

DATE

EXPT. NO.

LAB:- 1

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PAGE NO. 1

- 1) netstat -a : Display all the connections and listening ports.
- 2) netstat -b : Display the executable involved in creating each connection or listening port.
- 3) netstat -e : Display Ethernet statistics. This may be combined with -s option.
- 4) netstat -f : Display Fully Qualified Domain Names (FQDN) for foreign address.
- 5) netstat -n : Display address and port numbers in numerical form.
- 6) netstat -o : Display the owning process associated with each connection.
- 7) netstat -P Proto : shows connections for the protocol specified by proto ; proto can be TCP, UDP, TCPV6 , UDPV6



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```
C:\Users\utoo0>netstat -a  
Active Connections  
Proto Local Address          Foreign Address        State  
TCP  0.0.0.0:139           DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:445           DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:1462          DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:1521          DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:8080          DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:8081          DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:8082          DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:8083          DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:8084          DESKTOP-EHGA8V0:0      LISTENING  
TCP  0.0.0.0:8085          DESKTOP-EHGA8V0:0      LISTENING
```

```
C:\Users\utoo0>netstat -e  
Interface Statistics  


|                     | Received  | Sent      |
|---------------------|-----------|-----------|
| Bytes               | 549739724 | 277184378 |
| Unicast packets     | 3268098   | 1183752   |
| Non-unicast packets | 6144      | 9264      |
| Discards            | 0         | 0         |
| Errors              | 0         | 0         |
| Unknown protocols   | 0         | 0         |


```

```
C:\Users\utoo0>netstat -f  
Active Connections  
Proto Local Address          Foreign Address        State  
TCP  127.0.0.1:11883         checkhost.local:63862 ESTABLISHED  
TCP  127.0.0.1:11884         checkhost.local:63856 ESTABLISHED  
TCP  127.0.0.1:11884         checkhost.local:63860 ESTABLISHED  
TCP  127.0.0.1:63862         checkhost.local:63801 ESTABLISHED  
TCP  127.0.0.1:63863         checkhost.local:63805 ESTABLISHED  
TCP  127.0.0.1:63865         checkhost.local:63981 ESTABLISHED  
TCP  127.0.0.1:63858         checkhost.local:11893 ESTABLISHED  
TCP  127.0.0.1:64359         checkhost.local:11844 ESTABLISHED  
TCP  127.0.0.1:64364         checkhost.local:11884 ESTABLISHED  
TCP  127.0.0.1:65001         checkhost.local:63862 ESTABLISHED
```

```
C:\Users\utoo0>netstat -b  
The requested operation requires elevation.
```

```
C:\Users\utoo0>netstat -s  
IPv4 Statistics  


|                                   |           |
|-----------------------------------|-----------|
| Packets Received                  | = 3862882 |
| Received Header Errors            | = 0       |
| Received Address Errors           | = 11568   |
| Datagrams Forwarded               | = 0       |
| Unknown Protocols Received        | = 0       |
| Received Packets Discarded        | = 694767  |
| Received Packets Delivered        | = 3862883 |
| Output Requests                   | = 1886265 |
| Routing Discards                  | = 0       |
| Discarded Output Packets          | = 13301   |
| Output Packet No Route            | = 576     |
| Reassembly Required               | = 296     |
| Reassembly Successful             | = 137     |
| Reassembly Failures               | = 0       |
| Datagrams Successfully Fragmented | = 0       |
| Datagrams Failing Fragmentation   | = 0       |
| Fragments Created                 | = 0       |

  
IPv6 Statistics  


|                            |           |
|----------------------------|-----------|
| Packets Received           | = 5918365 |
| Received Header Errors     | = 0       |
| Received Address Errors    | = 48      |
| Datagrams Forwarded        | = 0       |
| Unknown Protocols Received | = 0       |


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- 8) netstat -r : Display the routing table .
- 9) netstat -s : Display per-protocol statistic .
- 10) netstat -t : Display the current connection offload state .
- 11) netstat -x : Display network direct connections , listeners and shaped endpoint .
- 12) netstat -y : Display the Tcp connection template for all connections . Cannot be combined with other option .
- 13) netstat interval : Redisplays selected station passing interval seconds between each display .
- 14) netstat -a -all : Show both listing and non-listing sockets . With the interface option , show interface that are not up .
- 15) netstat -alnose : To show both listing and non listing sockets .



