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TECHNOLOGY

Editing Text Files and Search Patterns



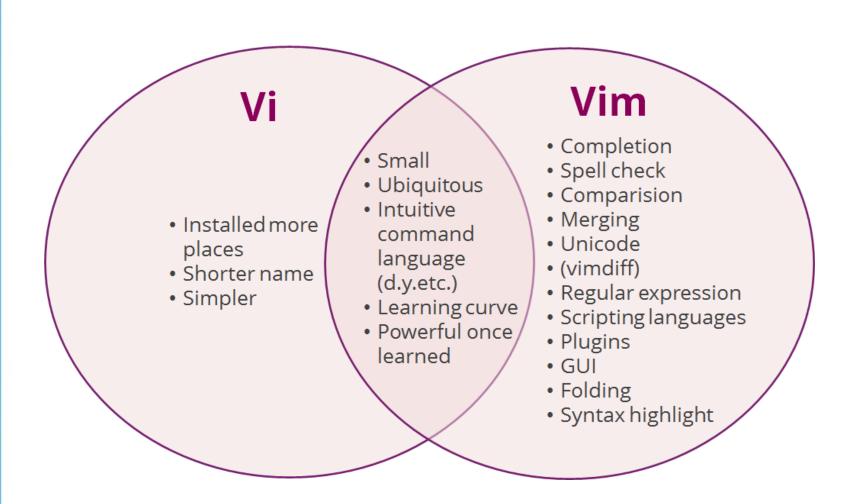
Learning Objectives

By the end of this lesson, you will be able to:

- Create files using the vi editor
- Opy or cut and paste data in the vi editor
- Apply different file operations using the vi editor
- Use grep or egrep for pattern matching

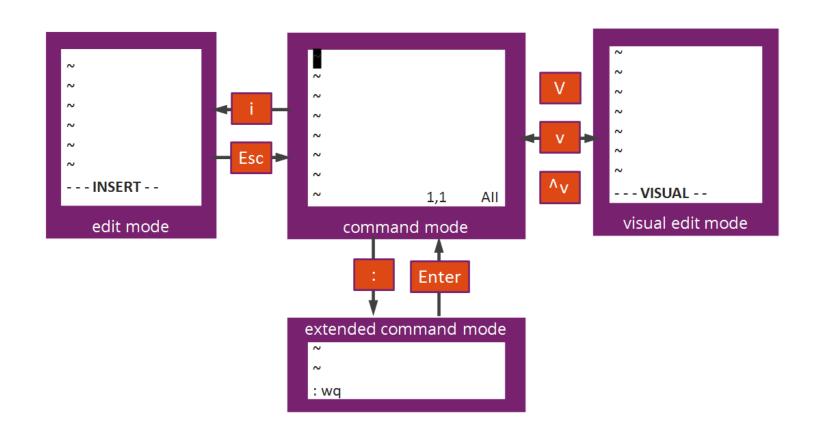


Introduction to vi/vim Editor



- Vi editor is the most used text editor in Linux.
- It has been modified by the open-source community and the new version is known as vim.
- Vi editor is also the default editor in Linux distributions.

Different Modes of vi Editor



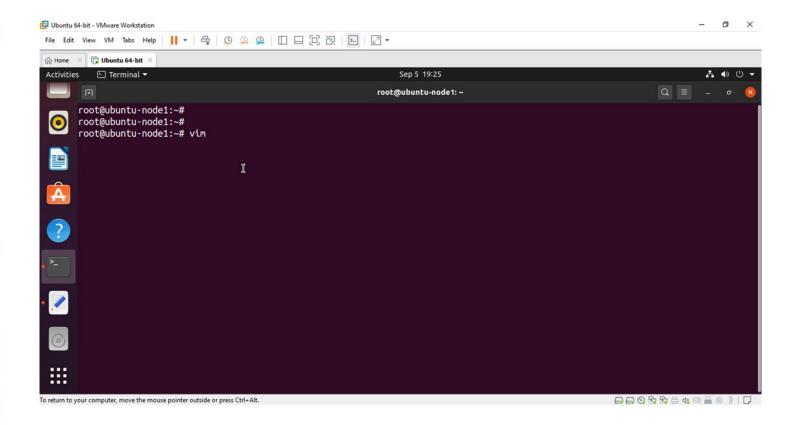
Vi editor works in three different modes:

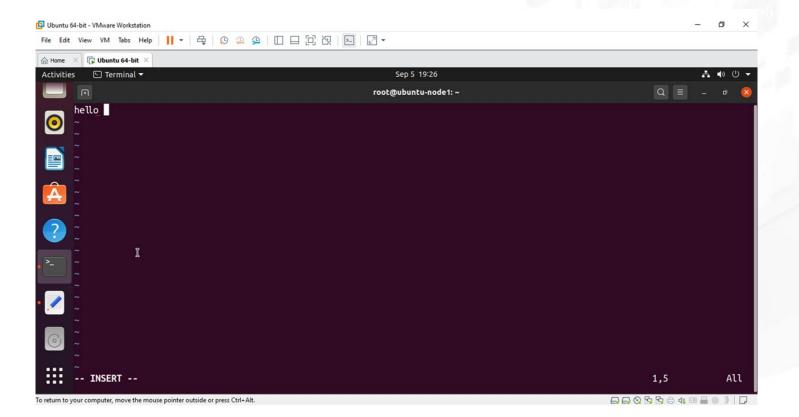
- Command mode is used for navigation.
- Input mode is used to enter and replace text.
- Insert mode is used for pattern matching, saving, and quitting.



Create and Assign File Name

- Use the vim command on terminal to open the vi editor.
- The default mode is command mode.

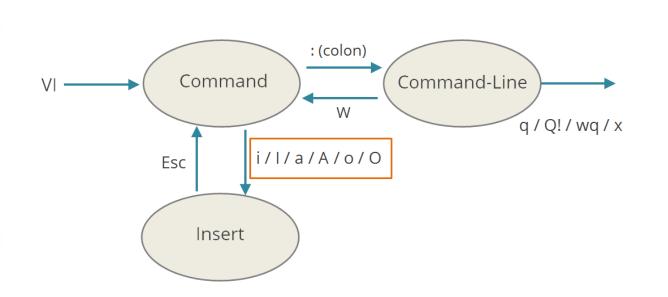






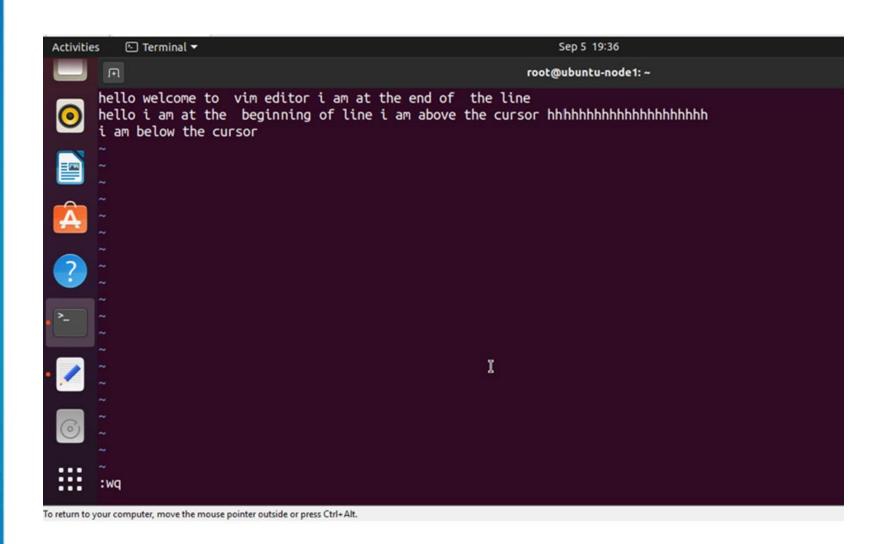
Switch from Command Mode to Insert Mode

The different keyboard characters used to switch from command mode to insert mode are given below:



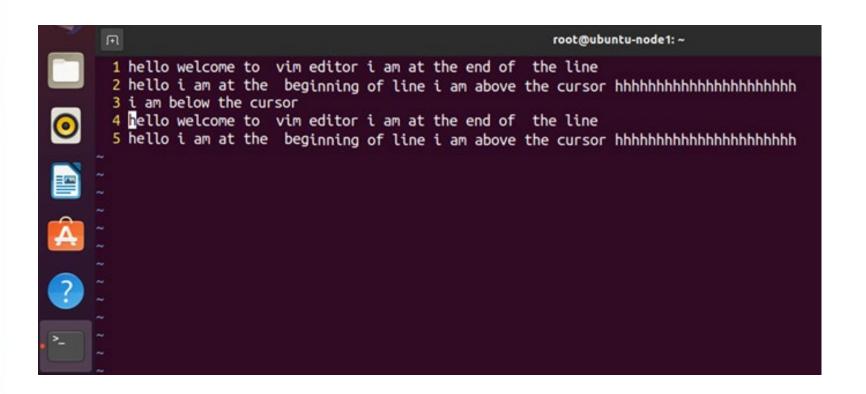
Option	Description
i	Inserts data before the current character
I	Inserts data from the start of the current line
а	Inserts data after current character
А	Inserts data at the end of the line
0	Adds data one line below the cursor
0	Adds data one line above the cursor

