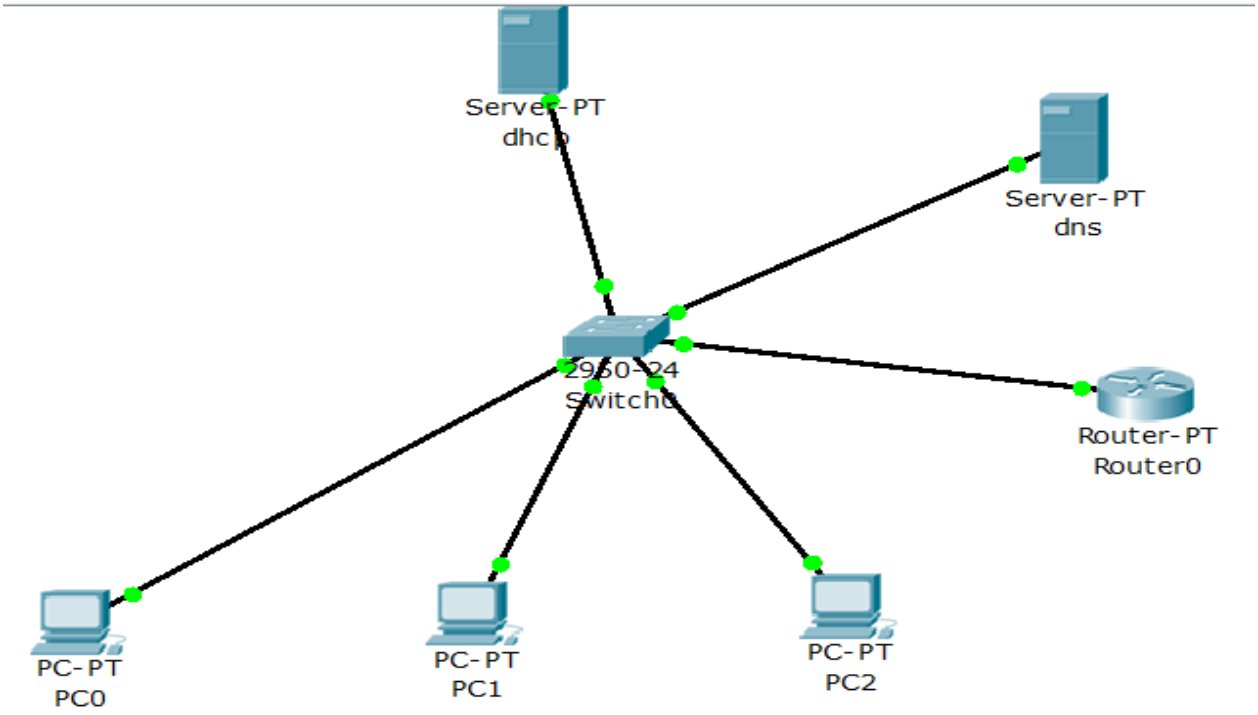
Step 19:-configuring PC0 -> Desktop -> Command Prompt -> dir



Step 20:-configuring PC0 -> Desktop -> Command Prompt -> get a.txt


PC0
Physical
Config
Desktop
Command Prompt
X
3 : c1841-ipbasek9-mz.124-12.bin 16599160
4 : c2600-advipservicesk9-mz.124-15.T1.bin 33591768
5 : c2600-i-mz.122-28.bin 5571584
6 : c2600-ipbasek9-mz.124-8.bin 13169700
7 : c2800nm-advipservicesk9-mz.124-15.T1.bin 50938004
8 : c2800nm-ipbase-mz.123-14.T7.bin 5571584
9 : c2800nm-ipbasek9-mz.124-8.bin 15522644
10 : c2950-i6q4l2-mz.121-22.EA4.bin 3058048
11 : c2950-i6q4l2-mz.121-22.EA8.bin 3117390
12 : c2960-lanbase-mz.122-25.FX.bin 4414921
13 : c2960-lanbase-mz.122-25.SEE1.bin 4670455
14 : c3560-advipservicesk9-mz.122-37.SE1.bin 8662192
15 : pt1000-i-mz.122-28.bin 5571584
16 : pt3000-i6q4l2-mz.121-22.EA4.bin 3117390
ftp>get a.txt
Reading file a.txt from 192.168.2.4:
File transfer in progress...
[Transfer complete - 5 bytes]
5 bytes copied in 0.169 secs (29 bytes/sec)
ftp>
E Mail
PPPoE Dialer
Text Editor

