

Snappy Ubuntu Core

Enabling secure devices with app stores



We are the company
behind Ubuntu.

Canonical and Ubuntu | Best of both worlds



CANONICAL

Commercial backing
for the #1 general
purpose Linux OS:
Ubuntu

Global Services,
Support,
Certification!



Ubuntu

#1 Linux Desktop

#1 Cloud OS

Now also for
phones, tablets &
IoT devices

It has **never been easier** to make a
custom hardware appliance...

Building an IoT Appliance



Beaglebone Black



Raspberry Pi 2



Snickerdoodle



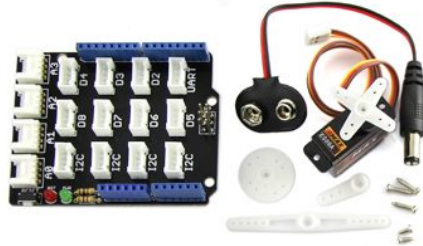
Intel NUC



Samsung Artik



Qualcomm DragonBoard



But why?

Old-School Embedded



Modern Embedded

RTOS/Embedded
cross-compilation
single-purpose
constrained
rare updates
offline

expensive & custom
software devel

General Linux
normal toolchain
multi-purpose
256M RAM 2G SD
constant updates
connected

cheap & easy
software devel

Linux Server Ops

centralised
supported
expensive
elastic

cheap to service



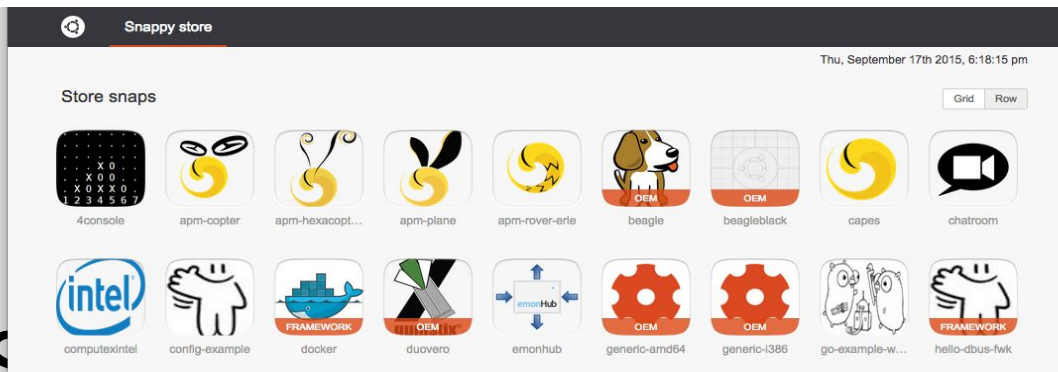
Linux Device Ops

distributed
field-serviced
cheap
spof

expensive to fix



\$600 drone (hardware)



Apps, Services and SaaS

Infrastructure

Certification. Support. Assurance. Security.

Maintenance. Compatibility.





