

LINUX INSTALLATION.

- (a) Install your choice of Linux distribution eg Ubuntu, Fedora, Debian.

Using a USB Drive

- Most newer computers can boot from USB. You should see a welcome screen prompting you to choose your language and giving you the option to install Ubuntu or try it from USB.
- If your computer doesn't automatically do so, you might need to press the F12 key to bring up the boot menu, but be careful not to hold it down, that can cause error message.

1.] Prepare to install ubuntu.

- We recommend you plug your computer into a power source.
- You should also make sure you have enough space on your computer to install ubuntu.
- We advise you to select Download updates while installing & Install this third-party software now.
- You should also stay connected to internet so you can get the latest update while you install Ubuntu.

- If you are not connected to internet you will be asked for wireless network, if available. We can ensure your machine is up to date.

2. Allocate drive space.

- Use the checkboxes to choose whether you like to Install Ubuntu alongside another OS, delete your existing operating system & install it with Ubuntu, or if you are an advanced user choose the 'something else' option.

3. Begin the Installation.

- Depending on your previous selection you can now verify that you have chosen the way in which you would like to install Ubuntu.
- The installation process will begin when you click the Install Now button.
- Ubuntu needs about 45 GB to install, so add few extra GB to allow for your files.

1. Select your location

If you are connected to the internet, this should be done automatically. Check your location is correct and click 'forward' to proceed. If you are unsure of your time zone, type the name of the town you are in or click on map.

2. Select your preferred keyboard layout.

Click on the language option you need. If you're not sure, click the Detect Keyboard Layout button for help.

3. Enter your login & password details

4. Learn more about Ubuntu while the System Installs...

5. That's it

All that left to restart your computer & start enjoying Ubuntu.

c) Customize desktop environment by changing different default options like changing default background themes, screensaver.

Accessing Appearance Setting.

- To access Appearance settings in Ubuntu 16.04 LTS on Uses menu at the top right corner, on the top menu bar & select System settings.
- A window will popup with All Settings divided into personal, Hardware & System options icons. Let's first select the Appearance icon.

Changing wallpaper picture

- On the left side of Background part, you can see your current wallpaper.
- On the right side is part where you can select one of ubuntu wallpapers. Clicking on thumbnail our wallpaper will be changed.

- If you want to select wallpaper from your picture folder, click the drop menu above thumbnail, & select the picture folder.
- You will see the pictures in your picture folder as thumbnails, where you can select them as your wallpaper.

changing ubuntu theme

- Ubuntu also has an option to change the desktop theme, which in one click will change the entire way your computer looks.
- To do that, click on the drop-down menu below the wallpaper thumbnail and choose between Ambiance, Radiance & or High contrast.
- Ambiance is a light theme that looks a bit more mac-like while Radiance is the darker brown theme used in Ubuntu by default.

How to install and uninstall gcc

1. Install gcc package, verify that it was installed then remove it.

Step 1: First type 'gcc -v' to know if gcc is already installed or not. If you see the output is blank then it means that you don't have gcc installed.

Step 2: Type 'sudo apt-get install gcc' After typing this full command installation will take place.

Step 3: Type 'sudo apt-get install build-essential' This will install all the libraries required for C and C++ programming language.

How to uninstall gcc compiler:

In the end, although there is no big deal to remove gcc, some functions do have it, particularly gcc, so you can do.

Type 'dpkg-query -f='\${Package} \${Version} \${Architecture}\n'

sudo apt-get remove gcc

has been used to explain that with increasing
the 2d nervous system, especially the 2d
5m, the organism is not changing

Fig 1: The idea of the new movement
involvement

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Q Finding main pages by topic: what main pages are available
 must document file compression which are available
 Ans: 'tar', 'zip' are some main pages simple type: 'map' is
 for document file compression main files

Q Finding main pages by section from the online bring
 up the main pages for the print & lib function
 which manual page section are library function found.

Ans: The number corresponds to what section of the manual
 page is from 1 to 9 as command aside & in
 explanation shift. The main page for main itself explain
 it and last the 8th alt

Q Show me certain terms that have different pages in
 different sections (e.g. 'printf' as a command appears
 in section 1, as a 'stdio' function appears in section
 2) in cases like that you can find the section no to
 the main before the page name to those which
 on your want or use man-o to search every
 machine page in a row

Aim: To study command line

a) Install new package:-

sudo apt-get install [package name]

b) Remove the installed package

sudo apt-get remove [package name]

c) Find installed file in using find command

find /name filename

• /usr/share/doc/libc-1.2.34-1 find /usr/share

• /usr/bin/find

• /etc/passwd

• etc /usr

Find the display name file under user in os

find / -name cfile 2 name filename

• /etc/passwd

Find the user and under user and 2 find

find / -name cfile 2 name filename

• /usr/bin/find

• /etc/passwd

• etc /usr

1100

Find the password file $\$ / \text{usr} / \text{src} / \text{login}$

user 2 and ls name password

find winddepth - 3 - name password

• /usr /bin /password

• /etc /passwd /password

great a symbolic link to the file show
find in /usr /src

/n - file file?