munotes.inPractical No:-8



Step 1:-Configuring Router0

Router>en

Router#config t

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

Router(config)#hostname r1

r1(config)#interface f0/3

%Invalid interface type and number

r1(config)#interface f0/0

r1(config-if)#ip address 192.168.1.1 255.255.255.0

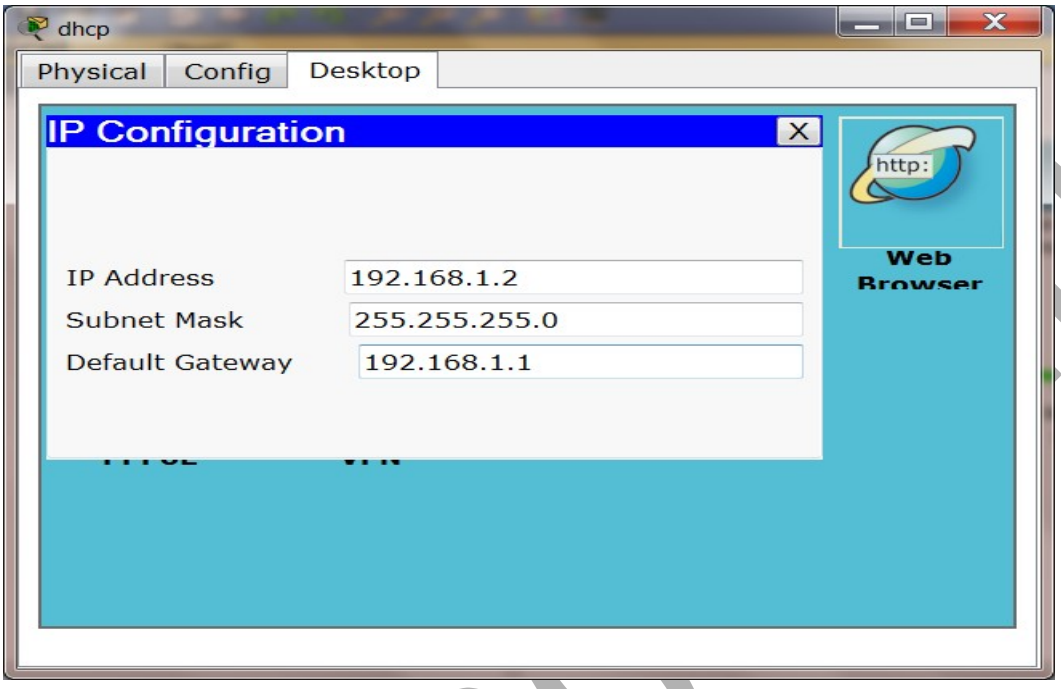
r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