Transactional updates

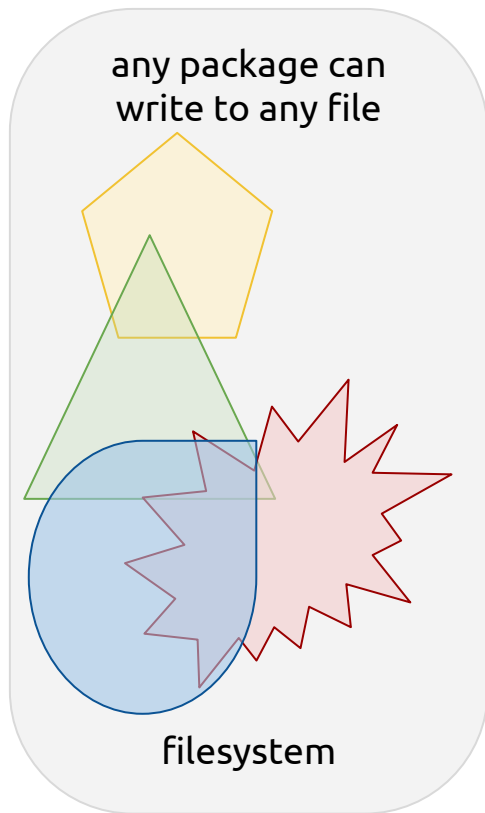


Application confinement

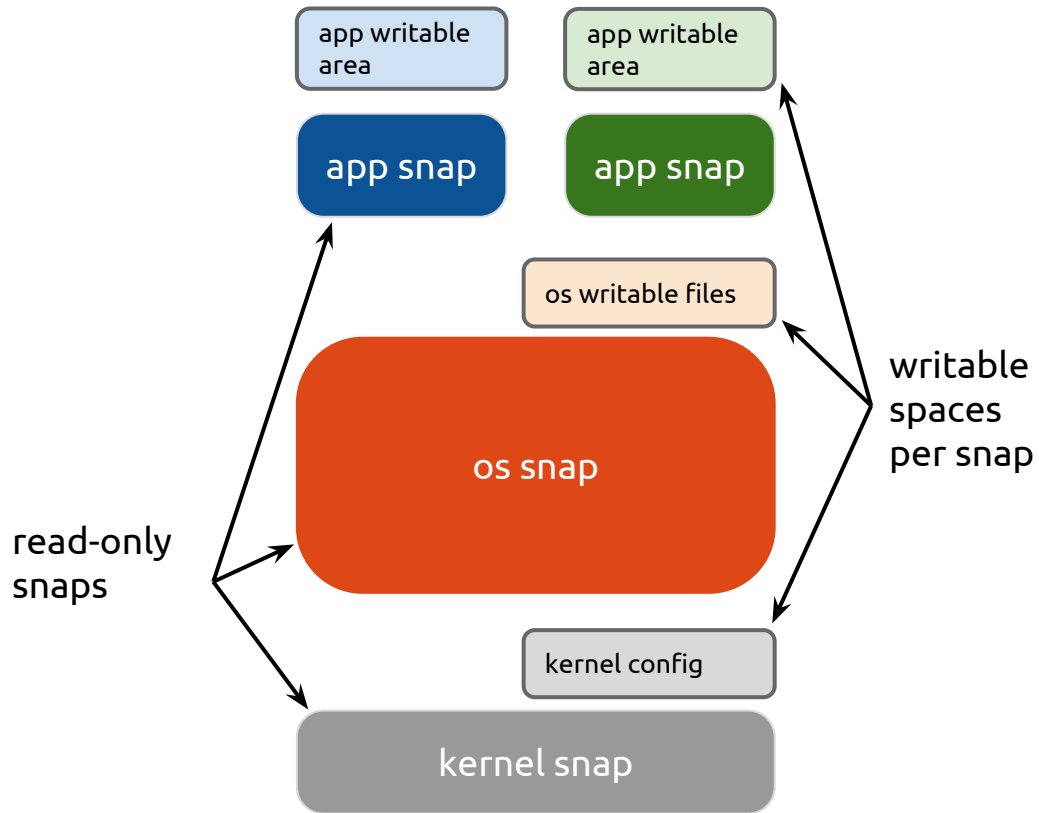


Familiar Ubuntu app development

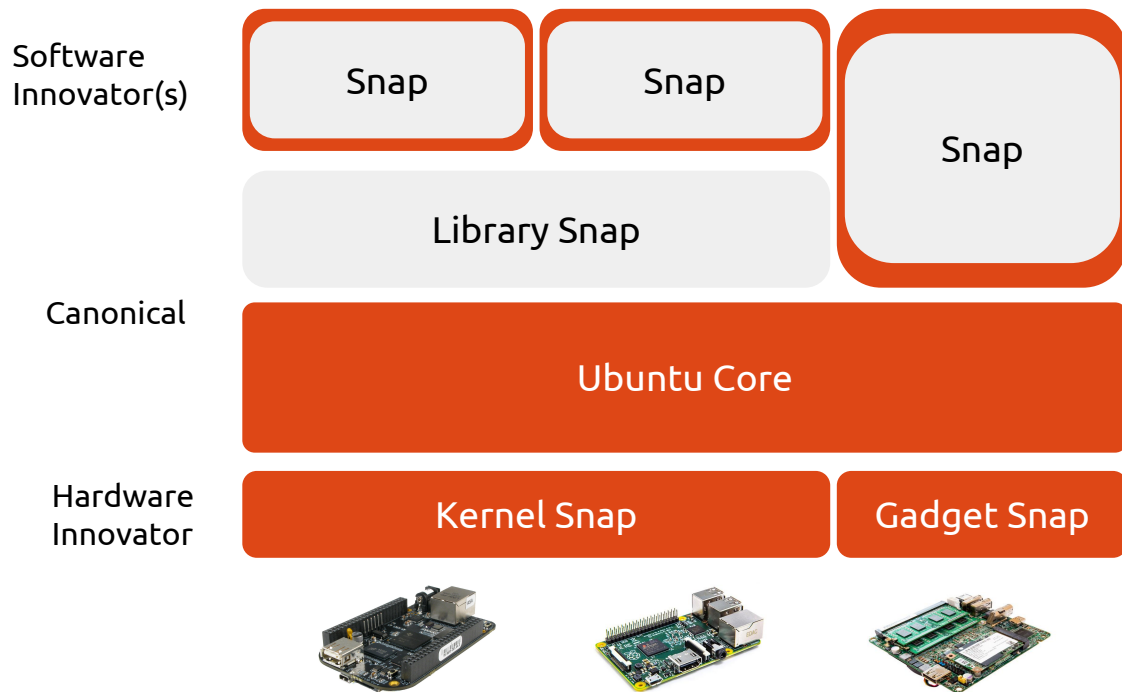
classic



snappy

