

**Practical No 3A: Run and analyse the output of the following commands in Linux**

1. Ipconfig
2. Ping
3. Netstat
4. Tracert

**1.Ipconfig**

```
Command Prompt      X + ▾

Microsoft Windows [Version 10.0.26100.6899]
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C:\Users\student>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . . . :
Link-local IPv6 Address . . . . . : fe80::3971:d0f6:e762:ec21%4
IPv4 Address . . . . . : 192.168.7.139
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.1

Ethernet adapter VMware Network Adapter VMnet1:

Connection-specific DNS Suffix . . . :
Link-local IPv6 Address . . . . . : fe80::977a:42b7:e9f9:9f87%11
IPv4 Address . . . . . : 192.168.132.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Ethernet adapter VMware Network Adapter VMnet8:

Connection-specific DNS Suffix . . . :
Link-local IPv6 Address . . . . . : fe80::b653:8cdd:1155:224%12
IPv4 Address . . . . . : 192.168.80.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

## 2.Ping

```
C:\Users\student>ping instagram.com

Pinging instagram.com [57.144.242.34] with 32 bytes of data:
Reply from 57.144.242.34: bytes=32 time=2ms TTL=57

Ping statistics for 57.144.242.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms
```

## 3.Netstat

```
Command Prompt

C:\Users\student>netstat

Active Connections

Proto  Local Address          Foreign Address        State
TCP    127.0.0.1:49679        12-29:49680          ESTABLISHED
TCP    127.0.0.1:49680        12-29:49679          ESTABLISHED
TCP    127.0.0.1:49681        12-29:49682          ESTABLISHED
TCP    127.0.0.1:49682        12-29:49681          ESTABLISHED
TCP    127.0.0.1:62121        12-29:62122          ESTABLISHED
TCP    127.0.0.1:62122        12-29:62121          ESTABLISHED
TCP    127.0.0.1:62123        12-29:62124          ESTABLISHED
TCP    127.0.0.1:62124        12-29:62123          ESTABLISHED
```

## 4. Tracert

```
C:\Users\student>tracert instagram.com

Tracing route to instagram.com [57.144.176.34]
over a maximum of 30 hops:

 1  <1 ms    <1 ms    <1 ms  192.168.0.1
 2  <1 ms    <1 ms    <1 ms  203.115.126.33
 3  2 ms     2 ms     2 ms   10.115.114.53
 4  2 ms     2 ms     3 ms   103.77.108.3
 5  7 ms     5 ms     3 ms  po4000.asw02.bom2.tfbnw.net [147.75.214.176]
 6  2 ms     2 ms     2 ms  psw03.bom2.tfbnw.net [129.134.84.44]
 7  5 ms     5 ms     4 ms  163.77.193.119
 8  2 ms     4 ms     3 ms  instagram-p42-shv-04-bom2.fcdn.net [57.144.176.34]

Trace complete.
```