

# Linux Beginner Guide

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# Introduction

In this guide, I assume that followings are already installed:

- 1 Ubuntu 16.04.2 or Higher
- 2 ZSH 5.0.2 or Higher
- 3 VIM 8.1 or Higher
- 4 We will connect to server via SSH

With this guide, you can use and understand Linux system.

Also, this guide includes as little information about operating system as possible. If you find some fault in the strict sense of the word, that means you are not **beginner**.

# Overview

1 Linux?

2 Basic Linux Command

# Linux?



**Figure:** Linus Torvalds, Inventor of Linux

Linux is one of the most famous OS as Windows and macOS.  
Linux is open-source project.  
Android, OS for mobile, is based on Linux.



Figure: Logo of Ubuntu

Ubuntu is an OS which is based on Linux.

Ubuntu is the best OS in Linux-like OS, because of convenience of its installation and usage.

# Where we start

```
$ ssh fumire@192.168.
fumire@192.168.0.69's password:
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-1032-rasp12 armv7l)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 packages can be updated.
0 updates are security updates.

Last login: Sun Jan  5 03:49:29 2020 from 192.168.
fumire@fumire-raspberry:~$
```

Figure: Here is where we start

After you connect to server via SSH, you can see like this.

Here is where we start!

*fumire* will be user name, and *fumire-raspberry* will be server name.

```
fumire@fumire-raspberry:~$ pwd  
/home/fumire
```

Figure: Result of *pwd* Command

*pwd* is abbr. of "Print Working Directory".  
You can see where you are with *pwd* command.  
Also, "/home/username" is your *home folder*.

```
fumire@fumire-raspberry:~$ ls  
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
```

Figure: Result of `ls` Command

`ls` stands for "List".

`ls` command lists current directory contents.

If current directory is empty, the result will be nothing.



However, you have not completed configuration. Therefore, finish settings with following command:

## Example

```
$ git clone https://github.com/Fumire/.dotfiles.git  
$ cd .dotfiles  
$ make  
$ chsh -s /usr/bin/zsh
```

Note that you should input command only after '\$'.  
After executing commands, you should restart your shell.

# Configuration (Cont.)

```
$ ssh fumire@192.168.
fumire@192.168.0.69's password:
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-1032-raspi2 armv7l)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

409 packages can be updated.
238 updates are security updates.

Last login: Sun Jan  5 04:36:48 2020 from 192.168.
04:39:57 fumire@fumire-raspberry ~
```

Figure: ZSH

With successful configuration, you can see like this.