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High availability cluster management in VNFM/NFVO Tacker

Background

- Tacker is an Openstack project building a generic VNF Manager and **NFV Orchestrator to deploy Network Services and VNF**
- Tacker is based on **ETSI MANO architectural framework**
- Currently, **no high availability mechanism** for VNFs is used in Openstack Tacker
- We develop a **vnf-ha-cluster-engine** to guarantee the high availability of VNFs in Tacker

Features

- Create a ha cluster** for supporting Active and standby configuration for VNFs in Openstack Tacker
- Support user-defined high availability policies** and cluster management actions
- Integrate with monitoring drivers** of Tacker to monitor status of VNFs and perform recovery actions

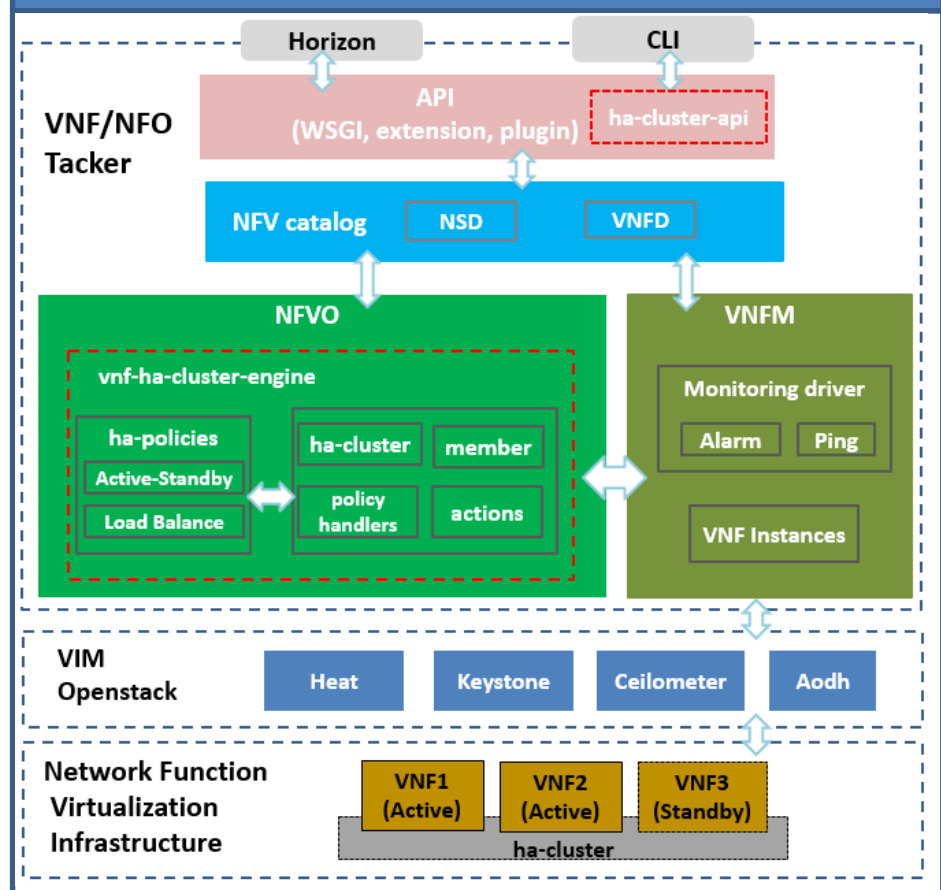
Future works

- Current version supports only CLI, need support for **GUI horizon**
- Support ha policies over **multi-VIM**

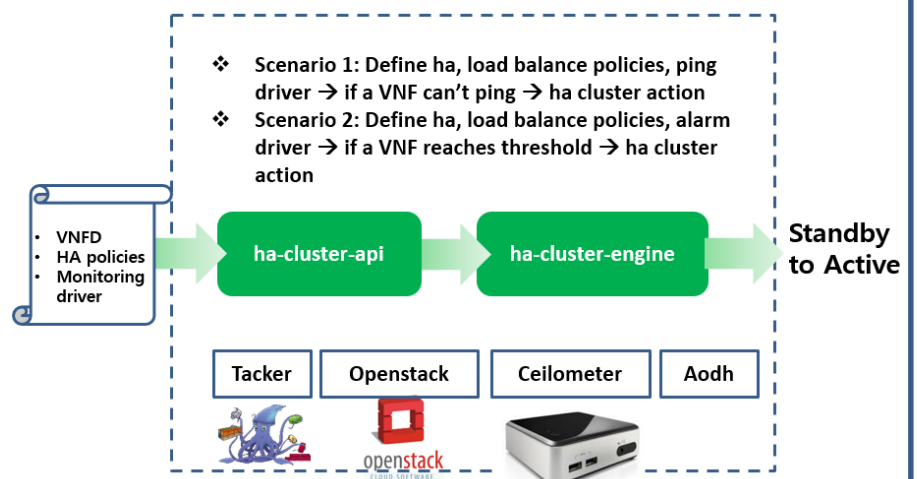
Acknowledgement



Architecture



Demo Scenarios



- HA cluster action:** dead VNF is removed from cluster, standby VNF is changed to active and connected to load balancer