Welcome to Editing Files.

What you will learn

At the core of the lesson

You will learn how to:

- Explain basic commands of the Vim file editor
- Explain basic commands of the GNU nano file editor
- Explain basic commands of the gedit file editor

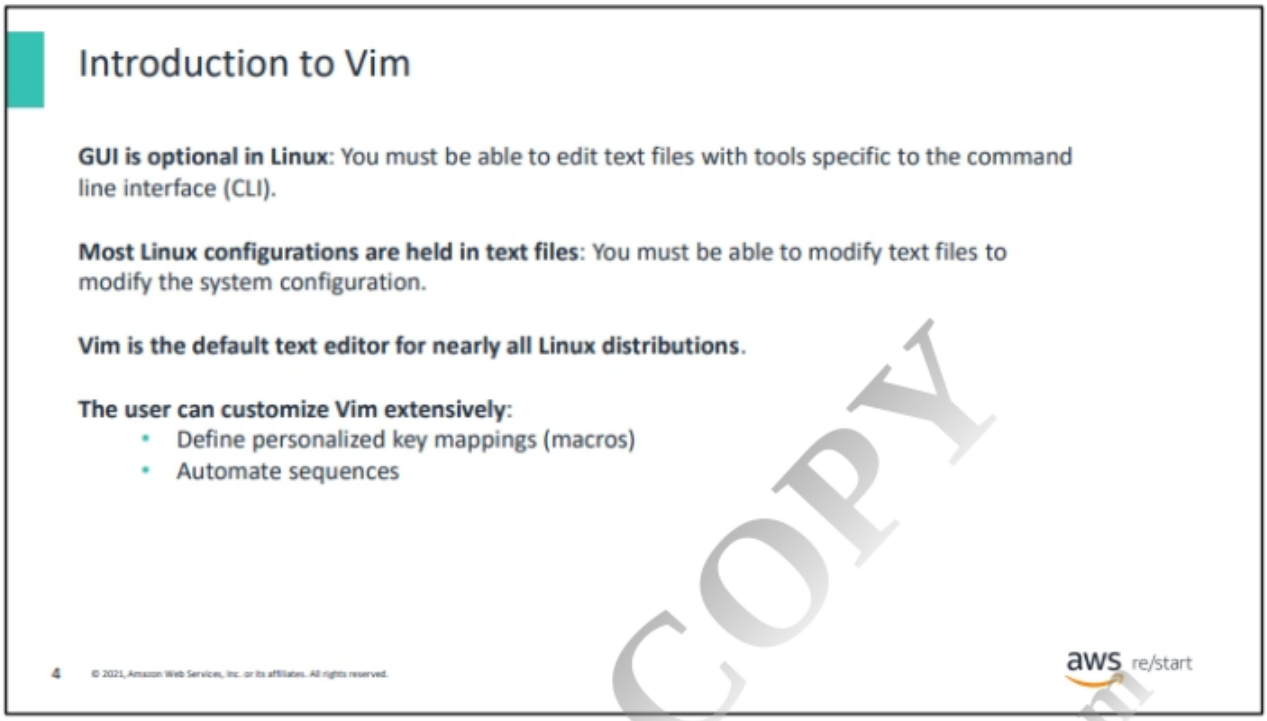
2

aws re/start

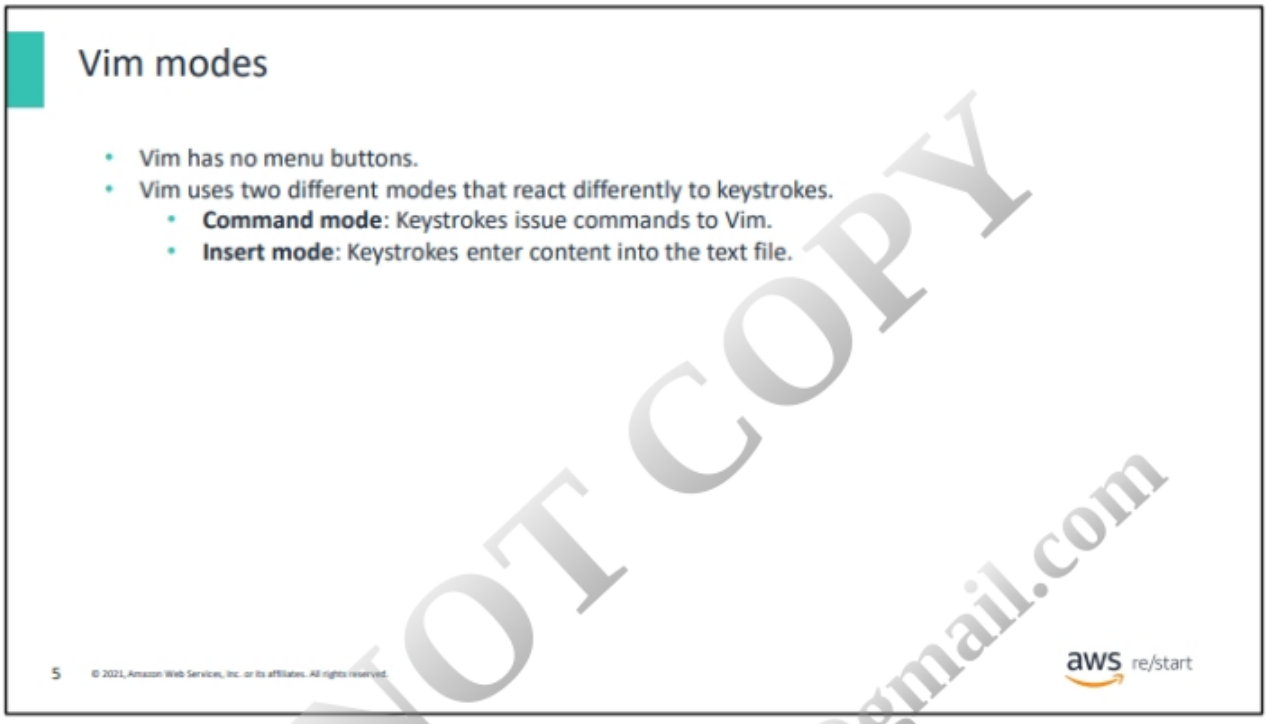
In this lesson, you will learn how to:

- Explain basic commands of the Vim file editor
- Explain basic commands of the GNU nano file editor
- Explain basic commands of the gedit file editor

This section introduces Vim and demonstrates some of the most widely used commands.



Vim is an implementation of Vi. Depending on the Linux distribution, you might find Vi or Vim. A basic understanding if this tool is essential.



You can switch among the three modes as needed.

The next few slides will demonstrate some of the common commands and key strokes.

The command mode

Keystroke	Effect
x	Delete the character at the cursor
G	Move the cursor to the bottom of the file
gg	Move the cursor to the top of the file
42G	Move the cursor to line 42 of the file
/keyword	Search the file for keyword
y	Yank text (cut)
p	Put text (paste)
i	Move to insert mode

