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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.	 cat myfile displays the contents of myfile. cat myfile yourfile displays the contents of myfile and yourfile together.
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 -n option to specify a specific number of lines to display.	 head /home/user/myfile lists the first 10 lines of myfile. head -n 20 /home/user/myfile lists the first 20 lines of myfile. head -n -35 /home/user/myfile displays all lines in myfile, omitting the last 35 lines.
tail	Lists the last 10 lines (the default) of a specified file. -n specifies a specific number of linesf monitors the file.	 tail /home/user/myfile lists the last 10 lines of myfile. tail -n 20 /home/user/myfile lists the last 20 lines of myfile. tail -n -15 /home/user/myfile displays all lines in myfile, omitting the first 15 lines. 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, touch 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 file command is useful because Linux does not require file extensions. The file 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	Copies files. Copying leaves the source file intact. -f overwrites files that already exist in the destination directory. -i prompts before overwriting a file in the destination directory.	 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. cp /temp/*.txt ~/doc copies all text files from the /temp directory to the ~/doc directory.

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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. -n never overwrites files in the destination directory. 	 mv /temp/document.txt ~/doc/document.txt moves document.txt from the /temp directory to the ~/doc directory. mv /temp/*.txt ~/doc/*.txt copies all text files from the /temp directory to the ~/doc directory.
rm	Removes a file or directory. Use the -f option to delete without a prompt. The rm command deletes a file or directory's inode, but it does not actually delete its data. To permanently remove data, use the shred command.	 rm myfile deletes a file in the current directory named myfile. rm /home/user/myfile deletes myfile from the /home/user directory regardless of the current directory. rm -f /home/user/temp/* deletes all files in the temp directory without prompts.
shred	Deletes the file and overwrites the file's data on the hard disk. The shred 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.
lsattr	Lists file attributes. - R recursively list attributes of directories and their contents. - V displays the program version. - a lists all files in directories. - d lists directories like other files, rather than listing their contents. - v lists the file's version/generation number.	 lsattr/etc/grub/grub.conf lists the attributes of the grub.conf file.

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