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Deploying Private/Hybrid Cloud IaaS OpenStack

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Agenda

- Introduction
- Architecture
  - Components
- Deployment
  - Microstack
  - Architecture
  - Network Topology
- Demo
- References

Introduction

OpenStack is a free open cloud computing platform, deployed as Infrastructure-as-a-Service (IaaS), where one can provide virtual services and resources as both public and private cloud.

Architecture

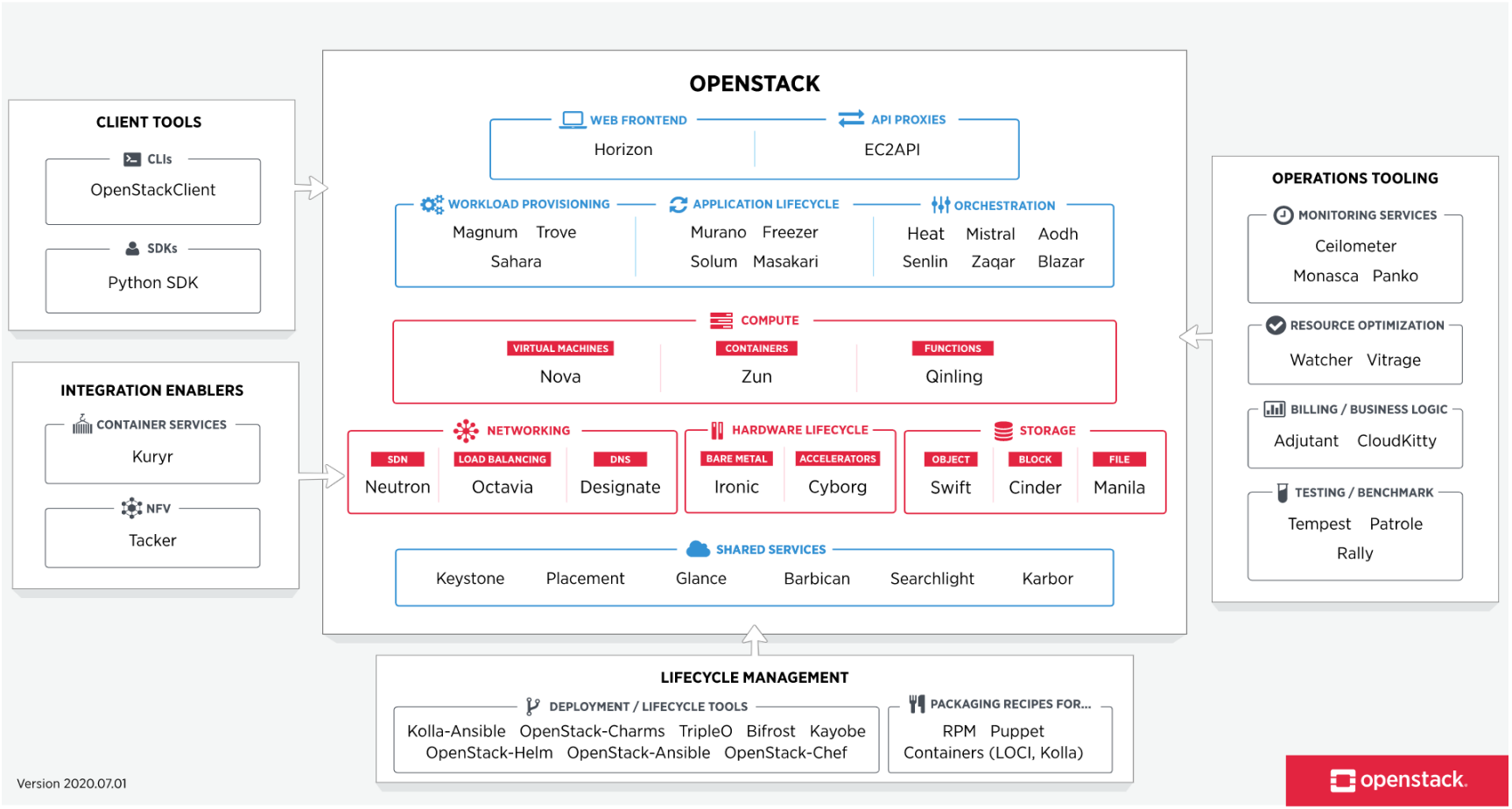

Figure: OpenStack Architecture [1]

