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**Assignment No.1**

**Title :** Explore TCP/IP utilities and network commands on linus.

**Theory :**

* **Ping**

Ping command is one of the most used utilities for troublshoting,testing and diagramming network coonectivity issues.

It sends ICMP echo request to destination IP.

Syntax : ping destination.

Eg. ping google.com

* **Ifconfig/ipconfig**

It is used to onfigure resident network interface . It is used at boot time to set up interface as necessary.

Syntax : ifconfig [option][interface]

* **Hostname**

It is used to obtain the DNS name and set the system hostname or NIS

domain

Eg.hostname

* **whois**

It searches for an object in the who is database.It gives all the data on a given query.

Eg.whois pict.edu

* **Netstat**

Prints the information about network connection,routing table interface statistics and mutihost membersip.

Eg.netstat [options]

* **Route**

The route command displays on modifiers the IP routing table.

Eg.route

* **Tracert/Traceroute/Tracepath**

It is a network diagnostic method in which a packet is sent to a destination.It reports the location and travel time of each hop,the packet maker os it travel from device to device on intermediate network.

Eg.tracert pict.edu

* **nslookup**

This command queries name server interactively for information

Eg.nslookup mursort.com

* **finger**

It commands looks up and display information about system users.

Eg.finger shivani

* **portscan/nmap**

It is a network exploration tool and port scanner.It is used for auditing purpose.

Eg.nmap [target specification]

**Conclusion :**

In this way I have explored different TCP/IP utilities.