

Aim:

Using TraceRoute, ping, ifconfig(LINUX), ipconfig(WINDOWS), and netstat

Command.

Procedure:

Step 1: open windows command prompt and Type tracert command and type
tracert

www.saveetha.com -> "Enter"

```
C:\Users\arunk>tracert saveetha.com

Tracing route to saveetha.com [118.139.175.1]
over a maximum of 30 hops:

  0  71 ms    6 ms    124 ms  172.18.48.1
  1  17 ms    4 ms    7 ms   172.22.3.1
  2  46 ms   21 ms   22 ms  172.22.7.2
  3  56 ms  106 ms   27 ms  ptpl-as56272-rev-241.121.235.180-chn.pulse.in [180.235.121.241]
  4 311 ms    *      79 ms  61.95.248.189
  5  84 ms   93 ms   65 ms  182.79.224.183
  6  *        *        *      Request timed out.
  7  *        *        *      Request timed out.
  8  *        *        *      Request timed out.
  9  *        *        *      Request timed out.
 10 *        *        *      Request timed out.
 11 *        *        *      Request timed out.
 12 *        *        *      Request timed out.
 13 *        *        *      Request timed out.
 14 *        *        *      Request timed out.
 15 *        *        *      Request timed out.
 16 *        *        *      Request timed out.
 17 *        *        *      Request timed out.
 18 *        *        *      Request timed out.
 19 *        *        *      Request timed out.
 20 *        *        *      Request timed out.
 21 *        *        *      Request timed out.
 22 *        *        *      Request timed out.
 23 *        *        *      Request timed out.
 24 *        *        *      Request timed out.
 25 *        *        *      Request timed out.
 26 *        *        *      Request timed out.
 27 *        *        *      Request timed out.
 28 *        *        *      Request timed out.
 29 *        *        *      Request timed out.
 30 *        *        *      Request timed out.

Trace complete.
```

Step 2: Type ping command and type IP Address press "Enter"

```

C:\Users\arunk>ping 172.18.48.1

Pinging 172.18.48.1 with 32 bytes of data:
Reply from 172.18.48.1: bytes=32 time=451ms TTL=255
Reply from 172.18.48.1: bytes=32 time=673ms TTL=255
Reply from 172.18.48.1: bytes=32 time=697ms TTL=255
Reply from 172.18.48.1: bytes=32 time=43ms TTL=255

Ping statistics for 172.18.48.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 43ms, Maximum = 697ms, Average = 466ms

```

Step 3: Type ifconfig command

```

C:\Users\arunk>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::6daf:97be:be9b:4228%18
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 2:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::21c0:28ca:7558:9457%3
    IPv4 Address. . . . . : 192.168.137.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : saveetha.net
    Link-local IPv6 Address . . . . . : fe80::21ae:a837:878c:5c91%4
    IPv4 Address. . . . . : 172.18.49.214
    Subnet Mask . . . . . : 255.255.240.0
    Default Gateway . . . . . : 172.18.48.1

```

Step 4: Type netstat command

```
C:\Users\arunk>netstat
```

Active Connections

Proto	Local Address	Foreign Address	State
TCP	127.0.0.1:22350	LAPTOP-LIH20JNS:49696	ESTABLISHED
TCP	127.0.0.1:49696	LAPTOP-LIH20JNS:22350	ESTABLISHED
TCP	127.0.0.1:49697	LAPTOP-LIH20JNS:49698	ESTABLISHED
TCP	127.0.0.1:49698	LAPTOP-LIH20JNS:49697	ESTABLISHED
TCP	127.0.0.1:49699	LAPTOP-LIH20JNS:49701	ESTABLISHED
TCP	127.0.0.1:49701	LAPTOP-LIH20JNS:49699	ESTABLISHED
TCP	127.0.0.1:58274	LAPTOP-LIH20JNS:58275	ESTABLISHED
TCP	127.0.0.1:58275	LAPTOP-LIH20JNS:58274	ESTABLISHED
TCP	172.18.49.214:52080	whatsapp-cdn-shv-02-maa2:https	ESTABLISHED
TCP	172.18.49.214:52461	sl-in-f188:https	ESTABLISHED
TCP	172.18.49.214:52462	20.198.119.143:https	ESTABLISHED
TCP	[fe80::21ae:a837:878c:5c91%4]:5357	DESKTOP-K2T7LL4:50671	SYN_RECEIVED
TCP	[fe80::21ae:a837:878c:5c91%4]:5357	saveetha:49530	LAST_ACK
TCP	[fe80::21ae:a837:878c:5c91%4]:5357	XEROX-PC-PC:49602	ESTABLISHED
TCP	[fe80::21ae:a837:878c:5c91%4]:5357	[fe80::70c9:f7a9:2c9d:8bfe%4]:51860	ESTABLISHED
TCP	[fe80::21ae:a837:878c:5c91%4]:5357	DESKTOP-QK535R0:51734	LAST_ACK
TCP	[fe80::21ae:a837:878c:5c91%4]:5357	DESKTOP-U3LILBH:52305	ESTABLISHED

Result

Hence the Traceroute, ping , ipconfig (LINUX), ipconfig(WINDOWS) and netstat command executed successfully.



