Aim: Study of various Network commands used in Linux and Windows

BASIC NETWORKINGS CONNANTS

WINDOWS COMMAND:

varp-a

Intespace: 190.168.182.1 _____ XG

Physical Address Type Internet Address 00-50-56-fc-56-76 dynamic 192.168.180.254 01-00-50-00-00-02 static 172.0.0.2 01-00-5e-7f-ff-ga static 239 . 255 . 255 . 250 01-00-50-00-00-fc static 924.0.0.252

2) hostname DESKTOP- V4FUKL3

3. ipcongg/all

Windows IP Configuration

Flost Name DESKTOP-V4FUKL3

Primary Dns Suffix. ...: Pase 1 912 1 104 1 902 1 104

Node Type : Mixed

IP Routing Enabled : No

themet adapter Ethemet:

Connection - specific DNS & suffix and lapson of

: Real tex PCIO GIBE family Controller Description

. . . : 172-16.8.1 DNS servers....

Not BIOS ONE Repip. ! Enabled . 255 . 255 . 252 . 0 Subnet Mask

1) abbat a

NBISTAT[[-a RemoteName][-1) IPaddress] [-c][-n][-r][-R] [-RR][-S][-S][interval]

Remote host machine name RemoteName Dofted decimal representation of the IP address IP address Redisplays selected statistics pausing interval nterval sec between each display.

5. notstat - a

Active Connections

Local Add Foreign Add State Boto **LISTENING** 0.0.0.0:135 Desktop-V4FUKL3:0 7CP CLOSE_WAIT 172.16.8.93:49908 13.107.246.254: https TCP ESTABLISHED 179.16.8.93.50433 sd-in-f188:5228 TCP

6. nslookup

Default 2021/02: Unknown

Address: 172.16.8.1

Server: www.google-com

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

142.238.183.228

7. pathiping

Usage: pathping[-g host-list] [-hmaximum_hops][-i address] [-n] [-p period] [-q num queries] [-w timeout] [-4][-6] target name figure and appear

```
8. ping ping www. rajalakshmi. org
  pinging www. zajalakshmi-org [14.99.10.232] with 32 bytes of data:
  Reply from 14.99.10.232: bytes=32 time < 1ms TTL = 127
 ping statistic for 14.99.10.232:
   Packets: Sonf = 4, Received = 4, Lost = 0 (0% 1035),
Approximate round trip times in milli-seconds:
  Nonimum = 0 ms, Maximum = 0 ms, Avorage = 0 ms
 9. Doute
   Manpulates network souting tables.
  Route[-f][-p][-4][-6] command[destination][MASK networks]
 [gateway][METRIC metric][IF interface]
 command: one of these:
              paint a route
                 Add a route.
              Delete a voute
               of parked townshield, or packed loss, time all sons.
 Linux Commands:
r. ip
```

usage: ip[options] Object {command | help}

ip[-force] - batch filename

where OBJECT != { Link | address | nowe | nule | token}

OPTIONS := {-V[ersion] | -s[tanstics] | -d[etails] | -neesolve]}

signorfig

empso: flags=4163<UP, BRO ADCAST, RUNNING, NUTTICAST> mtu 1500 met 172.16.8.93 netmask 255.252.0 broadcast 1.12.16.11.50

lo: flags=73 < UP,100PBACK, RUNNING > mtu 65536 inel D7.0.0.1 netmask 255.0.0.0.

wtp350: flags=4099 < UP, Broadcast, multicast > mtu 1500 ether :56: 26: 60: 30: ca: 74 trqueuelen 1000 (Ethernet)

3. mtr

mtr google.com

Host 1055 Rackets 1055 Avg Best Wrst Stder
1. 172.16.8.1 0.04. 85 0.2 0.2 0.1 0.9 0.0
2. 112.250.228.81 0.04. 110 3.2 3.4 2.6 15.5 1.6

4. ping ping www.google.com.

jung www.google.com(142.250.183.228) 50 (84) bytes of data 64 bytes from maaos 523-10-f4. lelob. net (142.250.183.228): icpnp.seq=1 ttl=120 time=2.66 ms.

22 packets transmitted, 0% packet loss, time 210 93ms.

Result:

Thus the study of various Network commands used in linux and Window was done successfully.

Observation:

ywhich command is used to find the reachability of a host machine from your device?

ping I hostname or IP address -

Ownich command will be given the details of hops taken by a packet to seach its destination;

Exaceroute < destination >

- 3 which commands display the ip configuration of your machine.
- Dwhich command display the TCP port status in your machine? netstat -an
- 5. Write the modify the "ip configuration in a linux machine. Sudo ip addr add < new_ip_address7/csubnet_mask7dev Linterface rame? Hadio man tip

Thus the study of various Network commands used in Result: linux and Windows was done successfully. d-A7 LAWS

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