

Ubuntu official Image Build Process

Overview, Flow, and Hacking

<http://cdimage.ubuntu.com>

Woodrow Shen

woodrow.shen@canonical.com

Agenda



- ⬠ Story...
- ⬠ Image Build Infrastructure
- ⬠ Howto

Ubuntu CD images are maintained by foundations team

(aka release team)

<https://wiki.ubuntu.com/FoundationsTeam>

<https://wiki.ubuntu.com/ReleaseTeam>

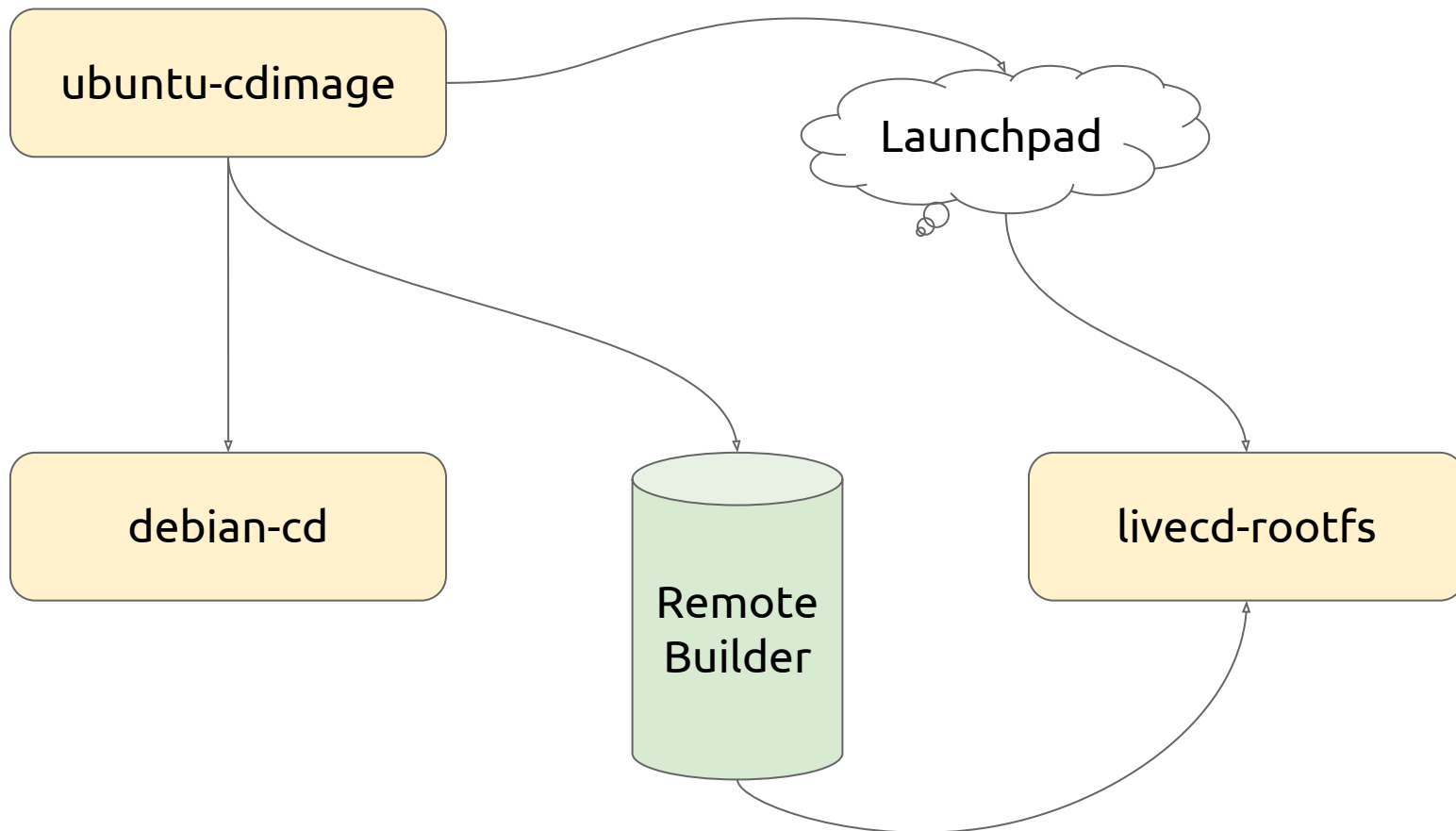
Image Build Infrastructure

Projects on Launchpad



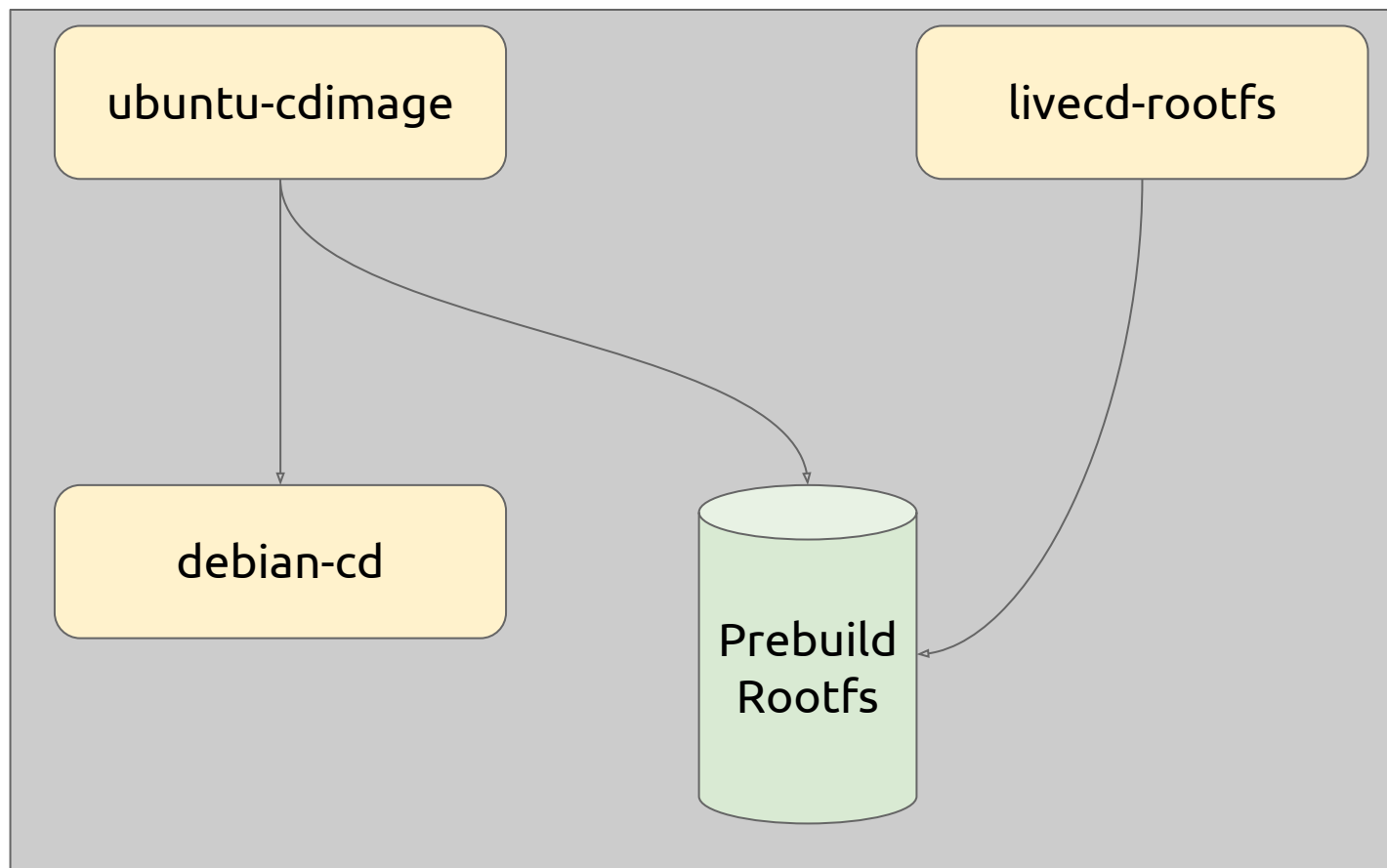
- ◻ ubuntu-cdimage
 - A wrapper of debian-cd
 - Python based
 - <https://launchpad.net/ubuntu-cdimage>
- ◻ debian-cd
 - Scripts to build a debian CD set
 - <https://launchpad.net/debian-cd>
- ◻ livecd-rootfs
 - Scripts to build the live filesystem (rootfs)
 - live-build 3.0+ based
 - <https://launchpad.net/livecd-rootfs>

cron.daily
cron.daily-live



Hacking

cron.daily
cron.daily-live



Jenkins / Travis

Build live filesystem for xenial-desktop

Instructions

```
$sudo apt-get install -y livecd-rootfs
$mkdir livefs
$cd livefs
$cp -a /usr/share/livecd-rootfs/live-build/auto .
$mkdir chroot
$export SUITE=xenial \
  export ARCH=amd64 \
  export PROJECT=ubuntu \
  export MIRROR=http://archive.ubuntu.com/ubuntu/ \
  export BINARYFORMAT=iso-hybrid \
  export LB_SYSLINUX_THEME=ubuntu-xenial
$lb config --initramfs-compression=gzip
$sudo lb build
```

Howto



Build Ubuntu image

- ◻ Instructions
 - Desktop
 - <https://hackmd.io/s/rkJul-ix->
 - Server
 - <https://hackmd.io/s/H1iTvxxwg->

[1] <https://github.com/Lyoncore/oem-cdimage>

[2] <https://github.com/Lyoncore/oem-debian-cd>

Ubuntu-cdimage supports different ARCHs, but...

armhf image is totally built from livecd-rootfs

<http://cdimage.ubuntu.com/releases/16.04.2/release/ubuntu-16.04.2-preinstalled-server-armhf+raspi2.img.xz>

Question ?

And

Thanks for your attention

Let's build your own image now