20/7/24

## Basic Networking Commands:

(i) corp-a: (Address Resolution Protocol) - Shows IP address of your computer along with IP address of your router.

OUTPUT:

Interface: 172.16.8.87 -- - OXID

Internal Address Physical Type
address

172.16.8.1

71-50-51-16-25 Dynamic

172.16.8.88

50-99-41-35-12-20 Dynamic

172.16.11.255 H-H-H-H-H Static

2. Hostname - Name of your computer output.

DESKTOP - IDMVION

3. ipconfig (all - detailed configuration information about your TCP/IP connection OUTPUT:

Windows IP configuration

Host Name ---- DESKTOP- LDH VTON

Porimary DNS Suffix ----

IP fouting Enabled \_\_\_\_ No Win Propey Frabled \_\_\_ No Ethernel adapter Ethernet

Wirden LAN adapter wife

)Z6 📾

Notistat-a: displays protocal statistics and avoicy TCP/IP connection using NET nbt: (net BIOS Over TCP/IP) OUTPUT: NBTSTAT [I-a Renote Name] I-A IP address [-c] [-n] [-n] [-n] [-R] [-R] [-S] [interval]] - a (adapter statery) Lists the remote machines name tuble given its name 5. netrate 9: used to run network statution OUTPUT: Interface Lint 16.... 004124 0663... Roactes DC1096E Family controller 1PV4 Route table Active Raiter Peristort Router IPV6 Route takke 6. As lookup domain name. To perform DNS lookup OUTPUT: C: I wer IREC > relookup www. gogle.com Sowon! Unknown Address: 172.16.8.1 non-authoritative connecta Name: www. Sogle.com Address: 2404:6800:4007:810:12004

Ping: (Packet Internet proper) - text connectivity between two nodes OUTPUT.

C: 1 Wer IRECT Ping 172, 16.8.87 pinging 172.16. f. f. with 32 butes of data creply from 172.16.8.87: bytes =32 times 11 ms

ping statutics for 172.16.8.87

Packets: Sent = 4. Received = 4, horst = 0 (0 x. box Approximate mound trip times is milli-seconds minimum = 0 ms, maximum = oms, Avage = 0 ms

8. Pathing: Unique to windows - combination of Ping and Tracert.

OUTPUT.

C: I was IREC > pathping 172.16.8.87 Tracing route to DESKTOP- LON UTDNETTE-16.0. over a maximum of 30 hops.

O DESKTOP- LDHUTDN SITZ. 16.8.87] 1 DESKTOP - LDHYTDN [172.16. 8.87] Computing statistics for 25 saconds...

Route: Used to modify (diplay routing in OVIPUT:

C: luser ( REC > 20 ute PRINT

Interface List

Lipva Raite Table Active Route's

Network Desk: Network hateway Inter metric

## LINUX NETWORKING COMMANDS

(i) ip

Enod aboathant student I # ip oddress show

1. 10 × 100 planch - up, laver - up > mtu 67536;

nagreve state UNKNOWN group default
gler 1000 lint/lappack 00: 00:00:00:00:00:

bod 00:00:00:00:00:00 inst 127.0.0.1

scope host to

valid - Ift forever preferred - Ift forever into 6: 1/128 lope hart valid - Ift forever preferred - Ift forever is add

# ip address add 192.168.1.254/24 devery
ip address delete

# ip address del 192.168.1.254/24 devery
ip link set up

# ip link set to up

ip link set down
ip link set promise on

# ip link set to promise on.

P nouts odd default # ip soute odd offered via 192.165.1.204 Add opault through gateway # ip soute odd 192.16 1.0128 vio 192.16.1. Adding route to device # ip route delete 192.168.1.0.124 via 192.1684 Display route for 1P # 1P route get 10.10:1.4 10.10.1.4 via 172.14.20 dev exp 250 De 172.16.8.92 id o caché mton # mts apple . com 1-172-16.81 statistic 41.229.49 142-231 . 227 . 127 mton-b # mts -b google.com Localhort donais (0.1.0.0) 122.16.8.1 142.250. 171.162 142.251 .227 217

Hpd wrp -D

(ii)

1. enposo Imp, xunios]

2. wgo 300 Eup. surning]

3. any (prado device that captura intoglacon)

4 lo Iup, sunning I

topdump-i

# tepdemp- : orp150 su host out 0.1.1., tepdump in for full protocol decode listering on exp250, link-type EN1043 Capture N30 2620 144 bytes

Ping -c

# ping -c lo gargle com (216.58.200.142) i cmp seq-2 tecl = 120

का का के किया है किया में

a succellant seal domain ( Par grass

The transfer of the second sec

a committed so

the confidence of the same of

The state of the state of the state of the state of

In any home of their one that made on a 1 1