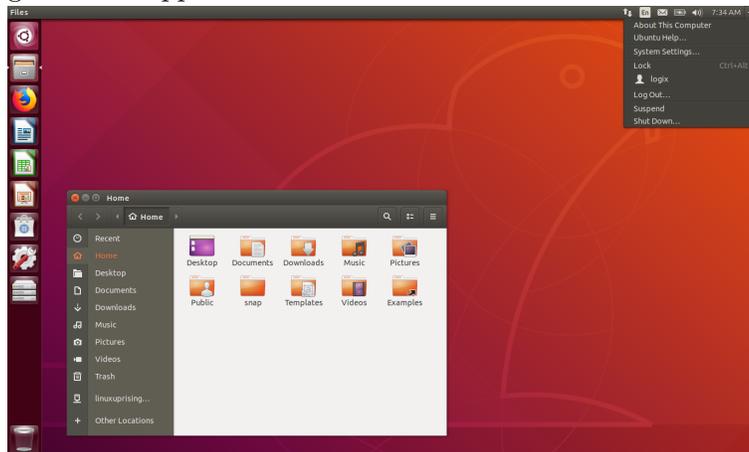


# OS Assignment

Abdullah AL Muksit Tamim  
ID: 011171169

## 1 Ubuntu

Ubuntu comes with everything you need to run your organisation, school, home or enterprise. All the essential applications, like an office suite, browsers, email and media apps come pre-installed and thousands more games and applications are available in the Ubuntu Software Centre. [Ltd04]



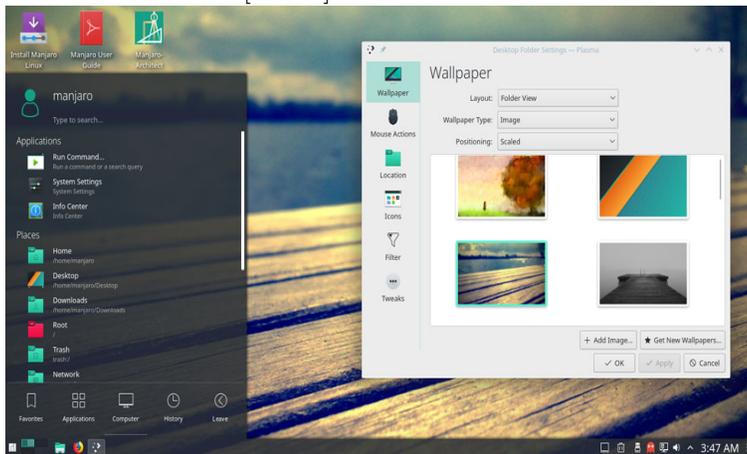
Ubuntu flavours offer a unique way to experience Ubuntu, each with their own choice of default applications and settings. Ubuntu flavours are backed by the full Ubuntu archive for packages and updates.

### **Advantages:**

1. Ubuntu is Free
2. Ubuntu is Completely Customizable
3. Ubuntu is More Secure
4. Ubuntu Runs Without Installing
5. Ubuntu is Better Suited for Development

## 2 Manjaro

Manjaro is a professionally made Linux based operating system that is a suitable replacement for Windows or MacOS. Multiple Desktop Environments are available through our Official and Community editions. We also work with manufacturers to design dedicated hardware. Visit the shop for more information. [GB11]



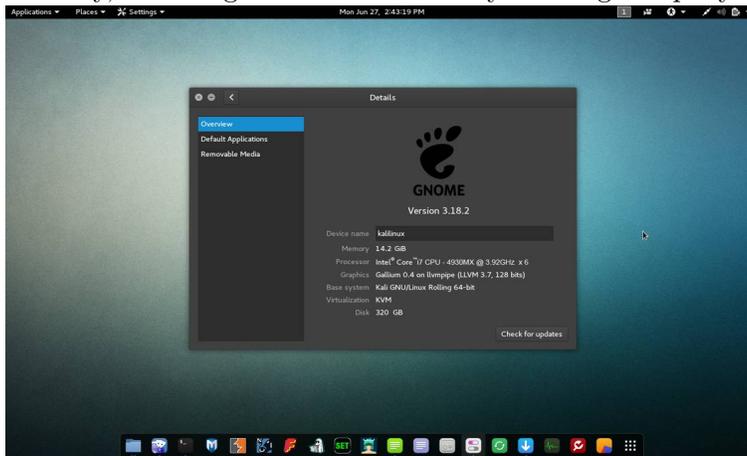
Manjaro can represent a perfect middle-ground for experienced Linux users, those who want good performance, full control, and cutting-edge software but also a degree of software version stability.