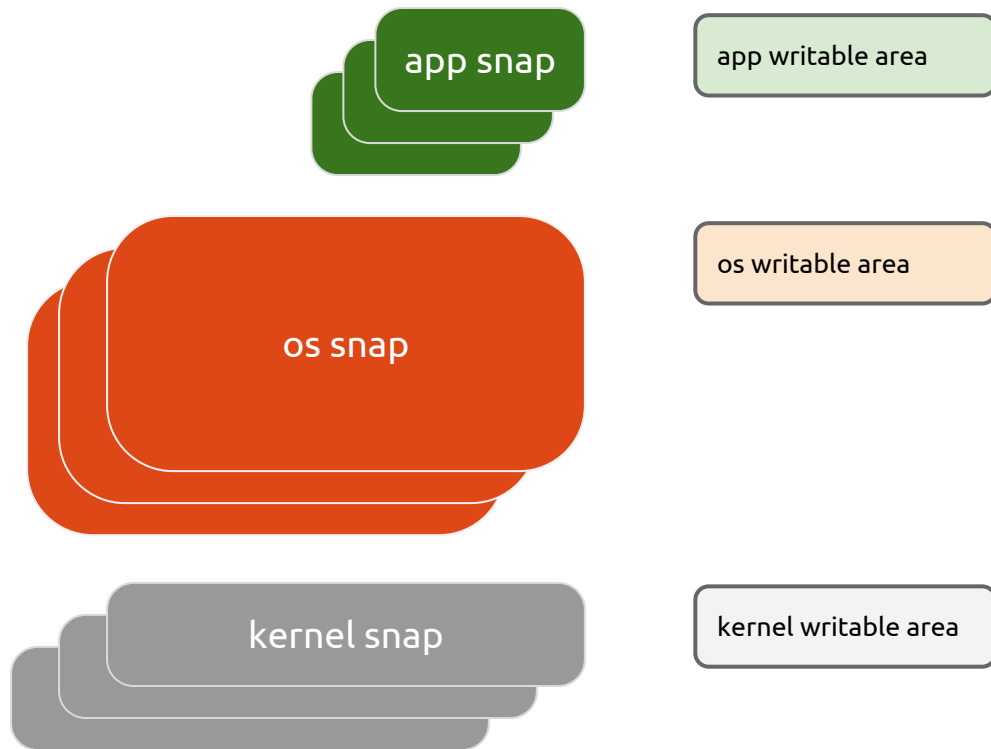


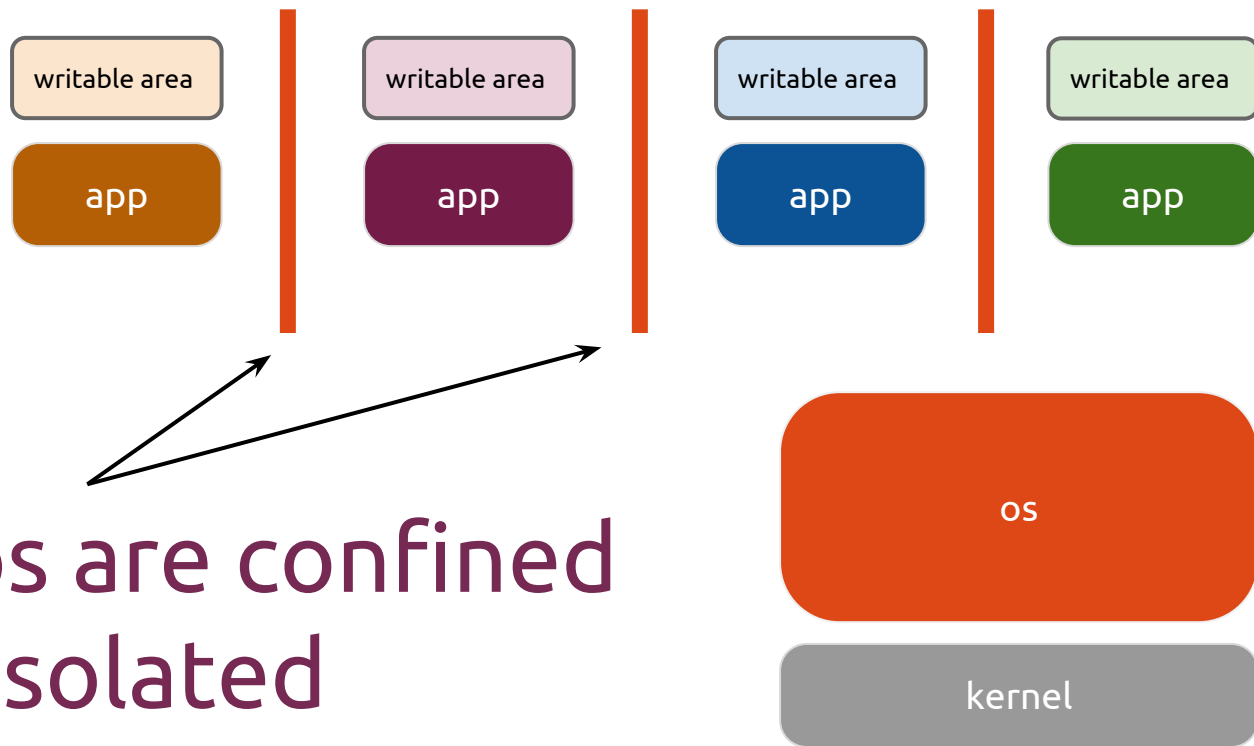
Snappy system architecture



- Automatic updates
- Secure by design
- Automatic backups
- Automatic rollback

Transactional update and rollback





Snaps are confined
and isolated