aws re/start

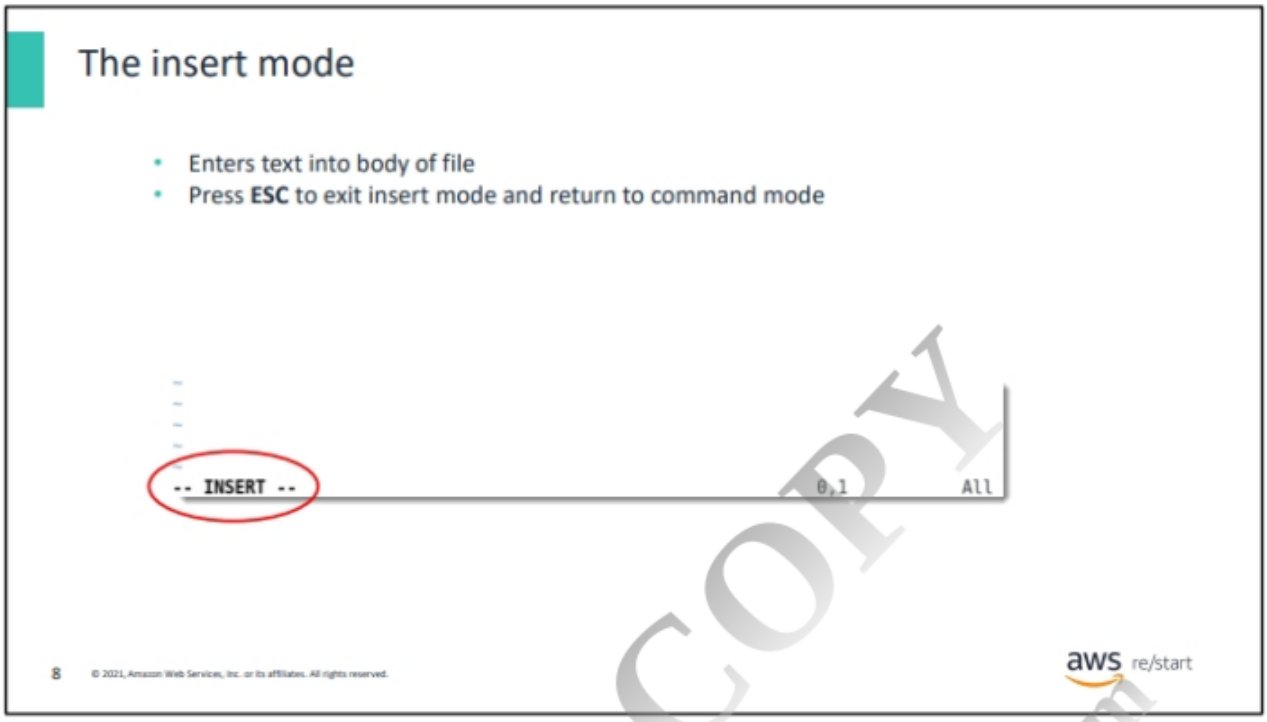
This list is not comprehensive.

More Vim commands

Command	Effect
ZZ	Save changes and exit Vim
X	Delete the character at the cursor
Dd	Delete the line at the cursor
U	Undo the last command
/g	Global
:s/old/new/g	Globally find old and replace with new
O	Enter insert mode and create a line below the cursor
A	Enter insert mode and enter text after the cursor
h, j, k, l	Move cursor left, down, up, and right

aws re/start

This list is not comprehensive.



Enter *i*.

Enter your text.

Press ESC to exit the insert mode.

Quitting and saving

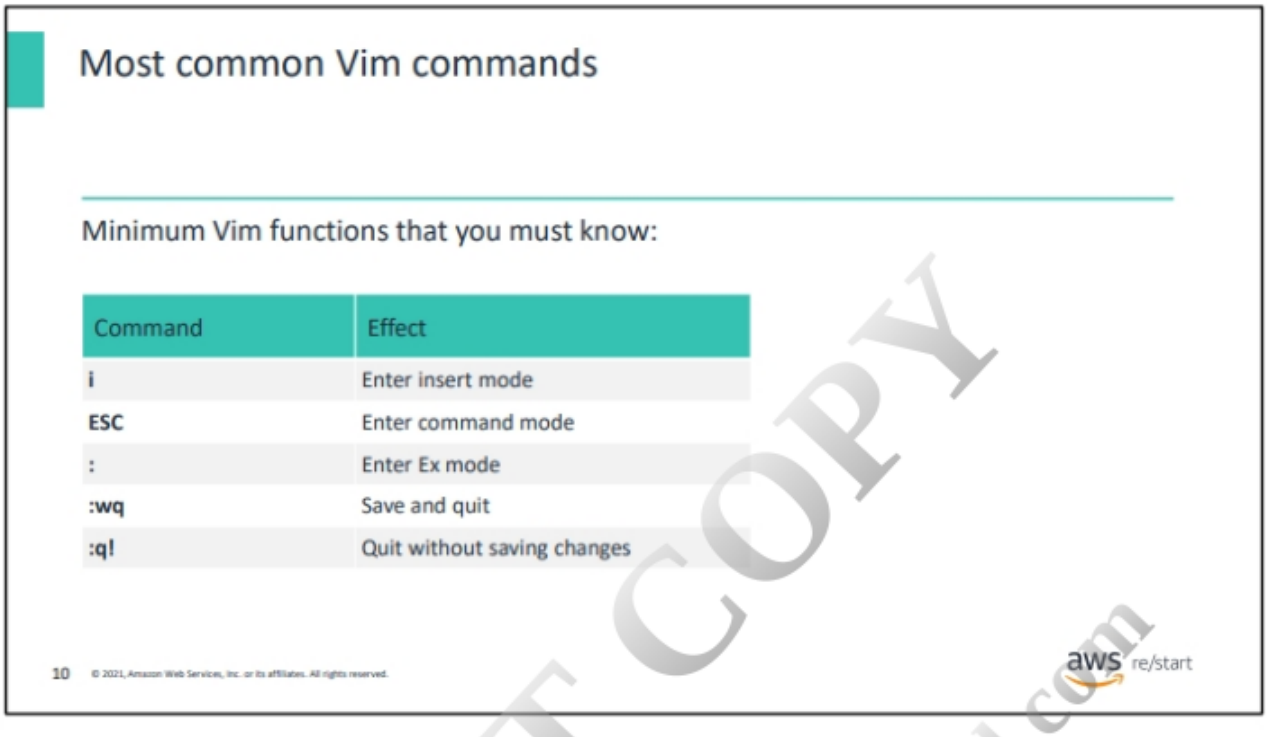
- Enables processing of additional commands
- From command mode, press : to get a command prompt for Ex mode