### Advantages:

1. Great Hardware Support
2. Dont Have to Worry About PPAs
3. Tons of Software
4. Latest and Greatest without Killing Your System
5. Switching Kernels is Easy

### 3 Kali Linux

Kali Linux is a Debian-based Linux distribution aimed at advanced Penetration Testing and Security Auditing. Kali contains several hundred tools which are geared towards various information security tasks, such as Penetration Testing, Security research, Computer Forensics and Reverse Engineering. Kali Linux is developed, funded and maintained by Offensive Security, a leading information security training company. [Aha13]



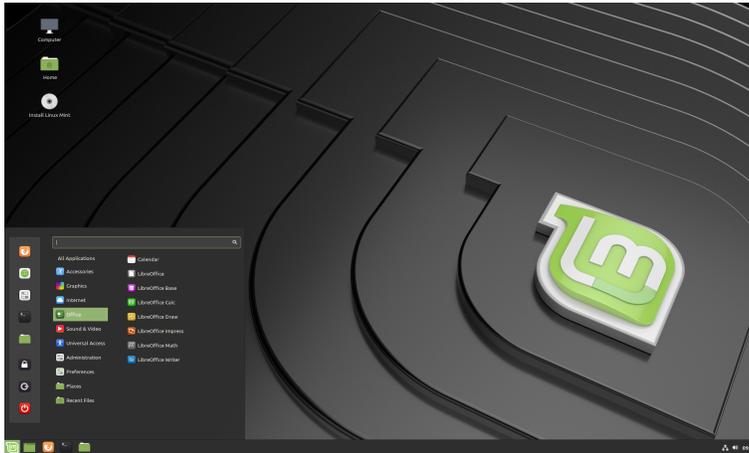
The Kali Linux team is made up of a small group of individuals who are the only ones trusted to commit packages and interact with the repositories, all of which is done using multiple secure protocols.

#### **Advantages:**

1. Advanced Penetration Testing tools
2. Open sourced Git tree
3. FHS support
4. Provide Mobile Support
5. Penetration Hacking support

## 4 Linux Mint

Linux Mint is a community-driven Linux distribution based on Ubuntu that strives to be a "modern, elegant and comfortable operating system which is both powerful and easy to use." [6] Linux Mint provides full out-of-the-box multimedia support by including some proprietary software and comes bundled with a variety of free and open-source applications. [Lef06]



The purpose of Linux Mint is to produce a modern, elegant and comfortable operating system which is both powerful and easy to use. Linux Mint is one of the most popular desktop Linux distributions and used by millions of people. It's safe and reliable. Thanks to a conservative approach to software updates, a unique Update Manager and the robustness of its Linux architecture, Linux Mint requires very little maintenance (no regressions, no antivirus, no anti-spyware...etc).

### **Advantages:**

1. Linux Mints Software Manager Is One of the Best
2. All Essential Apps Come Pre-Installed
3. Linux Mint Is Easy to Customize
4. Linux Mint Is Easy Enough for Beginners
5. Linux Mint Doesn't Require Powerful Hardware

## 5 Fedora

Fedora is a Linux-based operating system created back in 2003 as a community distribution called the Fedora Project. It was released along with Red Hat Enterprise Linux, which was to be the next official Linux distribution after Red Hat Linux was discontinued. Its main purpose was to serve as a source of software innovations for the Hat Enterprise Linux releases. [Hat03]



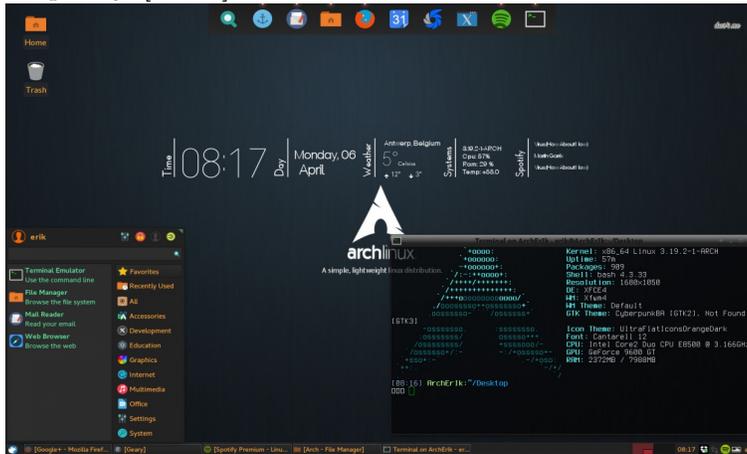
Fedora creates an innovative, free, and open source platform for hardware, clouds, and containers that enables software developers and community members to build tailored solutions for their users.

### Advantages:

1. Fedora is Bleeding Edge
2. Better Package Management
3. A Unique Gnome Experience
4. Prolific Hardware Support
5. A Good Community

## 6 Arch Linux

Arch Linux is a x86-64 general-purpose Linux distribution which has been popular among the DIY enthusiasts and hardcore Linux users. The default installation covers only a minimal base system and expects the end user to configure and use it. Based on the KISS Keep It Simple, Stupid! principle, Arch Linux focus on elegance, code correctness, minimalist system and simplicity. [Gri02]



Its one of the most popular OS for learning Linux from scratch. If you like to experiment with a DIY attitude, you should give Arch Linux a try. Its what many Linux users consider a core Linux experience.

### Advantages:

1. Build Your Own Linux OS by Arch Linux
2. No Bloatware and Unnecessary Services
3. No System Upgrades
4. Arch is Community Based
5. Check Out the Arch User Repository

## References

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