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C:\>ipconfig /all
Interface List
10...00 80 c1 76 38 cf : Microsoft Wi-Fi Direct Virtual Adapter
4...00 80 9a 3c 40 13 de : Microsoft Wi-Fi Direct Virtual Adapter #3
2...00 ff 00 02 f0 d3 : Microsoft Wi-Fi Direct Virtual Adapter #4
10...00 80 9a 3c 40 13 de : Intel(R) Wi-Fi 6 AX201 160MHz
1...
Software Loopback Interface 1

IPv4 Route Table
=====
Active Routes:
Network Destination Netmask Gateway Interface Metric
0.0.0.0 0.0.0.0 192.168.20.1 192.168.20.139 331
127.0.0.0 0.0.0.0 On-link 192.168.20.1 192.168.20.139 331
127.255.255.255 255.255.255.255 On-link 192.168.20.1 192.168.20.139 331
192.168.20.139 255.255.255.255 On-link 192.168.20.1 192.168.20.139 331
192.168.20.139 255.255.255.255 On-link 192.168.20.1 192.168.20.139 331
224.0.0.0 240.0.0.0 On-link 192.168.20.1 192.168.20.139 331
224.0.0.0 240.0.0.0 On-link 192.168.20.1 192.168.20.139 331
255.255.255.255 255.255.255.255 On-link 192.168.20.1 192.168.20.139 331
255.255.255.255 255.255.255.255 On-link 192.168.20.1 192.168.20.139 331
=====
Persistent Routes:
None

C:\>netstat -t
Active Connections
Proto Local Address Foreign Address State Offload State
TCP 127.0.0.1:111823 checkhost:64358 ESTABLISHED InHost
TCP 127.0.0.1:11804 checkhost:64359 ESTABLISHED InHost
TCP 127.0.0.1:11804 checkhost:64360 ESTABLISHED InHost
TCP 127.0.0.1:63862 checkhost:63862 ESTABLISHED InHost
TCP 127.0.0.1:63901 checkhost:63901 ESTABLISHED InHost
TCP 127.0.0.1:64005 checkhost:63905 ESTABLISHED InHost
TCP 127.0.0.1:64358 checkhost:11033 ESTABLISHED InHost
TCP 127.0.0.1:64359 checkhost:11804 ESTABLISHED InHost
TCP 127.0.0.1:64364 checkhost:11804 ESTABLISHED InHost
TCP 127.0.0.1:65001 checkhost:63862 ESTABLISHED InHost
TCP 192.168.20.139:49524 31.132.193.184:https ESTABLISHED InHost
TCP 192.168.20.139:63865 20.88.278.1:https TIME_WAIT InHost

ESTABLISHED
TCP [::]:5252 DESRTO-EM64T-VR:W9007 ESTABLISHED
TCP [::]:49497 DESRTO-EM64T-VR:W9007 ESTABLISHED
[2005:291:8000:3011:7884:5596:b409:9285]:49246 69-In-F100.3e180.net:8228 ES
TCP [2005:291:8000:3011:7884:5596:b409:9285]:49507 [2409:9800:2879:6409:a7d4:f6
ESTABLISHED
TCP [2005:291:8000:3011:7884:5596:b409:9285]:49559 b0m12x16-in-x80.3e180.net:ht
TIME_WAIT
TCP [2005:291:8000:3011:7884:5596:b409:9285]:49564 d0111x14-in-x80.3e180.net:ht
TIME_WAIT

ESTABLISHED
TCP 192.168.20.139:49524 51.132.193.184:HTTP ESTABLISHED
TCP 192.168.20.139:49530 51.132.193.184:HTTP ESTABLISHED
TCP 192.168.20.139:64502 20.88.278.1:https ESTABLISHED
TCP 192.168.20.139:64546 52.161.231.110:HTTP ESTABLISHED
TCP 192.168.20.139:64773 20.198.119.89:HTTP ESTABLISHED
TCP 192.168.20.139:64805 20.197.75.233:HTTP ESTABLISHED
TCP [::]:1921 [::]:1920 ESTABLISHED
TCP [::]:3:99007 [::]:3:1522 ESTABLISHED
TCP [2005:291:8000:3011:7884:5596:b409:9285]:49246 [2409:9800:2879:6409:a7d4:f6
ESTABLISHED
TCP [2005:291:8000:3011:7884:5596:b409:9285]:49559 [2409:9800:2879:6409:a7d4:f6
ESTABLISHED
TCP [2005:291:8000:3011:7884:5596:b409:9285]:49573 [2409:9803:6:d]:493 ESTABLISHED

