2022-01-12 - ONAP: Application Service Descriptor (ASD) for K8s NFs

Topic Leader(s)

- Marian Darula (Ericsson)
- Byung-Woo Jun (Ericsson)
- Zu Qiang (Ericsson)
- Thinh Nguyenphu (Nokia)
- @ Joe Schumacher (Nokia)

Topic Description

60 minutes Marian Darula

In today, many complex applications are consisting in a mixed, complex workload, that is described in many Kubernetes resources, e.g. to be run on a certain cluster, etc. In order to deploy the application, the orchestration task would be requiring dealing with different abstract layers of resources, different templates system mapping, and application packaging. Another challenge is to keep up with changes in the cloud infrastructures features enhancement m apping into abstract resource template.

Application Service Descriptor (ASD) provides simplified way of modelling and packaging of NFs:

- It's an alternative to complex ETSI MANO based approach.
- Relies on cloud native modeling tools (e.g. helm),complemented by slim descriptor layer providing information which cannot be conveyed via native modeling tools (e.g. networking related information)
- Not repeating information from the native tools.
- Utilizing established standards where applicable (e.g. TOSCA for the schema definition, the CSAR structure based on SOL004ed431 format).

Topic Overview

Introduction of ASD

Slides & Recording

Presentation material:

[LFN-2021-DDTF-O...for K8s NFs.pdf]

Session recordings:

[LFN-2021-DDTF-...or K8s NFs.mp4]

Agenda

- ASD Information model (IM) presentation (20 minutes)
- ASD Resource Data Model (20 minutes)
- ASD Onboarding Packaging Format (10 minutes)
- ASD Link to network service modelling (10 minutes)

Minutes

Action Items

☐