0519541- computer Networks - Lab manual. 10/7/24 Practical Programos Aim: DN & Berrey Shidy of various network com in hinux and windows: Do 10) Holy (+ Basis retworking commands: 2-7 [23-] [8-] [r-] [n-7 [s-7] "PLOVED [[Tokeray" Interface: 192. 168.100.1 --- 0xd Romak name Remake host male vino Internet Adders physical Adoless dynamic 00-50-56-10-56-76 192.168 100 .254 172.16.8.12019 , 7c-5a-1c-c6-be-45 dynamic 10-00-02 00-02 00-5e-00-02 stahe 01-00-50-76-16-12 stake 239.255,255.250 2) Hostname 5) ret stat DESKTOP - HCVQANO 3) ipconsig / all boa lovel DYGHO wind ows IP unjiguation Host name : PESKTOP - HCV DANO primary DOS Subling Eller Node Type : 178 8 . SI . ST Routing Enabled : No Enabled No Prony WINS

. I thenet adapter themet: connection specific ons super. Description Real kk pri e ak DNS Servers . --- . 172. 16.8 -1 Net BIOS Over TCPIP. Franked. in Linux and wind ni 4) nots tat -a NB T STAT [[-a Remove Name][-A ip addu) [-c][-n][-r][-R][-8][-5] [-S] [interval] Remoterance Remote host machine heme Dotted de umai physical Adoless Ir address dynamic 92-95-01-95-09-00 expresentation of Ip addus enteral Red in plays seleted MADNUM statistics, pausing interval 01-00-50-76-16-10 sec b/w each display. 5) net stat 2) Hostnams connections VIA - 90 meso Ackere Local Add Foreign Add State propo 172.16.8.85: 7680 172.168.179:55342 TCP TCP 172. 16.8. 85:7680 11 HOLIDI 7152:38881 TIME. WALT 172. 16.8.85: 62716 128: http TCP TIME wait 172.16.8.85:62734 172.16.11.108: TCP SVNon i bushing product of ma-do SENT

WING BOOK

Enabled no

199 1 (19 MI) (100

nstookup 6) nstookup www. google.com server: unknown Mon-authoritative answers name: www.google.com Adders : 2404 : 6800 : 4007 : 82 usage: path ping [-g host-list][-h maximum_hqs] [-i addern] (-n) (-p period) num-queries) (-wtimeout) [-6] target -name. 10000 168 37 31 30 Pring 3 AMAHO ping www. rajalakshmi.org plnging www. rajalaleshmi. org [14.99.10.232] with 32 bytes of-data; Reply from 14.99.10.232 bytes = 32 time & 1ms 14.99.10.232: bytes = 32 home = ims real ablasof. took los T TL= 127

Ping statistics for 14.99. 10.232! mai vipop wwas quidos es Packers: sont = 4 , Received = 4 , lost=0 DOUVANAN : 134138 (01/-1032) max = oms / max = ims / Avg = oms. MON- OLLEHOLITAKIE OPEWEL 9) Loute nom: wow about a such ROLLE [-6] [-P) [-4] [-6] comment [deskind [mask not mark) [gak way) (meter metric [(Fiterface) command one of these; PRINT : prints a voute mon-tipe pop Adds a route PETETE Decepes a route modifies an existing CHANGE soure. www. raja lak shore org INUX commande: bed and roma salatopum. and Brown wy La BE Misco gatway (172.16.8.1) at 70; sa:10: ef:be: 45 [entei]on Hostname of dispersion . PP - HI most juges The IT Total hord. localdo main

if contig to said the last to the said the 3) enp250: 10g = 4168 < UP, BRONDERST, RUNNING, MULTERST> mtu 1500 LO: 10gs = 73 KUP, LOOPBACK IRUNNING > mto 65536 weps so: lags = 4099 x UP / BRO DOCKS, MULT CAST > nombookup - A rip address > so por som sole star nin-shy or more nmblookup - A 4.99.10,232 or report cour - (121. Looking. up status 8 14.99.10.232 WORKGEOUP 2004 - K GROUP > B CALTIME DESK TOP - BQ 498 VC COOX nstookup vous google com a son months : 172.16.8.1P pour de 1 de 166 Address: 172.16.8.1 # 53 tron - authorised answer: Name: www. google.com Addens: 142.250.183.228 ip cophons > 4 object > 4 comm 6) peng i) peng total Hust a) it is address show Coachost (locachost (::1)) 56 data bytes 64 bytes from locaehost (::1): iemp-seg=1 ++1= 64 home = 0.077ms vous de 1/2 bover ii) Ping 4.2.2.2

PINO 4.2.2.2 (4.2.2.2) 56 (84) bytes of data 69 bytes from 1.2:2:2; comp-seg of thiss

(iii) ping www. jace book. com

Pinh start-mini. clor. jacebook.com(157.246.192. 35) 56 (84). bytes of data

64 bytes from edge-stae-mini-shv-02-moras.