C:\>netstat -y
Active Connections
Proto Local Address Foreign Address State Template
TCP 127.0.0.1:111823 checkhost:60358 ESTABLISHED Internet
TCP 127.0.0.1:11804 checkhost:60359 ESTABLISHED Internet
TCP 127.0.0.1:11804 checkhost:60360 ESTABLISHED Internet
TCP 192.168.29.139:49708 104.42.65.85:https TIME_WAIT
TCP 192.168.29.139:49709 104.209.16.88:https TIME_WAIT
TCP 192.168.29.139:49730 192.168.29.25:8000 ESTABLISHED Internet
TCP 192.168.29.139:49731 192.168.29.25:8000 ESTABLISHED Internet
TCP 192.168.29.139:49736 159.195.38.78:https ESTABLISHED Internet
TCP 192.168.29.139:49736 51.132.193.184:https TIME_WAIT
TCP 192.168.29.139:49739 104.42.79.236:https ESTABLISHED Internet
TCP 192.168.29.139:49740 104.42.79.236:https SYN_SENT Internet
TCP 192.168.29.139:49743 104.42.79.236:https SYN_SENT Internet
TCP 192.168.29.139:49744 104.42.79.236:https TIME_WAIT
TCP 192.168.29.139:49747 104.42.79.236:https ESTABLISHED Internet
TCP 127.0.0.1:63862 checkhost:63861 ESTABLISHED Internet
TCP 192.168.29.139:63865 20.88.278.1:https ESTABLISHED Internet
TCP 192.168.29.139:63865 20.88.278.1:https ESTABLISHED Internet

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(TCP 192.168.20.139:49524)



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- 16) netstat -at : To list all Tcp ports.
- 17) netstat -au : To list all UDP ports
- 18) netstat -l : To list all listing ports .
- 19) netstat -lt : To list only listing Tcp ports.
- 20) netstat -lu : To list only listing UDP ports.
- 21) netstat -ln : To list only unix ports.
- 22) netstat -s : List Statistics for UDP Ports .
- 23) netstat -st : To list statistics for TCP Ports .
- 24) netstat -pt : To display PID and Program names .
- 25) netstat -c : To print netstat information .
continuously .
- 26) netstat -verbose : To get non-supportive address families in the system .

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```
C:\Users\utoo>netstat -interval  
Displays protocol statistics and current TCP/IP network connections.  
NETSTAT [-n] [-b] [-e] [-f] [-s] [-w] [-o proto] [-r] [-v] [-t] [-x] [-y] [interval]  
[-a] Displays all connections and listening ports.  
[-b] Displays the executable involved in creating each connection or  
listening port. In some cases well-known executables host  
multiple independent components, and in these cases the  
sequence of components involved in creating the connection  
or listening port is displayed. To this end the executable  
name is in [] at the bottom, on top is the component it called,  
and so forth until TCP/IP was reached. Note that this option  
can be time-consuming and will fail unless you have sufficient  
permissions.  
[-e] Displays Ethernet statistics. This may be combined with the -v  
option.  
[-f] Displays Fully Qualified Domain Names (FQDN) for foreign  
addresses.  
[-h] Displays the time spent by a TCP connection in its current state.  
[-n] Displays addresses and port numbers in numerical form.  
[-o proto] Shows connections for the protocol specified by proto; proto
```

```
C:\Users\utoo>netstat -p proto  
Displays protocol statistics and current TCP/IP network connections.  
NETSTAT [-n] [-b] [-e] [-f] [-s] [-w] [-o proto] [-r] [-v] [-t] [-x] [-y] [interval]  
[-a] Displays all connections and listening ports.  
[-b] Displays the executable involved in creating each connection or  
listening port. In some cases well-known executables host  
multiple independent components, and in these cases the  
sequence of components involved in creating the connection  
or listening port is displayed. To this end the executable  
name is in [] at the bottom, on top is the component it called,  
and so forth until TCP/IP was reached. Note that this option  
can be time-consuming and will fail unless you have sufficient  
permissions.  
[-e] Displays Ethernet statistics. This may be combined with the -v  
option.  
[-f] Displays Fully Qualified Domain Names (FQDN) for foreign  
addresses.  
[-h] Displays the time spent by a TCP connection in its current state.
```

