Lesson 4

3.	ing errors and generate the word count.	 To view the contents of the file, enter cat New_Policies.txt 	
		 Observe that casing of the letter "Y" in the word "EmploYees" is incorrect. 	า
		c. To change the casing of the letter "Y" the word "EmploYees" in the output, enter tr 'Y' 'Y' < New_Policies.txt	in
		 d. Observe that the casing of the letter "has changed in the output. 	Y"
		e. To count the words in the file, enter	
		 f. Observe that the word count of the file displayed. 	e is
4.	Create a hard link for the file.	a. To create a hard link for the file, enter ln New_Policies.txt New_Policies_09.txt	ŗ
		 To view whether the hard link has been created, enter 1s New* 	n '
		c. Observe that the hard link is created.	
		d. Clear the terminal screen.	

ACTIVITY 4-8

Creating Links to Frequently Used Files

Data Files:

- Attendancelogfile.txt
- Currentdatetime

Before You Begin:

- 1. You have logged in as root in the CLI and the first terminal is displayed.
- To copy the data file, enter
 cp /085099Data/Managing_Files/Attendancelogfile.txt /opt.
- 3. To copy the data file, enter cp /085099Data/Managing_Files/Currentdatetime /opt.
- 4. To modify the file to make it an executable file, enter chmod +x /opt/Currentdatetime.
- To clear the terminal screen, enter clear.

Scenario:

You would like to add hard links to files that you up frequently. Both files are located in the opt directory. One of the files is a text file and the her is an executable program. You have to make these files easily accessible from the root directory without disturbing their original location.

What You Do How You Do It

1.	True or False? When you	delete a	hard link,	the file to	which t	he hard	link is se	t will
	also get deleted.							

- True
- ___ False
- Create a hard link named "attlog" in the root directory for the Attendancelogfile.txt file located in the /opt directory.
- a. To create a hard link, enter ln /opt/Attendancelogfile.txt⇒ attlog
- b. To view the hard link, enter 1s -1 attlog

3.	True or False? If an executable file is located in the search path, then the user can rur
	the file from any location.

- ___ True
- ___ False

Lesson 4

- Create a symbolic link named "Time" for the executable program, Currentdatetime, located in the /opt directory.
- To create a soft link, enter
 - ln -s /opt/Currentdatetime⇒
 /bin/Time
- b. To view the soft link, enter 1s -1 /bin/Time
- c. To execute the file, enter Time
- d. To clear the terminal screen, enter clear

Topic F

1

Back Up and Restore Files

In the previous topics, you created, edited, located, and linked files. It is essential that you also know how to back up and restore these files when the need arises. In this topic, you will back up and restore files.

Learning how to back up and restore files will save you countless hours of repairing your system after a system failure. Backing up and restoring files allow you to keep an additional copy of files on your system because they existed at a specific point in time. If you ever have a system failure, these files can be used to restore your system.

Archiving

Definition:

Archiving is a method of storing data by copying data from a system disk drive into a backup device. This is done to preserve a record of the data for future reference or to create data dumps. In the event of a network disruption resulting in data loss, the data can be retrieved from archives

Example:

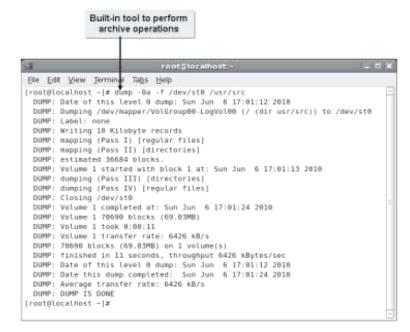


Figure 4-20: Archiving files using the dump command.

The cpio Command



The *cpio* command copies files to and from archive tions. The cpio command has three operating mod

It is included in standard Linux distribu-

Operating Mode

Description

•	\$ to the state of
Copy-out cpio -o	In this mode, the command copies files into an archive. It reads the standard input to obtain a list of file names and then copies those files to the standard output.
Copy-in cpio -i	In this mode, the command copies files from an archive. It extracts files from the standard input.
Copy-pass cpio -p	In this mode, the command copies files from one directory tree to another. It reads the standard input to obtain the list of file names that are created and copied into the destination directory.

The dd Command

The *dd* command copies and converts files to enable them to be transferred from one type of media to another. The dd command has various options.



A selected input file is copied to a selected output file. If no files are selected, the standard input and the standard output are used.