



LINUX

JUMPSTART LINUX

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Here's what you'll find in this.

1. Intro to Linux
2. Basic CLI Commands
3. Understanding files in Linux
4. Filters & Redirection
5. Users & Group
6. Sudo
7. Software management
8. Services & Processes
9. Good to know commands
10. Server Management

01

Commands

Syntax, help &
Lots of commands

02

Files

Understanding, editing,
filtering & security

03

Softwares

Management

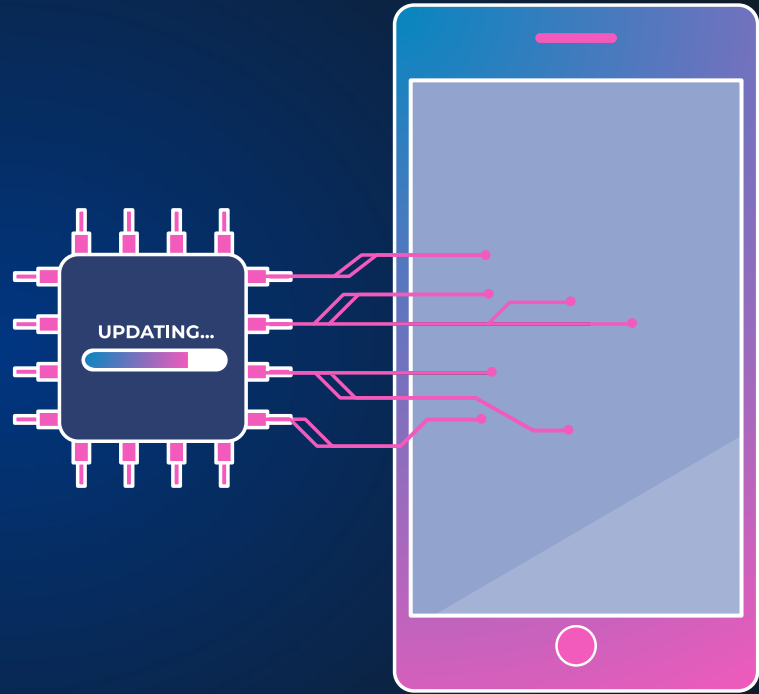
04

Servers

Management

Open Source

Open source software is software with source code that anyone can inspect, modify, and enhance.



**“Doesn't "open
source" just mean
something is free of
charge?”**

—Common Misconception

Linux History

Linux Origins

- 1984: The GNU Project and the Free Software Foundation
 - Creates open source version of UNIX utilities
 - Creates the General Public License (GPL)
 - Software license enforcing open source principles
- 1991: Linus Torvalds
 - Creates open source, UNIX-like kernel, released under the GPL
 - Ports some GNU utilities, solicits assistance online
- Today:
 - Linux kernel + GNU utilities = complete, open source, UNIX-like operating system
 - Packaged for targeted audiences as *distributions*



Linux Principles

- Everything is a file (Including Hardware)
- Small Single purpose Programs
- Ability to chain programs together for complex operations
- Avoid Captive User Interface
- Configuration data stored in text file



Why Linux?

- Opensource
- Community Support
- Support Wide Variety of Hardware
- Customization
- Most Servers runs on Linux
- Automation
- Security



Popular Linux distros

→ Popular Desktop Linux OS

- Ubuntu Linux
- Linux Mint
- Arch Linux
- Fedora
- Debian
- OpenSuse



Popular Server Linux OS

- Red Hat Enterprise Linux
- Ubuntu Server
- Centos
- SUSE Enterprise Linux



Most used Linux distros currently in IT industry.

- RPM based:- RHEL, Centos, Oracle Linux
- Debian based :- Ubuntu Server, Kali Linux

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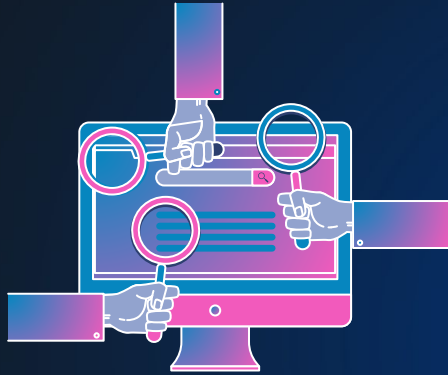
RPM Based

RHEL, Centos,
Oracle Linux

Debian Based

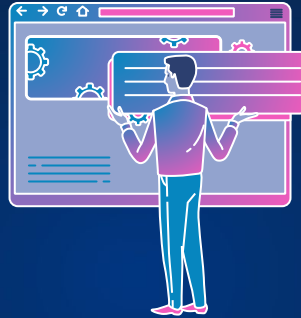
Ubuntu Server,
Kali Linux

Practice Linux & Vagrant



Website

On Centos7
Httpd service
&
HTML Templates



Wordpress

On Ubuntu 18
Apache2, mysql & PHP
Wordpress Template



Automation

Vagrant provisioning