Operating Systems

Ubuntu Server
Chrome OS
Android

Ubuntu Server

A headless Linux distribution aimed at Dedicated Server Hosts. Designed to be a minimal version of Ubuntu Desktop. Some differences are:

- No Desktop Environment (GUI)

- Different standard packages – no web broswer, office software, media software. Replaced with:

- File server, web server, email server packages.

(MakeUseOf, n.d.)

Ubuntu Server

Headless operation involves remote connection like SSH to operate the OS.

This means that Ubuntu Server relies on a Command Line Interface (CLI), or shell, to be configured.

Ubuntu Server ships with Bash, much like Ubuntu Desktop.

(MakeUseOf, n.d.)

Ubuntu Server Requirements

The Server and Desktop versions have differing installation requirements.

Ubuntu Server

- Architecture: AMD64, ARM, POWER8, LinuxONE, z Systems.

- 2GHz Dual Core Processor

- 4GiB RAM

- 25GB Hard Drive space

Ubuntu Desktop

- Architecture: x64, AMD64, ARM, S390X, OpenPOWER

- 300MHz-1GHz CPU

- 384MiB-1GiB RAM

- 1.5GiB-4GiB Hard Drive Space

(Ubuntu.com, 2018) (help.ubuntu.com, n.d.)

Chrome OS

Chrome OS is a Linux distribution, similar to Ubuntu, with a focus on web apps and lightweight requirements.

Chrome OS is used primarily with Chromebooks, although it can be obtained from Google for use anywhere.

Additionally, some chromebooks support android apps from the Google Play Store.

(Lifewire, 2009) (Google, 2018)

Chrome OS

Chrome OS began life primarily as a web-based "thin client", a type of computer system that works by connecting to a server rather than by processing and storing data locally. This means that they would have traditionally used web applications such as Google Docs.

Over time, it has become possible for Chrome apps (packaged web apps), native Linux apps, and native Android apps to be installed, each with different functionalities.

(Digital Trends, 2020) (Klosowski, 2016) (Raymond, 2018) (Google, 2020)

Chrome OS Requirements

Since Chrome OS primarily ships with Chromebooks, there isn't any easily accessible information about system requirements. The requirements for Chrome should match up somewhat due to the lightweight nature of the OS:

- Processor: 2nd-generation Core i5 (2GHz+)

- GPU: Intel HD3000 or comparable

- RAM: Unspecified

(Google, 2018)

Android

Android is a mobile operating system that uses a modified Linux kernel. It's development is lead by Google, while being Open Source.

It's used in various different devices, primarily mobile phones and tablets, along with watches, TVs, games consoles, and many other devices.

Android uses the Google Play Store for applications, with no command line interface or root level access.

(Burrell, n.d.) (Petrovan, 2012)

Android Requirements

There aren't any specific hardware requirements for android, instead a specification for a minimum screen size. However, there are a few unofficial or outdated requirement sets:

(MyComputerAid, n.d.)

(Techie Buzz, 2010)

- 32 MB RAM

- 32 MB Memory

- 200 MHz processor

- 1GHz processor

- 512MB Ram

- 3.5 inches or more screen size

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