Components

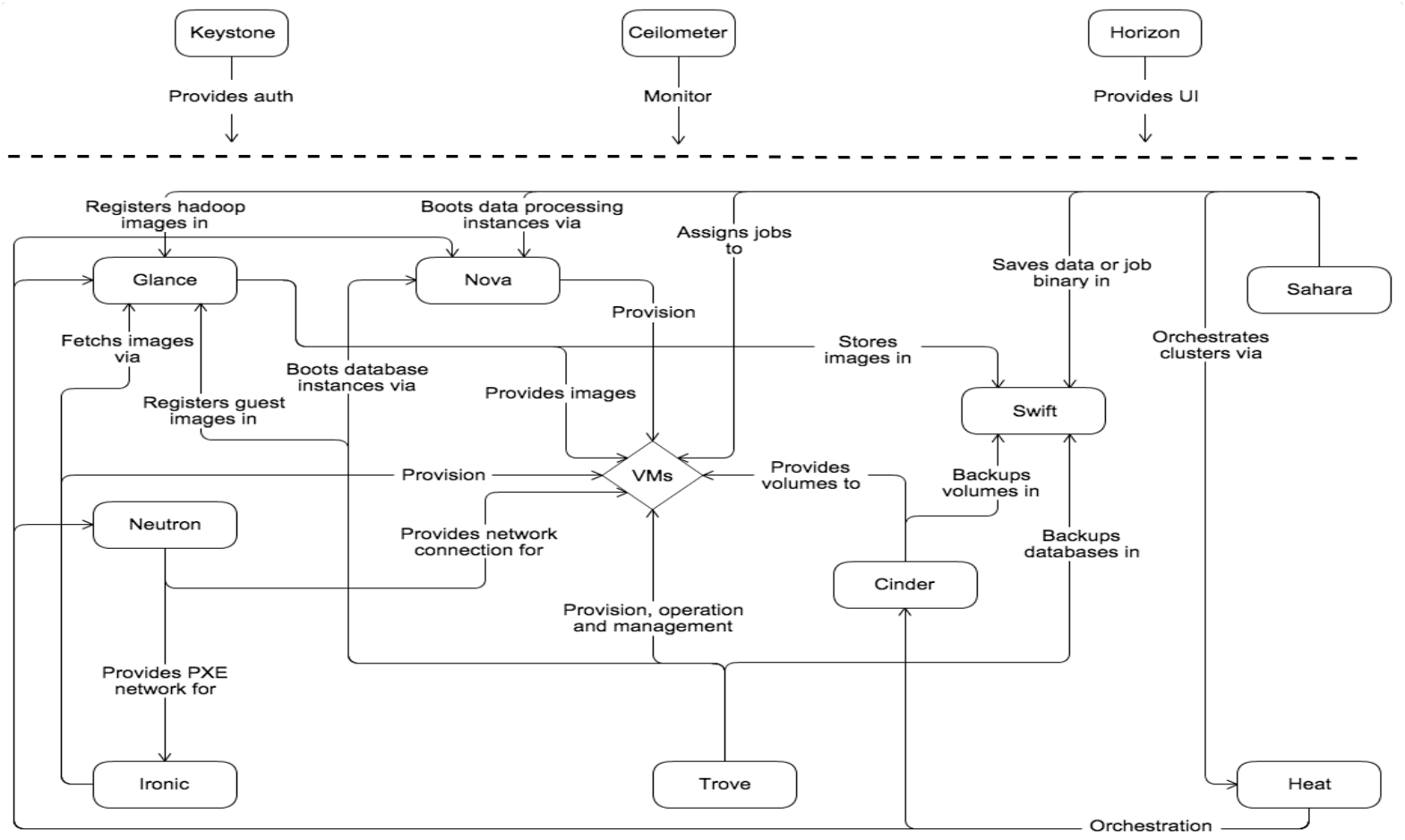

Figure: OpenStack Components [2]

MicroStack[3]

- MicroStack provides a single or multi-node OpenStack deployment which can run directly on your workstation.
- MicroStack is an OpenStack in a snap which means that all OpenStack services and supporting libraries are packaged together in a single package which can be easily installed, upgraded or removed.
- MicroStack includes all key OpenStack components: Keystone, Nova, Neutron, Glance, and Cinder.

