How to maintain a robot that outlives its support

Simple, Secure and Scalable Robotic Development

Rhys Davies

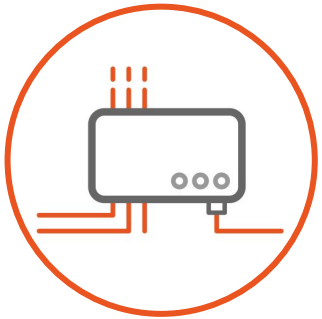
Product Manager

CANONICAL ubuntu

Our Battlegrounds

Public Cloud

Datacenter



Internet of Things & Robotics

Edge Cluster

The Ubuntu Robotics Vision

A World Where all Robots are Proactively Secured, Supported and Maintained

Let’s talk

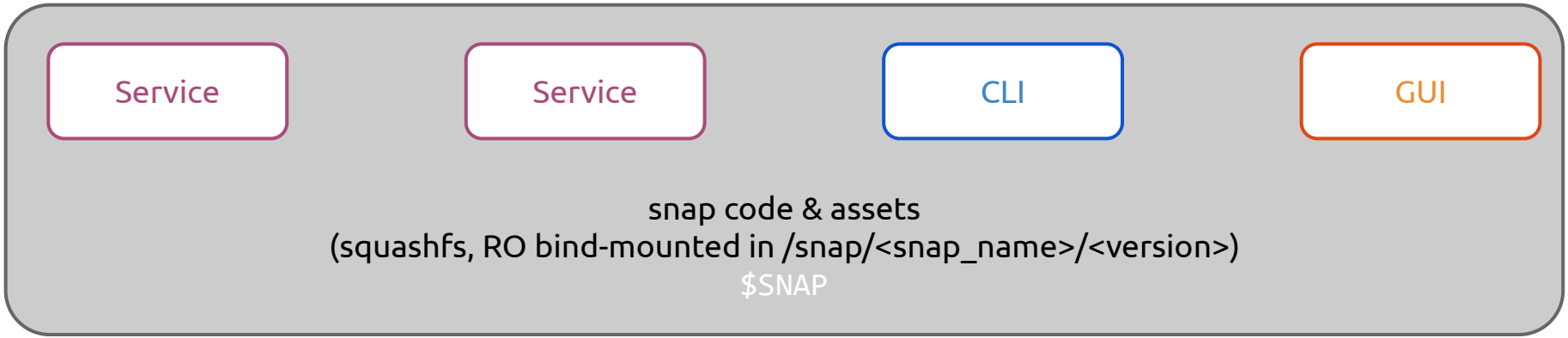
Snaps on Ubuntu Core

Continued Support for Python 2

Extended Support for ROS

Snaps, for those who don’t know, are ...

Snaps are containerised software packages for all Linux distributions.