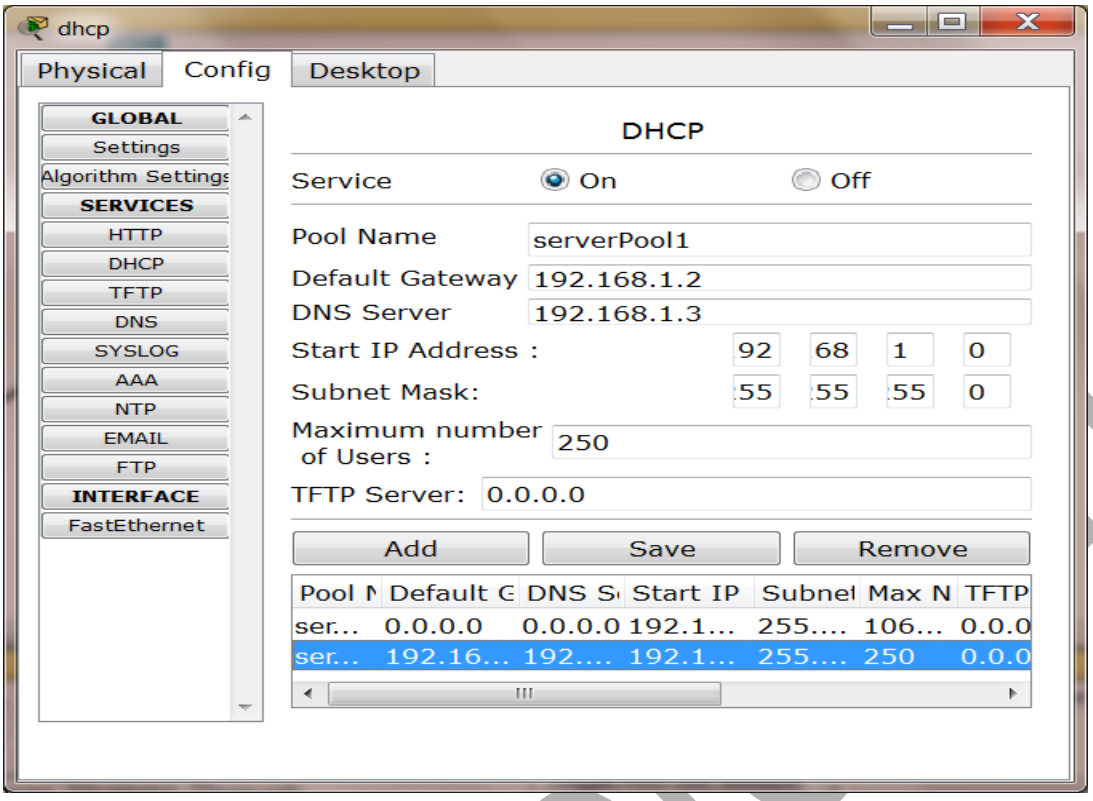
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

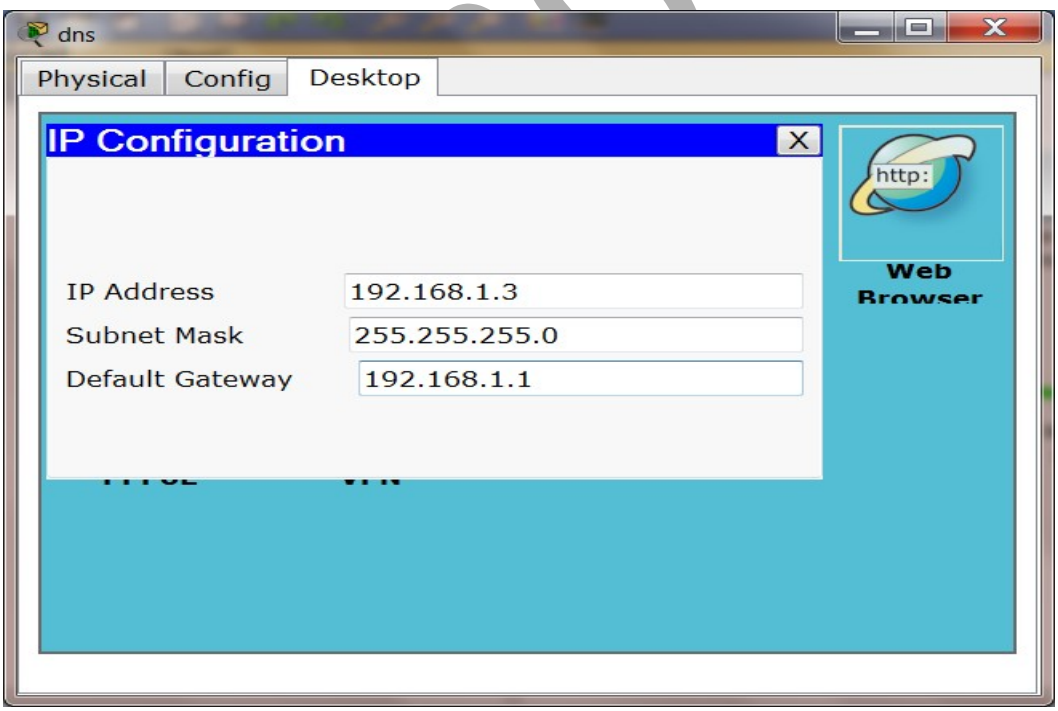
Step 2:-IP Configuring of server 0 i.e dhcp



