1817/24 CS19541 - COMPUTER NETWORKS LABORATORY OBSERVATION PRACTICAL -01

# BASIC NETWORKING COMMANDS

#### nim:

Study of various Network commands used in Linux and Windows

# Commands:

ARP is short form of address resolution protocal which show 1) arp-a: the 1P address of your command along with 1P address and MAC address of your nower

# output:

Intorface: 172.16.8A3.... 0X4

Alabana	Physical Address	Type
Internet Address		dynamic
172.16.8.1	7c-5a-1c-cf-be-45	dynamic
172.16.8.172	7c-57-58-35-0d-3d	static
172 . 16 . 11 . 255	ff-ff-ff-ff-ff	static
244.0.0.2	01-00-50-00-00-02	static
244.0.0.251	01-00-58-00-00-fb	static
239.255.255.250	01-00-5e =7f-fa	
Interface: 192-168	.182.1 0×6	
Turnandar		Tupe

Interface: 192-108	Prysical Address.	sqpr
Intornet Addors	46 -46 - 66 - 66 - 66 - 66	static
192.168.182.255		static
244-0-0.2	01-00 - 50 - 00-00-02	static
244 . 0.0 . 252	01-00-50-00-00-90	static
2 59. 255, 255, 250	01-00-58 -7f-ff-fa	

#### 2) Hostname:

It displays the name of your computer OUTPUT: DESKIDP - V4 FUKL3

# 3) ipconfig /all:

This command displays detailed configuration information about your TCP/IP connection

output: Windows IP configuration

Host Name

: DESKTOP - V4FUKL3

Primary DNS SUFFIX

Node Type

: Mixed

IP Routing Frabled

: No

kinis Prory Fnabled ; No

Ethernut adapter Ethernut 2:

connection specific INS Suffix:

Description: Visitual Box Host-only Etherinet Adapter

Physical Address: 0A-00-27-00-00-11

DHCP Frabled: No

Subnet Mask: 255.255.255.0

## 4) nbtstat - a:

This command helps solve problems with Net BIOS name resolution.

## output 1:

nostat-a DESKTOP-V4FUKL3

#### OIP:

Ethernet 2: Node IP Address: [192.168-56.1] sope id:[] Host not found

Ethernet

Node IP Address: [172-16.8.93] Scope id: []

Host not found

VM have Network Adapter vmnet 8:

Nod e 17 Addres : [192.168.8.1] scope id: []

Hast not found

VMWare Network Adapter VMNet 1:

Node 19 Address: [192.168.182.1] Scope id: []

Host not found

## nbstat - r

# output:

Net BIOS Name Resolution and Regultration Statistics

Resolved By Broadcout = 0

Resolved By Name Server=0

Registered By Broadcast = 12

Registered By Name Server = 0

# nbstat-s

# output:

YMMare Network Adapter YMMet 1:

Node IP Address: [192.168.255.1] scope id:[]

No connections

VM Mare Network Adapter VM Net 8:

Node 1P Address: [192.168.72.1] Scope id:[]

No connections

Etherunet:

Node 1P Address: [172.16.8.112] scope id: []

No connections

# 5) netstat :

netstar displays a variety of statistics about a computer active TCPIIP connections.

## output:

Active connections

Proto	Local Address	Foreign Address	State
TCP	172-16-8-93:52328	sb-1n-f188:6228	ESTABUSHED
TCP	172.16.2.93:52464	13.107.213.254: https	CLOSE-WAIT
TCP	(72.16.8.93:52497	62.139.252.32.https	ESTABLISHED
TCP	172-16-8-93:52498	023-57-53-203: https	TIME-WAIT
TCP	172-16-8-93:52499	20:198.118.190: https	ESTABLISHED
TCP	172-16-8-93:52500	a23-11-215-11: https	CLOSE - WAIT
702	172 - 16 - 8 - 93 : 62 501	023 - 11 - 215-11 : https	ESTABLISHED
TCP	172.168.93 52502	023 -11-215-11: https	CLOSE-WAIT
TCP	170.16893:52503	a 23 - 11 - 215 - 11: https	CLOSE WAIT
TCP	172.16.8.93.52504	40.79.189.58: https	ESTABLISHED
TCP	172-16-8-93:52505	13.107.18.254. https	ESTABLISHED

## 6) nslookup:

It is used to perform DNS brokups in Linux

### output:

1. nslookup www-facebook-com

## output:

Server: Unknown

Address: 172-16/8-1

Non-authorative answer:

Name: stan-mini.cla. facebook.com

Addres: 2003:2880: 1137:182; faze: booc: 0:25de

157. 240.192.35

Alianes www.fownook com

a historia ware-twitter com

output

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Activitie : 172:11.8.1

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