Commands

Aim:

To study the various network commands used in Linux & Windows

(i) arp -a

(172.16.9.23) at 7C:57:58:35:00:31 [ether] on emp 250

gateway (172.16.8-1) at 7c: 5a:1c:5f: bc: 45 (ether) on enps0

(172.16.10.60) at d3.bb: C1: c5: ca: 3f [ether] on emp250

(ii) hostname

localhost. localdomain

(iii) netstat

Active internet connections (w/o servers)

Proto	Rev-Q	send-Q	Local add	foreign ador	state
tcp	0	0	127-0.0.1-6027	Desktop atekoaa	R
tcp	0	0	127.0.0.16ozi8	desktop ar	E

(iv) ipconfig /all

windows IP configuration

HOSTNAME . . . . DESKTOP - ATERDUG

v) nbtstat - a

Displays protocol statistics o current tcp/ip connection using NBT

NBTSTAT [[-a Remote Name] [-A] IP address]
[-c] [-A] [-r] [-R] [-RR] [-s] [-S] [interval]

vi) nslookup www.arajalabshmi.org

default server: unknown

address :- 172:16:8:1

Non-authrorative answer:

Name: www.arajalabshmi.org

Addres : 14.9910.232

vii) pathping

usage: pathping [-g host-list] [-h maximum
                                 - host]
        [-i address] [-n] [-p period]
        [-q num-queries] [-w timeout]
        [-4] [-6] target-name

viii) ping www.arajalabshmi.org

Ping ww.vajalabshmi.org [14.99.10.232]
                                            with bytes of data

Reply from 14.99.10.232: bytes =32 time < 1ms

TTL = 125

Reply from 14.99.10 232 : bytes = 32 time = 9 ms TTL

ix) route

manipulate network routing tables

ROUTE [-f] [-p] [-u] [6] Command [destination]
[MASK] netmask] [gateway] [metric mily]
[if interface

x) ip

Usage : ip [options) OBJECT { COMMAND | help}

ip [-force] - batch filename

where OBJECT : = { link | address | addrlabel | route |
rule | neigh | ntable | tunnel |
tuntap | maddress | mroute | mrule |
monitor | xfrm | ndm | 2tp |
for | mans eec | top - nutuid token |
netconf | il a | vrf }

(xi) ifconfig

emp 2sb :- flags = 4163< UP, BROADCAST,
RUNNING, MULTI CASES mtu 1500

net 172.16.8.102 network 225.225.252.0
broadcast 172-16.11.255

unit b fe80 :: 27 db: aa oq : 85 43 : 53 5 t
peatix len 64 scopeid 0×20 2 link)

×11) mtu google. com

my traceroute [v0.82]

local host . local domain (0. 0. 0. 0) scat

Jul 11 : 27: 36;

ckeys : help Display Mode Restart statistics od.
ot fields quit

_host   Loss +.   Packets   P Mato
                                Snt Let   Aan ot
1. 172. 16. 8. 1   0.07.   146 0. 5   02 01

                                host std'n
                                0.8   0.1

tcpdump -D

1) emp 250 [Up -aumming]

2) any (Pseudo : device that capture on all

                unterfaces [Up- aumming]

3) lo (Up, aumming, Loop baike]

4) wtp 3 to

ping:

Usage: ping [-a A b B d D f h L n O q v R U r
N b4] [-c count] [-i interval]
[-I interface] [m mask]
[-M pmtudisc - option] [-l preload]
[-p pattern] [-a los] [s pa cketonze] [-s sndy
[-t ttd] te

Question & Answer

1) ping to find reachability

2) enter < web address>

3) up addeen to show IP configuration

4) `netstat`

5) `ifconfig`

Result:

Thus the variour networking command used
in Linux & windows are studied

16/9/24