TRACEROUTE , PING , IPCONFIG , IFCONFIG , NETSTAT

Ex No: 8

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Aim :

TO execute TRACEROUTE , PING , IPCONFIG , IFCONFIG , NETSTAT Commands.

Procedure

- OPEN KALI LINUX.

- OPEN ROOT TERMINAL.

- Type IFCONFIG command to find Linux configuration.

- Open Windows Command prompt.

- Type the following Commands – TRACEROUTE , PING , NETSTAT

Output :

tracert saveetha.com

```
PS C:\Users\VISHNU VARDHAN\OneDrive\Desktop> tracert saveetha.com

Tracing route to saveetha.com [198.185.159.145]
over a maximum of 30 hops:

  1     5 ms     6 ms     4 ms  192.168.104.138
  2     *      600 ms     *     192.168.29.10
  3     *      312 ms   317 ms  192.168.28.129
  4     *      385 ms   279 ms  192.168.31.22
  5   308 ms     *        *     192.168.31.24
  6     *        *      409 ms  192.168.31.33
  7     *        *        *     Request timed out.
  8   469 ms   387 ms     *     nsg-corporate-173.101.187.122.airtel.in [122.187.101.173]
  9   353 ms   309 ms   377 ms  182.79.245.225
 10     *      362 ms     *     a96-6-150-208.deploy.static.akamaitechnologies.com [96.6.150.208]
 11     *      916 ms   590 ms  a72-52-39-154.deploy.static.akamaitechnologies.com [72.52.39.154]
 12   694 ms     *        *     198.185.159.145
 13   661 ms   863 ms   708 ms  198.185.159.145

Trace complete.
```

Windows ipconfig

```
PS C:\Users\VISHNU VARDHAN\OneDrive\Desktop> ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

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

Ethernet adapter VirtualBox Host-Only Network:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::48aa:9512:5b6e:4b18%43
   IPv4 Address. . . . . . . . . . . : 192.168.56.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Wireless LAN adapter Local Area Connection* 1:
```
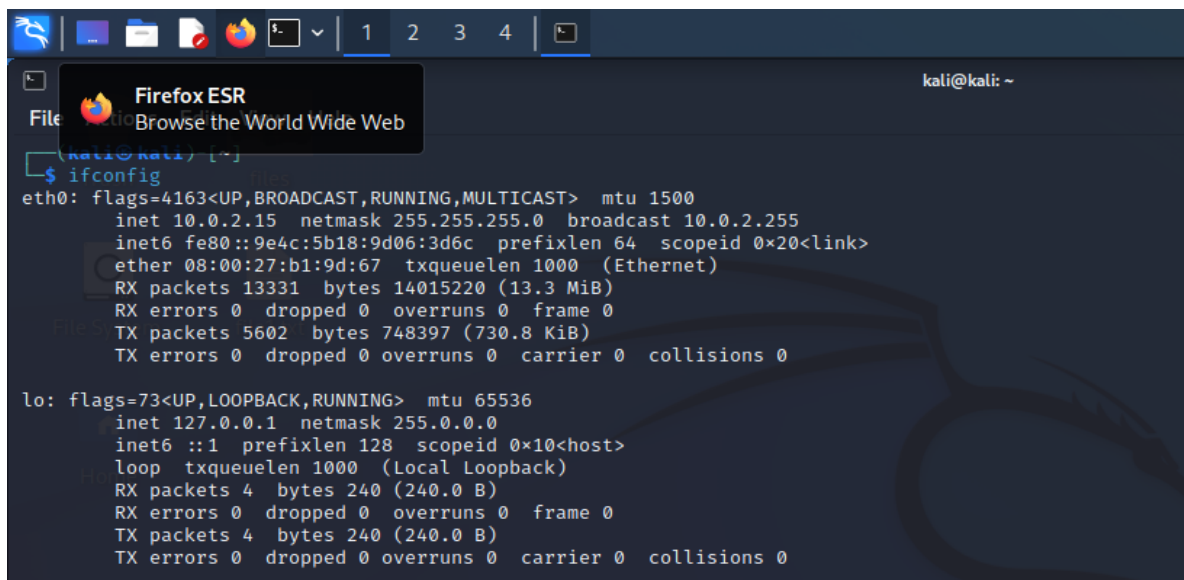
Linux ifconfig

```
kali@kali: ~

File      Actions  Edit
┌──(kali㉿kali)-[~]
└─$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::9e4c:5b18:9d06:3d6c  prefixlen 64  scopeid 0×20<link>
        ether 08:00:27:b1:9d:67  txqueuelen 1000  (Ethernet)
        RX packets 13331  bytes 14015220 (13.3 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 5602  bytes 748397 (730.8 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0×10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 4  bytes 240 (240.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 4  bytes 240 (240.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

Ping command

```
PS C:\Users\VISHNU VARDHAN\OneDrive\Desktop> ping 192.168.104.138

Pinging 192.168.104.138 with 32 bytes of data:
Reply from 192.168.104.138: bytes=32 time=10ms TTL=64
Reply from 192.168.104.138: bytes=32 time=23ms TTL=64
Reply from 192.168.104.138: bytes=32 time=42ms TTL=64
Reply from 192.168.104.138: bytes=32 time=16ms TTL=64

Ping statistics for 192.168.104.138:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 42ms, Average = 22ms
```

Netstat command

```
PS C:\Users\VISHNU VARDHAN\OneDrive\Desktop> netstat

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    192.168.104.17:56730   lb-140-82-112-26-iad:https  ESTABLISHED
  TCP    192.168.104.17:56733   20.198.119.84:https    ESTABLISHED
  TCP    192.168.104.17:56745   20.198.119.84:https    ESTABLISHED
  TCP    192.168.104.17:56868   55:https               ESTABLISHED
  TCP    192.168.104.17:56983   178:https              ESTABLISHED
  TCP    192.168.104.17:57020   178:https              ESTABLISHED
  TCP    192.168.104.17:57022   a23-200-238-218:https  CLOSE_WAIT
  TCP    192.168.104.17:57023   a23-200-238-218:https  CLOSE_WAIT
  TCP    192.168.104.17:57024   a23-200-238-218:https  CLOSE_WAIT
  TCP    192.168.104.17:57025   a23-200-238-218:https  CLOSE_WAIT
  TCP    192.168.104.17:57026   a23-200-238-218:https  CLOSE_WAIT
  TCP    192.168.104.17:57027   a23-200-238-218:https  CLOSE_WAIT
  TCP    192.168.104.17:57036   a-0001:https           ESTABLISHED
  TCP    192.168.104.17:57148   104.40.53.219:https    CLOSE_WAIT
  TCP    192.168.104.17:57180   52.182.143.208:https   ESTABLISHED
  TCP    192.168.104.17:57181   static:https           ESTABLISHED
  TCP    192.168.104.17:57182   static:https           CLOSE_WAIT
  TCP    192.168.104.17:57183   static:https           CLOSE_WAIT
  TCP    192.168.104.17:57184   static:https           CLOSE_WAIT
  TCP    192.168.104.17:57185   static:https           CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:56731  whatsapp-cdn6-shv-01-tir2:https  ESTABLISHED
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:56750  se-in-f188:5228        ESTABLISHED
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57041  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57042  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57043  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57044  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57045  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57046  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57047  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
  TCP    [2401:4900:6290:7382:a992:c5e:9dc5:bb87]:57048  g2600-140f-2400-0000-0000-0000-173b-af6a:https  CLOSE_WAIT
PS C:\Users\VISHNU VARDHAN\OneDrive\Desktop>
```

Result :

Hence the given commands is executed.