

# AGL VirtIO Demo

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## Introduction

### Who Am I

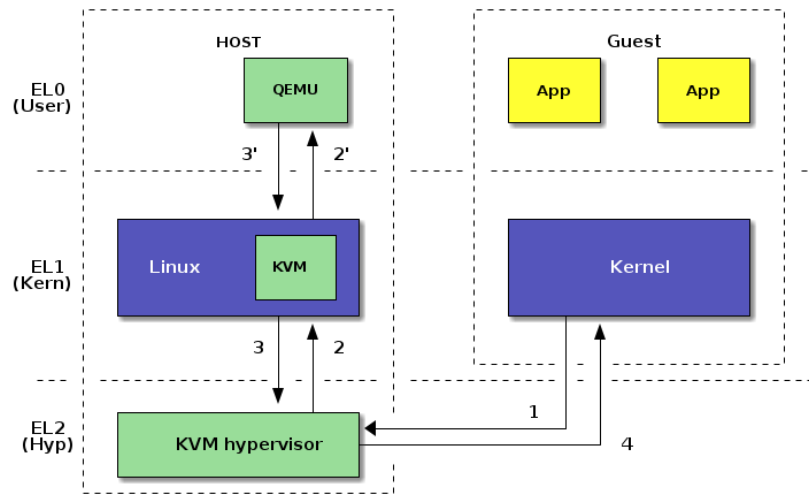
- Alex Bennée
- Senior Virtualisation Engineer @ Linaro
- Project Stratos Tech Lead
- IRC: stsquad/ajb-linaro

### Project Stratos

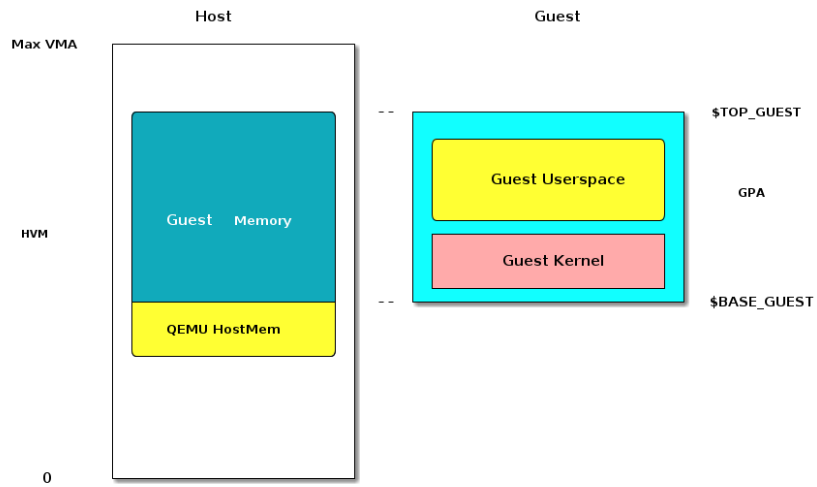
- High Performance VirtIO interfaces
- VMMs with safety islands
- Boot Orchestration
- Written standards for hypervisor portability

