2/19/2020 TestOut LabSim

2.8.5 Directory Management Facts

Navigating within and making changes to the directory structure are tasks you will frequently perform when using a Linux system.

This lesson covers the following topics:

- Navigate a Linux directory
- Create, copy, and move, a Linux directory
- Remove a Linux directory

Navigate a Linux Directory

The following table describes basic commands you use to navigate within a Linux directory.

Command	Description	Examples
pwd	Displays the current working directory.	 If a user named Fred is currently in his home directory and types pwd at the shell prompt, /home/Fred is displayed.
cd	 cd changes to the parent directory. cd/ to changes two levels up in the directory. cd / changes to the root directory. 	 cd directory1 changes to a directory named directory1 within the current working directory. (This is a <i>relative</i> path.) cd /home/Fred/directory1 switches to directory1 in Fred's home directory, regardless of the current working directory. (This is an absolute path.)
ls	Displays the contents of a directory. Options include: - a displays all directory contents, including hidden content I displays extended information, including the owner, modified date, size, and permissions R displays the contents of a directory and all of its subdirectories d displays directories but not files r reverses the sort order.	 Is -al displays a long listing of all the contents in the current working directory, including hidden content. Is -d displays only directories within the current directory. Is -R /etc displays the contents of the /etc directory and all of its subdirectories.

Create, Copy, and Move a Linux Directory

The following table describes basic commands you use to manage a Linux directory:

Command	Description	Examples
mkdir	Creates a new directory. Use the -p option to create all directories within the specified path when that path does not already exist.	 mkdir work_files creates a directory named work_files in the current working directory. mkdir /home/Fred/work_files creates a directory named work_files within the specified path.
ср	Copies directories. Copying leaves the source contents (directories and files) intact. Use the -r or -R option to recursively copy subdirectories and files within the directory.	• cp -r /temp /home/user copies the entire / temp directory (with all of its files, subdirectories, and files in the subdirectories) to the / home/user directory.
mv	Moves or renames directories (and files). Moving directories removes the source directory and places it in the destination. Options include: -f overwrites a directory that already exist in the destination directory without promptingi prompts before overwriting a directory in the destination directoryn never overwrites files in the destination directory.	 mv /temp/station ~/doc/ moves station from the /temp directory to the ~/doc directory. mv /current /previous renames the directory current to previous

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Remove a Linux Directory

The following table describes basic commands you use to remove a Linux directory:

Command	Description	Examples
rmdir	Deletes an empty directory.	 rmdir ~/Fred/work_files deletes the work_files directory if it is empty.
rm	Removes the directory and file information from the file system, which makes the directories and files inaccessible. Options include: i prompts before removingr removes directories, subdirectories, and files within themf eliminates prompt for read-only files and avoids an exit code error if a file doesn't exist.	 rm -rf /home/user/temp deletes the temp directory with all its subdirectories and files without prompting. rm -r /home/user/* deletes all directories and files in the /home/user directory.

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