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## 2.9.5 File Management Facts

Several Linux commands are used with files.

This lesson covers the following topics:

- File viewing commands
- File management commands

## **File Viewing Commands**

The following table describes Linux commands that can be used to view the content of files:

Command	Function	Examples
cat	Displays the contents of a file in the shell. This command can display multiple files at once.	<ul> <li>cat myfile displays the contents of myfile.</li> <li>cat myfile yourfile displays the contents of myfile and yourfile together.</li> </ul>
less	Displays the contents of a file, pausing one screen at a time.  • Use the Spacebar to scroll to the next screen.  • Use the Up arrow and Down arrow to scroll up and down.  • Press q to exit.	less bigfile displays the contents of bigfile one screen at a time so it can be read.
head	Lists the first 10 lines (the default) of a specified file. Use the <b>-n</b> option to specify a specific number of lines to display.	<ul> <li>head /home/user/myfile lists the first 10 lines of myfile.</li> <li>head -n 20 /home/user/myfile lists the first 20 lines of myfile.</li> <li>head -n -35 /home/user/myfile displays all lines in myfile, omitting the last 35 lines.</li> </ul>
tail	Lists the last 10 lines (the default) of a specified file.  • -n specifies a specific number of lines. • -f monitors the file.	<ul> <li>tail /home/user/myfile lists the last 10 lines of myfile.</li> <li>tail -n 20 /home/user/myfile lists the last 20 lines of myfile.</li> <li>tail -n -15 /home/user/myfile displays all lines in myfile, omitting the first 15 lines.</li> </ul>

• tail -f /var/firewalld displays the last 10 lines of /var/firewalld and then dynamically displays new lines in the file as they are added.

## **File Management Commands**

The following table describes Linux commands that can be used to manage files.

Command	Function	Examples
touch	If the file does not exist, <b>touch</b> creates a blank version of the file. If the file does exist, this command updates the file's modification and last accessed times.	• touch myfile makes a blank file named myfile.
file	Shows the file type. The <b>file</b> command is useful because Linux does not require file extensions.  The <b>file</b> command uses file signatures in:  • /usr/share/misc/magic  • /usr/share/misc/magic.mgc  • /etc/magic	• file myfile shows whether myfile is a text, data, xml, or other type of file.
ср	<ul> <li>Copies files. Copying leaves the source file intact.</li> <li>-f overwrites files that already exist in the destination directory.</li> <li>-i prompts before overwriting a file in the destination directory.</li> </ul>	<ul> <li>cp         /temp/document_ab.txt         ~/doc/document.txt         copies document_ab.txt         from the /temp directory         to the ~/doc directory and         renames the file to         document.txt.</li> <li>cp /temp/*.txt ~/doc         copies all text files from the         /temp directory to the         ~/doc directory.</li> </ul>
mv	Moves or renames files (and directories). Moving files erases the source file and moves it to the destination.  • -f overwrites files that already exist in the destination directory.  • -i prompts before overwriting a file in the destination directory.	<ul> <li>mv /temp/document.txt         ~/doc/document.txt         moves document.txt from         the /temp directory to the         ~/doc directory.</li> <li>mv /temp/*.txt         ~/doc/*.txt copies all text         files from the /temp</li> </ul>

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	• -n never overwrites files in the destination directory.	directory to the <b>~/doc</b> directory.
rm	Removes a file or directory. Use the <b>-f</b> option to delete without a prompt.  The <b>rm</b> command deletes a file or directory's inode, but it does not actually delete its data. To permanently remove data, use the <b>shred</b> command.	<ul> <li>rm myfile deletes a file in the current directory named myfile.</li> <li>rm /home/user/myfile deletes myfile from the /home/user directory regardless of the current directory.</li> <li>rm -f /home/user/temp/* deletes all files in the temp directory without prompts.</li> </ul>
shred	Deletes the file and overwrites the file's data on the hard disk. The <b>shred</b> command is useful when deleting files that contain proprietary information or other sensitive data.  • -n specifies the times to overwrite. The default is 25 times.  • -u deletes the inode.  • -v display the progress of the file deletion.  • -z overwrites the filename with zeros.	• shred -u -z companysecrets.txt deletes companysecrets.txt, overwrites the file with random information, then leaves zeros in place of the file.
chattr	Modifies file attributes. A + or - is used to add or remove attributes respectively. For example, to make a file immutable (cannot be modified), using the +i flag sets the immutable file attribute and -i removes the immutable file attribute.  • -R recursively change attributes of directories and their contents.  • -V displays verbose output and the program version.  • -f suppresses error messages.  • -p sets the file's project number.  • -v sets the file's version/generation number.	<ul> <li>sudo chattr +i         annualreport.txt sets the         immutable file attribute so         the file cannot be modified.</li> <li>sudo chattr +a feedback.txt         sets the append attribute         to allow users to append         data to the file without         changing or modifying any         existing data.</li> </ul>
Isattr	Lists file attributes.  • -R recursively list attributes of directories and their contents.  • -V displays the program version.  • -a lists all files in directories.	Isattr /etc/grub/grub.conf lists the attributes of the grub.conf file.

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