```
C:\Users\utoo>netstat -s  
Active Connections  
Proto Local Address          Foreign Address        State      PID  
TCP  0.0.0.0:13833           checkhost:64388  ESTABLISHED 4340  
TCP  127.0.0.1:64380          checkhost:64389  ESTABLISHED 4340  
TCP  127.0.0.1:64381          checkhost:64384  ESTABLISHED 4340  
TCP  127.0.0.1:63982          checkhost:65891  ESTABLISHED 4112  
TCP  127.0.0.1:63981          checkhost:64005  ESTABLISHED 1860  
TCP  127.0.0.1:64889          checkhost:63981  ESTABLISHED 12852
```

```
C:\Users\utoo>netstat -x  
Active NetworkDirect Connections, Listeners, SharedEndpoints  
Mode IfIndex Type          Local Address          Foreign Address          PID
```



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- 27) netstat -af | grep ssh : To set the port in which the program is running .
- 28) netstat -an | grep 1.801 : To get the process which is using the given port .
- 29) netstat -i : To get list of network interface .
- 30) netstat -ie : To display extended information on interface .

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LAB:-2

Setup FTP Server and Client: Ensure that an FTP server is running, and a client is ready to connect.

Windows:

Setting up FTP Server:

1. Install Internet Information Services (IIS):

- Open Control Panel > Programs and Features > Turn Windows features on or off.
- Check "Internet Information Services" and FTP Server.
- Click OK to install.

2. Configure FTP site:

- Open IIS Manager.
- Right-click "sites" > Add FTP site.
- Provide a name and choose a physical path for your FTP site.
- Choose "No SSL" if you are testing locally.
- Assign permission for users.

3. Allow Firewall Rules (if applicable):

- Open Windows Firewall
- Allow FTP traffic on ports 20 and 21.

Setting up FTP client:

1. Use Built-in Windows FTP client or Install Third-Party Client (e.g., FileZilla);
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- Open command prompt .
- Type 'FTP localhost' and press Enter .
- Enter the Username and Password as configured in the FTP server .

2. Access Files:

- Use 'get' and 'put' commands to download and upload files respectively .

UDP Header Fields and operations (TFTP Session Control)

Required tools:

- Wireshark
- TFTP client and server setup

UDP Header Fields:

- 1) Source Port
- 2) Destination Port
- 3) Length

Windows: 4) Checksum

Setting up TFTP server:

- 1) Install TFTP Server Software :

Download and install the software from the official site .

Run the software and choose a directory

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Vivo AI camera servers settings .

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2) Set up security, logging, or other specific configurations as needed.

3) Allow firewall rules (if applicable):

Open Windows Firewall

Allow TFTP traffic on port 69.

Setting up TFTP client:

1) Use built-in Windows TFTP Client:

Open Command Prompt.

Use tftp command followed by the host and operations like get or put.

For example: tftp localhost get filename.tft.

Filters:

1) Protocol Filters:

- HTTP Traffic: 'http'

- ICMPv6 Traffic: 'icmpv6'

2) Port Filters:

- SSH Traffic (TCP port 22): 'tcp.port==22'

- Non-DNS Traffic (UDP port 53): 'udp.port!=53'

3) IP Address Filters:

Blocks packets from specific source IP: 'ip.src=='
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- Pakets to specific destination IP : 'ip.dst == 192.168.2.20'

4) Logical operators:

- TCP Packets ~~with~~ from specific source IP : 'ip.src && tcp == 192.168.1.1'

- ~~not~~ ARP or DHCP Packets : 'http || bootP'

5) Comparison operators:

- TCP Packets with length > 500 : 'tcp.len > 500'

- UDP Packets with length <= 300 : 'udp.length <= 300'

6) Expression Filters:

- HTTP GET Requested : 'http.request.method == "GET"'

- DNS Queries for specific Domain : 'dns.query.name contains "google.com"'

7) Conversation and flow filters:

- Specific TCP Stream Number 10 : 'tcp.stream == 10'

- Specific UDP Stream Number 5 : 'udp.stream == 5'

8) Frame Filters:

- Frames with length > 100 bytes : 'frame.len > 100'

- 200th Frame : 'frame.number == 200'



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③ Custom Filters:

- SMTP Traffic with Specific Source Port: 'smtp
B&F tcp. srcPort == 95'
- TCP Packets with SYN Flag Set: 'tcp.flags.syn==1'

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LAB: 3

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IPv4 Routing Configuration : (static)

Router > en

Router # cons t

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

Router (config) # int gig 0/0

Router (config-if) # ip add 192.168.1.1 255.255.255.0

Router (config-if) # no shut

Router (config-if) #

%LINK-5-CHANGED: Interface GigabitEthernet 0/0, changed state to UP

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

Router (config-if) # exit

Router (config) # int gig 0/1

Router (config-if) # ip add 192.168.1.1 255.255.255.0

Router (config-if) # no shut

Router (config-if) #

%LINK-5-CHANGED: Interface GigabitEthernet 0/1, changed state to UP

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/1, changed state to UP.

Router (config-if) # exit

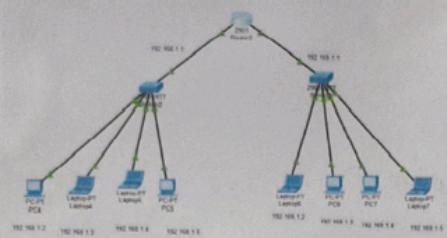
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Physical Config Desktop Programming Attributes

iOS Command Line Interface

