Aim:To study the various network commands used
in Linux and windows

i) app -a output:(172.16.9.63) at 7c:57:58:35:00:31 [ethei] on enp250
gateway (172.16.8.1) at 7c:5a:1c:cf: be:45 [ethei] on enp250
(172.16.10.60) at d8:bb:c1:c5:ca:5f[ethei] on enp250

ii) hostname output:

localhost. Cocal domain

"i" ) netstat Active internet connections ( w/o servers)

Proto Recv-Q send-Q Local Address Foreign Address State

top 0 0 127.0.0.1.60277 DESKTOP-ATEKDUG: 60278 ESTABLISHED

top 0 0 127.0.0.1.60278 DESKTOP-ATEKDUG: 60277 ESTABLISHED

iv) ipconfig /all output:

Windows IP configuration
HOSTNAME.... DESKTOP-ATEKDUG

Primary Drs Suffix ...

Node type -- -: Mixed

V) nbtstat -a output:

Displays protocol statistics and current TCP/IP connections

using NBT

( NetBIOS OVER TCP/ IP)

NBTSTAT [ [-a RemoteName] [-A JP address] [-C] [-n]
[-r] [-R] [-RR] [-S] [-S] [interval] ]

vi) nslookup www. rajalakshmi. org

Default Service: Unknown Address: 172.16.8.1

Non-authorative answer:
Name: www.rajalakshmi.org
Address: 14.99.10.232

vii) pathping output:

Usage: pathping [-g host-list] [-h maximum-hops]

[-i address] [-n] [-p period]

[-q num-queries] [-w timeout]

[-4] [-6] target\_name

villi) ping www.rajalakshmi.org [14.99.10.232] with 32

Reply from 14.99.10.232: bytes=32 time=1ms TIL=127

Reply from 14.99.10.232: bytes=32 time=9ms TIL=127

1x) route output:

Manipulates network routing tables.

Scotte [-9] [-9] [-41-6] command [destination]

[MASK netmask] [gateway]

[METRIC metric] [IF interface

Usage: ip EOPTIONS JOBJECT & COMMAND / help 3

1 p [-force ] - batch filename

where OBJECT:= { link | address | address | route | rule |

height ntable | tunnel | tuntap | maddress |

mroute | mrule | monitor | xfrm | neths |

12tp | fou | macsec | top metrics | token |

netconf | 11a | vrf 3

2. ibconfig output:

enp250: flags = 4/632UP, BROADCAST, RUNWING, MULTICAST> mku 1500 inet 172.16.8.102 netmask 256.255.252.0 brusadcast

inetto fe 80:: 27db: aaoq: 8543:535b prefixlen 64 scopeid 0x202 link >

3. mtx google.com

my traceroute (vo. 87]

hocalhost localdomain (0.0.6.0) Sat Jul 20 11:27:36 2024

Keys: Help Display mode Restantstatistics Order of fields quit

Pachets Pings

Hast 10 172.16.8.1 LORSY. Sut Last Aug Best host StDev 0.0%. 196 0.3 0.2 0.1 1.8 0.1

4 - tepdump - D output s

10 enp 250 [Up, running]
2. any (Pseudo) device that captures on all interfaces)
[Up, Running]
3. lo [Up, running, Loopback]

40 WLP 3 50

5. plng output :-

Usage: ping [-aAbBdDfhInOgrRVVV64] [-c count] [-i Interval][-I Interface][-m mark] I-M protudise-option I L-1 probad J L-P patterny [-Q tos][-s packetaize] [-s sndby] [-t th] [-T timestamp-option][-w deadline][-w timeout] [hop]...] destination

Question & Answer

- 1) 'ping' to find reachability
- mty Lueb address >
- 3) Tp address show to show 1P configuration
- 4) 'nethat !
- 5) 'If config'

Result:

Thus the various networking commands used in Linux and windows are studied

Valx or