

Wiki

arcticinferno

April 23, 2023

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Chapter 1

Introduction

1.1 What is this wiki aiming to do?

Inside this wiki/document, we intend to document various parts of Linux that you may encur while switching. I have compiled a list of things that I intend to cover, and will put them in a section just ahead. This document will consist of everything we write, but I intend to eventually "port" it to a website format, but for now, it should be fine as a document.

1.2 What we will document

I will include a tree of things that will be documented ahead, but I would first like to thank the people from the following reddit threads for giving me a bunch of things to add.

Reddit. *r/linux*. https://www.reddit.com/r/linux/comments/12lyruw/im_going_to_write_a_full_progression_guide_for/. April 2023

Reddit. *r/linux*. https://www.reddit.com/r/linuxquestions/comments/12lzryp/im_going_to_write_a_full_progression_guide_for/. April 2023

Alright, now that we've got that out of the way, here are the things I'm going to document: **also please note that this is not in order*

1. Hardware
 - (a) To Be Expanded (Supported hardwarem, good brands, etc.)
2. Use Cases
 - (a) Developing Software
 - (b) Gaming
 - (c) System Administration

- (d) To Be Expanded
- 3. Installation
 - (a) What is a Linux Distribution?
 - i. What makes up a "distro"
 - A. The Kernel
 - B. The Shell
 - C. The Applications
 - D. The Package Manager(s)
 - ii. Should I use a small distro? Should I use a large distro?
 - iii. Why you shouldn't use Kali Linux as a desktop.
 - (b) Burning A USB Drive
 - (c) Booting into the BIOS
 - (d) Dual Booting - Benefits & Disadvantages
 - (e) Installing Linux
- 4. System
 - (a) Mounting Drives
 - (b) Automounting Drives
 - (c) File Structure
 - (d) Networking
 - (e) System Configuration
 - (f) System Administration
 - (g) Users
- 5. Useful Resources
 - (a) Arch Linux Wiki - <https://wiki.archlinux.org/>
 - (b) Gentoo Linux Wiki - <https://wiki.gentoo.org/>
- 6. Gaming
- 7. Virtual Machines
 - (a) KVM
 - (b) Xen
 - (c) Virtual Box
 - (d) QEMU + {KVM, Xen}
- 8. Advanced Parts Of A Linux System
 - (a) Types Of Distributions - Source Based / Binary Based

- (b) Init Systems
 - (c) Boot Loaders
 - (d) Kernel(s)
 - (e) Filesystems
9. Trying out more advanced software
- (a) Window Managers
 - (b) Text Editors
 - (c) Terminal Emulators

Chapter 2

Getting Started

2.1 Installation

The majority of these steps will work for any Linux distribution, but I will specifically document the process for pop_os and artixlinux.

2.1.1 Prerequisites

You will need the following thing(s) to install Linux:

1. A USB drive with \geq 4GB of space

2.1.2 Pop! OS

To get started, we will download the official ISO from their website. (<https://pop.system76.com/>) Also, to note, if you have an NVIDIA GPU, you should select the nvidia option whilst downloading. This will make it a lot easier in the future.

2.1.3 MacOS

In MacOS you won't need to download any additional software to burn the ISO to your USB drive. Simply navigate to the folder in which you downloaded the ISO, and run the following commands:

```
lsblk
```

This will show you the drives that you can install to.

```
sudo dd if=<iso> of=/dev/<drive> status=progress bs=4M
```

After the command fully finishes, simply remove the drive.