```

2 Gigabit Ethernet interfaces
3 Line-speed serial links to remote interfaces
Memory usage is as follows with memory allocated:
234K bytes of non-volatile configuration memory;
234K bytes of ATA System Configuration <--> (ReadWrite)
234K bytes of ATA System CompactFlash <--> (ReadWrite)

---- System Configuration Dialog ----

Would you like to enter the initial configuration dialog? [yes/no]: no

Please enter&lt;CR> to get started

<cr>

Router>#config t
Enter configuration commands, one per line. End with CNTL/D.
Router(config)#ip http
Router(config-if)#ip address 192.168.1.1
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#ip interface GigabitEthernet0/0, changed state to up
ROUTER#<->[WAN] Line protocol on Interface GigabitEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#ip interface GigabitEthernet0/1, changed state to up
ROUTER#<->[WAN] Line protocol on Interface GigabitEthernet0/1, changed state to up
Router(config-if)#exit
Router(config)#

```

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Physical Config Desktop Programming Attributes

Command Prompt

```

Cisco Packet Tracer PC Command Line 1.0
C:\pinging 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\>

```



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IPV6 Routing Configuration: (static)

Router> en

Router# conf t

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

Router(config)# ipv6 unicast-routing

Router(config)# int gig 0/0

Router(config-if)# ipv6 add 2001:DB8:0:1::1/64

Router(config-if)# no shut

Router(config-if)#

% LINK-5-CHANGED: Interface GigabitEthernet 0/0, changed state to UP

% LINEPROTO-5-UPDOWN: Line Protocol on Interface GigabitEthernet 0/0, changed state to UP

Router(config-if)# exit

Router(config)# ipv6 unicast-routing

Router(config)# int gig 0/1

Router(config-if)# ipv6 add 2001:DB8:0:2::1/64

Router(config-if)# no shut

Router(config-if)#

% LINK-5-CHANGED: Interface GigabitEthernet 0/1, changed state to UP

% LINEPROTO-5-UPDOWN: Line Protocol on Interface

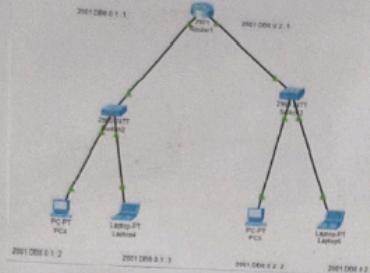
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GigabitEthernet 0/1, changed state to UP.

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```
Physical Config Desktop Programming Attributes

CompuTronix

Cisco Packet Tracer PC Command Line 1.0
Clamping 2001(0B#0x0)@12

Pinging 2001(0B#0x0)@12 with 32 bytes of data:
Reply from 2001(0B#0x0)@12: bytes=32 time=0ms TTL=128

Ping statistics for 2001(0B#0x0)@12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms Maximum = 0ms Average = 0ms

Clamping 2001(0B#0x0)@12

Pinging 2001(0B#0x0)@12 with 32 bytes of data:
Reply from 2001(0B#0x0)@12: bytes=32 time=0ms TTL=127

Ping statistics for 2001(0B#0x0)@12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms Maximum = 0ms Average = 0ms
```



