

Ubuntu Server

The Cloud OS

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CANONICAL

Cloud

Grid computing Scalability
Multi-tenancy IaaS OPEX
Ubiquity Externalization
Pay-per-use Network
Internet MSP Virtualization
Green **Cloud** Salesforce
Self-service On-demand
Hosting Utility computing
Amazon Web Services SaaS
Google Apps Elastic
Cluster SOA
Storage Virtual servers

Cloud
is a buzzword

Remember...

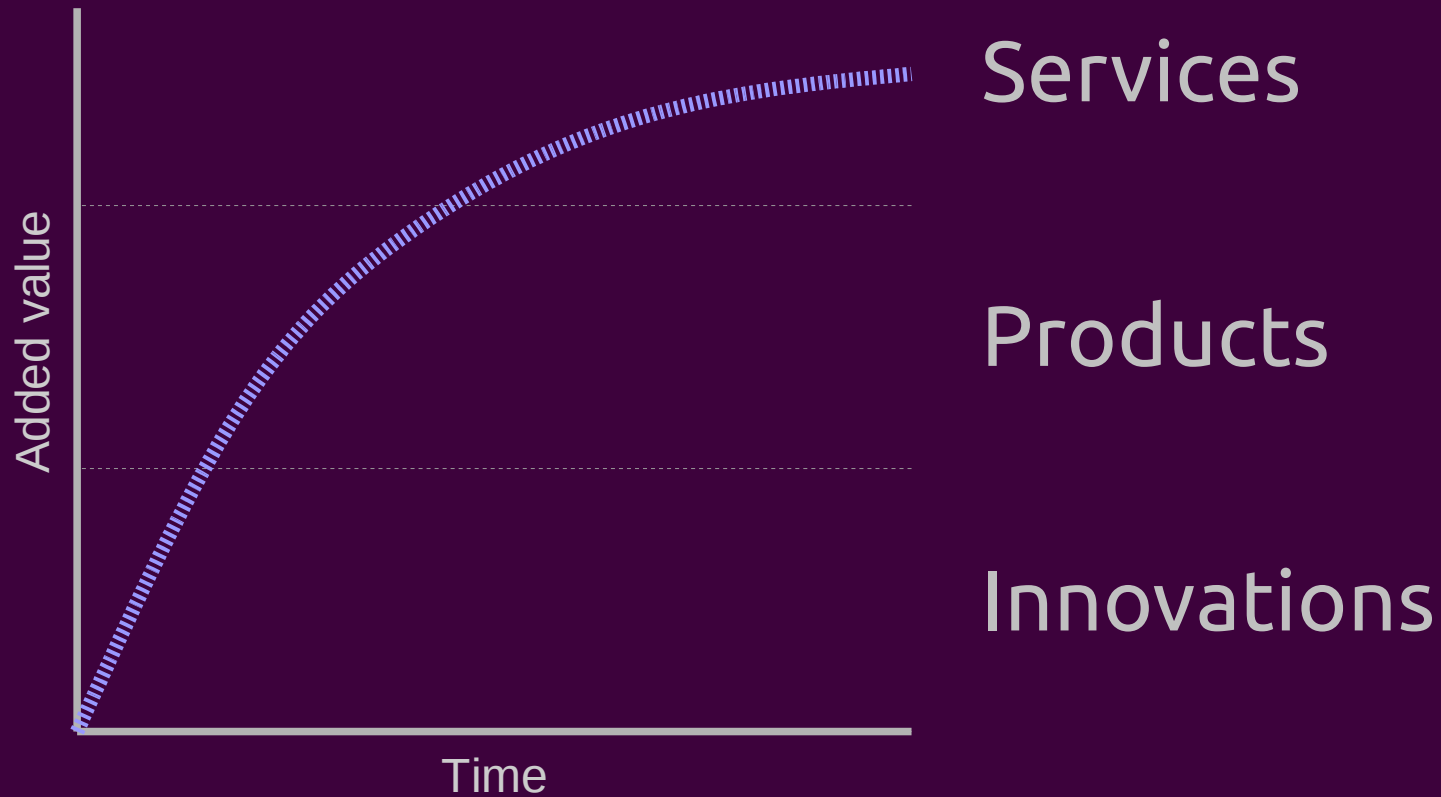
Web 2.0

Web 2.0
was a buzzword

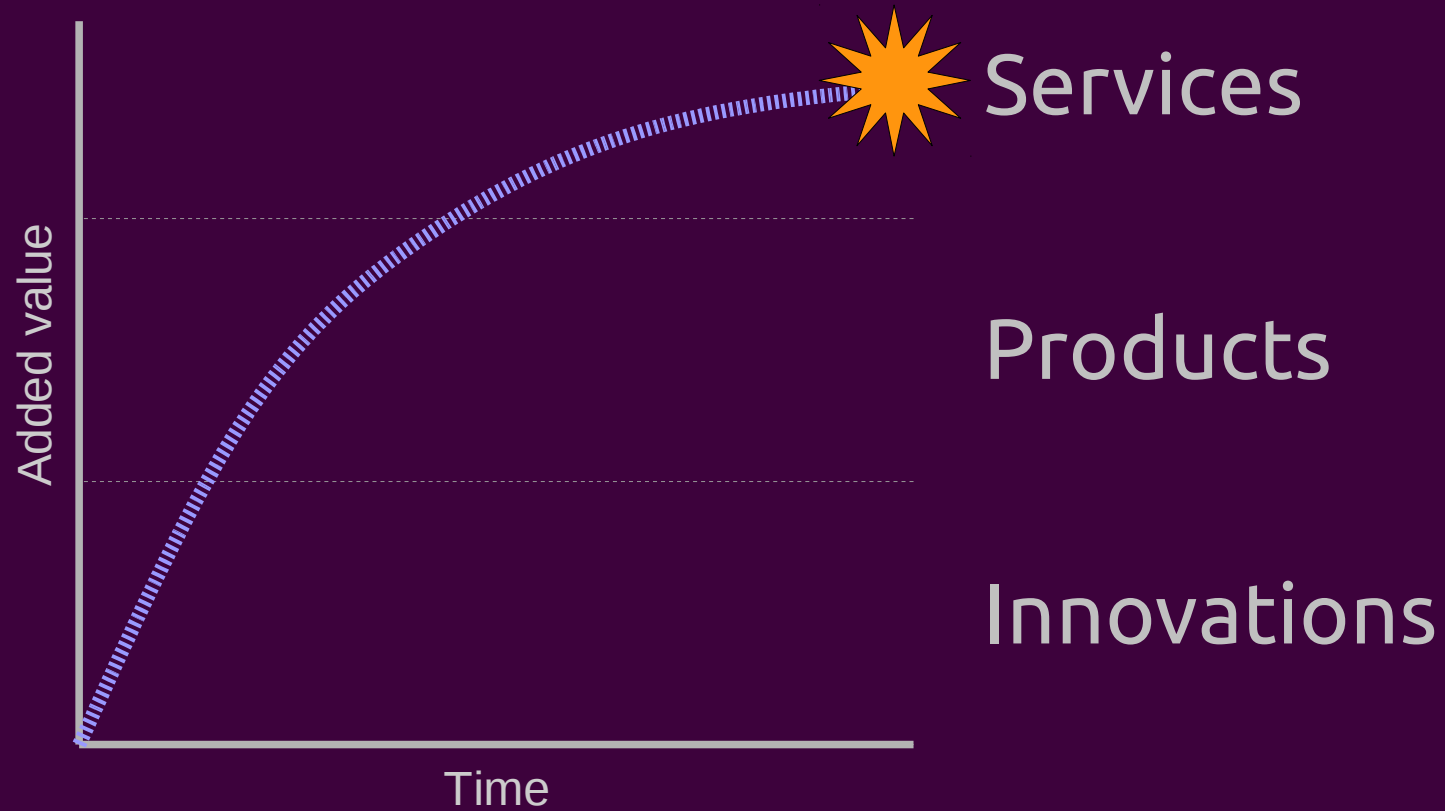
Web 2.0
was a transition

Cloud
is a transition

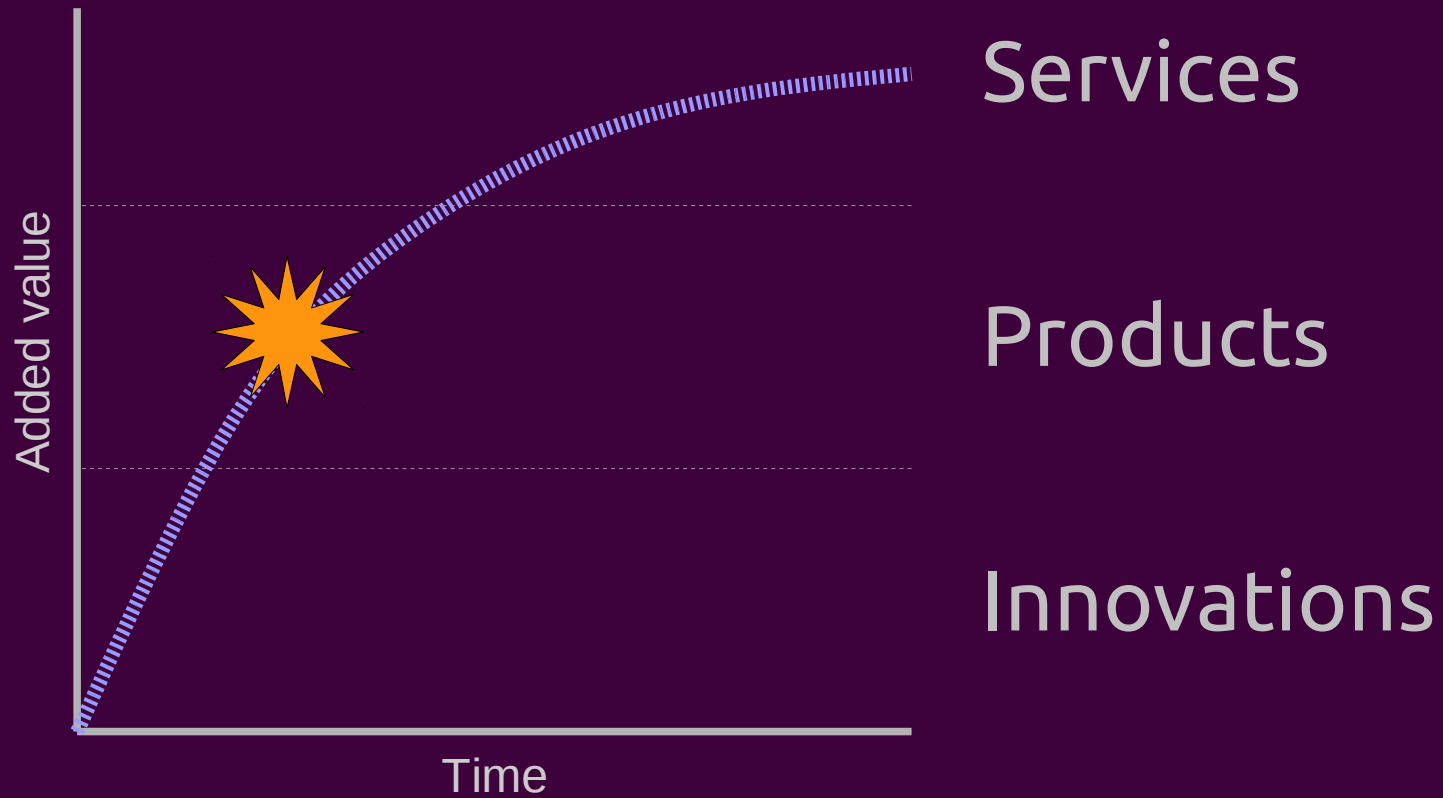
Technology transition



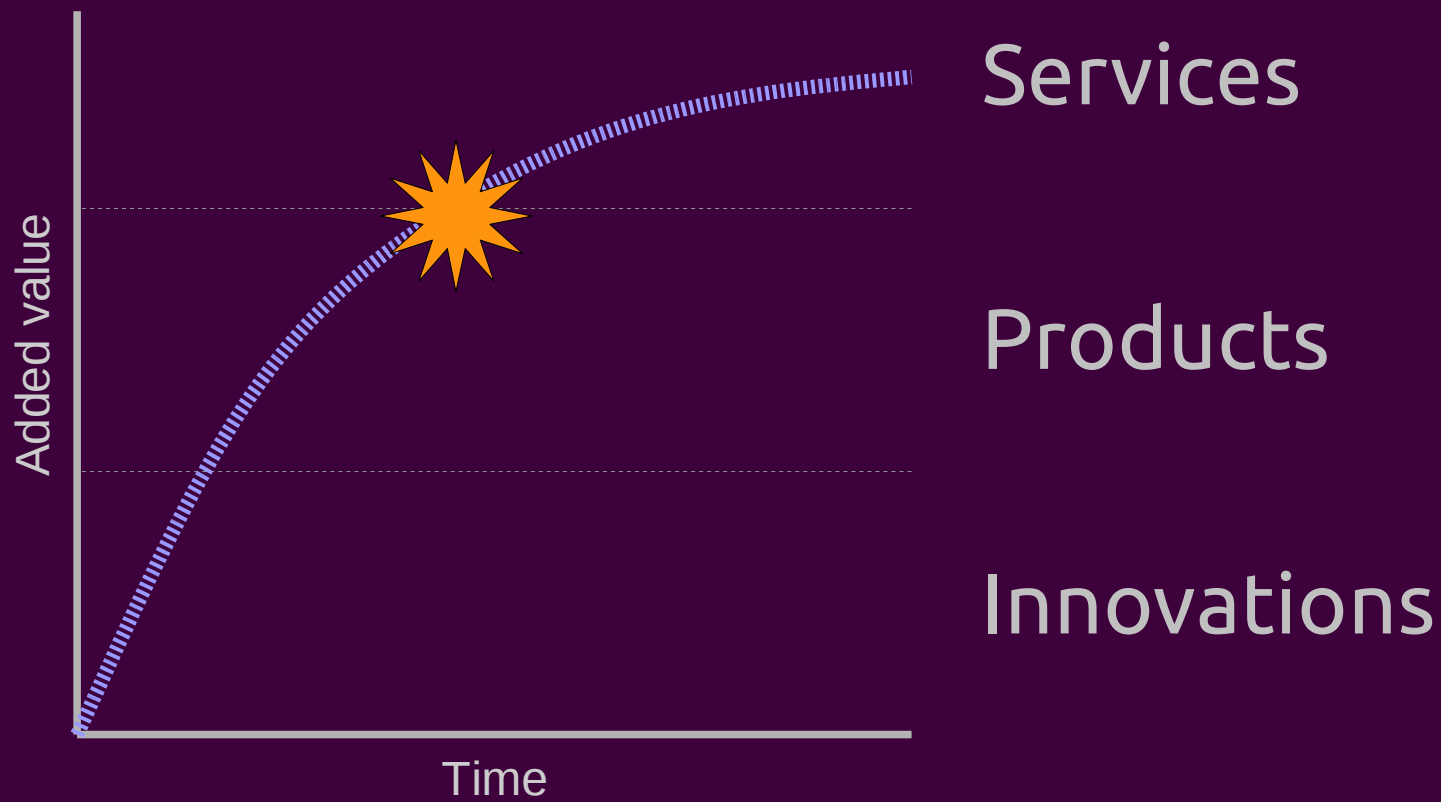
Electricity