Common command	Effect
:w	Writes file (save)
:q	Quits Vim
:wq	Writes file and then quits Vim
:wq!	Writes file and forces quit
:q!	Quits Vim without saving changes

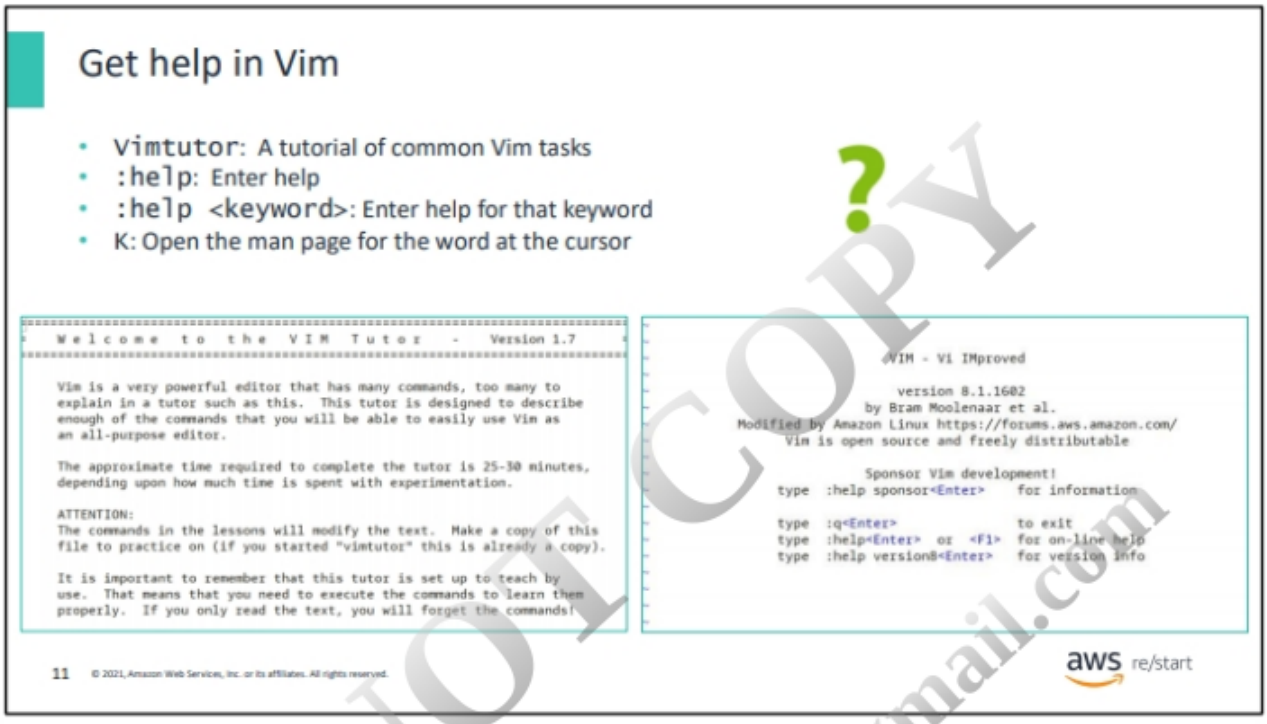
aws re/start

To save the file and exit VIM:

- Enter :
- Enter *wq*



Be sure that you are comfortable with these commands, which you need to know to use Vim.



