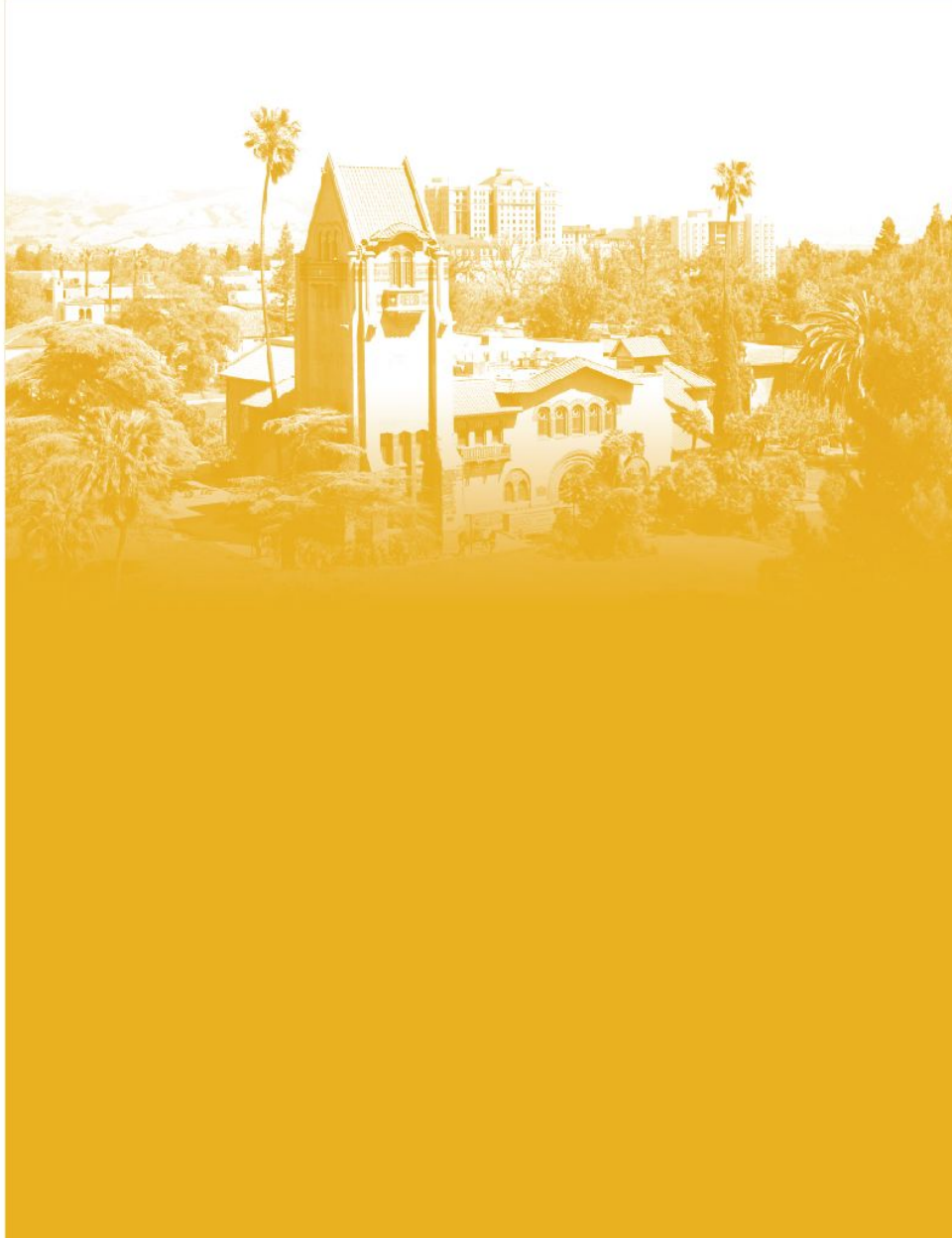**SJSU** SAN JOSÉ STATE UNIVERSITY

Group 5:

