IoT: Client Devices

Installing Linux, Buildroot

Software Installation & Use

NOT EVERY STEP

‣ I won't cover every single step in installations

NOT EASY STUFF

‣ I won't cover easy, straight forward stuff either

‣ This stuff is on the internet, or in documentation

THINGS THAT ARE COMPLEX, NEED EXPLANATION

‣ I WILL cover complex stuff where you're likely to get hung up

This is a graduate level course.

Download Linux

UBUNTU 16.04

‣ This is the LTS release

‣ Relatively stable

BASED ON DEBIAN

‣ Easy installation

‣ Download ISO from https://ubuntu.com

…OR YOUR FAVORITE DISTRO

‣ If you have one

‣ Examples will be in Ubuntu

Type of Installation

SERVER OR WORKSTATION?

‣ Either one is fine, but server generally has no GUI

GUI OR NO?

‣ I generally do not use a GUI (but you can)

‣ Makes for a smaller image

DEVELOPMENT

‣ No GUI may be more difficult if not comfortable in Linux

Create Virtual Image

CREATE A NEW IMAGE

‣ In either Virtualbox or VMWare

‣ Follow directions, internet guidance

FOLLOW THE PROMPTS

‣ Make sure you install SSH during installation

‣ You'll want to be able to SSH into the system

CREATE STRONG PASSWORDS

‣ This is your development workstation after all