Vimtutor is a command to enter in the shell that opens a Vim documentation.

Other commands must be entered inside Vim, such as the following:

- Press ESC and enter *:help* to get general help, and then enter *:q* to exit the help page.
- Press ESC and enter *:help 'textwidth'* to go directly to the part of the documentation that mentions the word *textwidth*. Enter *:q* to exit the documentation.
- Enter *useradd*, press ESC, and enter *K* to get help about the `useradd` command. Then enter *q* to exit the help page.

Nano is another lightweight text editor that works directly from the shell.

The GNU nano text editor

- Common text editor in Linux
- Not necessarily installed on every distribution

13

aws re/start

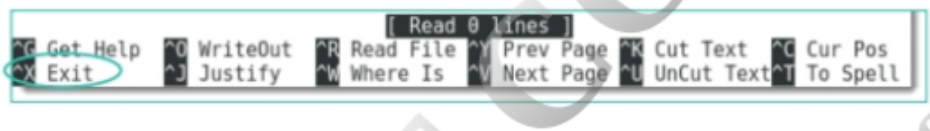
On a CentOS distribution, you can install nano by using the following command: `yum install nano`

On a Debian or Ubuntu distribution, you can use the following command: `sudo apt-get install nano`

Common nano commands

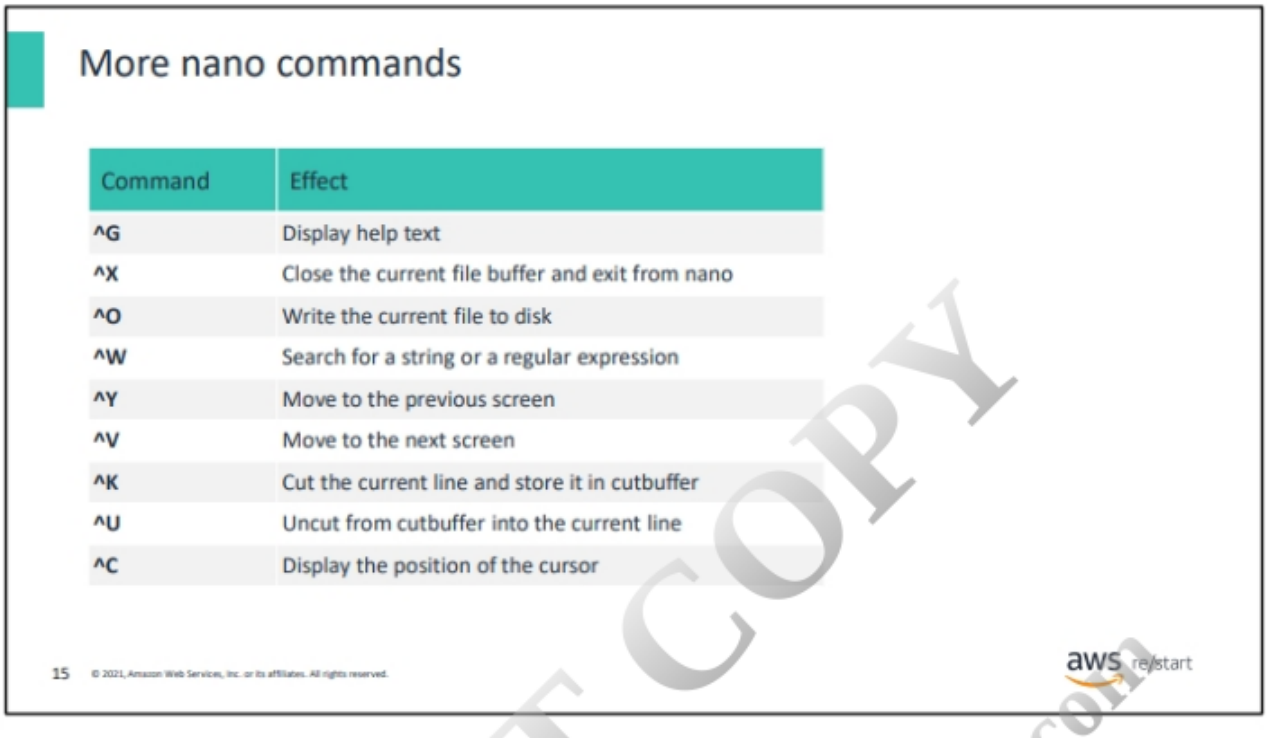
- **nano** contains many shortcuts
  - Use **CTRL+G** to see the list
- The common commands are at the bottom of the screen and ^ = <CTRL>

Command	Effect
CTRL+X	Quit nano
CTRL+O	Save the file
CTRL+K	Cut text
CTRL+U	Paste text
CTRL+G	Get help



aws re/start

The next few slides demonstrate some common commands and key strokes.