Cars



IT



SaaS



Application



OS



Bare metal

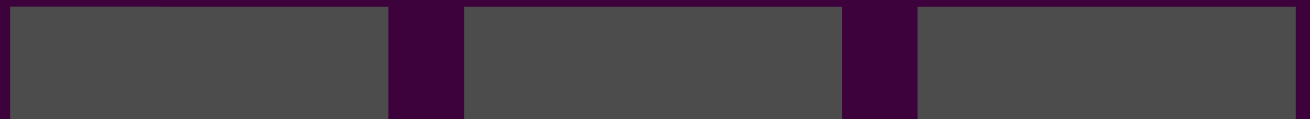
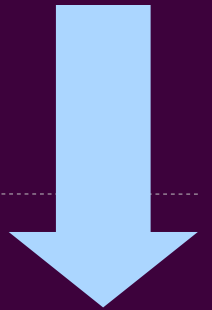


Traditional hosting

Application

OS

Bare metal



Traditional hosting

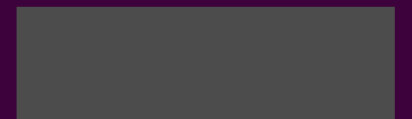
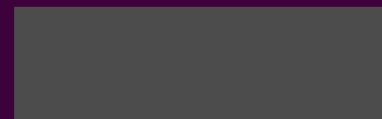
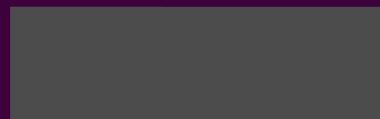
Application