# VirtIO Backends

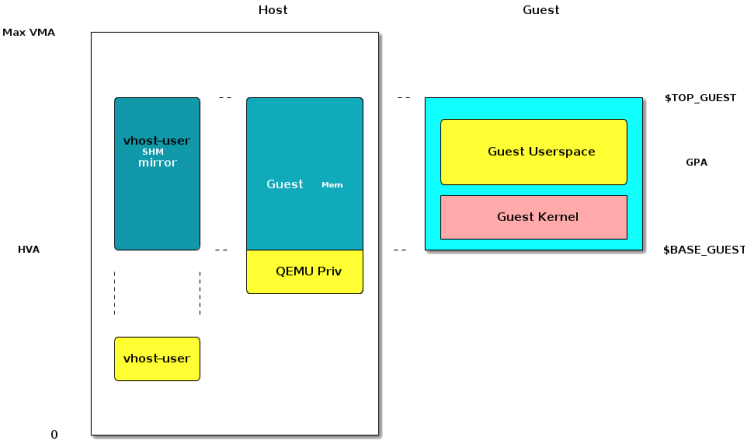
## Traditional KVM Data Flow



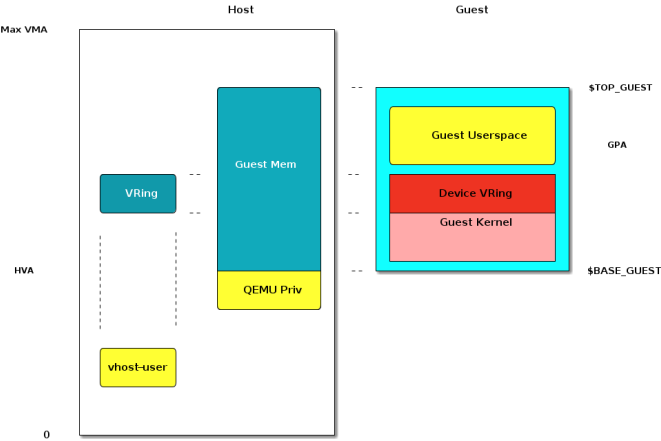
## QEMU Memory Layout



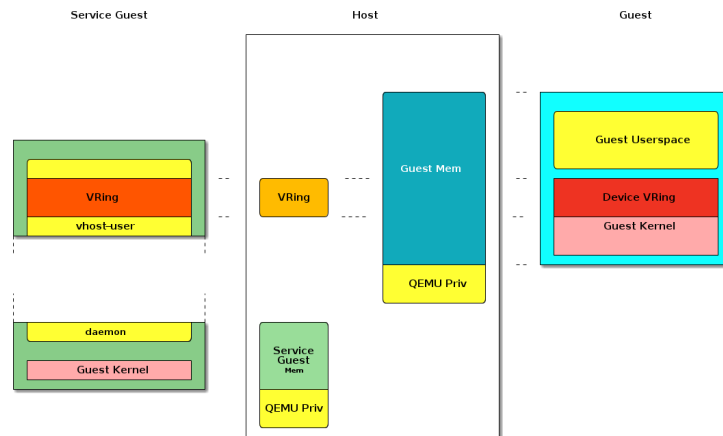
# vhost-user memory layout



# Isolating Virtio Rings



## Isolating Backends



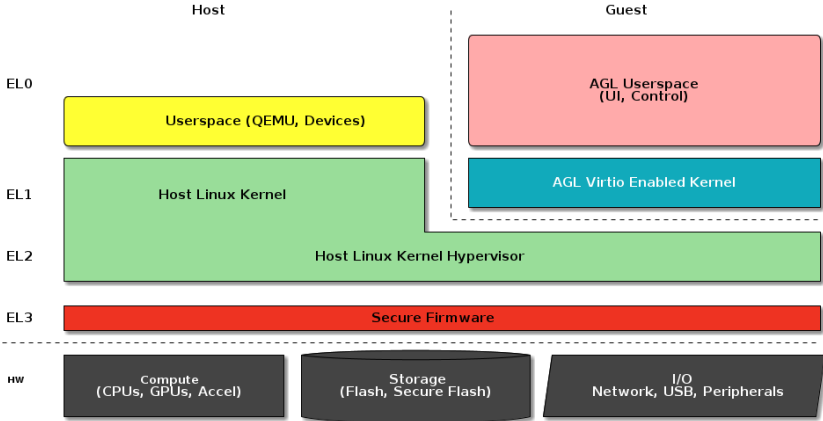
## Demo Setup

- AGL Linux as a KVM Guest
- AGL Linux as a Xen DomU Guest

## Hardware

- Socionext Developer Box (SynQuacer)
  - 24xA53 cores, 16GB RAM
- Armas 8040 MacchiatoBin
  - 4xA72 cores, 16Gb RAM

# KVM Deployment



# Xen Deployment