? Create an empty file example.txt and move it
to /usr /src using notation name

touch example.txt

mv example.txt /usr

Delete to file moved to /usr to previous step by
absolute method

rm /usr /example.txt

Find the location of ls , ps and ls command

A where ls

$\text{ls} - \text{bin} / \text{usr} / \text{share} / \text{man} / \text{man} 1 / \text{ls} - \text{g} 2$

where ps

$\text{ps} - \text{bin} / \text{ps} / \text{usr} / \text{share} / \text{man} : \text{bin} / \text{ps} /$

$\text{usr} / \text{share} /$
 $\text{man} / \text{man} 1 / \text{ps} / \text{g} 2$

where ls

$\text{ls} - \text{bin} / \text{ls} / \text{usr} / \text{share} / \text{man} : \text{bin} / \text{ls} /$

$\text{usr} / \text{share} /$
 $\text{man} / \text{man} 2 / \text{ls} / \text{g} 2$

CP

Chapter 10.5

10.5.1

1. Explain mounted file system or give example

Ans: 4-1

7.1

2. Explain one way of mounting file system in Linux

Ans: mount

7.2

3. Explain how to mount file system in Linux

048

4. Explain how to mount file system in Linux

Ans: 1) Mounting and backup the work directory using tar

070

c) Use diff command to create diff of two files
→ diff filename1 filename2

Pic

Pic

67 Use patch command to patch a file and analyse the patch using patch command again.

Pic

USE ENVIRONMENT

- Q) Which account you are logged in? How do you find the
Ans: who command & whoami

pic

Q) Display etc/shadow file using cat command & understand the
importance of shadow file. How is difficult than passwd
file.

Ans: cat /etc/shadow

As with the passwd file, each file in shadow file is also
separated with ":" using characters and are as follows

- Username: up to 8 characters. Case sensitivity, usually all lowercase. A direct match to username in the etc/passwd file.
- Password: 18 characters. A blank entry indicates a password is not required to log in and a "*" entry

- indicates a password is not required to log in. 050
- The number of days since the password was last changed
 - The no. of days before the password will be changed
 - The no. of days before the password must be changed
 - The no. of days to wait even if an expiring password
 - The no. of days after you expires that account is disabled

• A reserved field for possible future use
Each field in a password entry is separated with ":" after character and are as follows

- A'n' is the password field. Password are stored in the "/etc/shadow" file.
- Username, up to 8 characters. Case sensitivity usually all lowercase
- Full name of user. It's not same with max length for the field is 1, but my keep is reasonable
- User's "shell account" often set to "/bin/bash" to provide

Q) Get your current working directory
Ans: pwd

d) Explore diff ways of getting command history, how to manually executed command without typing it

Ans: history
line numbers

c) Create alias to most commonly used commands
Alias command includes the shell to replace one thing with another string while executing the commands.

Ans: alias label = "command"

PRACTICE NO: 4

Linux Editor: Vi

a) Create, modify, search & navigate a file in editor

4) Creating a file
To create a file, on the terminal type vi followed by filename

ii) Modifying the file:

To modify a file, on the vi editor, type "a"

iii) Search in a file

To find a word press / followed by word to search

iv) Navigate

Movement in four direction

KEY	ACTION
K	Move cursor up
J	Move cursor down
h	Move cursor left
l	Move cursor right

Word Navigation

KEY	ACTION
b	Move back to begin of word
e	Move forward to end of word
w	Move forward to beginning of word
O	Move to 1 st character
\$	Move to end of line

Reading:

10/11/18	10/11/18
10/12/18	10/12/18
10/13/18	10/13/18
10/14/18	10/14/18
10/15/18	10/15/18
10/16/18	10/16/18
10/17/18	10/17/18
10/18/18	10/18/18
10/19/18	10/19/18
10/20/18	10/20/18
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10/24/18	10/24/18
10/25/18	10/25/18
10/26/18	10/26/18
10/27/18	10/27/18
10/28/18	10/28/18
10/29/18	10/29/18
10/30/18	10/30/18
10/31/18	10/31/18

1) I have the following records for 10/11/18, 10/12/18, 10/13/18, 10/14/18, 10/15/18, 10/16/18, 10/17/18, 10/18/18, 10/19/18, 10/20/18, 10/21/18, 10/22/18, 10/23/18, 10/24/18, 10/25/18, 10/26/18, 10/27/18, 10/28/18, 10/29/18, 10/30/18, 10/31/18.

Writing:

1) I have the following records for 10/11/18, 10/12/18, 10/13/18, 10/14/18, 10/15/18, 10/16/18, 10/17/18, 10/18/18, 10/19/18, 10/20/18, 10/21/18, 10/22/18, 10/23/18, 10/24/18, 10/25/18, 10/26/18, 10/27/18, 10/28/18, 10/29/18, 10/30/18, 10/31/18.

Reading:

1) I have the following records for 10/11/18, 10/12/18, 10/13/18, 10/14/18, 10/15/18, 10/16/18, 10/17/18, 10/18/18, 10/19/18, 10/20/18, 10/21/18, 10/22/18, 10/23/18, 10/24/18, 10/25/18, 10/26/18, 10/27/18, 10/28/18, 10/29/18, 10/30/18, 10/31/18.