This list is not comprehensive.

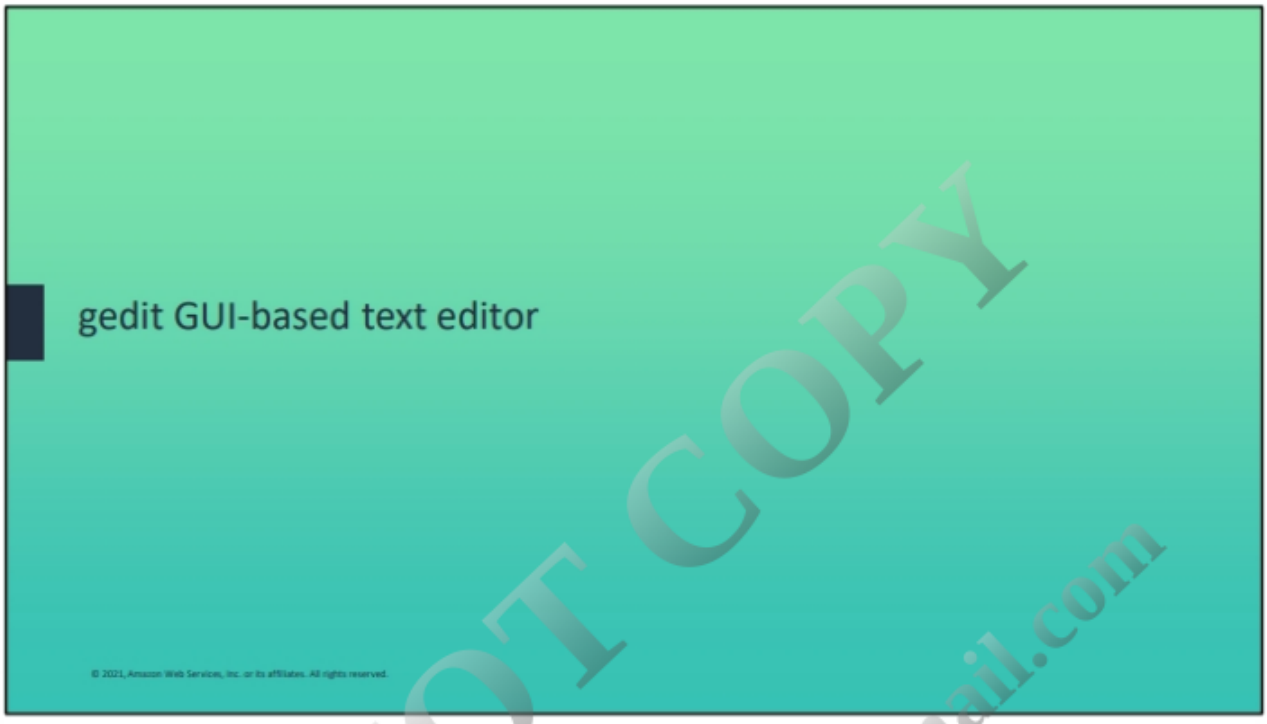
Other nano commands

Command	Effect
^_	Go to the line and column number
^	Replace a string or a regular expression
M-W	Repeat the last search
M-^ or M-6	Copy the current line and store it in the cutbuffer
^E	Move to the end of the current line
M-]	Move to the matching bracket
M-< or M-,	Switch to the previous file buffer
M-> or M-.	Switch to the next file buffer

