DATA ORGANIZATION AND MANAGEMENT

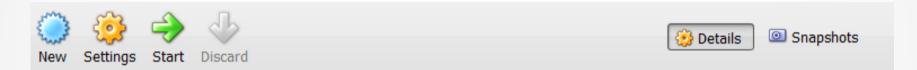
LAB 1: INTRO

Virtual Machine Setup Steps

- 1. Download a virtualization product
 - o Virtual Box
 - www.virtualbox.org
 - o VMWare
 - https://my.vmware.com/web/vmware/free#desktop end user computing/vmware player/5 0
- 2. Obtaining the virtual machine Image(Linux Distrubitions)
 - o Ubuntu
 - Debian
 http://people.cs.deu.edu.tr/mete.akdogan/Debian8(32bit).vdi.zip
 - o Pardus
 - Suse

Virtual Machine Setup Steps

- 1. Extract the zip file to debian-cmpt352.vmdk
- 2. Open Oracle VM VirtualBox
- 3. Click on the button NEW



- 4. This will open a virtual machine wizard for creating a new virtual machine.
- 5. Give your virtual machine a name
- 6. Choose the default value for base memory size
- 7. Click on the radio button for using an existing hard disk (this is **debiancmpt352.vmdk**)
- 8. Click on the button for navigating to the location of debian-cmpt352.vmdk

Running Linux

- 1. The default username is **os and the password is** cme2002 as well
- 2. There is a root user and the password is: cmpt351
- 3. Subsequently, when you wish to start the virtual machine, select your new machine in the list of machines and click the green **Start button**

Exiting Linux

- Choose System -> Shutdown
- Click Shutdown

Editing Files

- Applications -> Accessories -> Terminal
- Where you will find gcc, our C compiler
- There is also an editor gedit
- Applications -> Accessories -> gedit Text Editor
- However this is a text editor only. You can use it to edit your C files, yet you will have to compile it using the command line.

Hello C

```
*libxml.c 💥 📋 *helloWorld.c 💥
#include <stdio.h>
int main(int argc, char **argv)
        printf("Hello World!");
        return 0;
```

Compiling C

- Save your code as hello.c
- GNU C Compiler, called gcc.
- Open your terminal windows and type:

```
gcc -c hello.c → hello.o
```

- This command will compile your code and will form the hello.o file
- Now type:

```
gcc hello.c
```

What are the differences?