WebDM



Snappy store

Thu, October 22nd 2015, 10:37:35 pm

Installed snaps

A-Z

kB

Grid

Row



beagleblack
692.54 kB



lxd
73.98 MB



pastebinit
287.77 kB



ubuntu-core
-1 B



webdm
36.67 MB

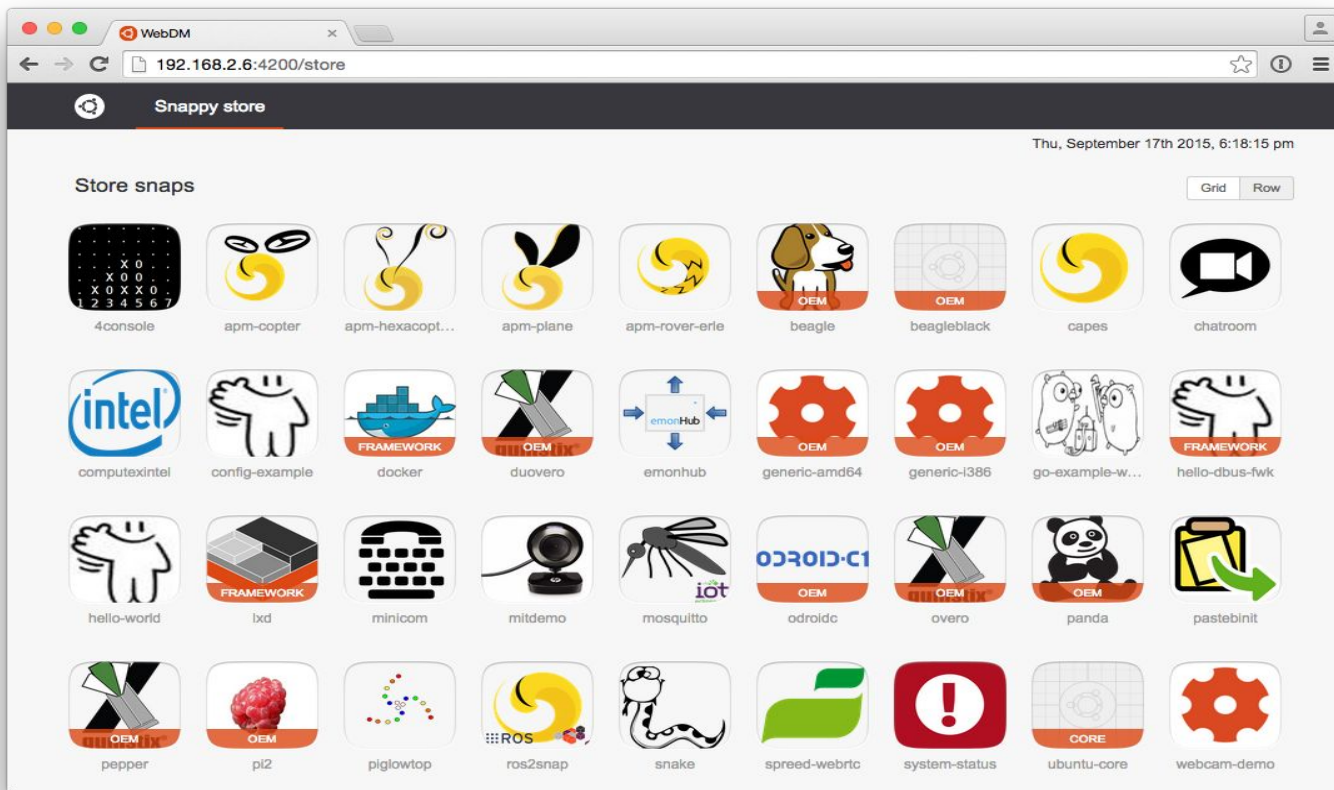