Jarre book. com - (157.240.192.3) emp-seg=1 H12= 59- 18me= 2.79mg.

more and a sip address

7) Route 8 - 2002 248PA Ø8 - 407 42 39

keenel 10 nowing table

nak way cien mark Flags neme, ref w pes tindhon 0.0.00 (00) default gale way 0.0.00 1255.255.252.0 0 172.16.8.0

important Linux nehvorking commande Some martinop war

ip

th |

Doldens: 142.250 183.228 cophions > Lobject > Command>

a) #tip address show

rathert (::1) st. data by les 1210: ¿LOOPBACK, UP, LOWER_UPS MTEL 65536 (:. (): (comp - seg = 1 +0) inst 127.0.0.1 /8 scope host to mitro o - origi Ad

front boat page ()

varid-lft pever end 6 : 1/108

2: enp 200 : « BRONDLAST, MULTCAST, DP,

link /ether . 50 99 . 40: 84: 08 . 85

8: WE P350 : E BROADERST, MULTICAST, OF,

LOWER-UP > M to 1800

unt letter at: 6a:6a:12:1a:16

b) # ip adders add 192.168.1.254 129 dev

mir copiones > best will fee

c) #ip addess del 192.168.1, 254/24 der enpso3

d) # 8p lenk set etho ep

e) the p link set etto down

ip link get etho promise on

voux add default via 192.168.1. # 10 254 all etero

1) #1p route add 192.168.1.0/24 Mai 192. mas 168.1.254

#Pp route delete 190.188.1.0/24 via 192.168.1.254

j) #1p route add 1919.168.1.0/24 devetho

k) # 8p route get 10.10. 1.4

10.10.1.4 rea 145.18.1 der 50 sec

172.18.8.84 ved o caelo.

)

9

ref ux

ata.

-53

ms

. 192

rba

3 - 7

(92 - 35).

9 ms.

and,

36

001/3 2 0 100 2. if confeg en pero logs ex16 BEUP, BRONDERST RUNNING, multiculty med 1500 10: flags=73 < UP, LOOPBACK IRUNNING > mto 65536 ulpsio: flags = 4099 2 UP, BROADLAST, MULTURE, meu 1500 of the Es adderes add 195-108-140 SA 124 OF mtr zophons, host vice lip tip addens a) #mbr google.com

Host Pachets & pings

Rest coast 172.16.8.1 hoss %. Ont lost any Best coast stor 52.2% 160 02 02 02 03 142-250-171-161 48-67. 181 0.9 3.6 2.6 43.8 4.2 b) #mh -9 900gle.com e) them by googs, com d) # mr -c3 google.com I the route delete e) # mbr -l 90096/com 1) the route add 198. (6) the route get 10:10. 1.4 020 9 13 4 100 1 - 8 81 . 2 mg 1 - 1 - 01 - 01

by filler re wired 1038 packers by kurel diopped a) # dn install -g tepdump Last metadata expiration check: 2:50:40 ago on the 23 Jul 2024 08:23:12 AM IST. Package topoump - 14:4.9:0-2 [026.8686 is a wady instelled, skipping. Dependencies resolved nothing to do complete: , ha posidono es or estado es de # topaump -D > - 028 gms 1 - gm ung of the (s 1. enp250 [up, Running; Loopback] captures on all s. any (Aseudo dence that interfaces) s. to lup, earning, Loopback) 4. WRP350 (UP) c) # tepaump -i etho [# tepaump -i topaump: etho: no dence suppressed, with a V(a)

ENIONE (ethnine) listening on inp 250, link-type IP 142.16.9.164 . 510125 7.345.745 11 131:24 15149 43 Maying 300) 355.355.50 red of his propose IP locashost local domain lag 1131, 24, 319748 ra colved 18 packets caphied, 3RP packets sas aropped. # topaume - 1 enp 230 - c 4 where on enpres , while type enlows (11:36:56.34 7974 IP 17 Q. 16. 9.46. mdns >24 by our wendened o. O. 251-mg 4 parkets captured as by filter 252 parkets received by keinel 293 parks to deopped -i emp250-c (4 host 8.8.8.8 # t cpdump ump: verbose butput suppressed, un. topoump: on enpriso l'entethype, en come uskning (& meinet) o parkets caphied primes qu'el . accived by litter oregin in o parteets elevered by keerer. o parket # tepdum i rectore suppressed, use tcp dump - V (01) - W'

cap held not so works suor of to o parter H se coived by bilter 0. parkets dispred by keinel o packet connection show nmeli SUIP DEVICE Name sal badas-3aja- 0 1800001 wirea ethernot en poss consection, 300 1 + 855 1 5 Madam Anssiss de 120 al 2909e add con-namo # nmcli connection type ethe net 6406796-6702-4761-9/63 connection epos2 (048090 aebr4d) modify wited connection #nmeli connection ipro method with modify " wired connection 4 pmui connection 1pv6, method auto # ip addless show enpose 2: enposs: ABROACHST, MULTICAST, PROMISE, UP mti 1500 gaise ig-wall state up gradip defaut- glen Link letter 08:00:27:16 101:4+ bra16:61: 66 : 61! 86.