18/1/29 SMODNIM DNY XINIT NI DISO 1 × NO :01 Basic Netwosting Commands: -: (Address Resolution Protocol) - Shows IP address of your computer along with IP addresses of your witten OUTPUT: -Interface: 172.16.8,87 _ __ OX10 Type Physical Address Internet Address 7c-5a-1c-ct-be-15 dyramic 172.16.8.1 50-99-46-35-12-2e dynamic 172, 16.8.88 1+-f+-ff ff ff-ff Static 172.16.11.255 2) host name - name of your computer OUTPUT:-DESKTOP - LDMVTDN 3) ipconfig (all detailed configuration information about your TCP (IP connection OUTPUT: -Windows IP Configuration Host Name DESE TOP - LDMVTDN Primary DNS Suffix Node Type Hybrid IP Routing Enabled No WING Proxy Frabled No Ethernet adapter Ethernet. Wireless IAN adaptes Wifi:

STUDY OF VARIOUS NETWORK COMMANDS

4) notstal -a :- displays protocol statistics and (NOT BIOS OVA TEPLIP) current TEP/IP Connections using NBT

DUTPUT -

NBTSTAT [[-a Remote Name][-A IP address][-c][-n] [-v] [-R] [-R] [-S][-S][interval]]

- a (adapter Statu) lists the semote machine's name table given its name

6) netstat - r: used to run network etatistics DUTPUT --

Interface list Realter Pare 96 = Family 16... \$0 90 4c 84 db 63 Controller

IPV4 Route Table Active Routes Pessitent Powher

IPV6 Route Table

6) 13 (ootup domain name: - to perform DNS lootups

C: IVIEW (PEC > ns look up Knww. google. com

Seaves: Untrown

Address: 172.16. E. 1

Non-author/Aative arsum:

Name: noww.google.com

Address: 2404:6800: 4001:812:2004 112,250,183,228

(Packet IN leanet Grapes) - last connectivity 7) Ping between two nodes OUTPUT: C: Jusea 1 FLC > Ping 172.16.8.81 Finging 172.16.8.87 with 32 bytes of data; Reply from 172.16.8.87: bytes = 32 tome < 1ms TTJ = 18 Ping statistics for 172.16.8.87 Packets: sent = 4 , Received = 4, hat = 0 (0% loss) Approximate round trip times in milli- seconds: windmum = ome, Maximum = oms, -heage = oms. unique to windows -8) Path ping :combination of Ping and Tracert. OUTPUT: 0:1 Users | REC > Path ping 172.16.8.872 Tracing route to DESETOP_IDMVTDN [172.16.8.87] over a maxemum of 30 hops: DESCTOP-LOMVIDA [172.16.8.87] DESETOP- LDMVTDN [172.16.8.87] Computing Statuties for 25 seconds... a) route :- used to moderly / duplay routing into. OUTPUT: Pitanobi (c C: \ Users | REC > route PRINT Interface hist. IPVy Route Table Gateway Interface metric Active Routes: Network Network Dest. Persistent Poutes: IPV6 Route Table Active Ponter Persistent Poutes.

LINUX NETWORKING COMMANDET DIF commande: 1) ip address show

1: 10: = 100 PEACK, UP, JOWER-UP > mtu 655 26 9disc noquene state UNENOWN group dypuse ques 1000 19nk/100pback 00:00:00:00:00:00:00:00:00:00:00:00

2: LAP280: LBROADCAST, MULTICAST, UP, LOWER-UP > mtu 1500 gdisc sq-codel state UP group default glen link lether 50:99: AC: 84: 46:63 brd ff: ff: ff: ff: ff: ff:

2) 1p address add 192.168.1.854/24 dev enperso

3) ip address del 192.168.1.254/24 dev enps 30

4) ip link set enpaso up

5) ip link set enpeso down

6) ip link set enposo Promise on

7) ip route add default via 192.168.1.254 der enpses

8) ip route get 10.10.14 192.168.1.254/24

OIP local 192,168.1.254 der lo S&C 192.168.1.254 vido cache Wocal >.

2) if consig

enpaso: flags = 4163 & UP, BROADCAST, RUNNING, MULTICAST? mtu 150 inet 172.16.8.87 netmask 255.252.05 broadcast 172-16.11.255

Inet 6 te80: 1999: 1618: 5631: bec4 prefixlen by supperd 0 x 20 lines

3) mt & google . com 1) dos Postall - y topdump. Package topdump-14:4.9.0-2. +126. 8686 is already Pretalled, supping Dependencies resolved Nothing to do. complete! 5) topdump -D 1. enposo [up, Running] 2. any (Pseudo-device that captures on all interfaces) cup, Running] 3. lo [VP, Running, doopdact] b) topdump -i enposo tepdump: verbose output suppressed, use -v or -vy for full protocol decode listening on enposo, link-type ENIONB (Ethernet), capture 5º7e 262144 bytes F) mt & google com 1) rote - 9 900gle · com No GTK support. Sorry. 10 9) mtr - 6 google - com Titr -c 10 google. com