Bratical -1 Study of Various metwork Commands used in Linux and windows. Bosin Networking Commands: Windows consumands: arp-aught does wid me bourstons Interpolo: 192.168.100.1... odd Internet Address Physical Address 00-50-56-\$1-56-76 degramen 192.168.100.254 7C-Sa-1C-Cob-65 demanise 172.16.8.1 01-00-5e-00-00-02 Static 224.0.0.2 01-00-5a-7f-66-6a State 239.255.255 2) Hostnamo DESKTOP-HOUAAND 3) grouping / all windows IP configuration HOST mand DESTTOP-HCVAAND Brimary Des Suppiex Node Type : Juixed 8 31 551 WINS Brodey Enabled No Educated adapted Ethernet connection - sperible DNS suffix. Description : Relatete & Teable

DNS Servers: 172.16.81

Net 8105 over TCpip : Enabled Ling www. orajalakohnej arg 4) ubtstat - a NBTSTATCC-a Remote Namo JC- & IP address JC- CJC-nJ linging waw. original policy org (16-99.10.232) with 32 [-or]C+RJC-RRJC-SJC-SJC interval] bytes of data Reply afrong 14.99-10.232: bestes . 32 time L1 and T+L =127 Pernote chost machine mame Dotted degimal representations of 1P Remote Namo IPaddress Peply drown 16.99.10.232 bytes: 32 time = 1 awTTL Redisplays coelected statistics, pausing interval see blow each display interval ling status for 14.99.10.232 5) netotat Parkets: Sent = 4 Reviewed = 4, lost = 0(04-closs) Active drin = oner med = 1 aw . Ang = ones connections toreign Add State low Add Broto 9) Route 172.16.8.179.53362 FSTABLISHED Route C-& JC-PJC-&JC-6J commant Cdestination J TCP 172.16.8.85:7680 CM ASK antmaskJCgotewayJCMETRICCINETINJCIE TCP 172-16-8-85:7680 HD(1017152:38881 TIME-WALT Command one of there: TCP 172-16.8-85:62716 123: http TIME-WALT 172:16.11.105: JU-do SYN_SENT T(P 172-16.8.85:62734 ADD Adds a route 6) nslookeyp DELETE Debtes à route inslookup waw. gogle. Com CHANGE Modifies an existing croute LINUS COMMACOS: Server: curknown 1) ory - 9 Address: 172-16-8.1 Noy- authoritative answers gateway (172.16.8.1) at 70:50:10:(\$:50:45 Collier]
orangeso Name: Cum google. com Addresses: 2404:6800:4607:810:2004 142-250-188-228 2) Hostname 7) pathipung localhost: closed domain wage: pothping [-g host-list][-h unasumum-hops]
[-j address][-n][-p priod][-queoe-greries][iplanting emp 250 : alog = 4163 Lup, BROADAST, RUNNING. MULTIAST C-ov timeout JC 4JC-6J target-warme unter 1500

lo: aplago: 73 LUP, LOOPBACE, RUNDING Junter 65536 W, p350: glags = 4099 CUP, BROADAS. MULTICAST > with 4) mublook - Accip address > umblookup - A 14.99.10.232 dooking up status of (4.99.10.232 WORKGROUP COOZ- EGROUP > BCACTIUE> DESKTOP-BAGARUC LOOD- BEACTIVES MAC Address - 50 - 9 A - 4 C - 34 - 03-13 5) oplockup wwa-gogle low Server: 172.16.8.1 Address: 172.16.8.153 Man - outhorised answer Namo: www google com Addrew: 142.250.183.228 ling (i) ling decalhost PING loulhast (doubloof (:: U) 56 data butes 6 & bytes drown dotalhost (: 1): 1 cmp-cog = 1 th 1 = 6 & tens (i) ling 4-2.2.2 PING 4-2-2-2 (4-2-2-2) 56 (8 kg) Exter of data 6 x bytes obrown 6.2.2.2: 1 chip- coey = 1 tt 1=53 time= PINO startmini dor buebook - Com (157, 240.102.35) 56/84) - bytes of dato 64 bestes from odge - star-wini - she - 02 - mas / 2 cface.