Save and Quit File



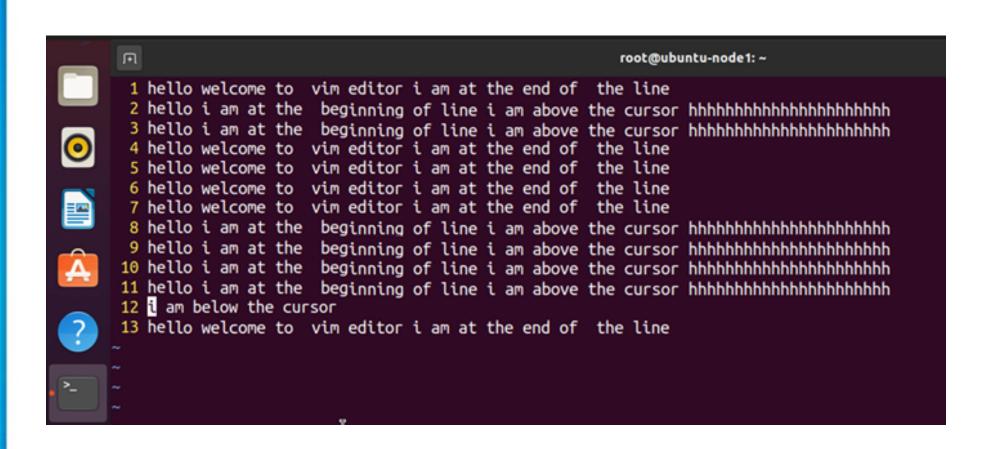
- **Shift colon** key is used to enter into the command prompt.
- wq command is used to save and quit the file.

Copy and Paste Data



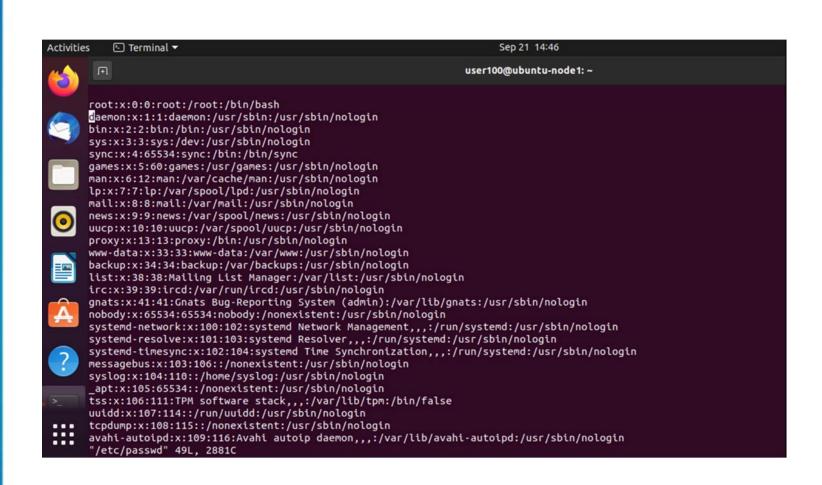
- The **yy** command is used at the beginning of the data or line to copy.
- The numerical value before the command **yy** is used to indicate the number of lines of data to be copied.
- The p command is used to paste the copied data in the required destination.

Cut and Paste Data



 The dd command is used to cut the data or line.