1. Pooja
2. Tran Pham
3. Amit
4. Monika
5. Prajakta
6. Anvit
7. Sneha
8. Mohamad

CMPE 283 - Virtualization
VStack Project

Agenda

- Introduction

- Design Concept

- Implementation & Technologies

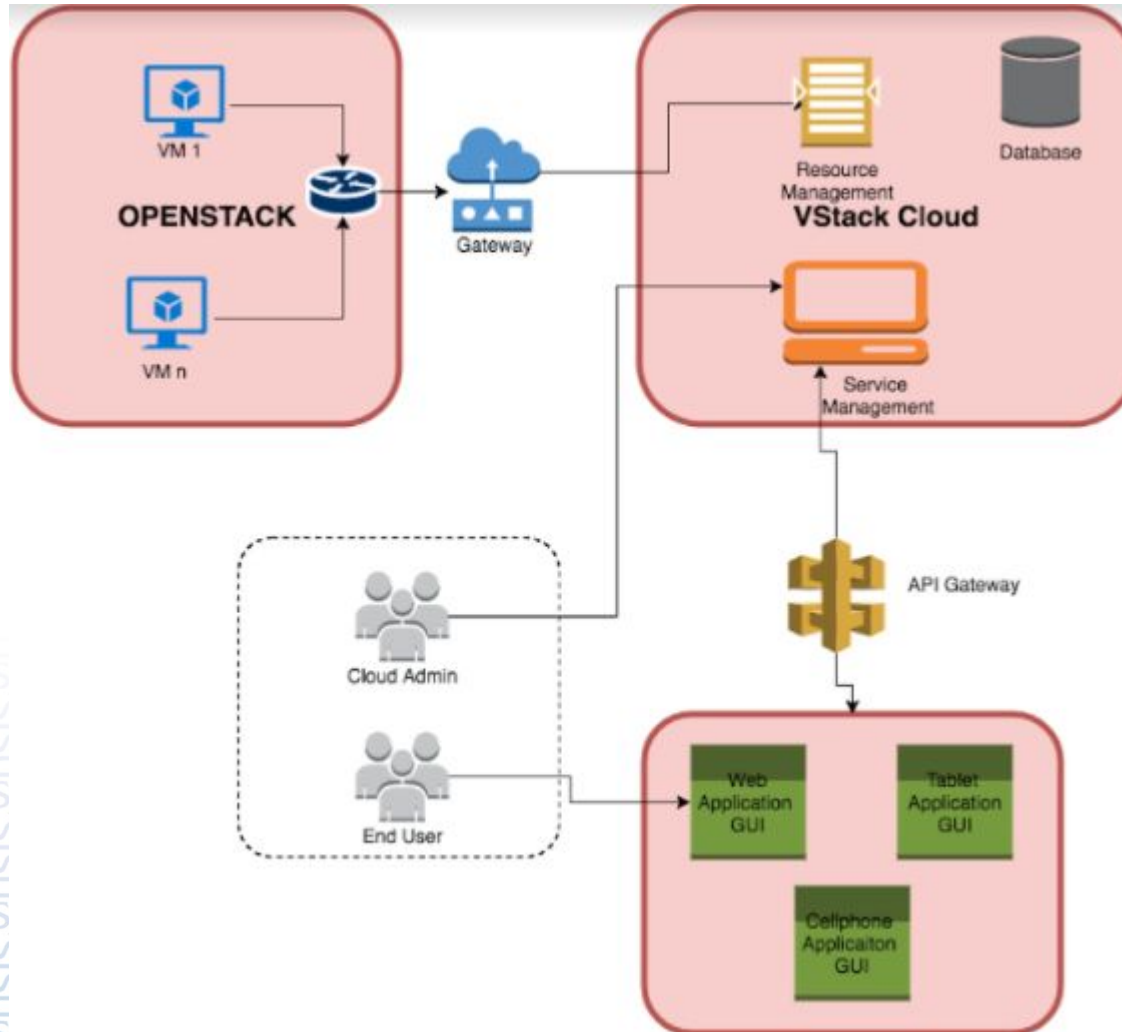- Issues, challenges and solutions

- Demo

Introduction

- Built on top of OpenStack

- Setup Web application platform.

