Assignment - 1

Part 1: Linux Commands

Linux Directory Commands

pwd - to display the location of the current working directory

mkdir - to create a new directory under any directory

rmdir - to remove a directory

isCommand - to display the list of content of a directory

cd - to change the current directory

Linux File Commands

touch - to create a empty directory.(can create multiple directory by executing it once)

cat - to create a file, display content of the file, copy the content of one file to another.

rm - to remove a file

cp- to copy a file or directory

mv - to move a file or directory from one location to another.

rename - to rename files.(useful while renaming large group of files)

Linux File Content Commands

head - to display the first 10 lines of a file

tail - to display the last 10 lines of a file

tac - to display the file content in reverse order(from the last line)(reverse of cat)

more - to display screenful output at a time.(incase of large file)

less - more command cuts the output in the width of the terminal.

Linux User Command

su - provides administrative access to another user.(allows Linux access

id - to display the user ID (UID) and group ID (GID).

useradd - to add or remove a user on a Linux server.

passwd - to create and change the password for a user.

groupadd - to create a user group.

Linux Filter Commands

cat - cat command is used to filter using the pipes.

cut - to select a specific column of a file.

grep - for searching the content from a file.

comm - to compare two files or streams.

sed - to edit files using regular expression(changes persist temporarily.. does not affect the actual file content)

tee - puts standard input on standard output and also write them into a file.

tr - to translate file content from lower case to upper case.

unig - to form a sorted list(unique list.. no duplicates)

wc - to count lines, words, characters in files

od - to display the content of a file in different formats (hexadecimal, octal, and ASCII characters).

sort - sorts file content in alphabetical order

gzip - to truncate the file size(compressing tool - compresses the original file by compressed file having .gz extension)

gunzip - to decompress the file.

Linux Utility Commands

find - to find a particular file within a directory.(find -by type, by date, etc)(searches files in file systm)

locate - to search a file by file name.(searches files in file database)

date - to display date, time, time zone, and more.

cal - to display the current month's calendar with the current date highlighted.

sleep - to hold the terminal by the specified amount of time.(By default, it takes time in seconds).

time - to display the time to execute a command.

zcat - to display the compressed files.

df - to display the disk space used in the file system.(output - number of used blocks, available blocks, and the mounted directory.)

mount - to connect an external device file system to the system's file system.

exit - to exit from the current shell.(It takes a parameter as a number and exits the shell with a return of status number.)

clear - to clear the terminal screen.

Linux Networking Commands

ip - to assign an IP address, initialize an interface, disable an interface.(updated version of the ipconfig command).

ssh - to create a remote connection through the ssh protocol.

mail - o send emails from the command line.

ping - to check the connectivity between two nodes, that is whether the server is connected.(full form - Packet Internet Groper)

host - to display the IP address for a given domain name and vice versa. It performs the DNS lookups for the DNS Query.

Linux Users

whoami - about the system's username.

who - information about the users logged on to the system.

who am i - displays the information about the current user only.

w - users who are logged in and what are they doing.

id - user id, primary group id, and a list of groups that belongs to you.

List of commands executed:

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