7) poute a 1. 1. 01.01 top atoms que to Ce IP routing table ternel Crateway Cremmark Elags Metris les use Pestination 100 0 0 gateway 0.0.00 UG defoult 0.0-0.0 258.258.258.0 0 100 172-16.8.0 Some important lines networking Commands ip coptions > & object > C Command > a) I ip achdress show 1:10: LL00 PBACK, UP, LO WER-UP = ntel 65838 met 127-0.0.118 slope Inost to Valid - It Garloer 2: comp 2000: CBROAPCAST, MULTICAST, UP, LOWER-UP> dink (ether 50.90:41:34: d8:85 3: WP350: LBROADIAST, WULTICAST, UP, LOWER-UP > ntel link (other 24:60:82:00:66 b) # ip astress add (92.168.1.254/24 dere compsos c) # cip address del 192.168.1.254126 dere ompso3 a) # up dink coet atho up a) # up sink act with down \$ # ip link wet etho promise on 2) H up route and default win 192. 168.1.25 a des

h) # up ovoute add 192-168-1.0/24 via (92.168-1.2-54

i) # úp route delete (92. 168.1.0/20 Via 192.168.1

-(157-260-192-35)! Kup-sey=1+++=59 time= 279

(i) # up noute add 192-168.1.0./26 des alle a) # duf instal - y tyduny ck) # ip voute get (0.10.1.4) bot auto data expiration duck : 2:50:40 ago 10-10-1-4 liv 172-16.8-1 dec supo core on theo 23 Jul 2024 08:23:12 AU IST 172.16.8.84 vid o whe package tupdump - 14:4:9.0.2 de 26. 1686 if couping is arbitrary instelled, shapping. Departenches resolved compos: glags: 4163 cup, BROAD (AST, RONNING) mothing to do MULTICAST > mitu 1500 Complete; 10: \$lago = 73 CUP; LOOPBA/A/RUNNING > willy ant \$350: Glugs = 409aCUP, BROADIAST, MULTICAS mitur (500 3) mtr outr coptions , host inclup a) # outr google. Con 4. wlp350CupJ 140st larkets lings 172.16.8.1 shoot / out host day Best word std 52.24. 160 0.2 0.2 0.2 0.3 0.0 62.250.01.161 48.64.181 0-d 3-6 2.6 43:1.4.2 b) # outr - g good com () # contr - 6 9000 Cours A ship day (a) d) # outr - (3 google - Com e) Harte - I google com 4) tepdiming top dump: 287 parbots aphered 1033 parkets viciously by filter 740 parkets deopped by berirel

b) #-lepauny - D 1. emp250 Cup, Purusing; Coopback J 2. any (Bender, devise that laphures on all interforo) 3 · to Cup, Russing, hoopback J # topdanyp - i otho C# topdanp - i amp 250] typamy: colho: No deveiro Ctop durp: unbase output suppressed, use -v was -UV distancy on oup 250, dink-type ENIONB (athernet), capture (1:3 1:24:517943. IP 172. 16.4.5102>239.256.255.250. 11:31:24.518748 IP local host local domain total domain. 45156, 18 parkets captured, 328 parkets recieved, 328 dropped, d) # tyding - i enp 250 - (4 Cishating on onp 2 So, dick - topl ENIONB (

11:36:56.3479767 p 172.16.9.46 undus 224.0.0.251. mdn is parted aptivised. 252 packet various by bilder 243 fachets dropped by bernel a) # Lipding - i org250 - c u Most 88.88 tupdays: Verbaso output suppressed (Ethernel) o farkets received by fultur o packets captured o farkets dropped by bernel muscli connection show white subblase soft 3001
united subblase soft 3001
constiss -8551-defedubza000 TYPE ethernet DEVICE omps3 # numbi lametion add con - name Compense depe ethernet Connection compos 2 (6 4 0679 (-6702-6761. al 63-94809090b74d) I unile connection ghodoby " wired cornection i ip V 4: insthat auto # muli convertion anotify "wined convertion ip v 6. anothed acido. H up address show empose 2: anges 2: LBRO ADCAST, MULTICAST, PRONISE UP, LOWER UP> untu

1500 gdise dq- videl state up group defand gles linh / when 08:00:27: (cb:01:45 bid bb: bb: 46: 66: 88 # ip route show default default lia 102.168.137, 1 des eupos2 proto dhes ou 192.168-137. 92 undrie 1000 # cat /atc/oresolo confor mmelouser 127.0.053 options onder trust-od Search instrome. Ret · charge in last Ethernest * The st duties as they have a test they at ectegory 54 1 64pc gratin Sutrement Election Result: Various Network commands used air Cirus been studied. Are * tatter than UTP the and windows have