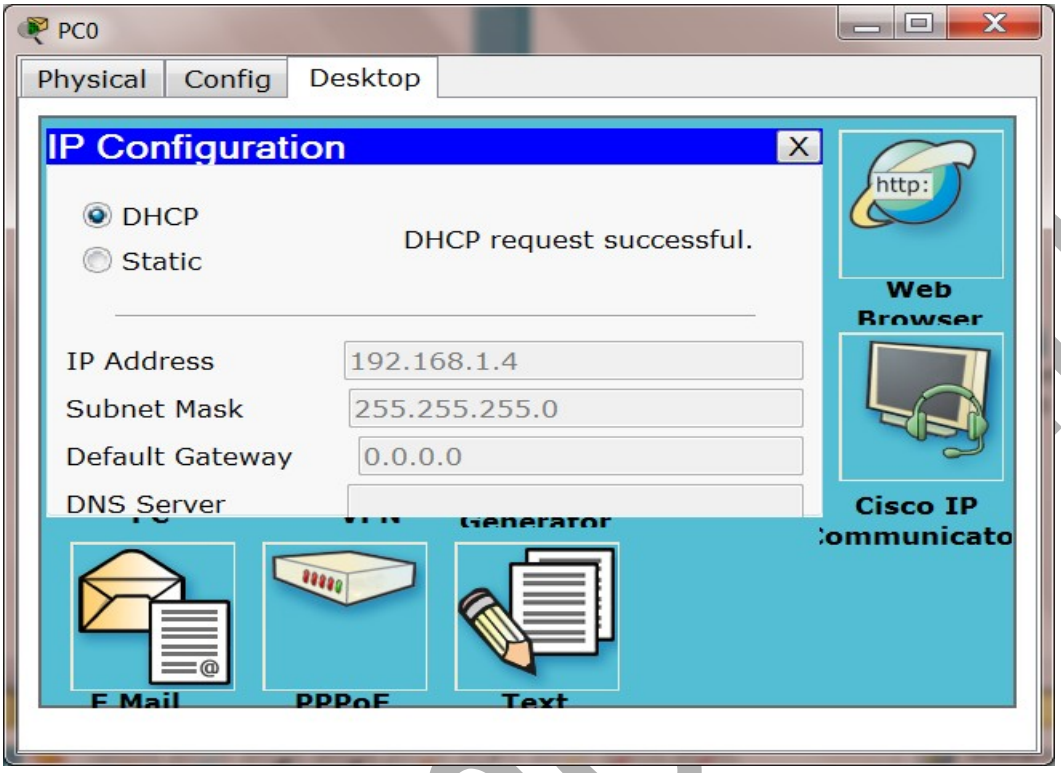
Step3:-Configuring DHCP



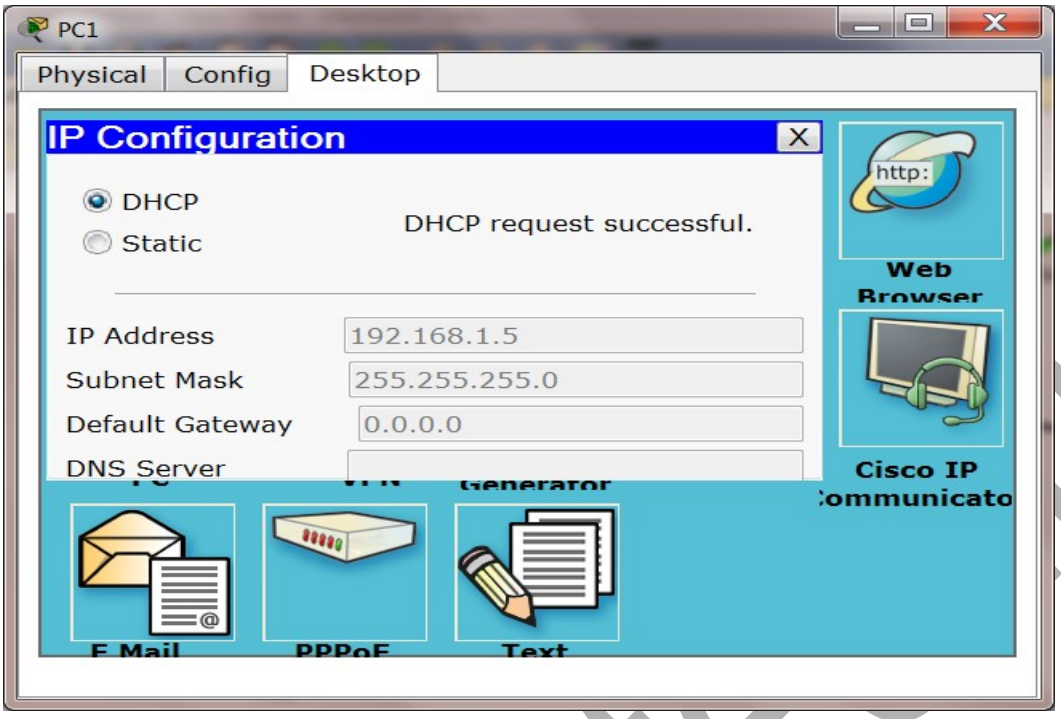
Step 4:- IP Configuring of server 1 i.e dns



