Munster Technological University

Computer Science Dept.

COMP6042 Operating Systems in Practice

Lab 3

- In today's Lab you will:
    1. Use **Ubuntu 22.04.3 LTS** (default desktop → **GNOME)**.
    2. Continue to explore Ubuntu.
    3. Start **ASSESSMENT 1**.
       Note your **submission**-**deadline** and **requirements** including **demonstration** to your lecturer **in lab class**.

Explore Ubuntu Desktop Keyboard Shortcuts

1. Find the **Windows key/Command key/SUPER key** for your machine.
2. Open '**Settings'** application, go to '**Keyboard'**, then select '**Keyboard Shortcuts'** to see the keyboard shortcuts for the desktop.
3. Test these shortcuts - for **example** "*Control_ALT_t*" should launch a terminal; "*Control_Alt_Delete*" should log user out. (**MacBook** users: *"Control_Option_t", "Control_Option_Delete")*.

Explore WorkSpaces & Keyboard Shortcuts

1. Select '***Activities'*** on the top left hand side of the desktop.
   Note: Your workspaces appear on the screen.
   To exit 'Activities' mode, select '***Activities'*** again, or hit the **ESCAPE** key.
2. Open some application on your desktop. ***Example***: open a **terminal**.
3. Select '***Activities'***; look on the right hand side of your screen; select the *second workspace image*. You enter the second workspace, select **ESCAPE**. Now, open some other application.
4. Create ***4 workspaces;*** select a different application for each workspace, such as the calculator/editor/game/ . . . .
5. Switch between your workspaces…..
6. Setup you own ***custom keyboard shortcuts*** to switch from one workspace to another.
   Suggestion: setup CONTROL_SUPER_1 for workspace1, CONTROL_SUPER_2 for workspace2, and so on. Ensure no "conflict use".

Install Different Desktops on Ubuntu

1. ***sudo apt update***
2. ***sudo apt install cinnamon***
3. ***Restart*** your Ubuntu virtual machine.
4. ***Select*** the ***User*** to login.

   Note: A '**desktops**' icon should appear on the *bottom right-hand-corner of the logon-screen*, (the icon is probably a symbol of a **wheel with cogs**).

5. Select the ***desktops*** icon, choose the ***cinnamon desktop,*** and complete your login.
   Note: The desktop is now changed from a ***GNOME*** display, the ***Ubuntu Default*** desktop, to your chosen, ***cinnamon,*** display.

   For the ***cinnamon*** display, if you are using ***VMWare,*** you should be in ***full screen mode*** so that you can see the ***control panel*** line at the ***bottom*** of the screen.

6. When finished exploring, logout. When logging in next-time, choose the ***Ubuntu*** desktop.

Note*:*

There is a number of open source desktops available for Linux; these include: ***kde***, ***mate***, ***cinnamon***, ***unity***, ***lxde***, ***xfce4***, ***plasma-desktop***, ***enlightenment***, ***flashback***, ***openbox***.

*Some are not stable**!***

To install alternate desktops, you may have to search on the internet for the installation procedures. Two examples that you can try are:

> sudo apt install ***plasma-desktop***

> sudo apt install ***xfce4***

Search for others, yourself.

Enjoy!

Exercise

- Make a ***2 minute video*** of you exploring an ***alternate desktop***.

Prepare for and start Assessment 1

1. Open Assessment 1.
2. Read all guidelines. If you have questions, or need clarification on one/more aspect(s), please ask your Lab lecturer.
3. Start preparing and planning for Assessment 1.
4. Note your ***submission-deadline*** and what is required for ***submission***.
5. In-Lab ***attendance*** and ***demonstration*** required.

End Lab 3!