***Install/setup***

Install Ubuntu Mini, don’t install any extra packages offered during the installation.

keep packages small size, build from source,

watch performance/ processes

**no terminal at boot, blinking cursor:**

When booted, press ctrl+alt+F1 for first to start A tty in the virtual tty desktops that Ubuntu mini comes with.

**Wifi setup**

After installing Ubuntu Mini on an old toshiba laptop, (even though during install it could connect to the internet to download required packages) when booted I had no internet,though adapters were shown to the system fine. Follow exactly this website for that situation: <https://www.blackmoreops.com/2014/09/18/connect-to-wifi-network-from-command-line-in-linux/> no extra apps/packages needed.

***Full Linux Programs I use***

nano alpinepython python3 openjdk-8-jdk vlc libportaudio2 pulseaudio pavucontrol dialog tightvncservermoreutilspython-pip npm

howdoi fish wget dtrx libjpeg8-dev perl screen/tmux android-tools-adb pianobar mplayer aptitude i3 hwinfo xclip iotop htop w3m software-properties-common

**pip install**

rainbowstream mps

**npm install -g**

how2

***CONFIGURE APPS***

**VLC**

enable run as root:

sed -i 's/geteuid/getppid/' /usr/bin/vlc

**NPM**

set path

ln -s /usr/bin/nodejs /usr/bin/node

**Window Manager (I3)**

In LinuxDeploy app:

make </storage/sdcard0> mounted.

In linux:

-<apt-get install x11vnc>

Using bVNC App, I get custom resolution:

-<cd .ssh>

-<ssh-keygen -t rsa -b 4096 -f id\_rsa>

-make key password

-<cp id\_rsa id\_rsa.pub /storage/sdcard0/Download>

-New connection with bvnc Vnc over SSH

-Bvnc>Manage Key>Enter “id\_rsa” at bottom

-enter key password at top field

-set slider to “4096”

-tap Import

At bVnc main screen:

-AutoX resolution should be W=525xH=605 to make room for Hackers Keyboard on sceen.

-Enter server “localhost”

-Enter user

-Enter ssh key in passphrase

Back in Linux:

cd ~/.ssh  
touch authorized\_keys  
chmod 600 authorized\_keys  
cat id\_rsa.pub >> authorized\_keys

Connect

***DOWNLOADS***

wget <http://georgielabs.altervista.org/SoundWire_Server_RPi.tar.gz>

This staysbacked up in cloud storage “Programs”.

**TERMUX**

**For additional functionality/packages:**

packages install python nodejs

*This allows for pip and npm package managers, Greatly improving what can be done with just Termux.*

pip install mps rainbowstream

npm install how2

etc..

**Development Environment**

Java:

sudo add-apt-repository ppa:webupd8team/java

sudo apt-get update

sudo apt-get install oracle-java9-installer

sudo apt-get install oracle-java9-set-default