

TRACEROUTE , PING , IPCONFIG , IFCONFIG , NETSTAT

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 , IPCONFIG , NETSTAT

Output :

```
Command Prompt
Microsoft Windows [Version 10.0.22621.1635]
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C:\Users\aswin>tracert saveetha.com

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

  1    1 ms    1 ms    4 ms  192.168.25.226
  2  1180 ms  878 ms  904 ms 192.168.29.10
  3    *    373 ms 439 ms 192.168.28.49
  4  442 ms  407 ms    * 192.168.31.7
  5  570 ms  359 ms    * 192.168.31.9
  6    *    *    * Request timed out.
  7    *    *    * Request timed out.
  8  387 ms  495 ms  403 ms nsg-corporate-173.101.187.122.airtel.in [122.187.101.173]
  9  416 ms  361 ms  525 ms 182.79.245.225
 10    *    380 ms    * a96-6-150-25.deploy.static.akamaitechnologies.com [96.6.150.25]
 11  622 ms    *    584 ms a72-52-39-154.deploy.static.akamaitechnologies.com [72.52.39.154]
 12  648 ms    *    775 ms 198.185.159.145

Trace complete.

C:\Users\aswin>ping 192.168.25.226

Pinging 192.168.25.226 with 32 bytes of data:
Reply from 192.168.25.226: bytes=32 time=11ms TTL=64
Reply from 192.168.25.226: bytes=32 time=7ms TTL=64
Reply from 192.168.25.226: bytes=32 time=5ms TTL=64
Reply from 192.168.25.226: bytes=32 time=3ms TTL=64

Ping statistics for 192.168.25.226:
```

```
Command Prompt
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 11ms, Average = 6ms

C:\Users\aswin>ipconfig

Windows IP Configuration

Wireless LAN adapter Local Area Connection* 3:

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

Wireless LAN adapter Local Area Connection* 12:

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

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2401:4900:629f:c26a:302b:3fbf:77ee:50b
    Temporary IPv6 Address. . . . . : 2401:4900:629f:c26a:8085:c8e9:da4a:68f7
    Link-local IPv6 Address . . . . . : fe80::ad96:5db3:46ca:d15c%11
    IPv4 Address. . . . . : 192.168.25.12
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::4c:1ff:fe21:b094%11
                                192.168.25.226
```

```
C:\Users\aswin>netstat

Active Connections

Proto Local Address          Foreign Address         State
TCP    192.168.25.12:58067     a-0001:https           ESTABLISHED
TCP    192.168.25.12:58075     20.242.39.171:https     ESTABLISHED
TCP    192.168.25.12:58080     20.44.229.112:https     ESTABLISHED
TCP    192.168.25.12:58084     20.44.229.112:https     ESTABLISHED
TCP    192.168.25.12:62462     20.198.118.190:https    ESTABLISHED
TCP    [2401:4900:629f:c26a:8085:c8e9:da4a:68f7]:58071  g2600-140f-2400-0000-0000-0000-173b-af82:https CLOSE_WAIT

C:\Users\aswin>
```

```
kali-linux-2022.4-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@kali: ~
File Actions Edit View Help
root@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::2b5:72a5:bff9:d72f prefixlen 64 scopeid 0<20<link>
    ether 08:00:27:b1:9d:67 txqueuelen 1000 (Ethernet)
    RX packets 8 bytes 1540 (1.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 65 bytes 6390 (6.2 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

root@kali:~#
```

Result :

Hence the given commands is executed successfully.