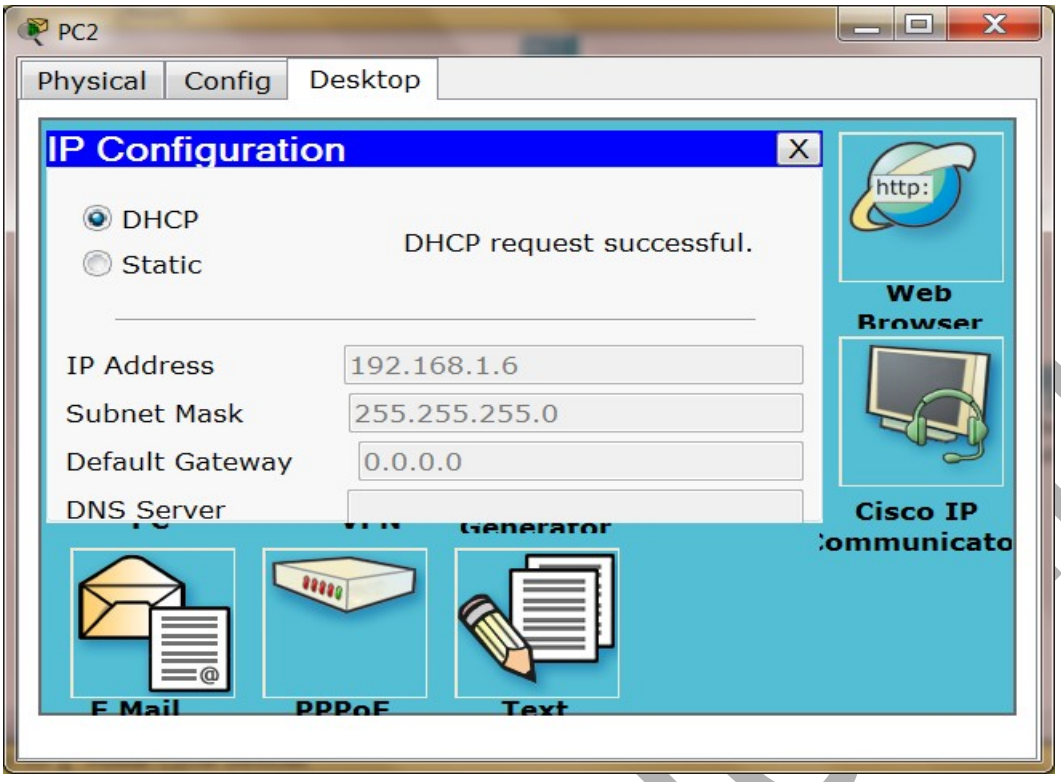
Step 5:-Configuring PC0



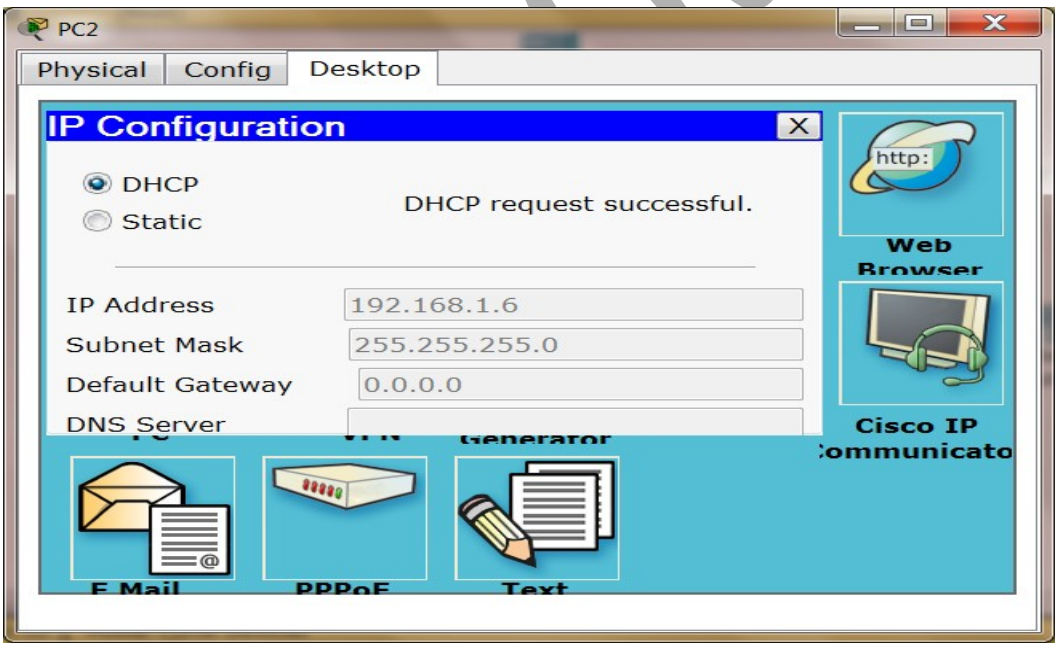
Step 6:-Configuring PC1



