Experiment -

Aim :

    Study of various Network commar used in Linux and windows

Basic Networking commands in Wind

arp - a

    Interface : 192.168.26.14 ---- 0 × 0

Internal Address	Physical Address	Type
192.168.26.254	00-50-56-F9-86-27	dyn
192.168.26.254	ff-ff-ff-ff-ff-ff	Sto
224.0.0.2	01-00-5e-00-00-02	Sto
224.0.0.22	01-00-5e-00-00-16	Sto
224.0.0.251	01-00-5e-00-00-Fb	Sto
224.0.0.252	01-00-5e-00-00-FC	Sto
239.255.255.250	01-00-5e-7f-ff-fa	Stat
255.255.255.255	ff-ff-ff-ff-ff-ff	Stat

Host name

Desktop · DESKTOP - A71OLD8

3) ipConfig (all

Windows ip Configuration

Host Name .... DESKTOP A71ULD

Primary Dns suffix ·····

Node Type .... Mixed

IP Routing Enabled ······ No

WINS Proxy Enabled ···· No

4) nbtstat - a

nbtstat - a DESKTOP - A71ULD8

Ethernet 310

Node - IP Address [0·0·0·0] Scone Id

Host Not found

Bluetooth network Connection 2

Node IP Address [0.0.0.0] Scone Id: C

Host Not found

5) net stat

Active Connections

Proto	Local Address	Foreign Address	State
TCP	127.0.0.1:49678	DESKTOP-A71ULD8:49679	Established
TCP	127.0.0.1:49679	DESKTOP-A71ULD8:49678	Established
TCP	172.16.75.28:62149	20.42.73-26:https	Close-wait
TCP	172.16.75.28:62150	23-11-216-25:HTTPS	Close-wait

6) nslookup www.google.com

Server: unknown

Address: 172.16-72.1

Non - Authoritative answer

Name: www.google.com

Address: 2404:6800:4007:810:2004

142.150.163.228

7) Path ping -g DESKTOP-A71ULD8

Tracing route to 172.16.75.28 maximum over 30 hops.

0   172.16.75.28

1   17.16.75.28

Computing statistics for 25 Seconds

Source to Here This node/Link

Hop RTT Lost/Sent = Pct Lost/Sent = Pct Address

0   Desktop
                          0/100 = 0%   [172.16.75.2]

1 0ms 0/100 = 0%   0/100 = 0% Desktop
                                      VLD8
                                      [172.16.75.2]

Trace Complete.

8) Ping www.rajalakshmi.edu.in

Pinging www.rajalakshmi.edu.in [162.255.
119.253]
with 32 bytes of data

Reply from 162.255.119.253 bytes = 32 time
                              = 243 ms
                              TTL = 55

Reply from 162.255.119.253 : bytes = 32
                         time = 317ms TTL = 55

Reply from 162.255.119.253 : bytes = 32
                      time = 254 ms TTL = 5

Ping statistics for 162.255.119.253

Packets. Sent = 4, Received = 4, lost = 0 (0% loss)
Approximate round trip times in milli seconds
minimum = 243 ms, maximum = 317ms, Average = 269ms

9) Route - Print 157 *

Interface list
18 --- 20 80 10 86 c5 61 --- Intel (t)
                                   Ethernet connection
                                 I_2 19-LM
(2 ---- 40 82 9979 1F 25 --- Microsoft wifi
                                   Direct Virtual adapt

IPV4 Route table

Active Routes
   None

Persistent Route:
   None

IPU6 Route Table

Active Route   Persistent Route
  None   None

tcpdump -D

1. eg 250 [Un--running]

2. Only 1 pseudo device that captures all
interfaces , [up-running]

3 lo [up , Running , loopback]

4) with 3 50

ping

Usage: ping [-aAbBd.fhLnoq r+eo
v6t]
[- c count]
[-I interval] [- I interface]
[m mode]
[-M pmtudisc-option] [-N preload]
[-p pattern]
[- Q tos] [-S packet size] /s sndbuf
[tttl]

Question un Answer

ping   to find reachability

mtr < web address>
IP address   to show of Configuration

netstat
ifconfig

mtr google-com

my tracenut [V0.87]
local host . local doman   (0. 0.0.0) sat
Jul 11:27. 36.

keys: help Display Mode Restort
statestics order of fields quit

packets

host	Loss %	int	Last	Avg	Best	host
1. 172. 16.8-1	0.01	196	03	02	0.108	0

xi) ifconfig

enh250: flags =4163 <UP, BROADCAST,
RUNNING, MULTICAST > mtu

inet 172. 16.8.102 network 225. 225. 225
.0
Broadcast 172. 16. 4. 255

inet bfe80.:127 db: ae09: 8543:5366
prefe c len 64 scored 0x 20 < link>

Result:
Thus the study of various
network , commands used in Linux
and windows is successful
16/7/24