- 1-click install
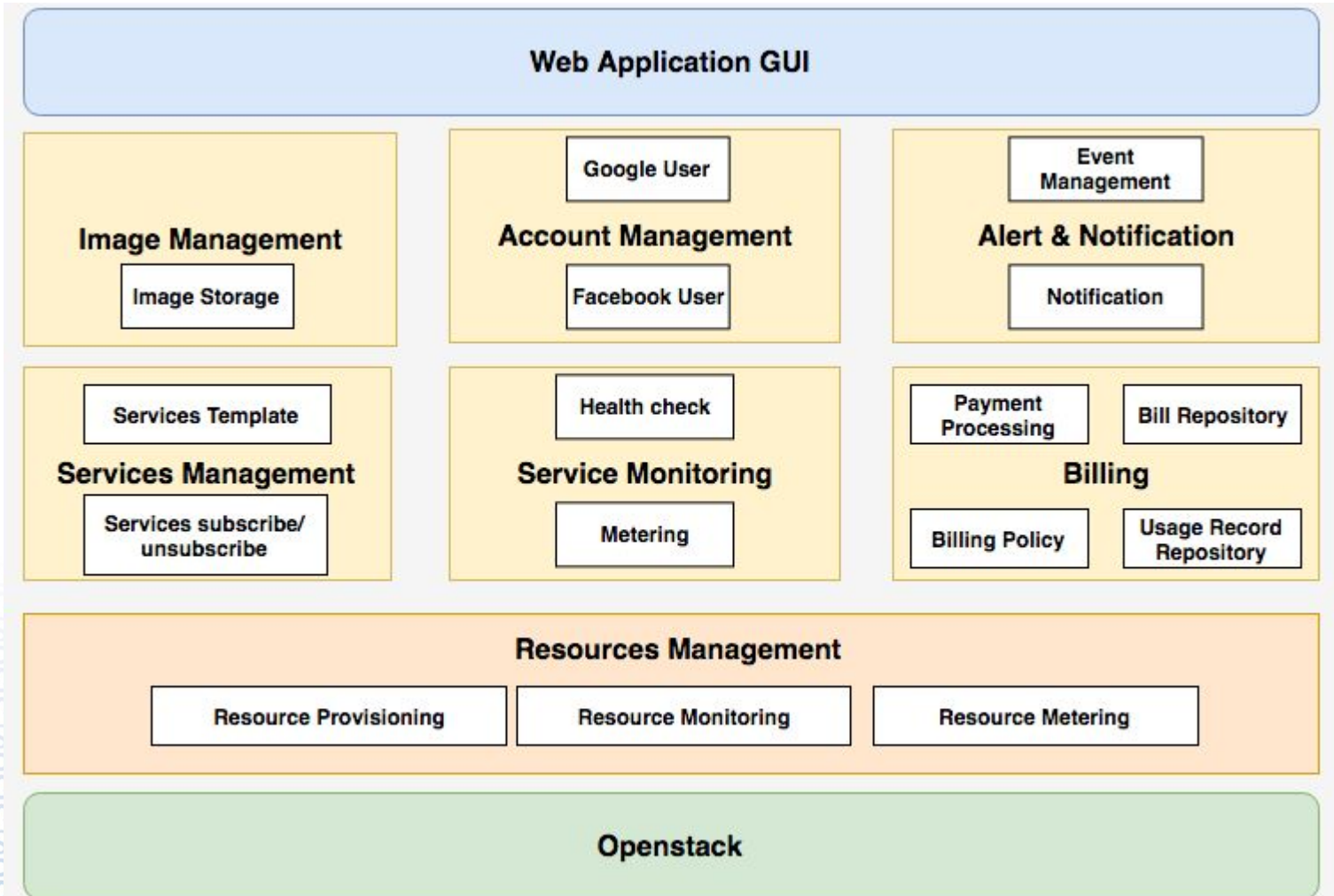
- Extensible service templates

VStack - What does it do?