Snaps and their Growing Momentum

Top deployment devices

Raspberry Pi

QUALCOMM

intel JOULE™

Key desktop snaps

Visual Studio

ATOM

DISCORD

Key IoT snaps

Microsoft Azure
IoT Platform

openHAB
empowering the smart home

amazon
web services™

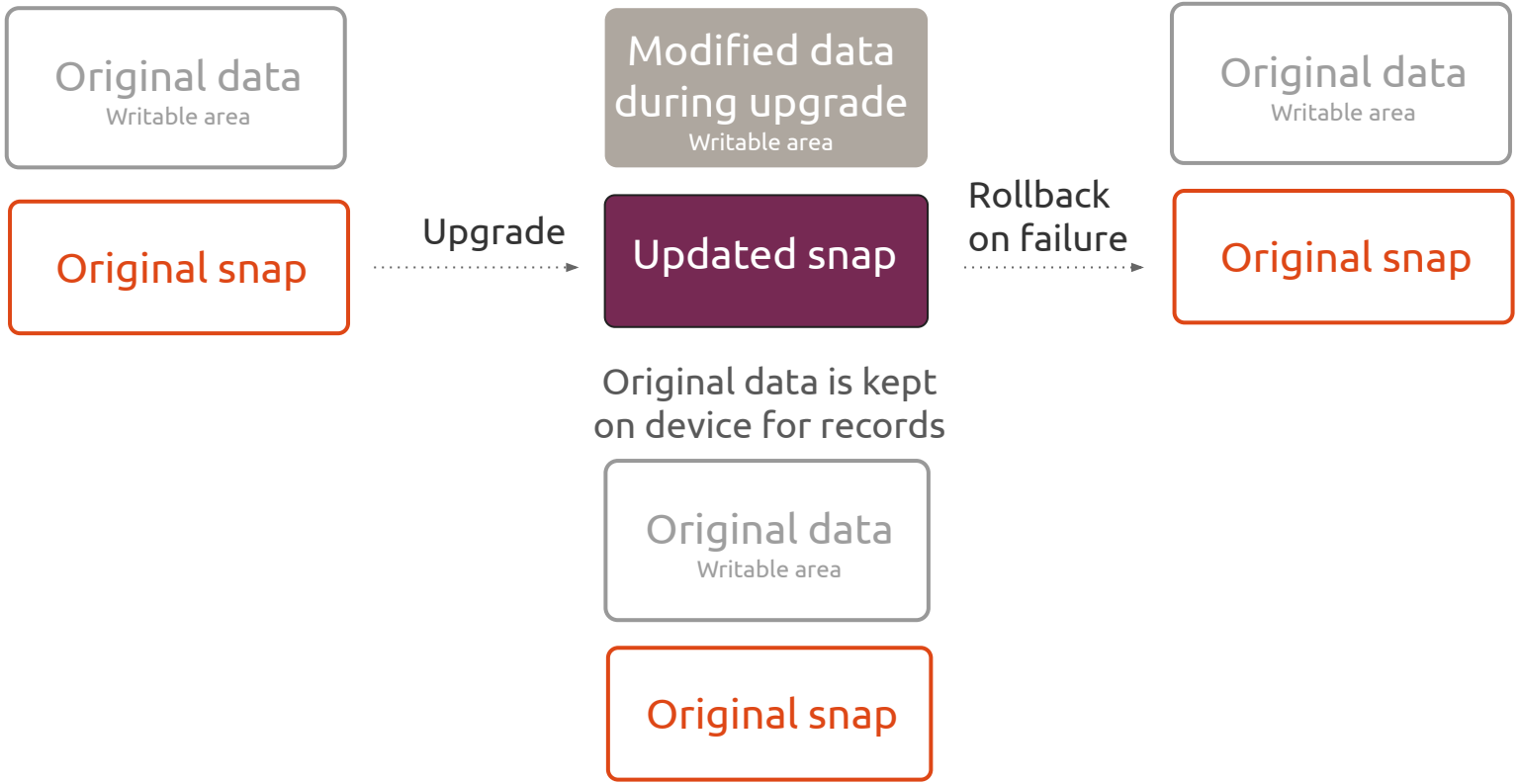
Key cloud snaps

docker

kubernetes

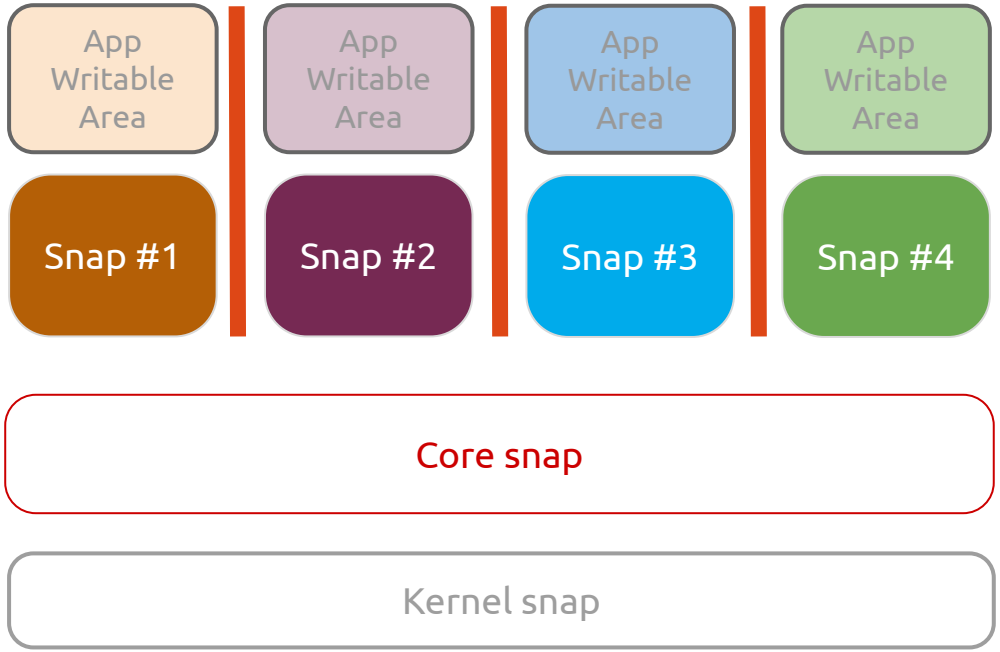
LXD

Transactional Updates for Apps, OS & Kernel



Snap Security

- Snaps are containerised, encrypted and automatically confined
- Snaps can still talk to each other and other systems through interfaces
- The user has completed control over their snaps
- The most secure environment for applications on Linux



What Snap Stores are

A Place for Collaboration

A Home for a Community of Support

Centres for Software Management

How Stores Are Useful

Security

Software Distribution and Deployment

Collaboration

Why They're Great

Community

Potential for Privatisation

Cross Language and Distro Compatible

The Continuation of Python 2

What is ESM for ROS?

Extended Security Maintenance

ROS

How ESM is Useful

ROS

Why ROS ESM is Great

- Maybe you hate change?
- Maybe you’re not quite ready to move to ROS 2
- Maybe you have robots out there still and the transition is just too painful

Outro

If you haven’t said hello already, come and say hi at the break, I’m new - Any questions?