OS



Bare metal



VPS hosting

Application

Guest OS

Host OS

Bare metal



VPS hosting



IaaS

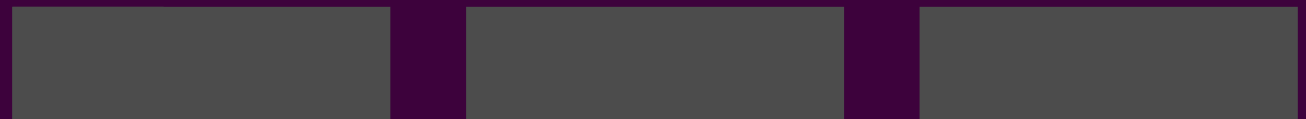
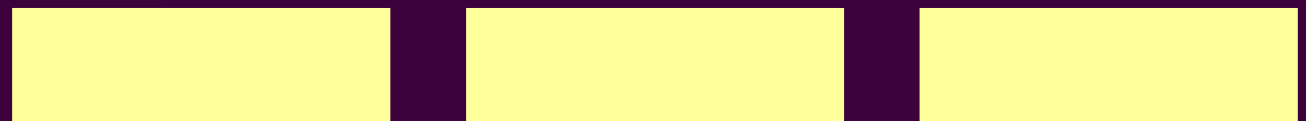
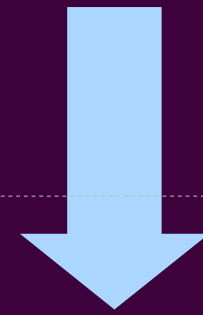
Application

