# **Basic UNIX Commands**

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#### man

- Manual Pages
- Contains information about almost everything
  - Other Commands
  - System Calls
  - C Library Functions

#### **Syntax:**

man <command name>

#### **Example:**

% man Is

# which

- Displays a path name of a command
- Searches a path environmental variable for the command and displays the absolute path

#### **Syntax:**

which <command name/app>

#### **Example:**

% which sh (shows which sh is actually in use)

# whereis

- Display all locations of a command (or some other binary, man page, or a source file).
- Searches all directories to find commands that match the argument

#### **Syntax:**

whereis < command name >

#### **Example:**

% whereis sh

# passwd

Change your login password.

#### **Syntax:**

passwd

passwd <username>

#### **Example:**

% passwd is-05

# date

Displays dates in various formats

#### **Example:**

```
% date (in IST)
```

% date -u (in GMT)

# clear

To clear the screenSyntax:

```
% clear OR, ctrl + L
```

# alias

Defines a new name for a command

#### **Syntax:**

alias <newcommand>='<oldcommand>'

#### **Example:**

% alias dt='date'

% dt

# history

Display a history of recently used commands

#### **Syntax:**

history < option >

#### **Example:**

%history 10

# exit/logout

• Exit from your login session.

#### **Example:**

% exit

% logout

# shutdown

- Causes system to shutdown or reboot
- May require super-user privileges

#### **Example:**

```
% shutdown -h now (stop)
```

% shutdown -r now (reboot)

# File Management Commands

# Is

Lists directory contents

#### **Syntax:**

```
Is <option>
```

#### **Examples:**

```
% Is (lists all files except those starting with a ".")
```

```
% ls -a
```

#### cat

 Takes a copy of a file and sends it to the standard output

#### **Syntax:**

cat <filename>

#### **Example:**

% cat link.txt

#### more

 Display contents of large files page by page or scroll line by line up and down.

#### **Syntax:**

```
more <option> <filename>
```

#### **Examples**:

```
% more -a.txt (press enter to see next page content)
```

% more -s a.txt (squeeze multiple space line into single)

# less

• It is used for search navigation.

#### **Syntax:**

open the file with

% less <filename> then at end of file

#### **Example:**

/<pattern> (want to search)-Forward

?<pattern> (want to search)-Forward

# cp

Copies files/directories

#### **Syntax:**

% cp [options] <source> <destination>

#### **Example:**

% cp a.txt b.txt

(Useful option: -i to prevent overwriting existing files and prompt the user to confirm)

#### mv

Moves or renames files/directories

#### Syntax:

% mv <source> <destination>
(The <source> file gets removed)

#### **Example:**

% mv b.txt d.txt

#### rm

Removes file(s) and/or directories.

**Syntax:** 

% rm <options> <filename>

**Example:** 

% rm d.txt

# diff

• Compares file and, shows where they differ.

#### **Syntax:**

% diff <filename1> <filename2>

#### **Example:**

% diff a.txt b.txt

# find

Searching a file in a directory tree

**Syntax:** 

%find <option> <filename>

**Example:** 

% find -name "a.txt"

# cd

Changes your current directory to a new one.

#### **Syntax:**

cd <dirname>

#### **Example:**

% cd /usr/home/example

# mkdir

Creates a directory

**Syntax:** 

% mkdir <dirname>

**Example:** 

% mkdir etcs lab

# rmdir

Removes a directory

#### **Syntax:**

```
% rmdir <dirname> (empty)
```

% rm -r <dirname>

#### **Example:**

% rm -r etcs

#### WC

 Tells you how many lines, words, and characters there are in a file

#### **Syntax:**

% wc filename

#### **Example:**

% wc a.txt (line words char)

# pwd

• Displays the present working directory, i.e. your current directory.

