Kubernetes

- Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications.
- The basic scheduling unit in Kubernetes is a pod. It adds a higher level of abstraction by grouping containerized components.
- A pod consists of one or more containers that are guaranteed to be co-located on the host machine and can share resources.

Rancher

- Rancher is a management platform for Docker containers.
- It makes use of Docker as the underlying container runtime and coordinate running containers between multiple discrete physical nodes.
- Rancher also includes modular infrastructure services including networking, load balancing, service discovery, monitoring and recovery.

Helm

- Helm fills the need to quickly and reliably provision container applications through easy install, update, and removal.
- It provides a vehicle for developers to package their applications and share them with the Kubernetes community.

OpenStack

- The cloud is about providing computing for end users in a remote environment, where the actual software runs as a service on reliable and scalable servers rather than on end-user's computer.
- Openstack provides infrastructure that makes it easy for users to quickly add new instance, upon which other cloud components can run.

Future Work and References

- This work can be extended to deploying the Casablanca release of ONAP.
- De Talhouët, Alexis.. “Confluence.” ONAP on Kubernetes on OpenStack - Developer Wiki - Confluence, ONAP, 2 May 2018, wiki.onap.org/display/DW/ONAP on Kubernetes on OpenStack.