Linux

Linux is a community of open-source Unix like operating systems that are based on the Linux Kernel.

54 Hrs.

Module Duration

🕐 **54 hrs.**

S. No.	Topic	Duration (in hrs.)
1	Linux History And Introduction	6
2	Linux-Basics	6
3	Vim Editor	6
4	Linux Commands	6
5	File Permissions	6
6	Process Control	6
7	UNIX	6
8	Unix shell scripting	12

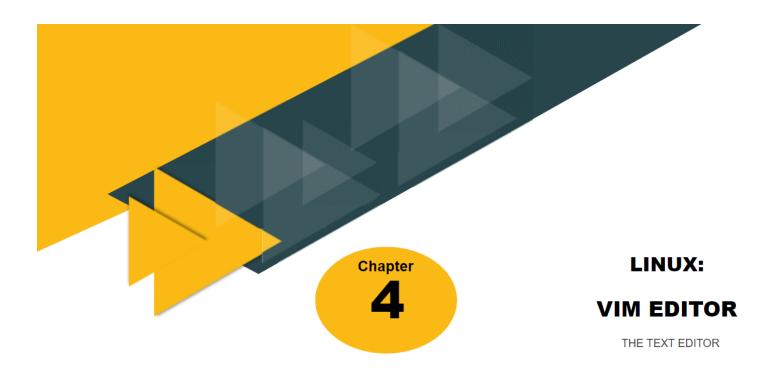** Note: 15 hours of additional hands-on lab practice*

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Learning Objectives

This Topic provides an introduction to LINUX History And Introduction

Learner completing the **course** would know:

- Linux History

- Linux Basics

- VIM Editor

- Linux commands

- File permissions

- Process control

- UNIX Operating System

- Shell Scripting

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Chapter

4

LINUX:

VIM EDITOR

THE TEXT EDITOR

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Topic Coverage

Topics
VI EDITOR
INSERT MODE
EXIT MODE
COMMAND MODE
MANIPULATING TEXT
CONFIGURING VIM

6 Hours

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Discussion on Why LINUX

Discussion Point

- What are the available text editors in Linux

- How to work with VI Editor

Instructions & Duration

- The participants will discuss their knowledge on Different Text Editors in other Operating Systems.

5 min.

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VI EDITOR

VI EDITOR
INSERT MODE
EXIT MODE
COMMAND MODE
MANIPULATING TEXT
CONFIGURING VIM

- vi - the basic text editor

- three modes

    - Command mode (default)   : Move cursor, cut/past text, change mode

    - Insert mode   : Modify text

    - esc mode   : Save and quit etc

- To enter insert mode press i key

- To exit insert mode press ESC key

- To start vim editor   vim filename

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Modifying a file – Insert mode

VI EDITOR

INSERT MODE

EXIT MODE

COMMAND MODE

MANIPULATING TEXT

CONFIGURING VIM

- i   begins insert mode at the cursor

- A   append to end of line

- I   Insert at beginning of line

- o   Insert new line after current cursor position

- O   Insert new line before current cursor position

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Saving a file and Exiting vim – Ex mode

VI EDITOR

INSERT MODE

EXIT MODE

COMMAND MODE

MANIPULATING TEXT

CONFIGURING VIM

- : w   write the file to disk

bắt buộc

- :w!   write the file to disk forcibly

- :wq   write the file to disk and quit

- :q   quit vim editor

- :q!   Quit vim editor forcibly

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Moving around – command mode

VI EDITOR

INSERT MODE

EXIT MODE

COMMAND MODE

MANIPULATING TEXT

CONFIGURING VIM

- Move by word   w, b

- Move by sentence   ), (

- Move by paragraph   }, {

- Jump to line   :x   or G

- Jump to end   G

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Search and replace – command mode

VI EDITOR

INSERT MODE

EXIT MODE

COMMAND MODE

MANIPULATING TEXT

CONFIGURING VIM

- /text   search text downward

- ?text   search text upward

- n/N   search above/below

- :1,5s/cat/dog   replace cat with dog at line 1 to 5

- :%s/cat/dog   replace first occurrence of cat with dog in complete file

- :%s/cat/dog/g   replace cat with dog in complete file

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Manipulating text – Command Mode

VI EDITOR

INSERT MODE

EXIT MODE

COMMAND MODE

MANIPULATING TEXT

CONFIGURING VIM

	Change (replace)	Delete (cut)	Yank (copy)
Line	cc	dd	yy
Letter	cl	dl	yl
Word	cw	dw	yw
Sentence ahead	c)	d)	y)
Sentence behind	c(	d(	y(
Paragraph above	c{	d{	y{
Paragraph below	c}	d}	y}

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Undoing changes – command mode & Put (paste)

- **Undoing changes**

  - u undo changes

  - Ctrl + r redo last undone change

- **Put (paste)**

  - p put the data below the current line.

  - P put the data above the current line.

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Configuring vim

VI EDITOR

INSERT MODE

EXIT MODE

COMMAND MODE

MANIPULATING TEXT

CONFIGURING VIM

- Display number on the left margin before each line.

  - :set nu   or   : set number

- Causes searches to be case-insenstive:

  - :set ic   or   :set ignorecase

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1. Which command is used to close the vi editor?

a) q

b) wq

c) both q and wq

d) none of the mentioned

2. Which vi editor command copies the current line of the file?

a) yy

b) yw

c) yc

d) none of the mentioned

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3. Which command is used to delete the character before the cursor location in vi editor?

a) X

b) x

c) D

d) d

4. What is the default mode of vi editor?

a) Command mode

b) Read Mode

c) Write Mode

d) Execute Mode

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5. Esc key is used for?

a) switching to command mode from ex mode

b) switching to input mode from command mode

c) switching to command mode from input mode

d) switching to ex mode from input mode

6. Which command is used to moves a paragraph forward?

a) (

b) [

c) {

d) }

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Re-Cap

Discussion Point

- What are different text editors available in Linux
- Working with Vi Editor
- Different modes in VI Editor

Instructions & Duration

- The participants will discuss based on their understanding of Text Editors available in different Operating Systems, Linux text editors and clarify their doubts.
- One of the scholar could be the facilitator along with the trainer.

5 min.

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Next Session Details

Preparation for the next session

Text Processing Tools
      Viewing Files
      Utility commands
      Finding and Processing Files
      The Linux Filesystem in-depth
      Standard I/O and Pipes

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Cue Card for Assimilation Check

Question Number	Correct Answer	Slide Number
1	c	Slide 7 (EX mode)
2	a	Slide 10 (Command mode)
3	a	Slide 8(Command mode)
4	a	Slide 5(VI Editor)
5	c	Slide 5(VI Editor)
6	d	Slide 8(Command mode)

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References

- https://www.guru99.com/introduction-linux.html
- https://www.tutorialspoint.com/operating_system/os_linux.htm

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