16

aws re/start

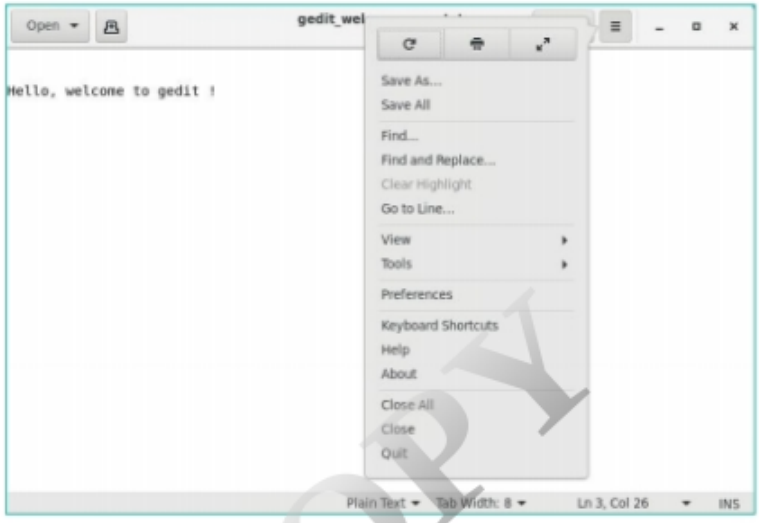
This list is not comprehensive. Familiarize yourself with these commands.



Gedit is a graphic-based text editor. It requires a graphical user interface such as GNOME, Xfce, or K Desktop Environment (KDE) to be installed on the Linux distribution. It is optional.

The gedit text editor

- gedit is a GUI text editor
- Menu buttons available
- Available only if GUI is installed