- Service provisioning

- Service health check
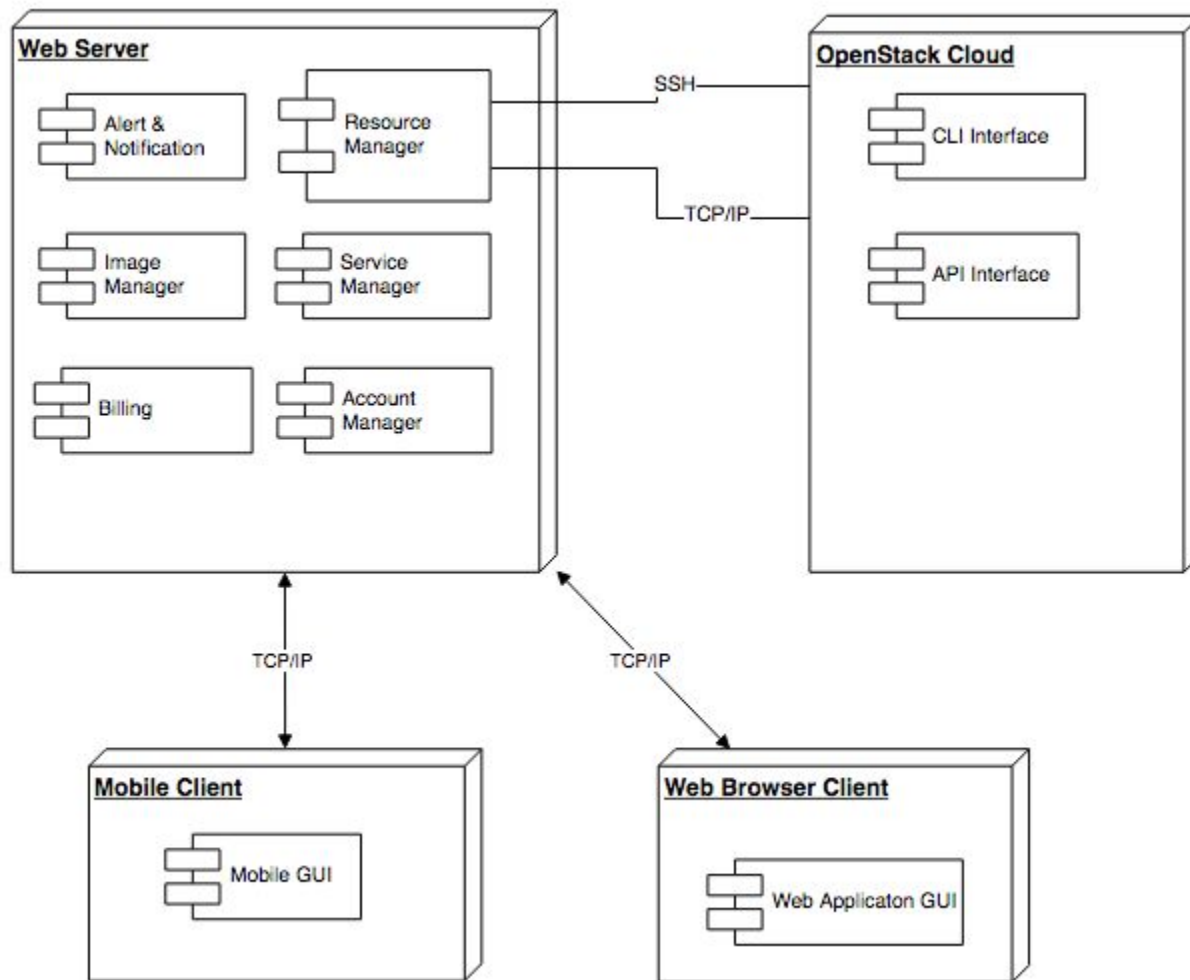