xkcd-webserver
39.01 kB

© Copyright 2015 Canonical Ltd.

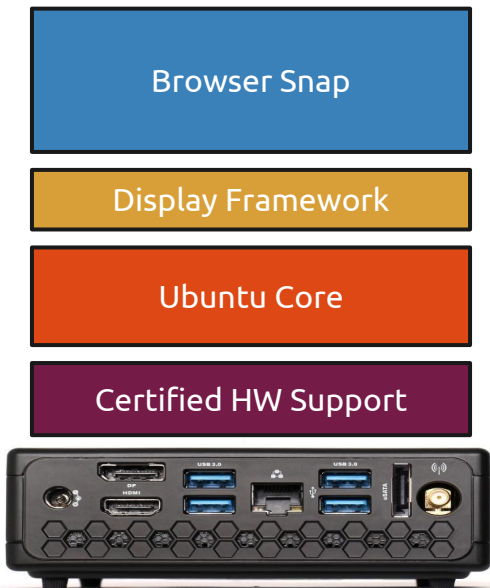
Snappy Store

Long Lasting Value and Revenue out of "Device Real Estate"

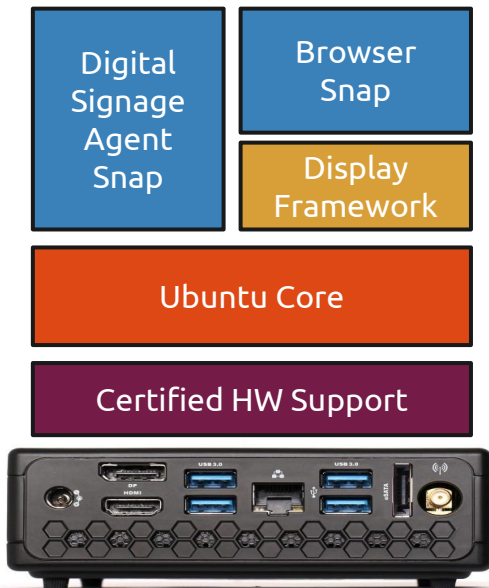


The end of 'one size fits all'