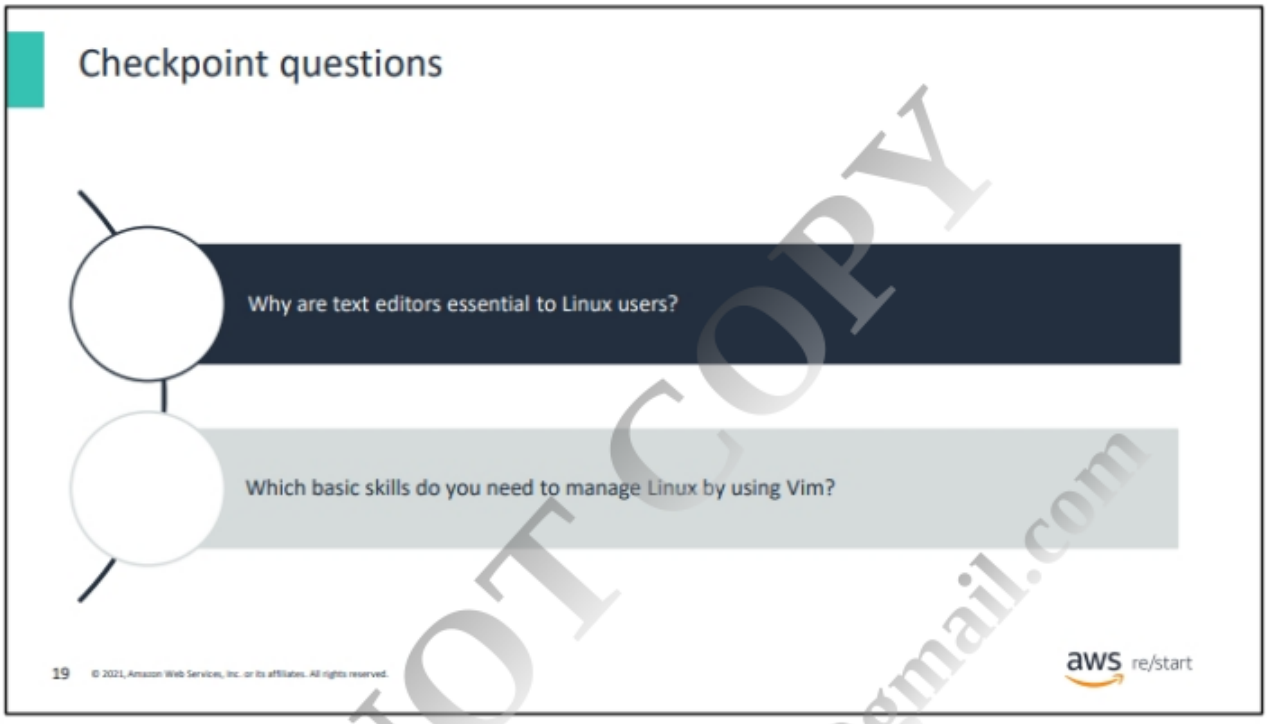


18

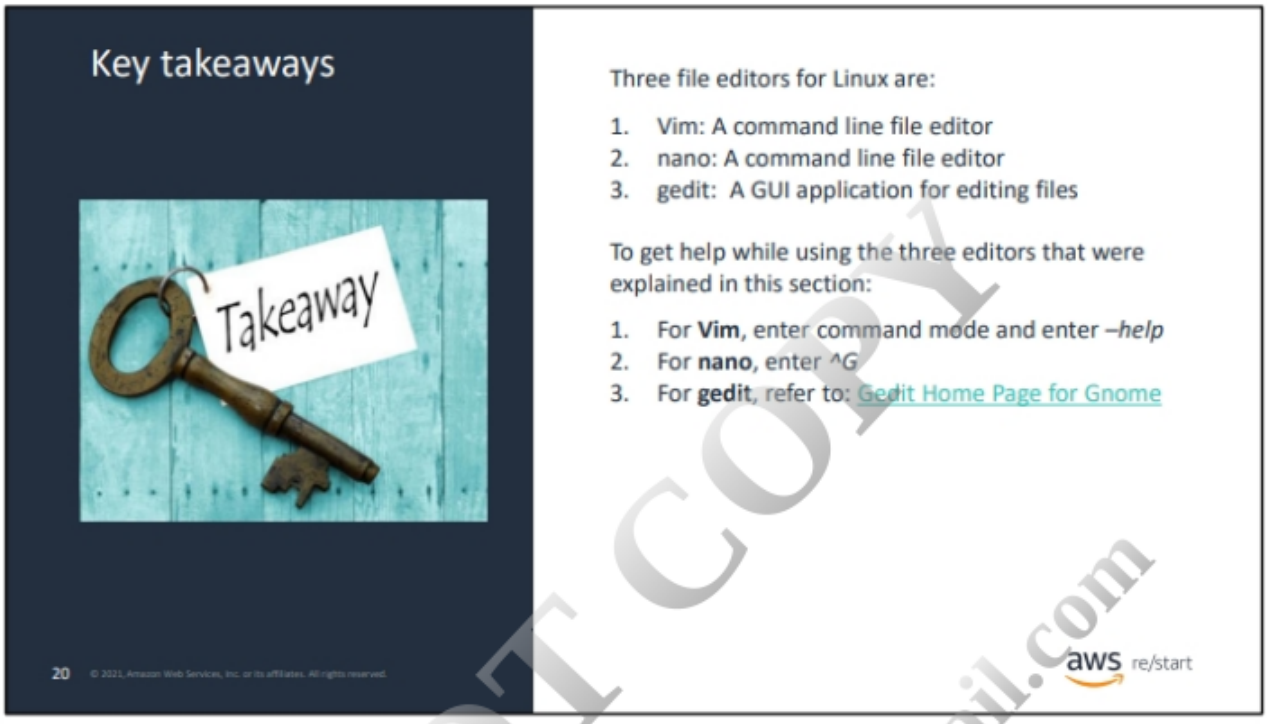
aws re/start

AWS offers instructions that guide you through the installation of a graphical user interface (GUI) on an Amazon Elastic Compute Cloud (Amazon EC2) Linux 2 instance.

For more information about how to install a GUI on an EC2 instance running Amazon Linux 2, see https://aws.amazon.com/premiumsupport/knowledge-center/ec2-linux-2-install-gui/.



- Because the entire Linux file system is made up of files, being able to create and update files is essential.
- The basic skills are:
    a. Opening a file for editing (enter *vi <filename>*)
    b. Entering insert mode (press ESC and then enter *i*)
    c. Entering command mode (press ESC)
    d. Saving a file (enter command mode, enter *:w*, and then press Enter)
    e. Exiting vi (enter command mode, enter *:q*, and then press Enter)



Some key takeaways from this lesson include the following:

The following are the three file editors for Linux:

1. **Vim**: A command line (CLI) file editor
2. **nano**: A command line file editor
3. **gedit**: A GUI application for editing files

Help and further instructions are available for each.

For more information about gedit, see https://help.gnome.org/users/gedit/stable/.