Computer Networks

Lab # 04:

Network Commands

The objective of this lab is to learn different network related commands.

On the completion of this lab students shall be familiar with basic networking commands.

Learn various network related commands

To know and learn about various network related commands i.e. **net**, **route**, **arp** and **netsh**.

4.1   NET Command

This command is used at the command prompt to display and control various network and user related activities. We would refer to only a small set of the options.

Various options available in the net command:

net user   => options/controls for the user accounts

net share   => options/controls for the shared resources

net start   => to start a service.

net stop   => to stop a service.

net use   => used to map a drive to the network path.z

Example - net user:

NET USER ? (For help menu and options widget)

    [username [password | *] [options]] [/DOMAIN]

    username {password | *} /ADD [options] [/DOMAIN]

    username [/DELETE] [/DOMAIN]

    username [/TIMES:{times | ALL}]

    username [/ACTIVE: {YES | NO}]

* User = alice

* Password = 100

1- Add a User	=> net user alice 100 /add
2- List All Users	=> net user
3- Info about a User	=> net user [username] => net user alice
4- Assign Time	=> net user alice /time:M-F,9AM-5PM (M-F is Monday to Friday)
5- Activate/Deactivate User	=> net user alice /active:no OR net user alice /active:yes
6- Delete User	=> net user alice /delete

LOCALGROUP:

1- Net localgroup	= view localgroups
2- Net localgroup [name] /add	= add a new local group
3- Net localgroup [name] [user] /add	= add a user to that localgroup
4- Net localgroup [name] [user] /delete	= delete a user from the localgroup

Example - net share:

NET SHARE ? (For help menu and options widget)

    sharename=drive:path [/GRANT:user,[READ | CHANGE | FULL]]

            [/USERS:number | /UNLIMITED]

            [/REMARK:"text"]

            [/CACHE:Manual | Documents| Programs | BranchCache | None]

    sharename [/USERS:number | /UNLIMITED]

        [/REMARK:"text"]

        [/CACHE:Manual | Documents | Programs | BranchCache | None]

    {sharename | devicename | drive:path} /DELETE

    sharename \\computername /DELETE

SHARE LIST: net share

MAKE DIRECTORY: mkdir [directoryname] => mkdir cnetwork (for this example)

sharename = cnetworkshare

Users = 2

Grant = everyone (can also specify a user), CHANGE (can also use READ or FULL)

Remark = "computer networks"

Cache = No | None

Final Command:

    net share cnetworkshare=c:\cnetwork /grant:everyone, CHANGE /users:2 /remark:"computer networks"

Info of a SHARE:

    net share [sharename] => net share cnetwork

Home Work

1. Following all the steps in "Example – net user", perform the described actions on the new **user** using the related options (add, time, active, delete and localgroup)
2. Following all the steps in "Example – net share", perform the described actions for the new **share** (sharename, grant, remark, users and cache). First make a directory using "mkdir" command.