



Future Internet - SS19

Complex Service Orchestration with OSM and OpenStack

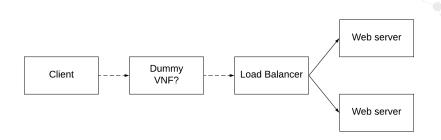
Mini-Project Final Presentation

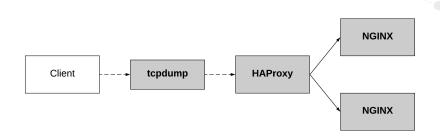


Goals

- Build and deploy a complex service in virtual environment using...
 - o Open Source MANO (OSM)
 - o OpenStack
 - o Ubuntu Cloud Image
 - o Cloud-init
- Experiment with Servce Function Chaining: VNF Forwarding Graph

Scenario







- 1. OSM Dashboard (Orchestrator)
 - o Descriptors, Graphs
 - Service instantiation workflow

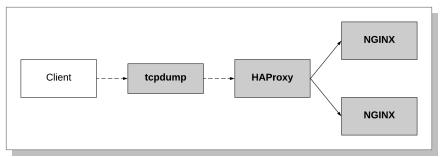


- 1. OSM Dashboard (Orchestrator)
 - o Descriptors, Graphs
 - Service instantiation workflow
- 2. OpenStack Dashboard (Infrastructure Manager)
 - o Running instances, Logs
 - IP of instances



- 1. OSM Dashboard (Orchestrator)
 - o Descriptors, Graphs
 - Service instantiation workflow
- 2. OpenStack Dashboard (Infrastructure Manager)
 - o Running instances, Logs
 - o IP of instances
- 3. Testing Scenario
 - o SSH into running instances
 - o curl the load balancer
 - o SFC Demo: tcpdump





- o SSH into running instances
- o curl the load balancer
- o SFC Demo: tcpdump

Issues?



Issues

1. SFC chaining not working from OSM

- VNFFG description not stable in OSM
- What I tried
 - o OSM Release 5, 6, Master
 - o OpenStack newton, ocata, queens
 - o Different NSD, VNFD (Intern Project)



Issues

1. SFC chaining not working from OSM

- VNFFG description not stable in OSM
- What I tried
 - o OSM Release 5, 6, Master
 - o OpenStack newton, ocata, queens
 - Different NSD, VNFD (Intern Project)

2. VNF Configuration using "Charms"

- OSM Provides post instantiation configuration
- Node IP configuration on HAProxy is now static



GitHub



ashwinprasadme/Future-Internet-SS19-Mini-Project