- Service metering and billing
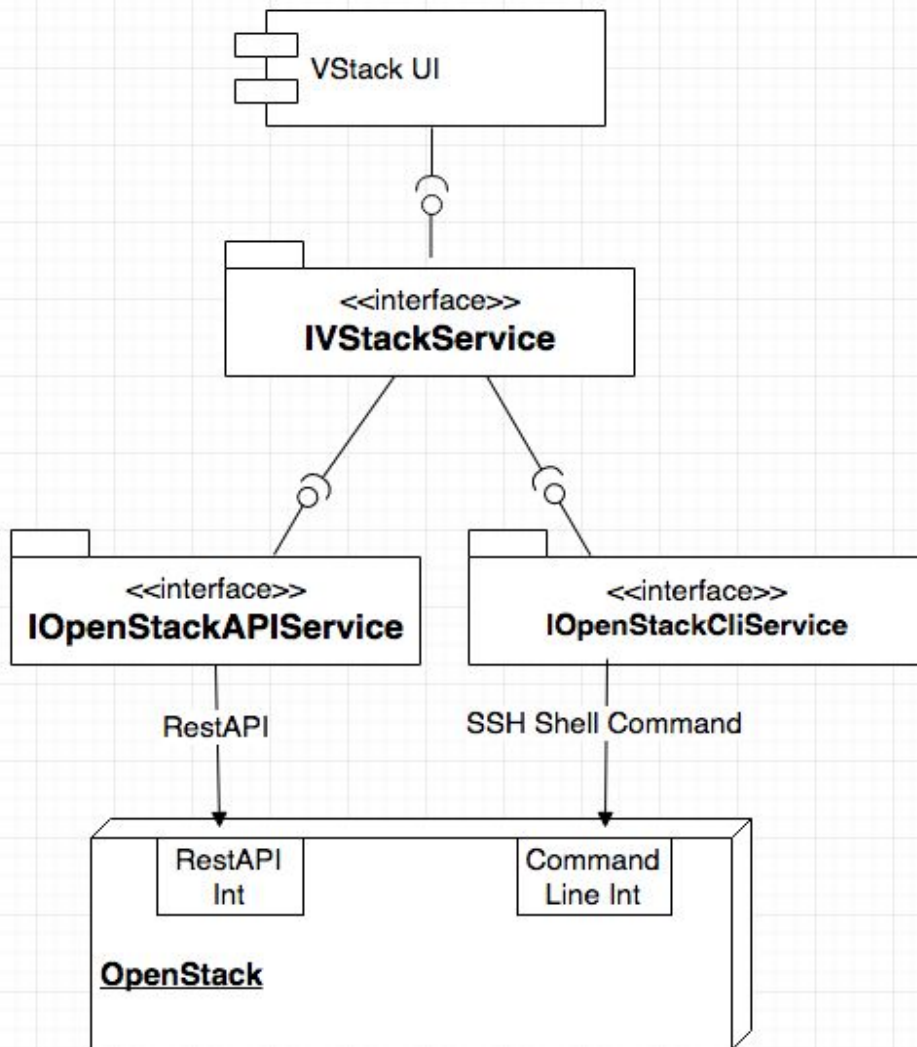
- SSO

