13/1/2024

AIM

To study various Networking commands used in linux and windows.

connands:

1. arp-a

Output :-

Internet address 192.1688.1.1

192.68.1.5

Physical Address 96-67-17-96-15 192.168.1.2 10-76-36-97-06 64-Pf-0a-90

Type Dynamic Dynamic Dynamic

2. HOST. hostname

Output:

DESKTOP-RG2092Q

3. ipconjg all.

Output:

Nudous IP configuration

DESKTOP-RG20929 Host-Name.

Primary Dns Suffix

. . : typicid Hode type .

IP Rowling enabled No

Wind Play Enabled ... : NO

Bandway purmonally signs prooffing A. Nostat -a

Output: = amman pridrawdsu warren getrette à Displays peotocol statistics and current TCP/P connections using NBT (NetBios over TCP(1P)

NBTSTAT [I-ademore Name] E-A IPAddrew] I-C]

[-n][-r][-r][-r][-r][-s][-s][-s][-s]

-a (adapter status) Lists the emple machine's

have table given its name.

- A (Adapter status) Leits the remote machines have dable guien its it address.

-c (cache) hist NBT's cache of eenwore [machine] rame and their | paddnesses.

5. retstat

Output:

Active Connections

State Local dodness ForeignAddiness Proto TCP 127.0.0.1:49711 DESKTOP-49711 ESTABLISHED 192-168.1.7:57602 192.168.1.2:8009 ESTABLIJHES TCP 192.168.1.7:57625 192.168.1.2:8009 ESTABUSHED TCP

de for leading pay for the

.. Out helded from that

6. nslookup

output :-

Default Suner: Unknown

Address: fe80: : 9267: 14ft: fe 96: 1548

4. pathping

Output:

Usage 'pathpeing [-g host-list] [-h maximum_hops]
[-i address] [-n] [-p period] [-q, num-queries]
[-w timeout] [-4] [-6] target_name.

Options:

- 9 host-list hoose source source along host-list.

-h maxemium_hops Maxemium no. of hops to hearch to target

-i address use the specified source address.

8. king

Dutput :-

Usage: perig [t] [-a] [n count] [-1 suige] [-f]

[-i TTL] [-v tos][-v count] [-s count] [[-j host-liit]]

[to host-list] [-w timeout] [F] [-s srcaddr]

E-c compartment JE-PJ [-47[-6] target-name.

Options:

-t Ring the specified host until stopped.

- a Resolve addresses to hostranes

-nevent Number of educ requests to send.

9. route

Output:

Manipulates networks eauting tables.

ROUTE EFJEPJE-41-6J command [destriction]
[MASK netwask] [gareway][METER metric] [J vireyay]

- f clears the routing tables of all gasteway
 carry. If this is used in conjunction
 with one of the commands, the tables are
 cleared prior to eurning the command
- P when used weith the ADD command, make a noute persistent across boots of the system.

 By default, courtes are not operarried when the system is restarted

Comos dograph Tol 184-7 Est-JE-Enerotrograp

- 4 Force using IPVA
- -6 Fooce using 1PV6

THE Front FIT Etwar 2-J Etwar 4-71 205

Output:

Usage: ip Cortions J OBJECT Ecommano Hulpz ip Efoce J-batch filename

where OBJECT:= ELINK | address | addrabel |

Route | rule | neigh | ntable | turnel |

turtap | maddness | meoure | meule |

monitor | x frm | net ns | l2tp | four | macsec |

top-metrics | token | net cary | is a | suf 3

2) if conjig cutput:

enposo: flago = 4163 LUP, BROADCAST, RUNNING, MULTICAST)

inet 142.16.11.36 retmark 255.255.252.0 broadeast 142.16.11.255.

viet 6 fe80!: dte4: £387: 92£; d315
prefixler 64 scoperd 0x20/Link>

ether 50:99:40:35:0f:75 txqueuelen 1000 C5thernet) 3. mts

Output. My trace route [vo: 8-1]

local host. local domain (::)

buys: tellp... quit

Host Sat Jul 20 11:57:39

Pirgs

Packets

hoss:/. Sht Last Avg Best west stoen 0.0%. 129 0.1 0.1 0.0 0-1 0.0

4. top dump -D

1. enp250 [up, Running]

2. any (Pseudo-denice) that captures on all unterface) [up, Running)
3. lo [up, Running, Loopback]

4. Nlp350 [up].

output

usage: peing [-a A bbdDAh Lnogrkuv 644] [-Coount]

usage: peing [-a A bbdDAh Lnogrkuv 644] [-Coount]

[-i utienval] [-I vireyau] [-m mark] [-m pm tudic option

[-l pulpad] [-p pattern] [-0 tos] [-s packet sing]

[-s snd by] [t ttl] [-T tringstamp_option]

[-w deadline] [hop1...] destriction.

Dustion's Answer: 1) 'ping' to find enachability 2) mtr Lweb addressy 3) ip address show to show I payiguration A) netstat 5) 'y config' A Cheepper Category & Opts 100 Mbps & Easy to unitall Categoryse (glops Graph Etems peloleiz. Caregory 10 61 phs whenthopia . Less susceptible data centers. · byrealer with 106 Elleret RESULT: Thus the various notworking commands in linex and mindows au studied. 24/4/24