Guest OS

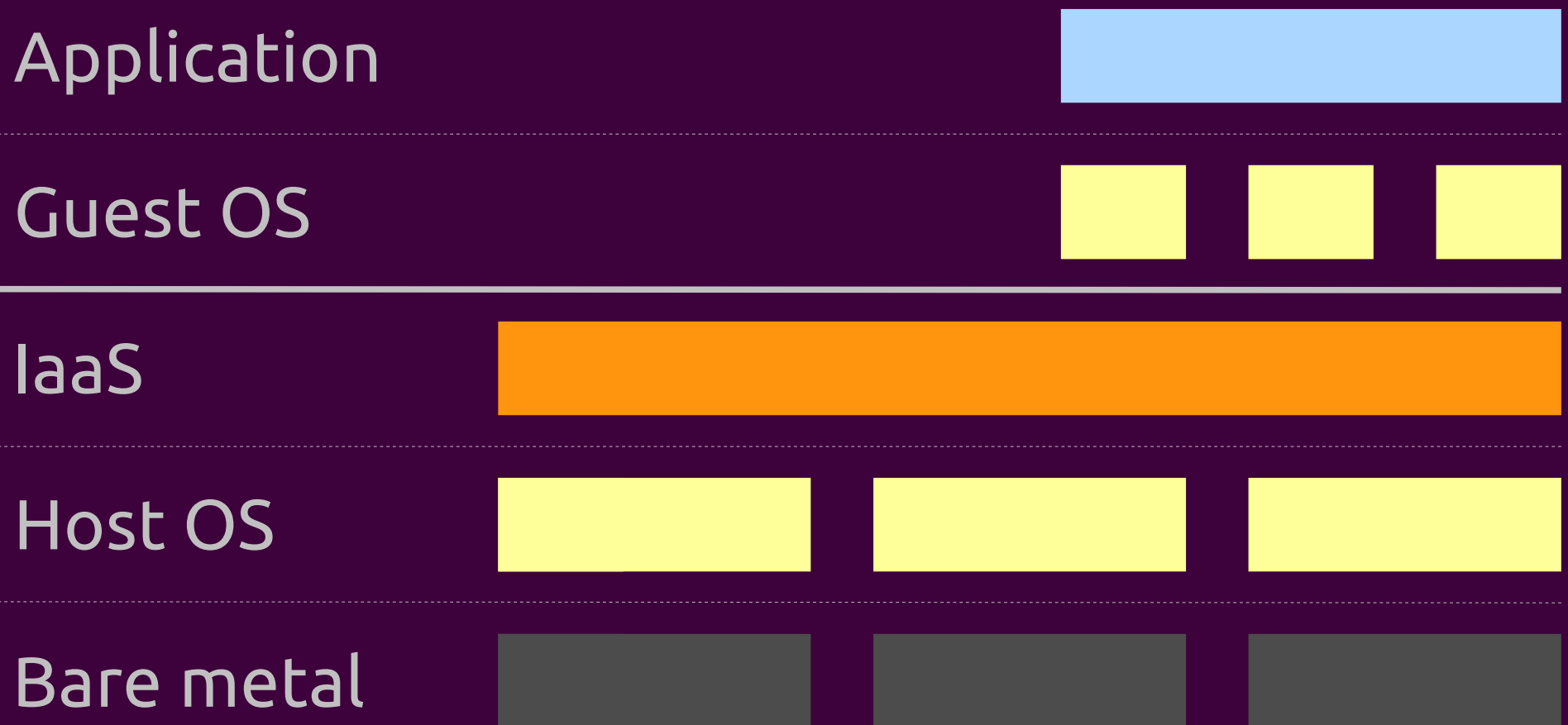
IaaS

Host OS

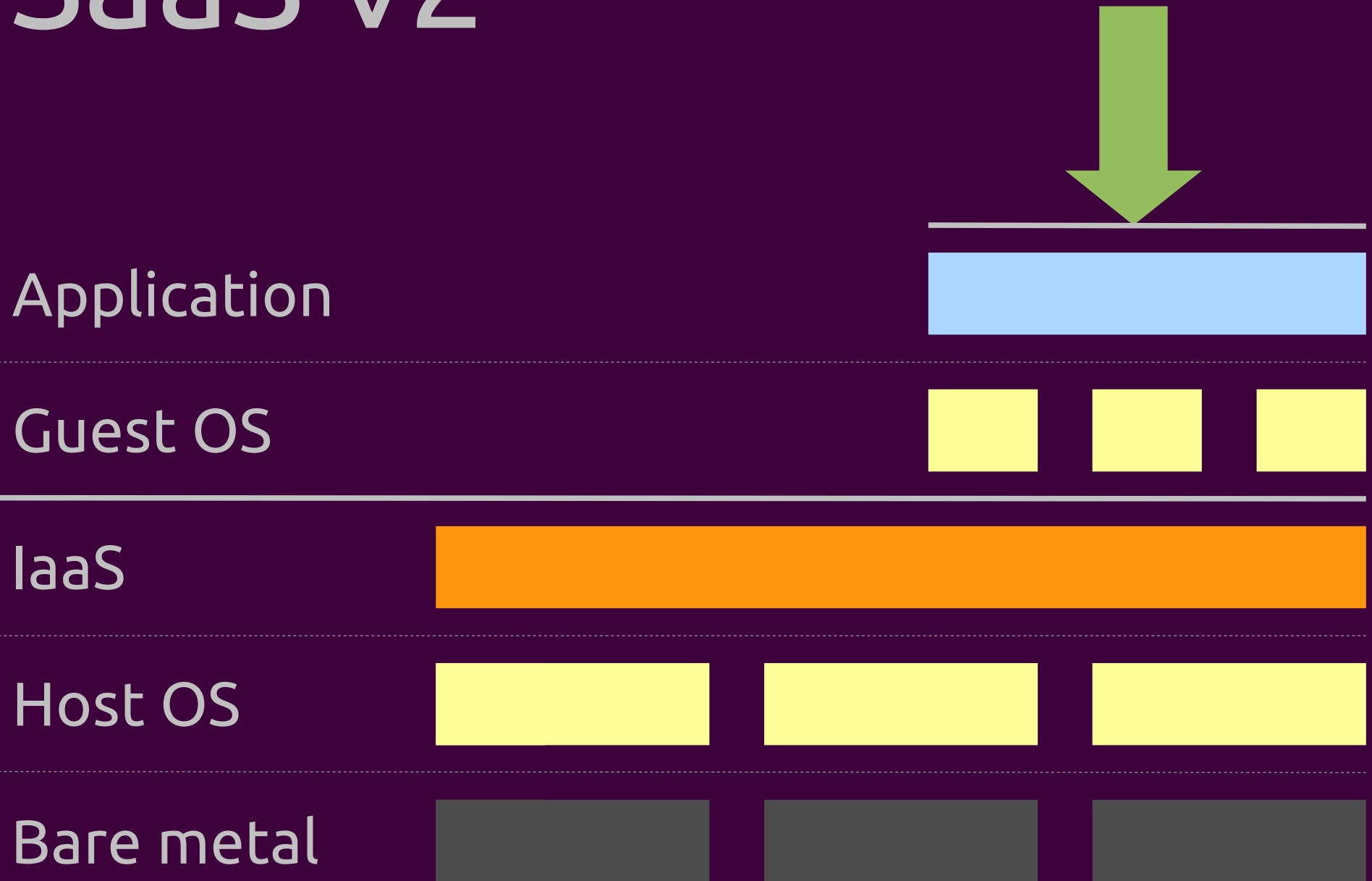
Bare metal



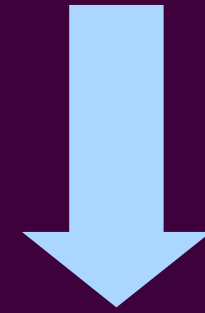
IaaS



SaaS v2



PaaS



Application

PaaS



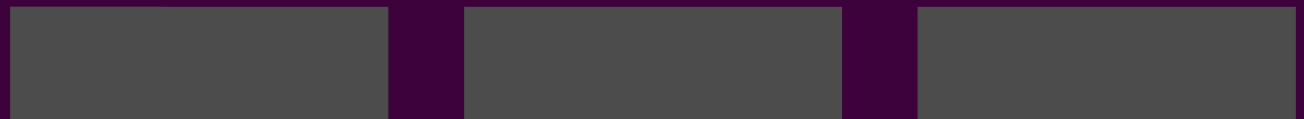
Guest OS



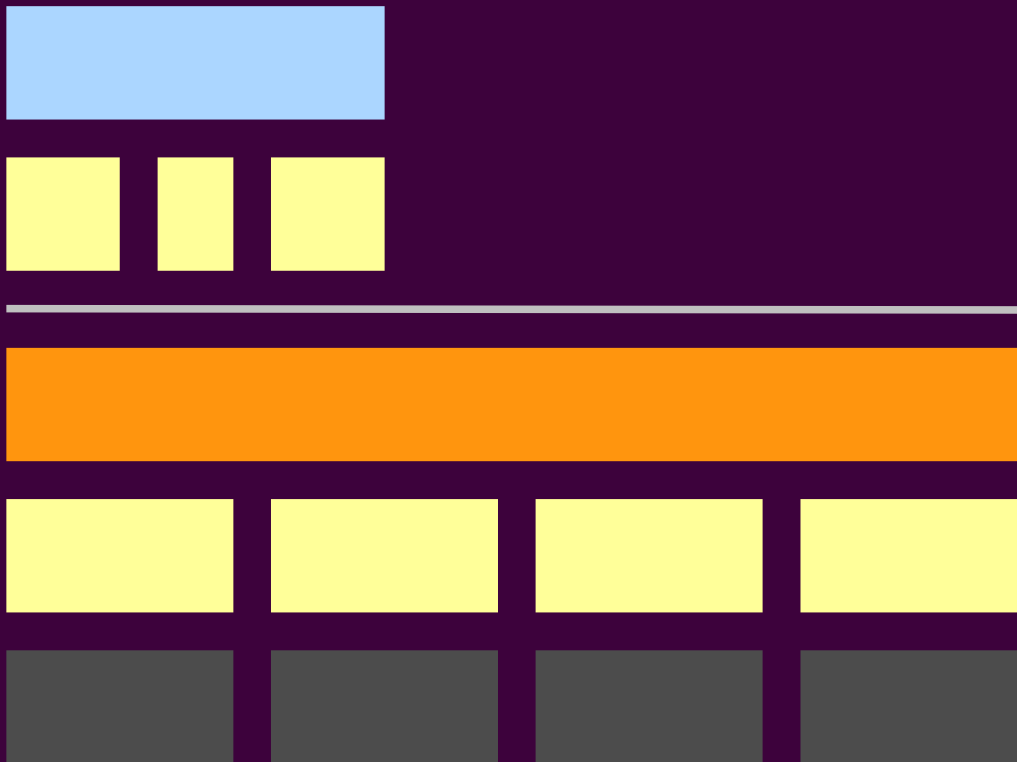
