Exp no - 01 STUDY of Various Network components

USE IN LINUX AND WINDOWS

Basic Networking Commands:

1) arp-a (Address Resolution protocol) Show IP address of Your Computer along with IP address of your router.

Output: Interface : 172.16.8.87 - - - - 0×10
Type

Internal Address	Physical Address	Type
172.16.8.1	7C-5a-1C-CF-be-45	dynamic
172.16.8.88	50-9a-4c-35-12-2e	dynamic
172.16.11.255	ff-ff-ff-ff-ff-ss	static

2) host name - Name of your Computer

Output:

DESKTOP - LDMVTDN.

3) ipconfig /all - detailed Configuration information about your TCP/IP connection

OUTPUT :-

Window IP Configration

Host name - . . . . . DESKTOP - LDMVTDN

primary DNS Suffix . . . .

Node type . . . . Hybrid

IP Routing Enable . . . . No

WINS proxy Enable . . . No

Ethernet adapter Ethernet
:

wireless LAN Adapter WiFi.

Nbstat -a : displays protocol statistics and

nbt :

NBT STAT [[-a Remotename] [-A ipAddress]

[-n] [-v] [-R] [-rr] [-S] [-s] time

-a (adapter status) lists the Remote Machine
Name given its name

Nbtstat -r : used to turn Picn Network Status

arpvis :

Interface list

16-50 9a 4c 34 db 63 . . . . Realtek PCIe Gbe

family controller

IPv4 Route Table

Active Routes

Persistent Routes

IPv6 Route table

b) NS Lookup domain name - to perform DNS lookup

OUTPUT :

C:\User REC > nslookup www.google.com

Server: Unkown

Address: 172.16.8.1

Non-authorized answer

7) Ping :- (packet internet grouped) - test connectivity between two nodes.

OUTPUT:-

C:\users\ple >ping 172.16.8.87.

Pinging 172.16.8.87 with 30 bytes of Data:

Reply form 172.16.8.87: bytes = 32 time <1 ms TTL = 1.28

ping statics for 172.16.8.87

packet : sent =4, received =4, lost =0 (0% loss)

packet : sent = Approximated Round trip times mill-second,

minimum = 0 ms, maximum =0ms, Average =0ms.

8) pathping : Unique to windows - combination of ping
      and trancent

output:-

C:\users\REC> pathping 172.16.8.87

Tracing Route to destop – LDMVTDN [172.16.8.67].

over a maximum of 30 hops:

    o Desktops - LDMVTDN [172.16.8.87).

    1 Destops - LDMVTDN [172.16.8.87]

computing statics for 25 seconds......

9) Route :- used to modify / Display Routing into.

OUTPUT : C:\user\REC> Route PRINT

IPV4 Route table:
    Active Routes   Network gateway interface Metric
      Network Dest
       President Rates
IPv6 Route table:
    Active Routes

    President Routes