Mawlana Bhashani Science and Technology University

Lab -Report

Report No:02
Course code: ICT-3110
Course title: Operating System Lab
Date of Performance:22-07-2020
Date of Submission:29-07-2020

Submitted by

Name: Ruku Shikder
ID: IT-18057
3th year 1st semester
Session: 2017-2018
Dept. of ICT
MBSTU.

Submitted To

Nazrul Islam
Assistant Professor
Dept. of ICT
MBSTU.

Experiment No:02

Experiment Name: Basic Command of Linux Operating System
- ➢ What is Linux command? ⌊SEP⌋
- ➢ Write 15 commands in Linux operating system. ⌊SEP⌋
- ➢ Describe the operation of Linux basic command. (Screenshot)

Linux command:

Linux is a Unix-Like operating system. All the Linux/Unix commands are run in the terminal provided by the Linux system. This terminal is just like the command prompt of Windows OS. Linux/Unix commands are case-sensitive. The terminal can be used to accomplish all Administrative tasks. This includes package installation, file manipulation, and user management. Linux terminal is user-interactive. The terminal outputs the results of commands which are specified by the user itself. Execution of typed command is done only after you press the Enter key.

15 commands in Linux operating system:

access	Used to check whether the calling program has access to a specified file. It can be used to check whether a file exists or not
accton	Used to turn on or turn off the process for accounting or change info process accounting file
aclocal	Used to automatically generate aclocal.m4 files from configure.in file
batch	Used to read commands from standard input or a specified file and execute them when system load levels permit i.e. when the load average drops below 1.5
autoupdate	Used to update configure.in file in our Linux system to a newer Autoconf.
bg	Used to place foreground jobs in background
cal	Used to see the calendar of a specific month or a whole year. By default, it shows current month's calendar as output

case	It is the best alternative when we had to use multiple if/elif on a single variable
cat	Reads data from file and gives their content as output. It helps us to create, view, concatenate files
date	Used to display the system date and time. It is also used to set date and time of the system
dc	Used to evaluate arithmetic expressions. It evaluates expressions in the form of a postfix expression
dd	It is a command-line utility for Unix and Unix-like operating systems whose primary purpose is to convert and copy files
zip	It is a compression and file packaging utility for Unix. Each file is stored in single .zip {.zip-filename} file with the extension .zip
reboot	Instructs the system to restart or reboot
reset	Used to initialize the terminal. This is useful once a program dies leaving a terminal in an abnormal state

Linux basic command(Screenshot):

pwd : To see current location

cd~ : To go to the home directory to login user

cd /folder1/folder2 : To go specific directory

mkdir directory_name : To create directory or folder in current location

mkdir /mnt/abc : To create abc directory in mnt folder

em file_name: To delete file

rm –r directory_name : To delete directory

cp source_location destination_location : To copy file


```
ruku@hp-envy-notebook:~/Downloads$ l
abc/  hello/  Untitled Folder 1/
ruku@hp-envy-notebook:~/Downloads$ cp abc Desktop
cp: omitting directory 'abc'
ruku@hp-envy-notebook:~/Downloads$
```

cp –r source_location destination_location : To copy directory


```
ruku@hp-envy-notebook:~/Downloads$ ls
abc  hello  Untitled Folder 1
ruku@hp-envy-notebook:~/Downloads$ cp -r hello Desktop
ruku@hp-envy-notebook:~/Downloads$
```

mv source_location destination_location : To move file

ls : To see the current directory

ls –lh : To see details of current directory

```
ruku@hp-envy-notebook: ~
ruku@hp-envy-notebook:~$ ls -lh
total 52K
drwxr-xr-x 2 ruku ruku 4.0K Sep 28 22:55 Desktop
drwxr-xr-x 2 ruku ruku 4.0K Sep 28 22:17 Documents
drwxr-xr-x 5 ruku ruku 4.0K Sep 28 23:01 Downloads
-rw-r--r-- 1 ruku ruku 8.8K Sep 28 22:07 examples.desktop
drwxr-xr-x 2 ruku ruku 4.0K Sep 28 22:17 Music
drwxr-xr-x 2 ruku ruku 4.0K Sep 28 23:04 Pictures
drwxr-xr-x 2 ruku ruku 4.0K Sep 28 22:17 Public
drwxr-xr-x 2 ruku ruku 4.0K Sep 28 22:17 Templates
-rw-rw-r-- 1 ruku ruku 6.7K Sep 28 22:58 Untitled.ods
drwxr-xr-x 2 ruku ruku 4.0K Sep 28 22:17 Videos
ruku@hp-envy-notebook:~$
```

Discussion:

From this lab practically learn various linux command like PWD, cd--, cd.. ,mr file_ name.Linux is more secure in comparison to other operating systems such as Windows. Linux is not completely secure as there is some malware for it also but it is less vulnerable than others. Every program in Linux whether an application or a virus needs authorization from the administrator in the form of a password. Unless the password is typed virus won't execute. There is no requirement of any anti-virus program in Linux. There are many distributions available also called distros of Linux. It provides various choices or flavors to the users