Delete Character, Word, and Line

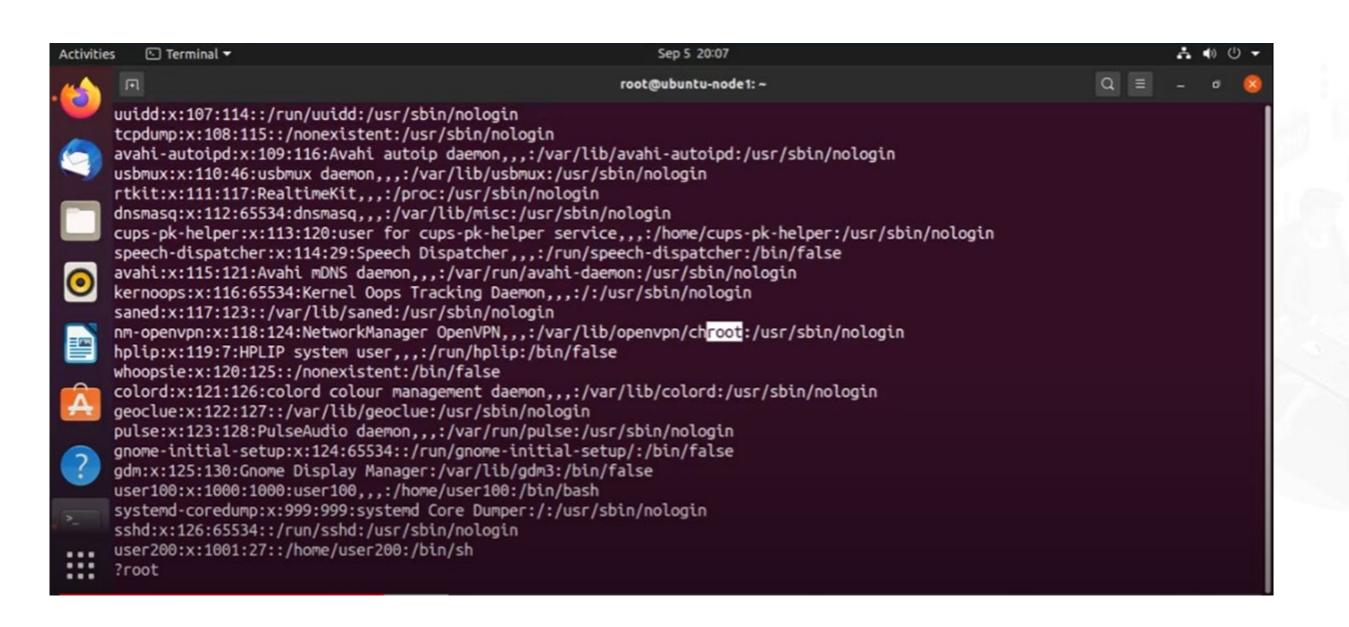


- The x key is used to delete the selected character.
- The dw command is used to delete the selected word.
- The dd command is used to delete a line of data.



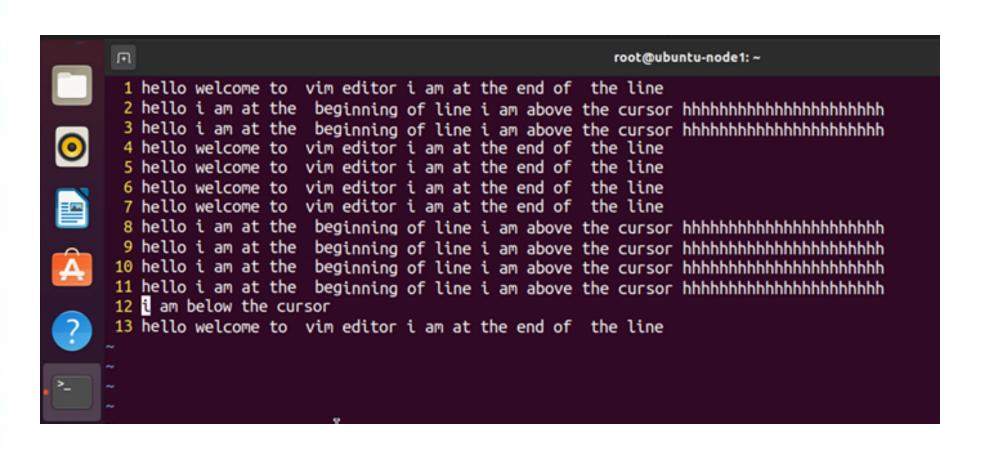
Search Word and Character

The ? or / key is used to search for any specific string in the vi editor.





