ASIM: study of various Network commands used in dirux and Windows:

in shorting - Fifther

11-26 6 39 1000 172.16 BASIC NETWORKING COMMANDS:

1) asy-a: Address resolution protocol. Shows IP address @ MAC address of your computer & router.

OUTPUT: Interface: 192.168.211.1 --- 0x6 Internet address Physical address 192.168.211.255 Interface: 172.16.8.95 ____ 0x9 ff-ff-ff-ff-ff static Type Internet address Physical address Type 172.16.8. 7c-5a-16-cf-be-45 dynamic

2) hostname: Displays name of your computer OUTPUT: PESKTOP-65874RB

3) igconfig Tall: Bisplays detailed configuration information about your TCP/IP connection.

OUTPUT: Windows IP configuration

Host Name ... Brunary Drs suffix Node Type IP Routing Enabled /: No WAND PROXY Enabled NO

4) nbtstat-a: solve problem with NetBIOS name nesolution

OUTPUT: NBTSTAT [[-a Remote Name] [-A IP address] [-c] [-n] [-r] [-R] [-RR] [-9] [-5] [internal] 5) retated: Displays variety of statistics about a computers active TCP/IP connections.

OUTPUT: Active corrections

Proto Local Address. Foreign Address State

TCP 172.16.8.95:7680 172.16.11.222:59813 TIMELINIZY

TCP 172.16.8.95:60929 Somen-108-159-15-100: CLOSE WAIT

TCP 172.16.8.95:60979 Sb-in-H88:5228 ESTABLISHED

6) ns Lookup: Name seven Lookup is a tool to portonn & display DNS details.

OUTPUT: Default-server: Unknown
Address: 172-16.8.1

7) pathping: Combination of ping of Tracetet commands.

Traces nowte to destination address.

DUTPUT: Usage: pathping [-g host List] [-h maximum hops]

Ei address] [-n] [-p -period] [-q num-queries]

En timeout] [-4] [-6] tanget_name

8) Ping: Packet Internet broper command used to tast connectivity between two nodes.

OUTPUT: Usage: ping [-+][-a][-n count][-1 size]

[-+][-i][-i][-v][-v][-v][-v][-v][-scount]

[-j] host-list][-ke host [ist]][-w timeout]

[-R][-s] sreadder][-c][-compartment[-p]

[-4][-6] tanget [name.

9) route: Used to maripulate returns nording

OUTPUT: ROUTE [-{][-4]-6] command

[destination] [MASK netmask] [gateway]

[MFTRIC metric] [IF interface]

NETWORKING COMMANDS.

DIP commands:

OlP:- 1) ip address show

- scous ! dennet ? (9 1: 10: LLOOPBACK, UP, LOWER_UP > mtu 65536 gdise noquene state unknown group default glen 1000 Link / Loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
- 2: enp250: L BRODDCAST, MULTICAST IUP, hower-UP> note 1500 gdisc 19-codel state up group default glan 1000 Link Lether 50: 9a:4c:34:d6:63 bond #: H:H:H:H:H
- 2) ip address add 192.168.1.254/24 der enp250
- 3) ip address del 192.168.1.254/22 dev esp250
- 4) ip link set enpesoup
- 5) ip link set eresso promise on
- 7) is noute add default via 192.168.1.20, der enp250
- 8) ip route get 192.168.1.254.124
 - 0/P: Local 192.168.1.254 der cosrc 192.168.1.254 wido
 - 2) ipcontig

eng250: Hags = 4163 LUP, BROADCAST, RUNNING, MULTICAST inet 172.16.8.87 netmask 255.255.252.0

broadcast 172. 16 1/ 255

inet 6 feso: 7990 Tb18:5631: bec4

prefixles 64/ supid 0x 20 < link >

- 3) mor google.com
- 4) doit justall 4 tepdump

package tedump -14:4.9.0-2-fc26. 1686 is already

Dependencies resolved nothing to do. complete!

5) topdump -D 1. enposo [up, purving] 2. any (pseudo-device that eaphores on all interfaces) [UP, Running] 3. 10 EUP, Running, Loopback] 6) todump - i enpeso tedump: verbase output suppressed, use -v on for full protocol decade listering on exposo, Link-type ENJOMB (Ethernot) capture sige 262144 bytes 7) not gagle com 8) mor-9 gagle.com NO GITK support formy 9) more b goode com 10) mar - c 10 goods - com ended topicalist 192 189 1224 OCH Resutt: Hence the study of various network command used in Linux & Windows is executed successfully