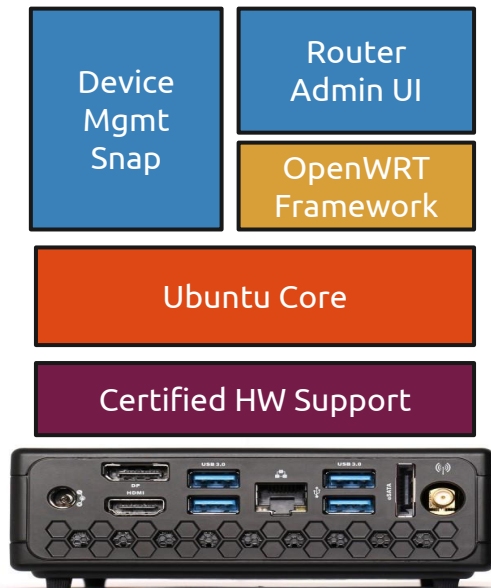
Snappy Ubuntu
Browsing Appliance



Snappy Ubuntu
Digital Signage Appliance

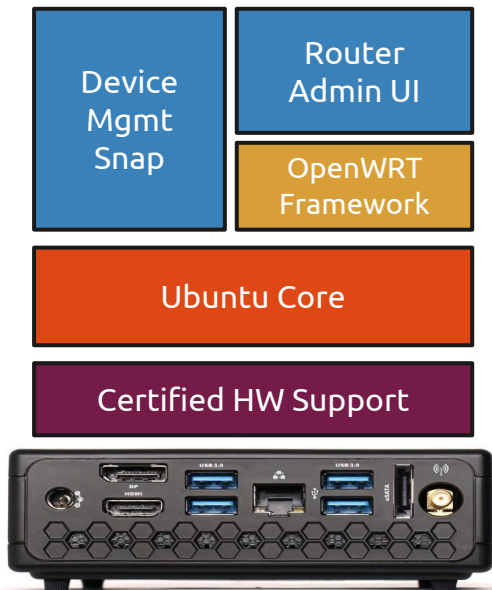


Snappy Ubuntu
Home Router Appliance

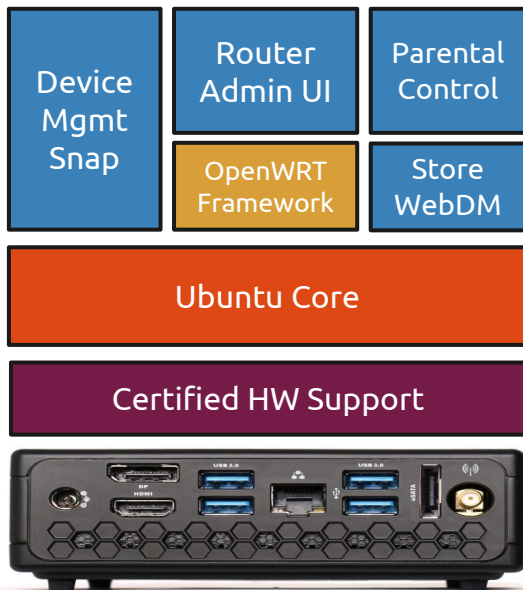


The end of the 'early device death'