Host OS



Bare metal



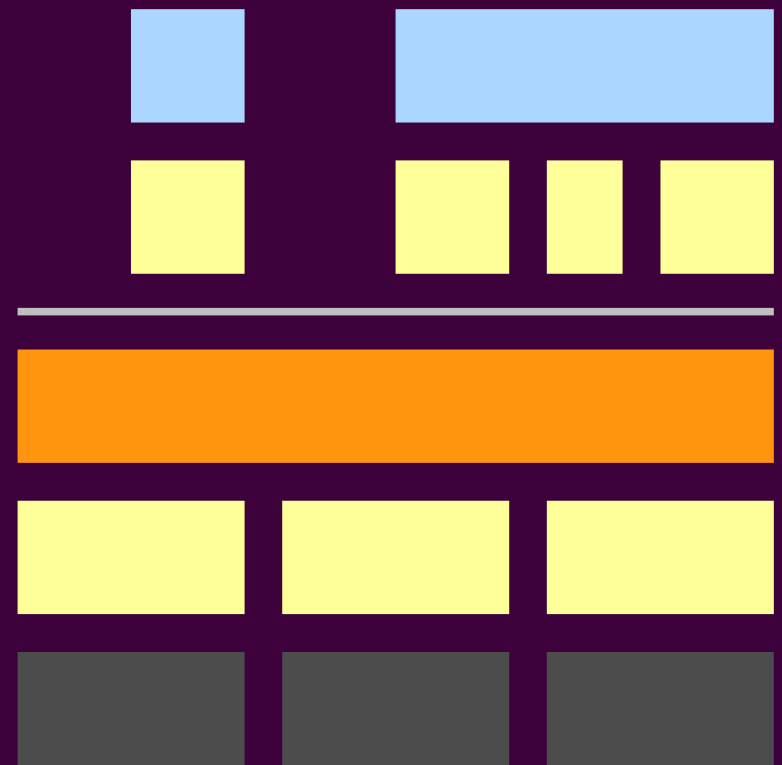
Public cloud



Somewhere on the net

Inside the firewall

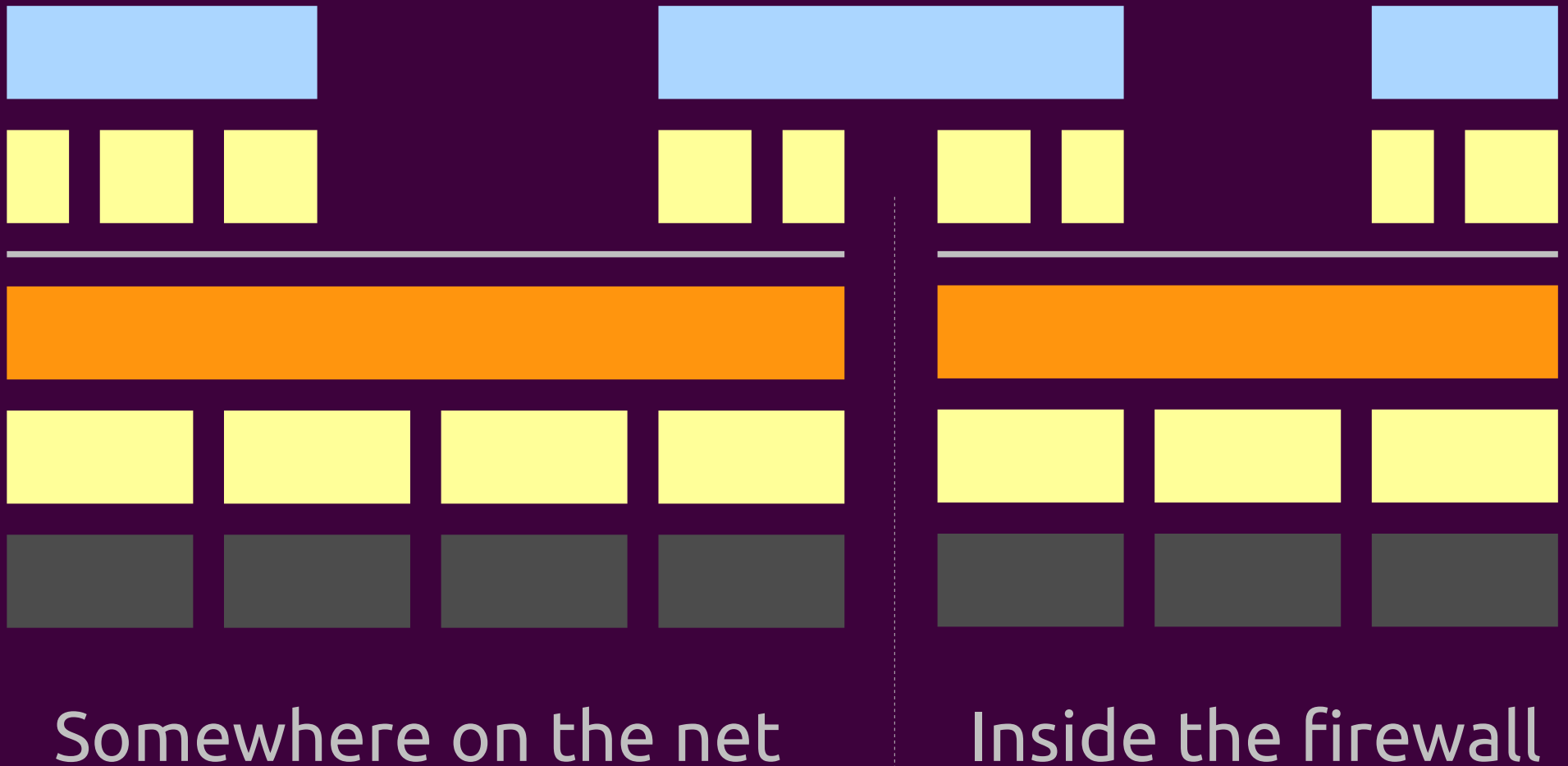
Private cloud



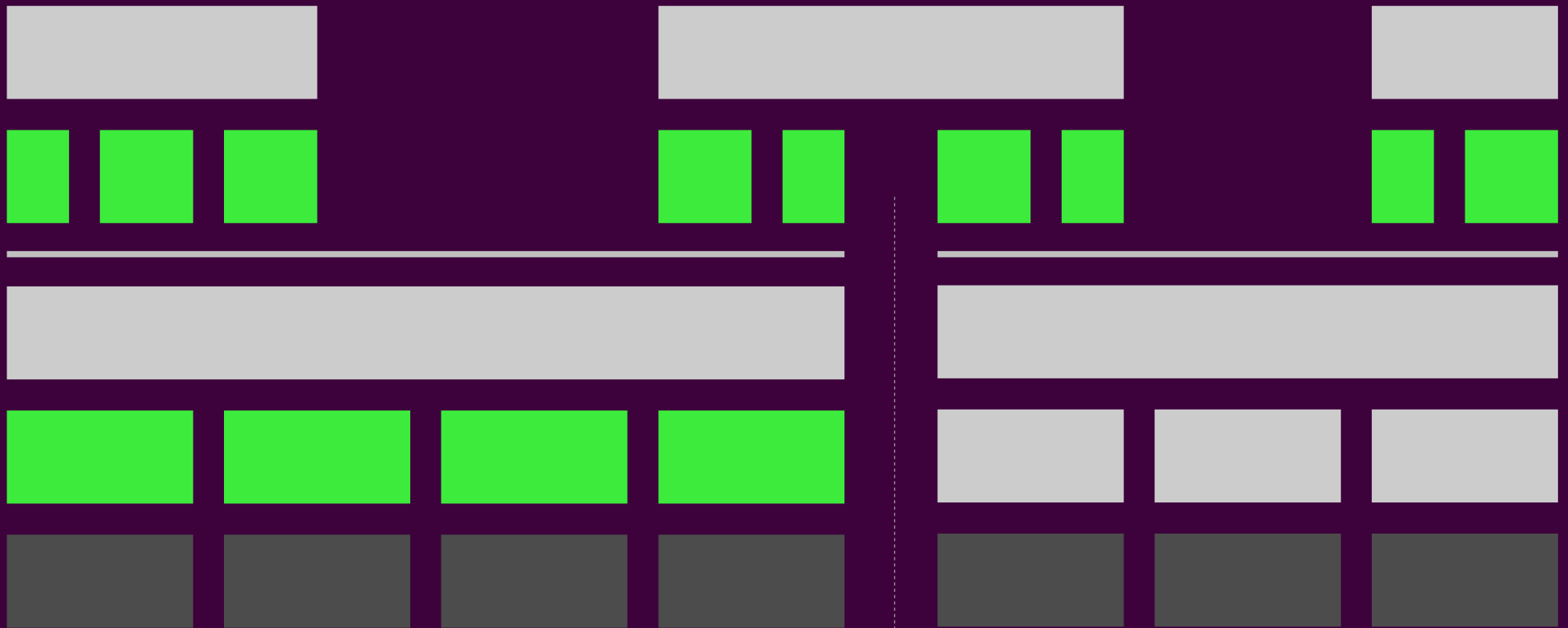
Somewhere on the net

Inside the firewall

Hybrid cloud



Open source today



Somewhere on the net

Inside the firewall

Why open source IaaS



Somewhere on the net

Inside the firewall

Why open source IaaS

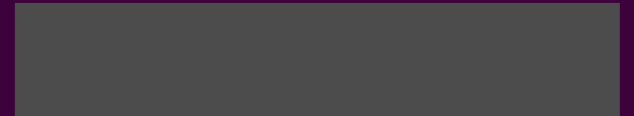


Where is
Ubuntu Server ?

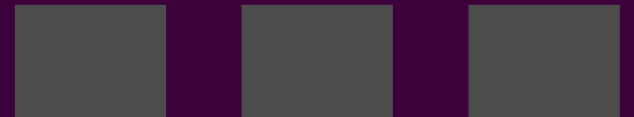
Ubuntu Server
accompanies the
transition

