3-51-2 133

AIH:

THE STATE OF THE S Study of various Network commands used in Linux and Windows

EN TO SHEED AND AND MADE DESTROY OF THE THE

BASIC NETWORKING COMMANDS:

WINDOWS COMMANDS.

Interface: 192.168.100.1_-_0xd

Internet Address

192.168.100.254

172.16.8.1

224.0.0.2

239.255.255.250

Physical Address

00-50-56-fc-56-Tb

7c-5al-1c-cf-be-45

01-00-5e-00-00-02

234.256.255.250 01-00-5e-#f-ff-fa

Type

ZABY BIBBB 9T

dynance

dynanic

Static

static

2) Hostnauce

DESKTOP-HCVQANO

3) ipaufig / all

Windows IP configuration

Host Name..... DESKTOP-HCVQANO

Primary Dus Suffex....:

Node Type..... Hixed.

Ethernet adapter Ethernet

Connection - specific DNS suffix

Description.... : Realtete PCTe abé Family controller

DNS Seuvers...: 172.16.8.1

NetBIOS over Topip.... : Enabled

4) Webtstat - a

NBTSTAT [[-a Remote Name][-A 1P address][-C][-N] [-Y][-R][-RR][-S][-S][interval]

34733 2747131 Remote Name Remote host machine name

IP address Dotted decimal representation of IP address interval Redisplays selected statistics, pausing interval sec b/w each display

5) netstat

Active Connections

Proto Local Add Foreign Aeld state TCP 172.16.8 85 7680 172.16.8.179:55342 ESTABLISHED TCP 172.16.8.85 F680 HDC1017152: 38881 TIME-WAIT 172.16.8.85:62716 TCP 123: http TIME-WAIT 172.16.8.85:62734 TCP 172:16.11.105: MS-do SYN-SENT

6) Uslookup

uslookup www. google com

Seevel: Unknown

Aeldness: 172.16.8.1

Non-authoritative auswens:

Name: www. google. com

Addresses: 2404: 6800: 4007: 81e: 2004

142.250.183.228

asage: pathiping [-g flost-list][-fi maximum flops]

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

8) Ping

ping www.rajalakshui.org

pinging www.rajalakshnii.org [14.99.10.232] with 32 bytes
of-data

LINE TO A STREET, DA DELLA GUA GUA PROPERTO DE LA TRES.

[-w timeout][-4][-6] target name

Reply from 14.99.10.232: bytes = 32 time < 1 ms TTL=127

Reply from 14.99.10.232 bytes = 32 time = 1 ms TTL = 127

Pring statistics for 14.99.10.232:

Packets: sent-4, Received =4, cost = 0 (01. loss), Min = ones, max = 1 ms, Ang = ones

9) Route

Route [-f][-p][-4][-6] commant [destination]

[MASK Nethrask] [gateway][METRIC metric][IFInterjaci

1 9 41 5371 251

966 E81 088 GAI 20970

command one of these:

PRINT Prints a voute

ADD Adds a route

DELETE Deletes a noute

CHANGIE Modifies au existing noute.

LINUX COMMANDS:

1) arp -a

gateway (172.16.8.1) at 7c:5a:1c:cf:be:45 [ether] on enp250

2) Hosthame

local prost. local domain

3) if coufig enpaso: flag = 4163 LUP, BROADCAST, RUNNING, MULTICAST> metre 1500

lo: flags = 73 LUP, LOOPBACK, RUNNING > netre 65536 WIP350: flags = 4099 & UP, BROADCAS, MULTICAST > NUTUL 1500

4) hubbookup - A Lipaddress> hubbleokup -A 14.99.10.232

36 1 254 pet 355 01- pp pg 20019 100 100 Looking up status of 14.99.10.232 WORKGIROUP LOOY - LGIROUPY BY ACTIVEY DESKTOP - BRA98VC LOO> - B LACTIVE> MAC Address = 50 - 9A - 4C - 34 - D3 - C3

5) uslookup www. google com Server: 172.16.8.1

Addness: 172.16.8.153 MARIE [] II-P I [-4] [-6] COMMUNICALE [OLEMENTE

Non-authorised auswer. MATTHITE PROMODED ESTABLIAN XZAHIS

Name: www. google.com

Address: 142.250.183.228

- 6) Ping
- (i) Ping localhost

PING localhost (localhost (::1)) 56 data bytes

64 bytes from localhost (::1): ichep-seq=1 tt1=64 time=0.077ms

(ii) Pung 4.2.2.2

PING 4.2.2.2 (4.2.2.2) 56(84) bytes of data

64 bytes from 4.2.2.2: icup_seq=1 tt1=53 time: 35.2ms

MINERADION HOND DESCRIPTION

(iii) Ping www. facebook. com

PING Start-mini. clor. facebook. com (157.240.192.35) 56/84) - bytes of data

64 bytes from edge-star-mini-sav-02-maar fackbook com - (157.240.192.35): ichep-seq=1 ++1=59+ine=279