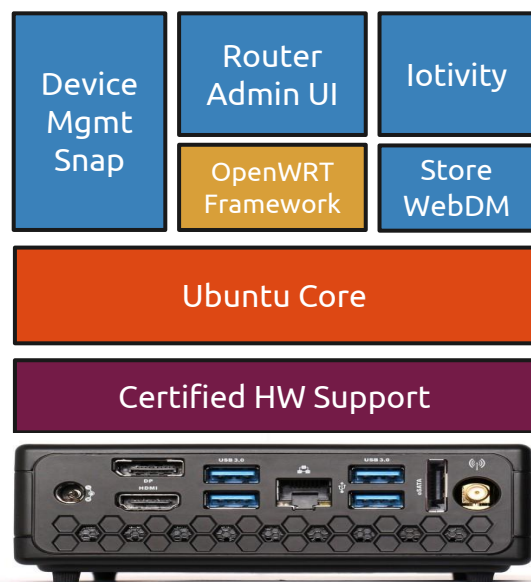
Snappy Ubuntu
Home Router Appliance



Snappy Ubuntu
Home Router Appliance w/ Store

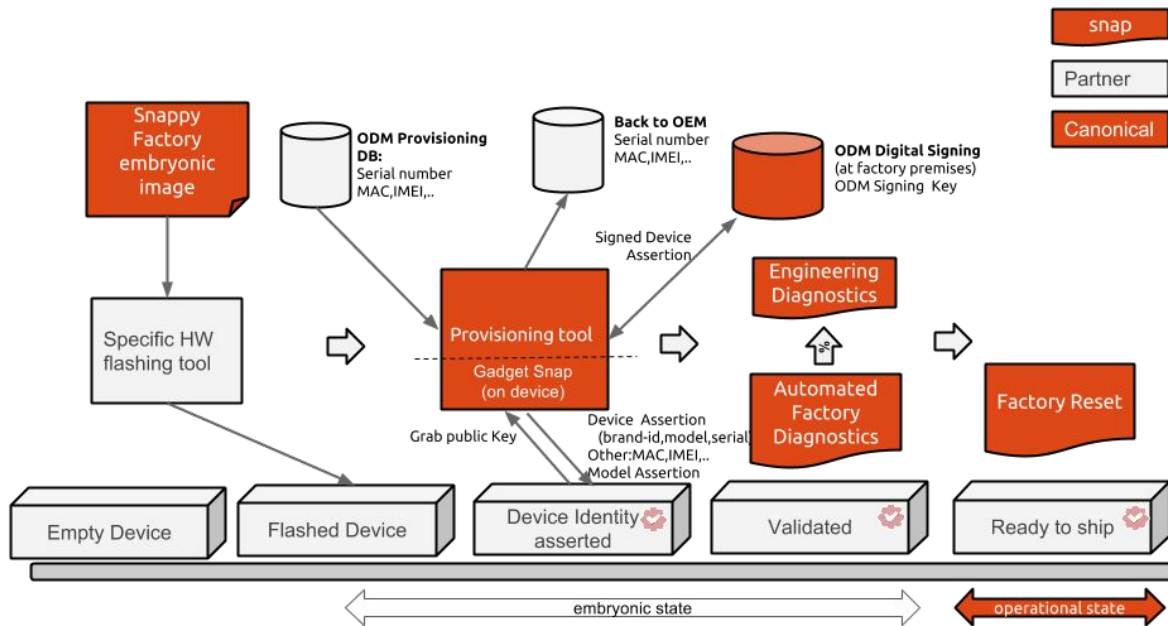


Snappy Ubuntu
Home Router Appliance w/ IoT

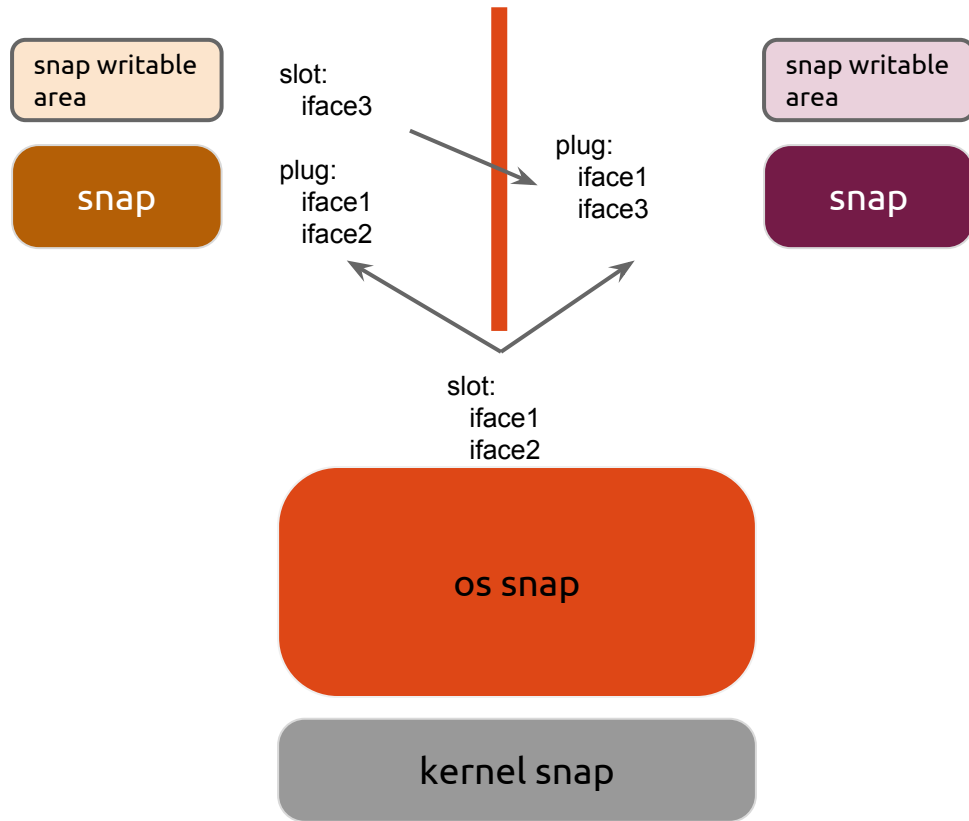


Snappy Factory Story

Another problem you don't need to solve...



Snappy Sandboxes & Interfaces



Ubuntu Core in the Cloud



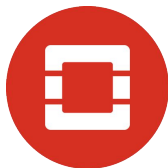
.....

Snappy images are in public clouds like AWS, Azure, and GCE



.....

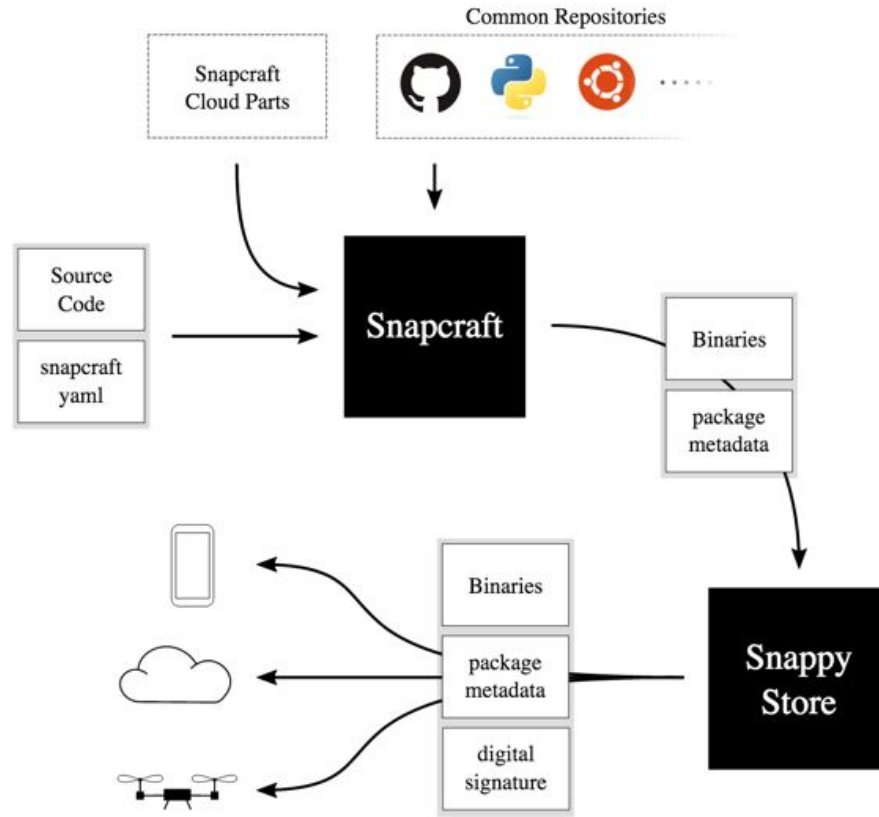
Vagrant and KVM images are ideal for rapid prototyping



.....

Snappy is available for private clouds

Snapcraft



Getting Started

<http://developer.ubuntu.com/en/snappy/start>

Docs:

<http://www.ubuntu.com/things>

<http://developer.ubuntu.com/snappy>

Github:

<http://www.github.com/ubuntu-core>

Mailing Lists:

snappy-devel@lists.ubuntu.com

snappy-app-devel@lists.ubuntu.com

IRC:

#snappy on irc.freenode.net



snappy

ubuntu.com/snappy

Backup

Minimum system requirements

Processor Architecture

x86 or ARMv7+ (Cortex-A7 single core)

Memory

256MB

Flash Storage

1GB storage

Available Connectivity types

WiFi, Ethernet, USB, BT4.0 BLE, ..