Linux + Certification

Introduction:

* LXO-103 == LPIC 101-400
* LXO-104 ==LPIC 102-400
* 500/800
* 60 questions
* 90 minutes and is valid for 5 years
* $200 to sit for exam.
* Watch video
* Take notes
* Re-watch video and pause at each step
* Read documentation for anything you don’t understand

**About Linux and Installation:**

What is linux?

* Unix-like computer OS for free and open source distribution.
* Originally made for x68 architecture
* Largest install base now with general purpose OS
* Some want to name it GNU/Linux or Linux
* Components
  + **Boot loader** – software that manages boot process
  + **Kernel** – core of OS. Manages CPU, memory
  + **Daemons** – processes that start during the boot that support the system
  + **The Shell** – access to the CLi and control the whole system.
  + **Graphical Server** – X server, sub system which displays graphics
  + **Desktop environment** – what the user interacts with.
  + Applications
* Free
* Stable
* Secure
* Open Source

Linux Distribution

* Collection of software
* **Package management system** – help install, upgrade, and remove software
* Keeps your server up to date
* Redhat
  + CentOS
  + Fedora
* Debian
  + Ubuntu
  + Mint
* SuSE
* Gentoo
* Arch
* Slackwareß

How can we run linux?

* Your own PC
* Someone else’s PC, Shared hosting, Cloud Provider (AWS, GCP, Azure)
* Virtualization

Installing Ubuntu & CentOS

* Not good to put a boot loader in the master boot record. Okay on VM.
* Enabling bridge network mode
  + CentOS
    - Set adapter to bridged
    - Cd /etc/sysconfig/network-scripts
    - Sudo vi ifcfg-enp0s3 (a=append)(:wq) (ESC)
    - Onboot = yes
    - Ip addr is to see IP address
  + Ubuntu
    - Just set adapter to bridged
* Sudo loadkeys us – shows keys local to the region.

**System Architecture:**

Boot the System