UEC

Application



Guest OS



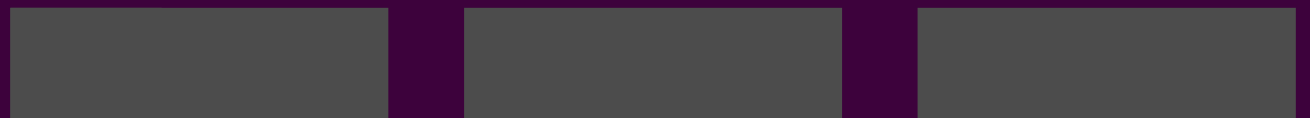
IaaS



Host OS

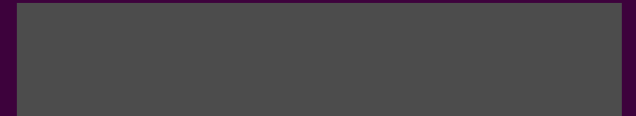


Bare metal



Cloud images

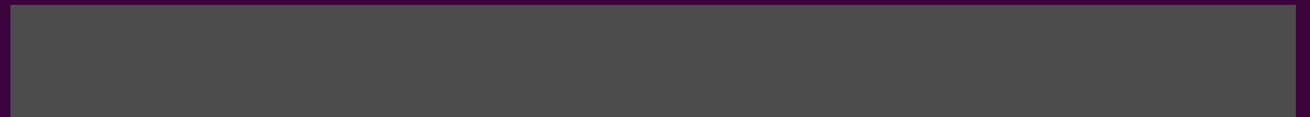
Application



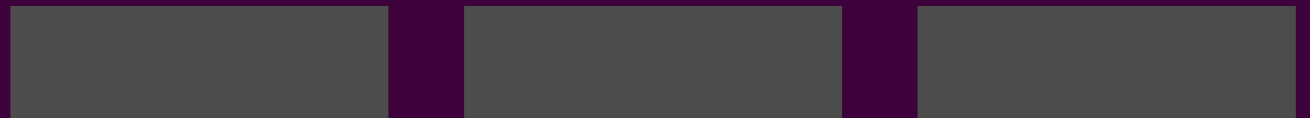
Guest OS



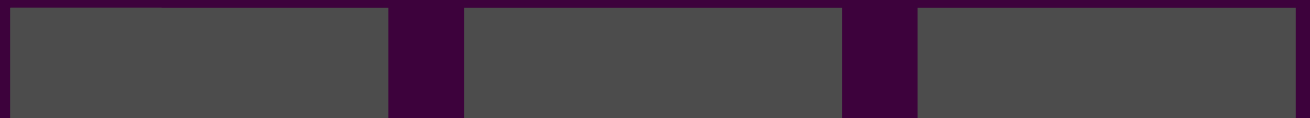
IaaS



Host OS



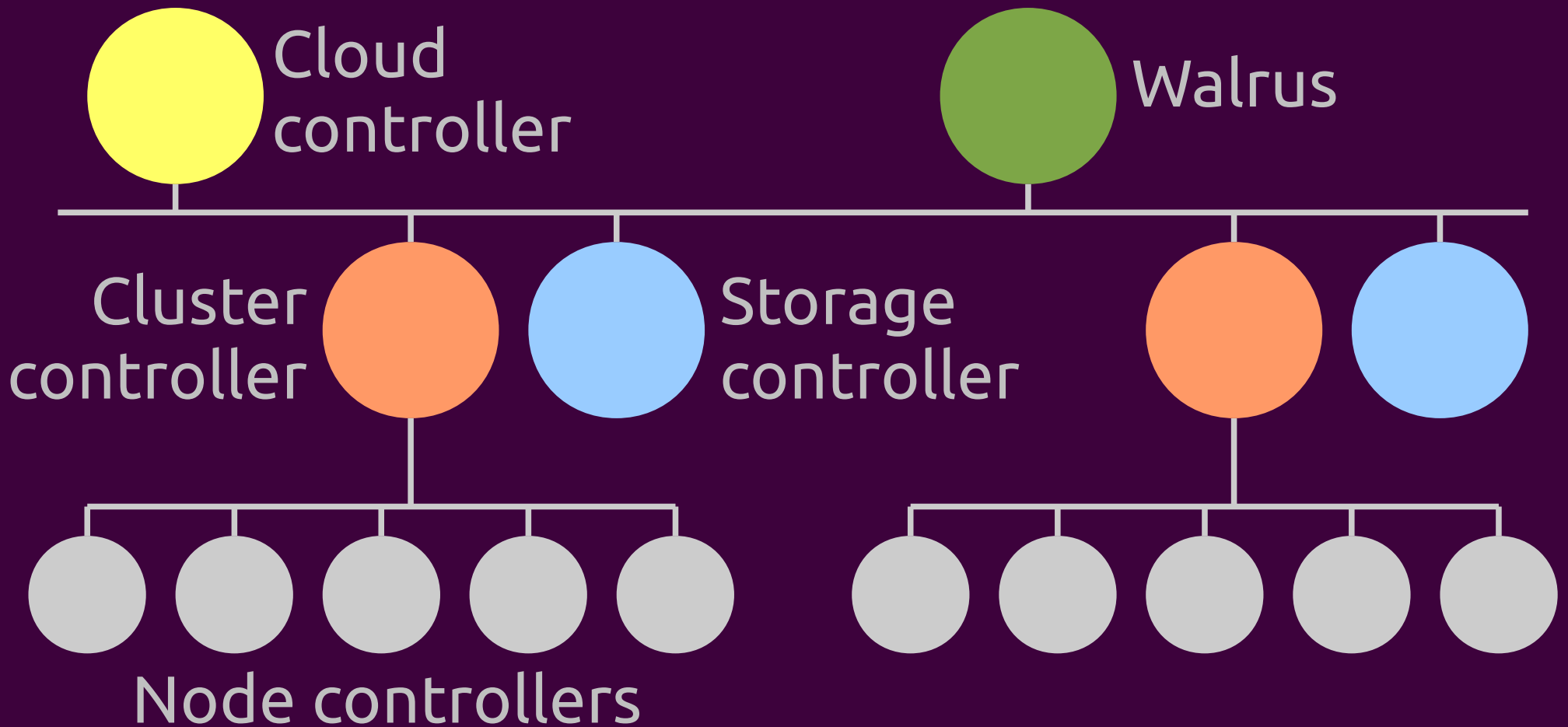
Bare metal



Ubuntu

Enterprise Cloud

Eucalyptus



UEC : making cloud **easy**

- Installer integration
- Auto-registration
- Power management
- Image store

Ubuntu Server cloud images

Ubuntu Server : **flexible** guest OS

- Official cloud images
- Free as in speech & as in beer
- Daily development builds
- Boot-time customization

- Look up AMIs on :

<http://uec-images.ubuntu.com/>

- Start using :

```
ec2-run-instances ami-a908e7c0 \  
  --key yourkey \  
  --user-data-file=config.txt
```

```
#cloud-config
apt_upgrade: true
apt_sources:
- source: "ppa:smoser/ppa"

packages:
- build-essential
- pastebinit

runcmd:
- echo === Uptime in seconds ===
- cut -d\  -f 1 < /proc/uptime
```

config.txt

cloud-init parts

- `#cloud-config`
- `#include`
- `#upstart-job`
- `#part-handler (NEW!)`
- `#!/bin/sh`

#cloud-config

- YAML format
- APT configuration
- Packages to install, seeded
- SSH keys
- mount:
- puppet:

Maverick (10.10.10) : for cloud workloads

- Cloud datastores (Cassandra)
- Load balancing
- Terracotta clustered stack
- Hadoop family

Questions and Answers

Thanks !

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<http://fnords.wordpress.com>