Experiment 1
Date: 16-7-84

To Study of various network Command used in Linux + windows

Short of address resolution prichal show

1P address of computer along with IP & MAC

of router

emon soid too the midding solos

90

ob 8d 7d 80 F

60 77 00 ... 85

OLP

10terface: 172.16.11.159 --- 0x8

172.16.8.167 AC-57-58-38-46-80 dynamic

17216.10.107 7C-57-58-35-10-dc State

## hostname

display name of computer

Old Derktop 3DCOH125A de ot

garagy all detailed Confugueron about souter garagy , one etc.

```
OP
                                 10 P - 11 2 0 00
  Windows 10 Configuration
     Hostname ..... Desktop 30co15432
     Poursay Suffer Tioner de jubille
 Chounet adapter ethernet
     Connection Specyco DNF Suffox
     Descripton .... Realtek
                                        0- 940
 F60 landing and words who to had to
   1.8.61. CFI .... 172.16.8.1
 1 oddies of Compute alend with 10 care
 nbtstaf -a
                                     rotowe 10
    Solve problem with out bios name
  0/p
              8x0 --- Pal. 11. dl. CF1. 200/10/01
 Active Connectors
         Goal address Breign address whate
 PHOTO
TCP
          0.0.0.0:135 0 M-0:0 Coking
        0.0.0.0: HHS M-A:0 Listery
TCPU
  TCP.
         0.0.0.0:902 M-A:0 distanty
  Netstat =91
                                       post norme
  Interface List
               constant course of computer
 7... 08 bs b8 da of 68 .... Reallek PCIE GIBE
 98 ... 00 lt p8 63
                   12 3a... TAP WINDOWS adapter
 14 ... Ce 47 40 eb
                   10 ab ... Microsof 1 wi-fi Davel
                                   Ho pilnose
  IPV4 Route table
                  netonask garleway integace metric
 network distination
                    0.0.00 192.168.132.31 192.168. 35
 0.0.00
                   255.0.0.0 On-link 127.0.0.1 331
 127.0.0.0
```

nalbokup

Tool to perform DNS Lookups in Linux it display is address of a computer

instookup www.google.com

OP

Server : Unknown

address: 192.168.232.31 (001200) page

Non authorative answer. ] and paipage

Name: www. google.com

: I: 1 real epiterhotes prof

142.250.193-132

Balkbibiod

Combination of ping? tolocert Command Il bace nouse to destination address to Laurich a 25 Second test 8/p ell- Hologimon works of bear

path piping [-8 host-list] [-h manimum\_hops] [thomas 9-2[n] [exercise :-] [-a num-queries] [-w -limeout] [-4][-6] taggers - name

Options towe stowers and ognor

-9 host-lest loose dounce exoute along thest line

- h maximum hops maximum number of hops to search for target

is the best way to test Connectivity blue two nodes. Ping use to communicate to other device amountau: Korksta OP 18.886.801 8P1 3 0000 bo realloson build · Pinging M-A [::1] with 32 bytes of date suply from ::1: time Llms 140.850.198.058 Ping statistics for :: 1: pargrand Packets Sent = 4, sucreved = 4, lost = 0 Approximate sound temp times in milli second took bowned as D dome Rouk used to show manipulate the IP

Sed up State noves to specific host On network

O/P somod - hoperot la-Trumanipulates network evoluting tables Route [-F] [-P] [-41-6] command [destination] [mank not mank] [gateway] [metalic Metaric] [IF interface]

Linux Networking Command

里

a) to to show is address

\$ ip address show

OP

1: 6: < 600 back, up, Lower-up> min 65,296

9 disc 82- codel stateur group défault

link/coopback 00:00:00:00:00 bid

00:00:00:00:00:00

1001 127.0.0.1/8 Scope host

2: enp 250: 2690000...

1) To assign on to to relegace

\$ 10

b) Display soute taken for ip 10.10.1.4

\$ ip soute get 10.10.1.4

OP

10:10.10.4 VIQ 172.16.8.1 dev enp250 300

142.16.9.235 uid 1000

mfa

Matt's touce sworts is a toward schooling tool

a) mas more part

PIP

Host Packers sont last any best curst stoer

0.01. 109 0.1 0.0 0.2 0.0

mts - c 10 google.com

o/p

Packets

Host

Loss + 1. Sn Cast Aug Best wist stebs

172-16.8.1 34.7 28 0.2 0.2 0.2 0.4 0-0

Stehc-4.con 35.1 28 0.6 3.1 2.6 4-6 0.3

top dump

Capture thind dusplay packets

\$ topdump -D

olp

1. en paso [UP, Running]

2. arry (Pseudo - device that capture)

3. Lo Cup, donning, loop back]

4. WLP 350 [UP]

5 Blue books O

Ping Verifies IP-level connectivity to another

TCP 12P. Computer by Sending internet Control message protocol

\$ ping google com

Olp
PING google.com (142.250.182.14) 56(84)
bytes of data
64 bytes from magossis - in-Pi4.leloo.net

1cmp-seq=1 #C=120 time= 3.14 ms

google com ping states hos

5 packet transmitted, 5 succieved, 0-1, packel loss

914 min and I mare Indeed

google. comping statuties
to packet transmited 2 recieved 80 or loss
time 9195 ms

. 91 min/avg/manc/mdov = 3.108/3.175/3.243/0.087 mg

# ping local host bocaldoman

0/1

PING Local host. Local domain in (cocal hot. local domain)

64 byte from local host (::1): 1cmp deq=1 the=64

time=0.056 mg

64 bytes from local host (::1 1cmp seq=2 thl=64

tike=0.045

IP Config

empa so flags: 4163 ZUP, Bewadow),

Running multicest > mdu 1500

10e1 172-16.8.94 netmask 255.255.251.0

Bewadowst 172.16.11.255

lo: flags = 43 LUP. LoopBack, Running > milu 65836

16 7 2 10et 6:1: Prefixer 128 orberd 0:0.0

Thus the basic Linux & windows command have been steadied & executed