EX : 01 Date: 20-07-2024 Basic Networking . Aim: Study of various retwork commands used in Linux and windows. Parcela Lorde Hattaras Forced Barrelations In windows: 1. arp. -a: 8811-21-18 31513001.8 .01 STI 913T TEP 172716 8 100:01 3.87 0.23-11:216-33 10:016 0.1001. 400 Interface: 172.16.8.100 --- 0x5 Internet Address Physical Address Type Type 172.16.8.1 7C-5a-1C-Cf-be-45 adynamic 172.16.11.255 FF-FF-FF-FF-FF Staric 221.0.0.2 01-00-56-00-00-02 Staric Add 12 . 15 8 1 2. hostnamu: DESKTOP -8677MID LOJOJS111 - or (actops in station) fint the sumote mark 3. ipconfig law: or asorp sides with windows IP configuration resignoral A the off while stopped the state of the Primary DNS SUFFix.

22 Largolved) from names Resolved Node Type in bis does boord pet

4. Mbtstat -a:

Display protocol statistics and current TCP IIP CONTRUTIONS USING NBT (NetB105) OVER TEPITP).

3177 JULO 10 NBTSTAT [[-a Remove Name][-A IP address][-c] [-n][-n][-R][-RR][-S][-S] [interval]

2. hosenanu:

5. netstation of sold Acoc - 10-05: 340 (1

Fichive Connections is brief and in board

Prioto Local Address Foriegn Address State TCP 172.16. 8.100:51245 3d-in-f188:5228 Establish 172.16. 8-100:51389 a23-11-215-33: https close wai TCP ITHER FOLK: 172.16-8-100 -- - 0X5 172. 16.8. 100: 51411 20.198.118. 190; Htps Established

Income Fladmen Prayareal Address

Ains: It if b winders network command

6. 1 no 100 Kup: 31 - DE 31 18 01 811

TCP

172 16 11 255 FF- FF- FF- FF- FF- FF- FF Default server: Unknown Address: 172.16.8.1

MbEStat

- a ladapter Status Dist the rumo te machine name table given its name! pilmosqi &

- A (Fidapter Status) List the rumo te macrine's name toble given its IP address. Parlmony DNS 34 Ph.
 - 2 (rusolved) Lists names Resolved by broad cast and via wins. 4. Notatat -a:

Example. mbt Stat - 2 : mand day of more all

Net BIOS Names Resolution and Rigistration V. CARIATION Statistics.

Resolved By Broad cost = 0 Risolved By Name 80000 = 0

Usage: painping [-g Rost-list] [-R maximum
-Rope] [-i address] [-n] [-p period]

[-q num-quiries] [-w timeout] [-4]

[-b] target-name

9. Rouse

OPHO 125:

-9 Flost loose source route along Flost-list
-Florament - hops maximum rumber of
Rope to search for target

8. ping:

Usage: Ping [-t][-a][-n (ount][-l] sings]

[-t] [-i' TTt] [-v Tos] [-n count]

[-s count] [[-j Rost-list]][-k Rost

-list]] [-w timebut] [-R][-s. Stradbe]

[-c compantment] [-P] [-4][-b] Larget

- name

Options:

To see stations and continue- Type

Corusol-Break;

To stop-type corusol-C.

- a Resolve addresses to Rostnames.

- n count Number of echo Reausts to send.

manipulates retwork Routing tables.

Route [-f][-P] [-4][-6] command
[dustination] [mask rutmas x][gateury]
[metric metric] [If interface]

: prightog .F

erunies. If this is used in conjuction with one of the commands, the tables are drawed Prior to running the command.