#### **Example:**

% pwd

# chown

- To change the owner and owning group of files
   Syntax:
  - chown <owner/user> <filename>
  - chown <owner-user:owner-group > <filename>

#### **Example:**

% chown is-05 file.txt

# chmod

To change permissions of files or directories
 Syntax:

% chmod options permissions filename

#### **Example:**

% chmod 644 file.htm

# grep

To print lines of input matching a specified pattern

#### **Syntax:**

% grep <option> <pattern> <file>

#### **Example:**

% grep chope a.txt

# User/Group Management Commands

# useradd

To add a new user

**Syntax:** 

useradd <username>

**Example:** 

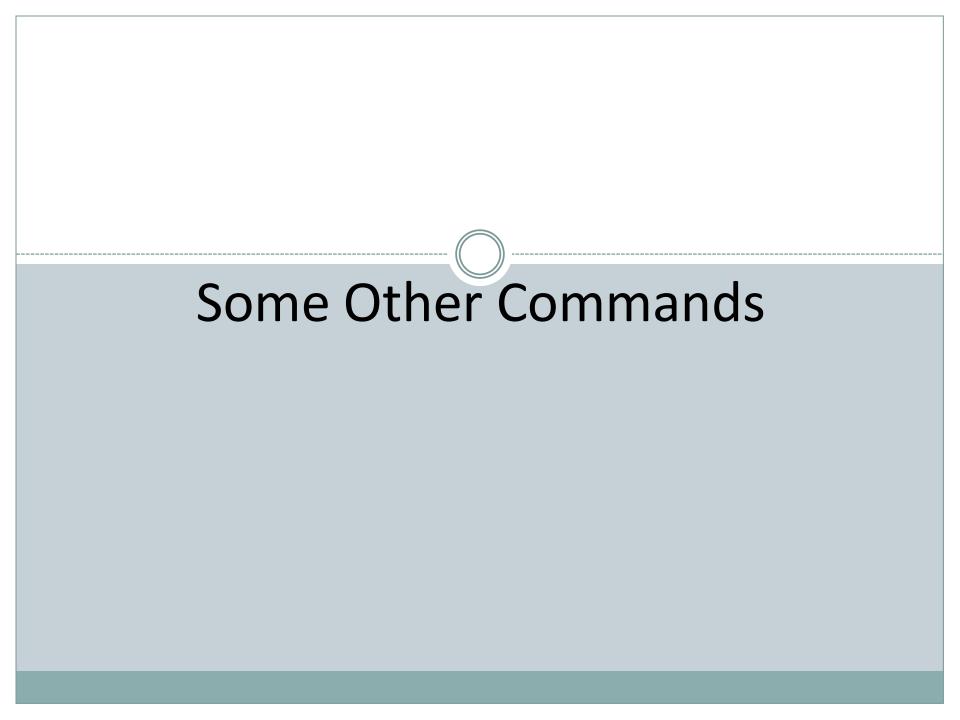
# useradd xyz

# userdel

• To delete a user

Syntax:

% userdel <username>



# zip

 Compresses files, so that they take up much less space

#### **Syntax:**

% zip -r <filenames.zip> <file1> <file2>

#### **Example:**

% zip -r foo.zip a.txt b.txt etcs

# unzip

Uncompress the files compressed by gzip
 Syntax:

% unzip <-options> filename (zipfile name without extension)

#### **Example:**

% unzip -r foo

# who

 Tells you who's logged on, and where they're coming from.

#### **Example:**

% who

# whoami

 Displays the same information as who, but only for the terminal session from where the command was issued.

#### **Example:**

% whoami

# last

 Tells you when the user last logged on and off and from where.

#### **Syntax:**

% last -1 username

(Without any options, **last** will give you a list of everyone's logins)

# echo

Displays a line of text

#### **Syntax:**

echo <option> <string>

#### **Example:**

% echo Hello, World!

% x=10

% echo The value of x is \$x.

# ps

- Displays information about a selection of the active processes.
- Contains lots of information about them including the process ID

#### **Syntax:**

% ps [-options]

# kill

Kills (ends) the processes with the ID given
 Syntax:

% kill <PID>

# ifconfig

To see the IP Address

**Syntax:** 

% ifconfig <option>

**Example:** 

% ifconfig -a

# telnet

To connect to a remote host

#### **Syntax:**

% telnet [-options] < hostname/ipaddress>

#### **Example:**

% telnet myhost.com

# ftp

 To download/upload files from/to a remote host which is set up as an ftp-server

#### **Syntax:**

% ftp <hostname/ipaddress>

#### **Example:**

% ftp 172.31.128.116