Architecture

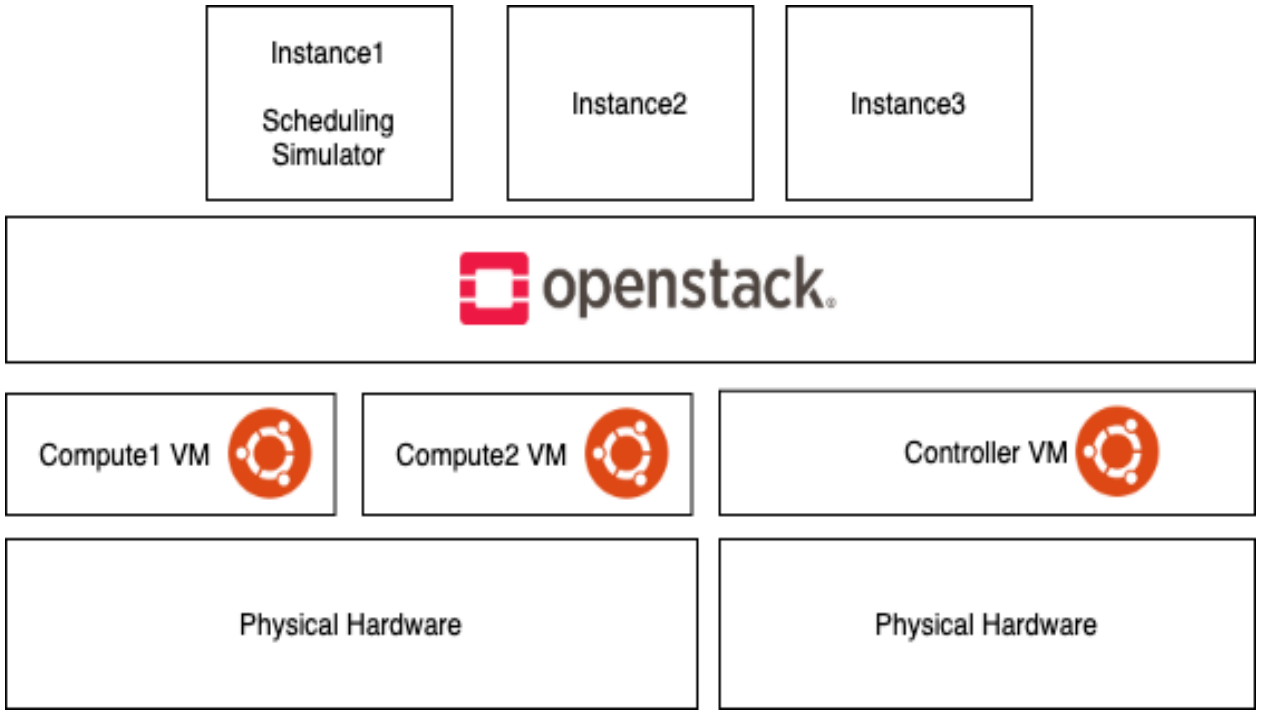

Figure: Architecture

Network Topology

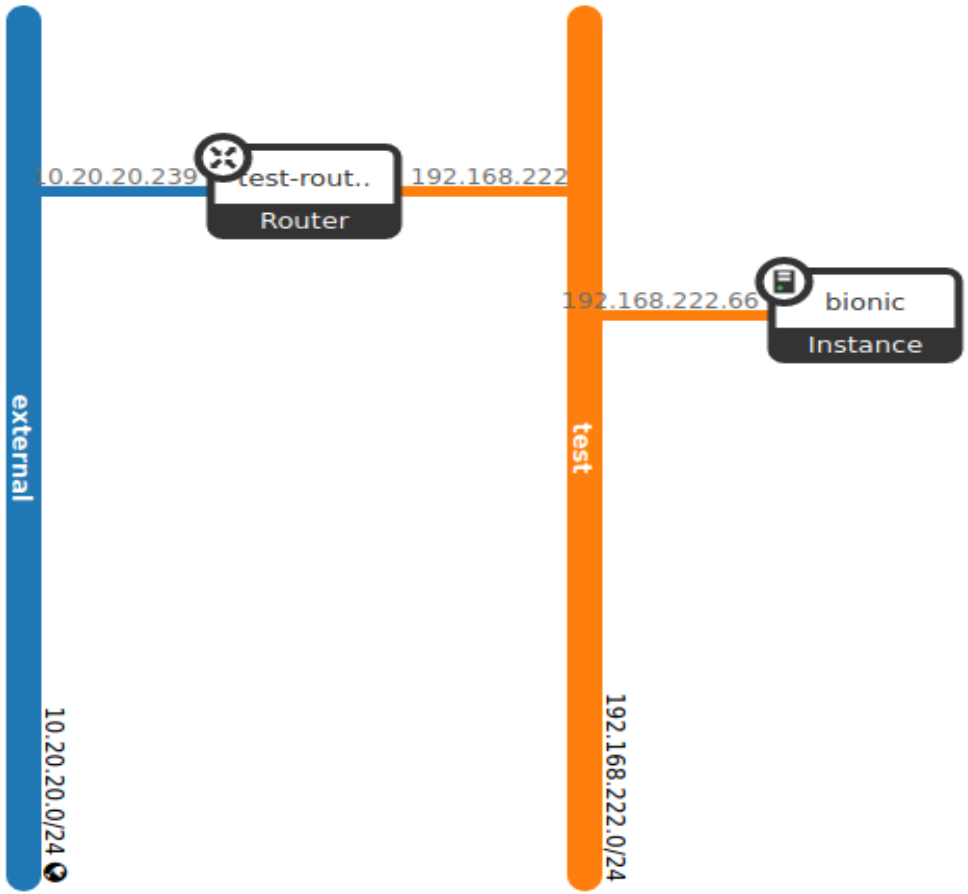

Figure: Network Topology

Demo

Demo [4]

References


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https://ubuntu.com/tutorials/microstack-get-started1-overview/ Accessed: 4.02.2021


Video is available at https://drive.google.com/drive/folders/1rVeC4K7UPgLwVmbEG3e8htqGc48ldve7?usp=sharing Accessed: 4.02.2021