- A force using IPVA

Color Force woings IPV6. 1919 2000

In linuse; all room [-] [fauge & -]

1: 107 F . 1 - 1 [A -] - [-] [-

Usage: ip [apriors] objett frommard

[JOHN R.] [SOT V-] [JTT 1 J-7 [F]

ip E-force J-barch filename

where Object:= & link | address |

addriabel | noute | noute | number of lin

neade | turned | turned | maddress

Im noute | m rule | monitor | xftm

Inetus | late | four mausec |

tep-metrico | token | rutconf | i la | vrif

Options: {-V [oroion]1-5[tariostics]]d [etai bo] - n [esolve] 1 - h [uman-readable] 1 - iec] - f Camily I finet linet blipx 1 drut Impis Ibridge / Linky

2. if config out sold of sales is a second

pourrison to expense on mar enp250: Hags = A163LUP, Broadcast, Running, multirast > men 1506 inut 172.16.8.100 rutm ask 255.255.252.0 broadicast 172.16.11.255

inet b fe80: 7661: bfa8: 2402; C2: C76C Prefix len 64 8 cope id 0x20 Llink > 151 (90) Couptrous, 200 no

ether 50: 9a: 4c:34: d8: 7e 20+ (paranel Exqueder 1000 (France).

mb:

n: my trau route (VD.87)

a. w. P. S. D.

o rodnum local Rost. localdomain L::)

Keys: 1461p Display mode Rustant Staristic agont stadio addison port sport

order of fields in quit [in morn mg [word war 1]

1+00 t

. 1. & morney Desconson my 8. 007601000 7-7 E0001219

5-11.2 Mig and out 0.1 6 8109 constant T-7 [1111 +-7 [] udbas

Packets

16 sudaming 15 - 16 notero pings comme

Lossi. Sn+ Last Aug Best with 8+Dew 0.01. 178 0.1 0.1 0.0 0.1 0.0

VIII THE BANK TO THE THE THE THE

Ecpaump: Promotor supra 4

Ecpdum p: en p230: you don 15 have. pour ission to capture on that device (socket: operation not n's sandin n, priming permitted. HELL THE SHOO BLEET BON

tcpaump - Doisond o cac aac aac

- 1. enpaso Eup, Running J
 - 2. any IPseudo du la that captures on all interfaces) [UP, Running)
 - 3. locup, Running, Loop back]
 - 4. Wlp350.
 - 5. blue took o LBILLET OOTR adapter JUSTY JUST number D).

ping: woon polacia alotte and

Usage: ping [-aAbBdDfhfnogr RUVVBAJ [-c'count] [-i intervai] [-I iruenface] [-for man K] [- m pm Eudist - opinon] [. 1 Preloca J [-P partenn] [- @ tob J [-S packet sime] [-S sudbuf J [-t ttl] [-T timestamp

- option J [-w acodine J [-w timeout]

[hop! .. . Jastination common serve

Ping is the primary top) IP command

Ping is the primary top) IP command

was to mouse shoot consisting.

Rechability and name Resolution

which command will be give me easter to the of the objects of the destroy one

Aros. Men constite that Route I men commond will softon the Route from a competer to a specified host. Mich provided a lot of station as about lack hope such of station as about lack hope such or Rappores time and persuntage.

CORFER COMMENSON DE GOUR MACERINES

The command cas prior oddy as, the manifest of the command of the comment of the

Roult: Thus the study of findus and windows basic commands are studied successfully.

V 24/8

observation:

1.

reactionility of a Rost machine from your device?

Ping is the primary TCPI IP command used to house shoot connectivity,

Reactionslity and name Resolution.

of Ropes taken by a packet to reach

Aros: mer Lmotis trau Route) met command will so how the Route from a computer to a specified host. Met provider a lot of statistis about lack hop, such as Response time and porum tage.

3. Which commanows displays the iP configuration of your machin?

Ans: IP coprions > Lobjet > Lemmands

IP command can show oddress,

Information, manipulate Rowing,

plus dispay ruturotk various durius,

durius ruturotk various durius,

inter faus 8 Eunnuls

MAIN

4. Which command displays the TeP port status in your machine?

Ano: retorat

about a computer autile toPIIP

- in a timex macrine?
 - i) assigning IP address to Intent a ce iP oddress add 192.168.1.254 12 4 der capso3.
 - ii) delling ip address.

ip oddress del 192 168.1. 254/24 du enpso3.

W