

Exercise No 8: TraceRoute, ping, ifconfig, ipconfig, netstat

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”

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

Step 3: Type ifconfig command

Step 4: Type netstat command

OUTPUT:

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Command Prompt
Microsoft Windows [Version 10.0.22621.1105]
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C:\Users\vinu>tracert saveetha.com

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

  0  3 ms  *      3 ms  DESKTOP-A55G046.mshome.net [192.168.137.1]
  1  *      *      *      Request timed out.
  2  14 ms  10 ms  12 ms  172.18.48.1
  3  19 ms  8 ms  9 ms  172.22.3.1
  4  29 ms  19 ms  27 ms  172.22.7.2
  5  29 ms  19 ms  21 ms  ptpl-as56272-rev-241.121.235.180-chn.pulse.in [180.235.121.241]
  6  *      30 ms  23 ms  61.95.248.189
  7  65 ms  64 ms  *      182.79.224.183
  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.
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Command Prompt
C:\Users\vinu>ping 172.18.48.1

Pinging 172.18.48.1 with 32 bytes of data:
Reply from 172.18.48.1: bytes=32 time=16ms TTL=254
Reply from 172.18.48.1: bytes=32 time=19ms TTL=254
Reply from 172.18.48.1: bytes=32 time=11ms TTL=254
Reply from 172.18.48.1: bytes=32 time=16ms TTL=254

Ping statistics for 172.18.48.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 19ms, Average = 15ms

C:\Users\vinu>ifconfig
'ifconfig' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\vinu>netset
'netset' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\vinu>netstat

Active Connections

Proto Local Address          Foreign Address         State
TCP    127.0.0.1:62267         DESKTOP-SPCQQIO:62266  TIME_WAIT
TCP    127.0.0.1:62272         DESKTOP-SPCQQIO:62271  TIME_WAIT
TCP    127.0.0.1:62277         DESKTOP-SPCQQIO:62276  TIME_WAIT
TCP    127.0.0.1:62293         DESKTOP-SPCQQIO:62292  TIME_WAIT
TCP    127.0.0.1:62298         DESKTOP-SPCQQIO:62299  ESTABLISHED
TCP    127.0.0.1:62299         DESKTOP-SPCQQIO:62298  ESTABLISHED
TCP    192.168.137.38:61860    20.49.99.108:https     ESTABLISHED
TCP    192.168.137.38:62221    sf-in-f188:https       ESTABLISHED
TCP    192.168.137.38:62253    40.77.2.164:https       TIME_WAIT
TCP    192.168.137.38:62258    a184-84-200-249:https   ESTABLISHED
TCP    192.168.137.38:62259    a184-84-200-249:https   ESTABLISHED
TCP    192.168.137.38:62261    a104-86-189-97:http     TIME_WAIT
TCP    192.168.137.38:62262    a104-84-200-249:https   ESTABLISHED
TCP    192.168.137.38:62265    a104-86-189-97:http     TIME_WAIT
```

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Command Prompt

TCP    192.168.137.38:62265    a104-86-189-97:http     TIME_WAIT
TCP    192.168.137.38:62283    a184-84-200-249:https   ESTABLISHED
TCP    192.168.137.38:62284    static-42:http          ESTABLISHED
TCP    192.168.137.38:62287    a104-86-189-97:http     TIME_WAIT
TCP    192.168.137.38:62290    a104-86-189-97:http     TIME_WAIT
TCP    192.168.137.38:62297    13.89.178.27:https      ESTABLISHED
TCP    192.168.137.38:62302    ec2-3-6-44-155:http     ESTABLISHED

C:\Users\vinu>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

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

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::6a12:af19:ad20:b2d6%42
    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* 12:

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

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : mshome.net
    Link-local IPv6 Address . . . . . : fe80::468d:f149:4c73:dc25%12
```

RESULT:Hence the above commands are executed successfully.