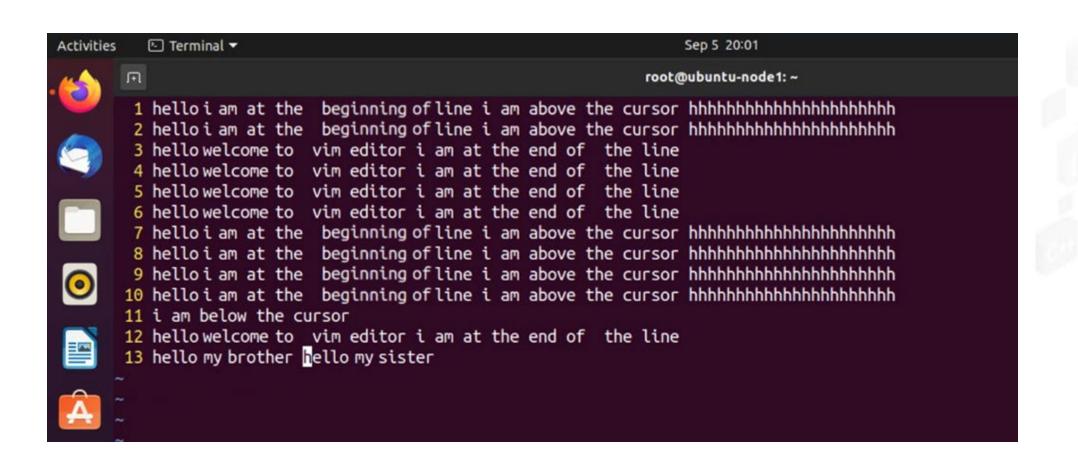
Jump a Line



- The G command is used to jump to the last line.
- The gg command is used to move to the first line.

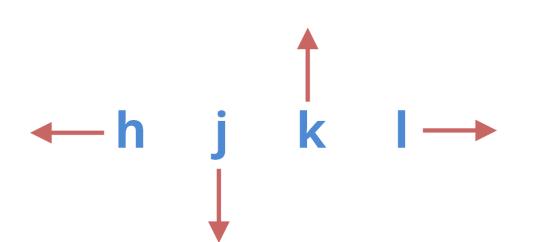
Join a Line

The J command is used in the current line of data to join it with the next line of data.





Navigate Through Files

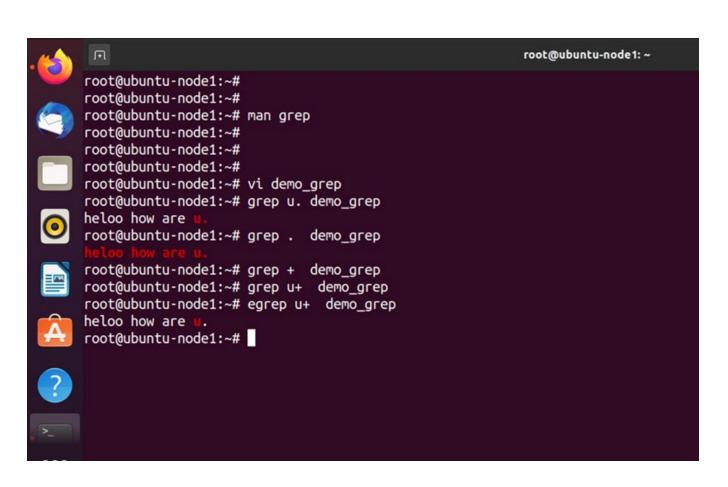


The following keyboard characters are used to move around the file:

- h is used to move left
- j is used to move down
- k is used to move up
- I is used to move right



grep and egrep Command



- **grep** stands for global regular expression print and is used to find the pattern in a given file.
- egrep stands for extended global regular expressions print.
- egrep is faster than grep.

grep and egrep Command

The following options can be used along with grep command to perform the mentioned tasks:

Option	Description
-O	Output the matched parts of a matching line
-V	Invert the match
-C	Display the count of matching lines
-1	Display the list of filenames
-n	Display the matched lines and their line numbers

Key Takeaways

- Vi editor is also the default editor in Linux distributions.
- The number at the beginning of the yy command describes the number of lines that need to be copied.
- The dw command is used to delete a word.
- grep stands for global regular expression print.



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Knowledge Check

Which command is used to save and quit the file in vi editor?

- A. q
- B. wq
- C. mv
- D. None of them



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Which command is used to save and quit the file in vi editor?

- A. q
- B. wq
- C. mv
- D. None of them



The correct answer is **B**

w is used to save a file, and q is used to quit. Therefore, wq is used to save and quit a file.



Which command is used to copy the current line of the file?

- A. yy
- B. yw
- C. yc
- D. yz



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Which command is used to copy the current line of the file?

- A. yy
- B. yw
- C. yc
- D. yz



The correct answer is A

The yy command is used to copy current line of the file.



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Which command is used to search for a string in the file using vi editor?

- A. / or?
- B. s
- C. F
- D. t



3

Which command is used to search for a string in the file using vi editor?

- A. / or?
- B. s
- C. F
- D. t



The correct answer is A

/ or ? operator is used to search for a string inside the file.



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Which command is used to jump to the first line?

- A. J
- B. F
- C. GG
- D. gg



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Which command is used to jump to the first line?

- A. J
- B. F
- C. GG
- D. gg



The correct answer is **D**

The gg command is used to jump to the first line of the data.