Infrastructure Design

System Component Design

Deployment Design

Web Server

- Alert & Notification
- Resource Manager
- Image Manager
- Service Manager
- Billing
- Account Manager

OpenStack Cloud

- CLI Interface
- API Interface

SSH

TCP/IP

TCP/IP

TCP/IP

Mobile Client

- Mobile GUI

Web Browser Client

- Web Applicaton GUI

Component Design

Implementation

- Project requirement analysis

- Project Planning

- Project Development

- Project Testing

Issues, challenges and solutions

Issues & Challenges:

- Hardware limitation to run Openstack
- Networking issues
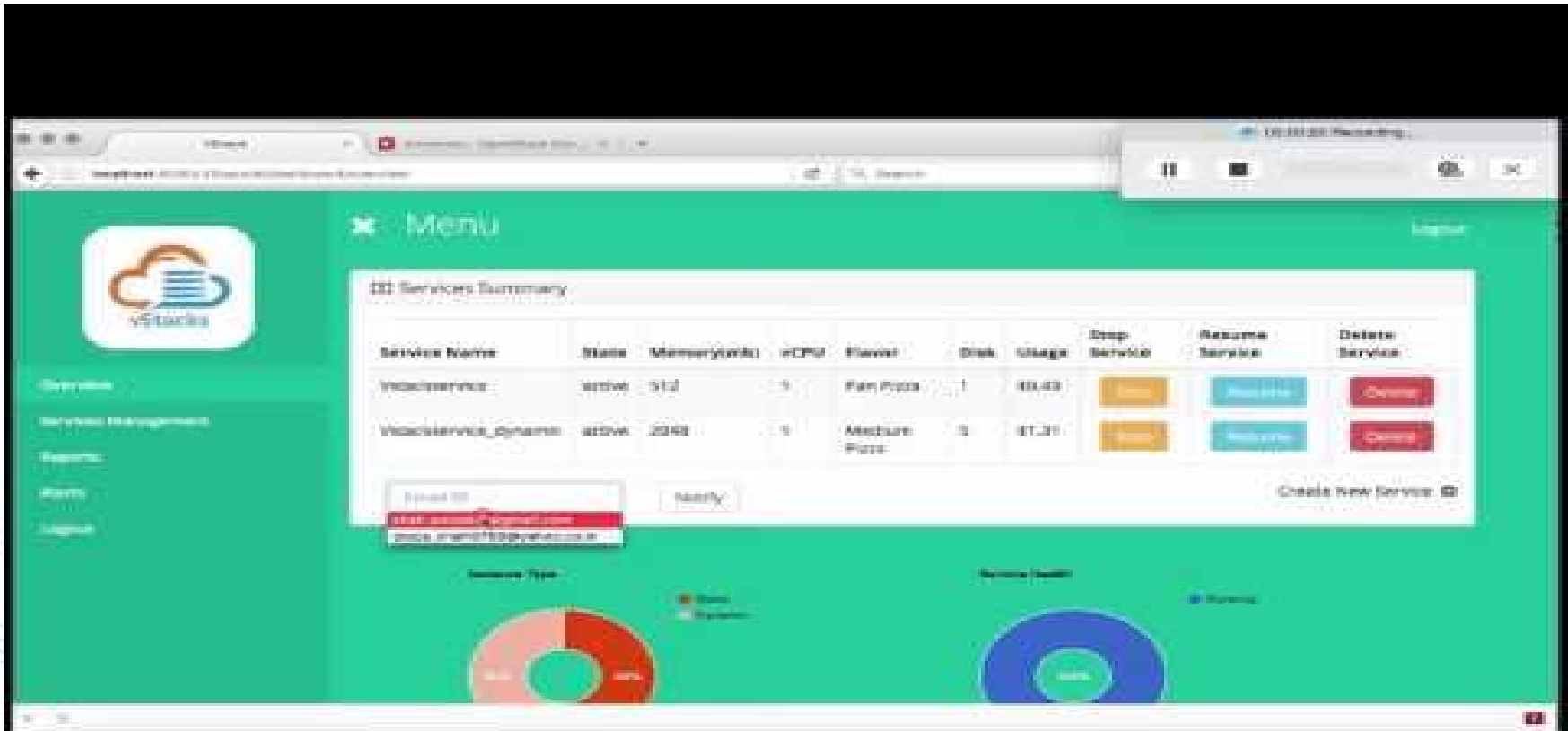- Development & Testing Environment issues

Solutions:

- Hardware: Use lightweight image: CentOS
- Network: Created Network > Subnet > Router > Interface
- Dev & test: Create a new 'Domain' other than 'Default'
- (Bug link)
- Referred Trystack

Demo

URL:
https://www.youtube.com/watch?v=1hzipdrkJDs

THANK YOU

SAN JOSÉ STATE UNIVERSITY *powering* SILICON VALLEY