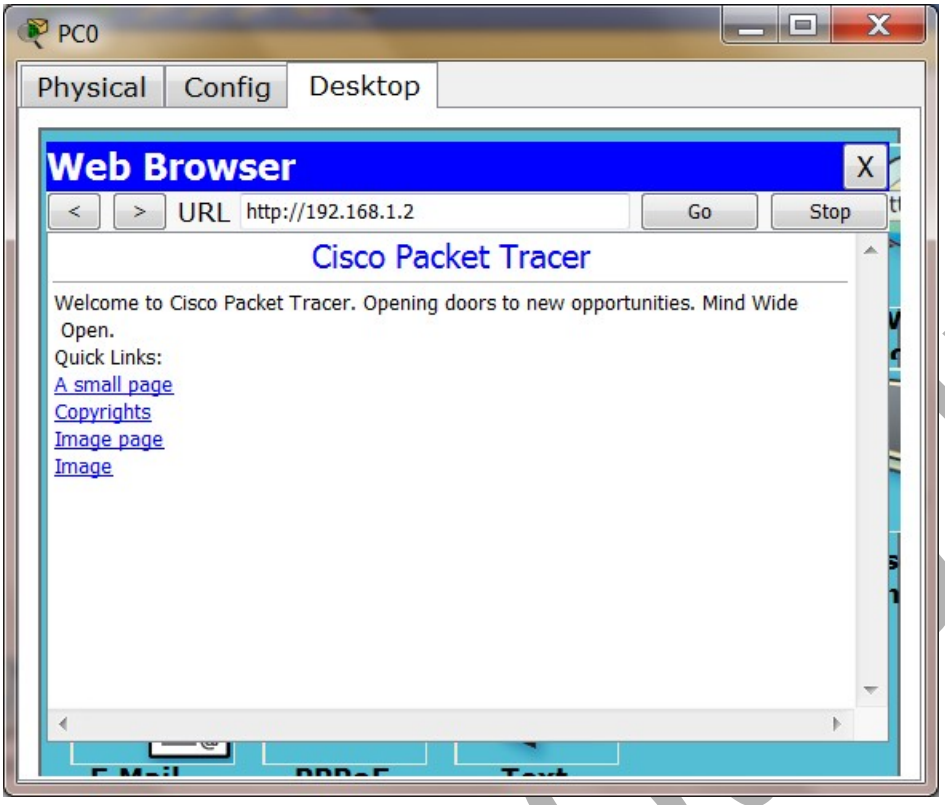
Step 7:-Configuring PC2



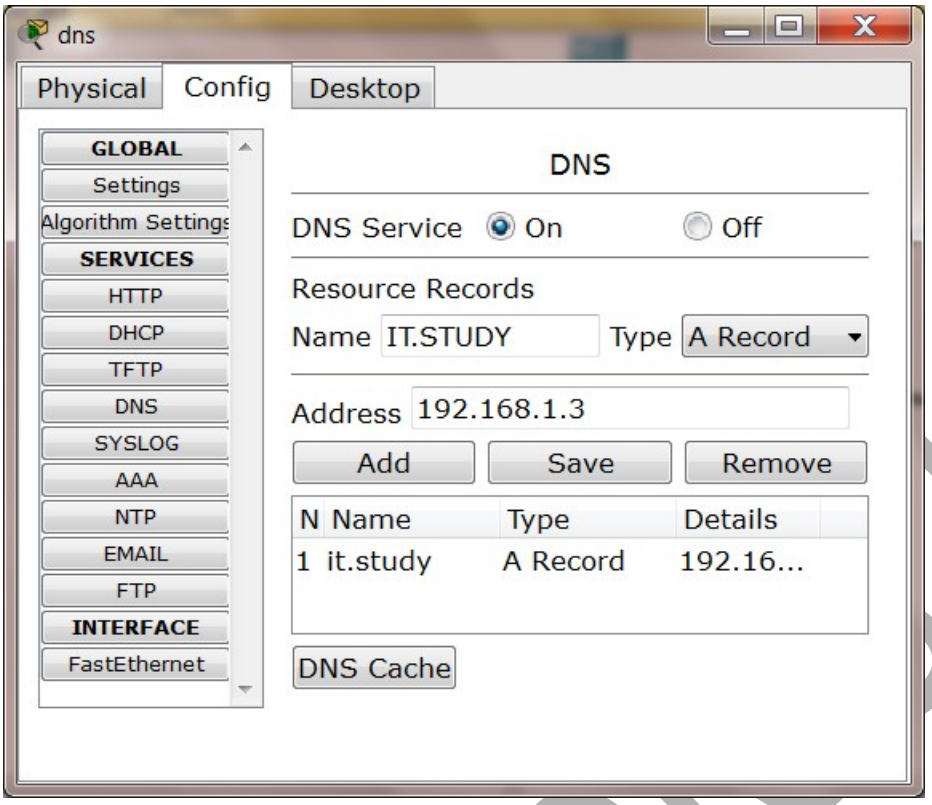
Step 8:-Go to PC0>desktop>command prompt



Step 9:-Go to PC0>desktop>web browser



Step 10:-Configuring DNS



Step 11:-Go to PC0>desktop>web browser