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LAB:-4

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IPV4 Router Configuration: (DHCP)

Router> en

Router# cons t

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

Router (consig)# int gig-0/0

Router (consig-if)# ip add 192.162.0.1 255.255.255.0

Router (consig-if)# no shut

Router (consig-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to UP

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to UP

Router (consig-if)# exit

Router (consig)# ip dhcp pool Tomm

Router (consig-dhcp-config)# network 192.162.0.0 255.255.255.0

Router (dhcp-config)# default-router 192.162.0.1

Router (dhcp-config)# exit

Router (consig)#

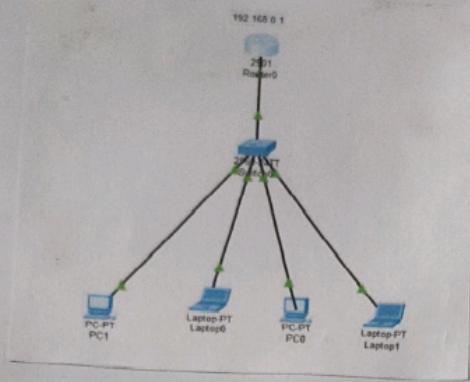
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EXPT. NO.

Desktop	Programming	Attributes	
<p>FastEthernet0</p> <p>Port Status <input type="radio"/> Bandwidth <input type="radio"/> Collision <input type="radio"/> MAC Address</p> <p>IP Configuration <input checked="" type="radio"/> DHCP <input type="radio"/> Static IPv4 Address Subnet Mask</p> <p>IPv6 Configuration Automatic <input type="radio"/> Manual IPv6 Address Link Local Address FE80:201:64FF:FE00:10CA</p> <p>0001:64E8:10CA</p> <p>100Base-TX <input type="radio"/> 10 Mbps <input type="radio"/> 100 Mbps Half Duplex <input type="radio"/> Full Duplex <input checked="" type="radio"/> Auto-negotiate</p>			

The logo consists of the word "WIDE" in a bold, sans-serif font, enclosed within a circular frame. The frame is divided into two horizontal sections: a solid black top section and a white bottom section. The letters "WIDE" are white on the black background and black on the white background.

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Vivo AI camera

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DATE
EXPT. NO.

IPv6 Router Configuration: (Automatic)

Router> en

Router# conf t

② Enter configuration commands, one per line, End with CNTL/Z.

Router (config)# ipv6 unicast-routing

Router (config)# int gig 0/0

Router (config-if)# ipv6 add 2001:0B8:0:1::1/64

Router (config-if)# no shut

Router (config-if)#

%LINK-5-CHANGED: Interface gigabitEthernet 0/0, changed state to UP

%LINEPROTO-5-UPDOWN: Line Protocol on Interface gigabitEthernet 0/0, changed state to UP.

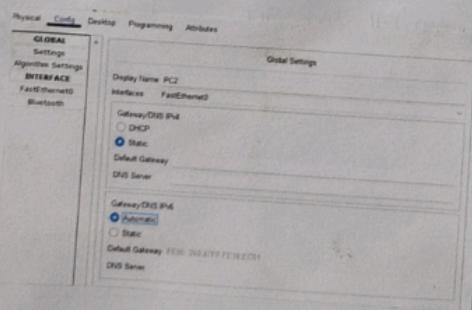
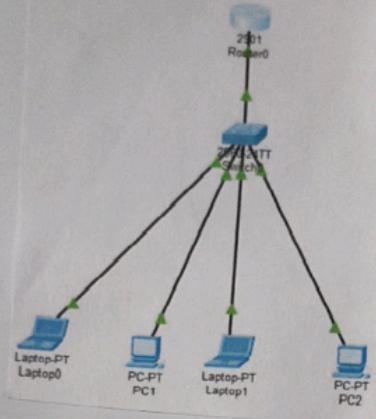
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