

ISCB20.01 – Introduction to LINUX for Biologists

Md. Jubayer Hossain

<https://jhossain.me/>

November 20, 2020

Lead Organizer, Introduction to Scientific Computing for Biologists

Founder, Health Data Research Organization

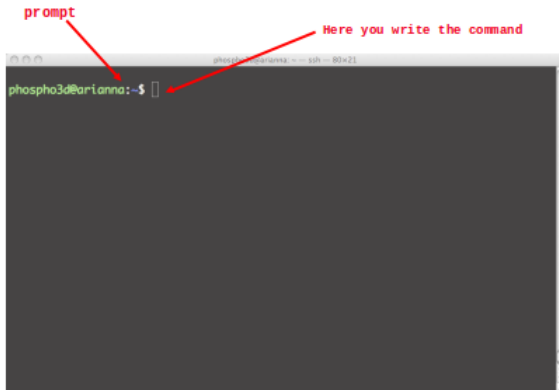


Section–1.2: Working Environment Setup

Ubuntu Interface Introduction

- Interface Tour
- Basic Customization
- Software Center

Terminal



System Update and Upgrade

- **Update:** `sudo apt update`
- **Upgrade:** `sudo apt upgrade`
- **Update and Upgrade:** `sudo apt update && sudo apt upgrade`
- **Update and Upgrade:** `sudo apt update && sudo apt upgrade -y`

Install ZSH

- Visit – <https://github.com/ohmyzsh/ohmyzsh/wiki/Installing-ZSH>
- **Installation Process**
 - **Update System:** `sudo apt update`
 - **Install ZSH:** `sudo apt install zsh`
 - **Check Version:** `zsh -version`
 - **Check Path:** `whereis zsh`
 - **Set as Default:** `sudo usermod -s /usr/bin/zsh $(whoami)`
 - **Set Theme:** `nano /.zshrc` → `ZSH_THEME="agnoster"`
 - **Restart Your Computer:** `sudo reboot`
 - **Installing Powerline and Powerline Fonts for ZSH:**
`sudo apt install powerline fonts-powerline`

Install Terminator

Much of the behaviour of Terminator is based on GNOME Terminal, and we are adding more features from that as time goes by, but we also want to extend out in different directions with useful features for sysadmins and other users. If you have any suggestions, please file wishlist bugs! (<https://gnometerminator.blogspot.com/p/introduction.html>)

- **Update:** sudo apt update
- **Update:** sudo apt terminator

Install (.deb) Packages

- Gdebi lets you to install any deb packages without opening the Default software centre in Ubuntu.
- **Install gdebi:** `sudo apt install gdebi`
- **Software Installation Steps using GDebi Package Installer**
 - **Step-1:** Open with Other Application
 - **Step-2:** Select → GDebi Package Installer
 - **Step-3:** Click → Install Package
 - **Step-4:** Give Your Password
 - **Step-5:** Close

Download and Install Google Chrome

- **Download Chrome for Linux:** <https://www.google.com/chrome/>
- **Install Chrome**
 - **Step-1:** Open with Other Application
 - **Step-2:** Select → GDebi Package Installer
 - **Step-3:** Click → Install Package
 - **Step-4:** Give Your Password
 - **Step-5:** Close

Download and Install Slack

- **Download Slack for Linux:** <https://slack.com/intl/en-bd/downloads/linux>
- **Install Slack**
 - **Step-1:** Open with Other Application
 - **Step-2:** Select → GDebi Package Installer
 - **Step-3:** Click → Install Package
 - **Step-4:** Give Your Password
 - **Step-5:** Close

Download and Install Anaconda Python Distribution

- **Download–**

`https://repo.anaconda.com/archive/Anaconda3-2020.11-Linux-x86_64.sh`

- **Installation:** `sh Anaconda3-2020.11-linux-x86_64.sh`

- **Activate:** `source ~/.zshrc`

- **Launch Jupyter:** `anaconda-navigator`

Install R

- **CRAN Website**—<https://cran.r-project.org/bin/linux/ubuntu/README.html>
- **Installation:** `sudo deb https://cloud.r-project.org/bin/linux/ubuntu focal-cran40/`
- **To install the complete R system**
 - `sudo apt update`
 - `sudo apt-get install r-base`
 - `sudo apt-get install r-base-dev`

- **Download**—<https://rstudio.com/products/rstudio/download/>
 - **Step-1:** Open with Other Application
 - **Step-2:** Select → GDebi Package Installer
 - **Step-3:** Click → Install Package
 - **Step-4:** Give Your Password
 - **Step-5:** Close

- **Download**–<https://code.visualstudio.com/download>
 - **Step-1:** Open with Other Application
 - **Step-2:** Select → GDebi Package Installer
 - **Step-3:** Click → Install Package
 - **Step-4:** Give Your Password
 - **Step-5:** Close

Install \LaTeX

- **Install:** `sudo apt install texlive-latex-extra`
- **Install Publishers:** `sudo apt install texlive-publishers`

- **Step-1:** Open Ubuntu Software Center
- **Step-2:** Search TeXStudio
- **Step-3:** Click Install
- **Step-4:** Give Your Password

Download and Install Mendeley

- **Download Mendeley for Linux :**

<https://www.mendeley.com/download-desktop-new/>

- **Install Slack**

- **Step-1:** Open with Other Application
- **Step-2:** Select → GDebi Package Installer
- **Step-3:** Click → Install Package
- **Step-4:** Give Your Password
- **Step-5:** Close

Thank You