0,919 4985 ACTOLESI EDI BED 531777 7 1811

protot ste sinor as aca

100

7) Route

Kernel IP routing table

ans 4950 1.9 41 571 5024 1 101 01 Flags Metric Ref use Gemark Rateway Destillation 0.0.00 100 UGI gateway default

255.255.252.0

CILPRIO FLORS AIDSKUP, BROADCAST, RUNNING, MILLICASE some important Linux networking commands. TO: FLOOPER TESCUP, LOOPERCK, RUNNING > MITU BEESE

1) LP

172.16.8.0

upl options > < object > < commands

0.0.0.0

a) # ip address show

1:10: LLOOPBACK, UP, LOWER_UP> Nutel 65536

met 127.0.0.118 scope host to

valid - yt forever

illet 6: : 1/129

- 2: enpaso: KBROADCAST, HULTICAST, UP, LOWER_UP > Well 1500 link/ether 50.9a:4c:34:d8:85
- 3: WYP350: LBROADCAST, HULTICAST, UP, LOWER-UP> Nutel 1500 link/ether d4:6a:82:ca:fb
- b) #1p address add 192.168.1.254/24 der enpso3
- c) #10 address del 192.168.1.254/24 der enps03
- d) Hip link set etho up
- e) tip link set etho down

f) # ip link set etho promise on

9) # ip route add dejault via 192.168.1.254 der etho

R) # ip route add 192.168.1.0/24 via 192.168.1.254

J) # ip route delete 192.168.1.0./24 via 192.168.1.254

j) # ip route add 192.168.1.0/24 dev etho.

12)# ip route get 10.10.1.4

10.10.1.4 Mia 172.16.8.1 der enpaso src 172.16.8.84 id o cache

2) if couring

enpaso: flags = 4163 LUP, BROADCAST, RUNNING, MULTICAST > Mitu

lo: flags = 73 LUP, LOOPBACK, RUNNING > Mtu 65536

WLP350: flags - 4099 < UP, BROADCAST, HULTICAST > Nutu 1500

3) Metr

mtr Loptions short ie/ip

a) # nutr google.com

Host Packets
Pengs
172.16.8.1

Ross./. Sut Loist Ang Best Wrst stoer
52.21. 160 0.2 0.2 0.2 0.3 0.0

142.250.171.161 48.61. 181 0.9 3.6 2.6 43.8 42

b) # nutr-9 google com

c) # nutr-b google com

d) # mer - c3 google com

e) # nutr-d google com

4) topolitup

topolitup: 287 packets captured

1033 packets received by filter

740 packets dropped by kernel

a) # duf install - 4 tepaning

Last metadata expiration check: 2:50:40 ago on The 23 Jul 2024 08:23:12 AM IST

Pachage tipdump-14: 4-90-2 fc26. 1686 is already installed, skipping

Dependencies resolved

Nothing to do

b) # tcpdump -D

- 1. enpaso cup, Running; Loopback]
- 2. any l'Pseudo-device that captures on all interfaces)
- 3.10 Eup, Runing, Loopback]
- 4. WYP3SO [Up]

c)#tepdump-i etho [#tepdump-i enpaso]

+cpdump: etho no device

Etcpdump: verbose output suppressed. Use -V (or) -VV

Wistering on enpaso, link-type ENIOHB (ethernet), capture

11:31.24.547943. IP 172.16.9.164.57012>239.255.255.250

11:31:24.578748 Ip wealhost wealdomain was down and

45756 18 pathets captured, 328 packets received, 328

dropped.

d)#+cpdurep-i emp2so-c4

listening on enpaso, link-type ENIOMB (Ethernet) 11:36:56.34 +974 IP 172.16.9.46, mans 7 224. 0.0.251 may 2 A pachets captured 252 packets received by filter 243 packets dropped by keenel.

A DE CONTRACTOR PRODUCTION

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CARACTER SERVICE

324010375 33247243134

A 1/2/24.

Result:

Network commands used in Linux and Windows have been studied