Parser Introduction Documents

Release draft (8a81851)

OPNFV

January 26, 2016

This is the directory to store introduction documents for Parser project.

See also https://wiki.opnfv.org/parser .

ONE

INTRODUCTION OF PARSER PROJECT

In NFV, various templates (such as descriptors, records and so on) are utilized to describe the deployment requirements (such as basic VM requirements – vCPU, memory, storage, as well as the NFV acceleration management requirement such as Huge Pages support, SR-IOV, NUMA affinity, DPDK support etc.), the post-instaniation records (such as storage usage report, CPU performance report etc.) or other purposes. However in order to make these templates adaptable and feasible for purpose like deployment orchestration/automation, certain tooling mechanism that provides template translation is necessary.

Project Parser will help to provide such tooling mechanism, by parsing Telecom operators' descriptors/records into TOSCA/CAMP templates and then further translate TOSCA/CAMP templates into certain common templates, which could be used in IaaS orchestration projects like OpenStack Heat.

For Release B, Parser offers the following capabilities: * Integration of Heat-Translator Liberty release code. (both heat in-tree code and standalone package are provided) * Yang2Tosca module which offers the capability to translate yang based scriptors to tosca formate templates. Users could further use Heat-translator module to translate this tosca template to Heat Orchestration template. Yang2Tosca module could be installed seperately after user installed OPNFV B release platform. * Use Case Analysis documents which include RNC use case analysis and Parser keyword proposal.