

# EXPERIMENT - I

8-1-19

## NETWORK COMMANDS

### 1) PING:

The ping command sends echo requests to the host specified on the command line and lists the responses received.

SYNTAX: ping IP Address or Host Name  
Ex: ping www.vit.ac.in

### 2) NETSTAT:

It works with Linux network subsystem. It will tell us what the status of ports are i.e. open, closed, waiting connections. It is used to display the TCP/IP network protocol statistics information.

Ex: netstat -a

### 3) TCPDUMP:

This is a sniffer, a program that captures packets off a network interface and interprets them.

#### 4) HOSTNAME

Tells the user the hostname of the computer they are logged onto

Ex: Hostname

#### 5) TRACEROUTE

It will show the route of the packet. It attempts to list the series of hosts through which our packets travel on their way to destination

Ex: traceroute www.ietf.org

#### 6) finger

Retrieves information about specified user.

Ex: finger bee800

#### 7) IPCONFIG

This is used to configure network interfaces.

Ex: /sbin/ifconfig

3) PING

The 'Pinging Information Grepers' tool  
If a hostname is given as an argument,  
it outputs information about the host,  
including its IP address, hostname and  
other info.

Ex. Diffs. utilities

4) WINNET

It allows us to login to a computer, just  
as if you were sitting in the Windows  
Once username and password is verified,  
you are given a shell prompt, from here  
we can do anything requiring a bit  
knowledge

Ex. telnet bee001

5) FTP

Used to connect to an ftp location



Ex: \$ip 192.168.0.15

1.1) NSLOOKUP:

Returns IP address of given hostname  
& vice versa

Ex: nslookup www.it.ac.in

4)  $3.925065$

4) Transfer to www.vit.ac.in (10.101.55),  
50 hop max, 60 byte packets

1. 10.10.154.1 (10.10.154.1) 2. 949ms 2094ms  
3. 127ms

2. 10.30.0.2 (10.30.0.2) 0.245ms 0.363ms  
0.628ms

3. vit.ac.in (10.101.55) 0.156ms 0.159ms 0.157ms

The program 'fing' is currently not running

Q The program 'finger' is currently not installed.

7) eth1 Link encap: Ethernet HWaddr  
b0:83:fe:77:dc:35  
inet addr: 10.10.156.55 Bcast: 10.10.  
154.255 Mask: 255.255.255.0  
UP BROADCAST RUNNING MULTICAST  
MTU: 1500 Metric: 1



10. [unclear] [unclear] [unclear]  
[unclear] [unclear] 127-0-01 [unclear] 233-0-05  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear] [unclear]  
[unclear] [unclear]

1000 Hz 9.45 - 2000 Hz 0.1 - 10000 Hz 0.1

Global [unclear]: 1000

Local [unclear]:

Query time: 0 msec

SERVER: 10.30.7.214 > 10.30.7.214  
[unclear] [unclear] [unclear] [unclear]

9)

telnet: could not resolve 150.0.51.1  
telnet: Name or service not known

10)

Step connect: connection timed out



11) Server: 10.30.7.214

Address: 10.30.2.214#53

www.vit-ac-in canonical name = vit-ac-in.

Name: vit-ac-in

Address: 10.10.1.53

