Project Proposals Anuket Airship Installer

Airship-based Infrastructure Deployment and Lifecycle Management Project Proposal

Project Name:
- Proposed name for the project: Airship-based Infrastructure Deployment and Lifecycle Management
- Proposed name for the repository: airship

Project description:
Airship-based Infrastructure Deployment and Lifecycle Management is an installer with the goal of deploying and managing the lifecycle of cloud and NFV infrastructure in order to support VNFs testing and certification on top of the infrastructure. This project intends to cover:
- Reference Implementation of cloud and NFV infrastructure according to industry infrastructure architecture model(s), e.g. Akraino blueprints, that Airship fits.
- Support of the VNF Testing and Certification running on top of the cloud and NFV infrastructure if so specified in the model(s).

Scope:
There is a market need to:
- Implement the cloud and NFV infrastructure according to industry infrastructure architecture model.
- Implement and perform VNF testing and certification on top of the cloud and NFV infrastructure.

The scope of Airship-based Infrastructure Deployment and Lifecycle Management project will focus on implementing the market need. More specifically:
- Develop declarative description in YAML according to industry infrastructure model(s) that Airship fits.
- Use upstream open source tool Airship to deploy and manage the lifecycle of Cloud and NFV infrastructure according to industry model(s) that Airship fits.
- Support of VNF testing and certification if so specified in the model(s).
- Necessary YAML and integration tools as needed.
- Integration with OPNFV’s CI/CD pipeline according to long term evolution path.

Testability:
- This project intends to follow and adhere to the gates and quality criteria used by OPNFV.
- This project intends to support additional deployment quality criteria if so specified in the model(s).

Documentation:
Documentation will be available on official OPNFV Documentation portal and will include:
- Deployment Guide
- User Guide
- Reference to Upstream Airship documentations

Dependencies:
- Upstream open source project Airship (Release 1.0 on April 25th, 2019)
- Industry standard models, e.g. Akraino blueprints (Release 1.0 on May 30th, 2019), that Airship fits
- Other industry models that Airship fits as they will be developed and matured

Committers and Contributors:

Committers (alphabetically according to last name)
- Parker Berberian (UNH-IOL)
- Trevor Cooper (Intel)
- Bin Hu (AT&T)
- Greg Oberfield (AT&T)
- Cedric Ollivier (Orange)
- Prakash Ramchandran (Dell)
- Sridhar Rao (Spirent)
- Kaspars Skels (AT&T)
- Bin Yang (Wind River)

Contributors (alphabetically according to last name)
- Jay Ahn, SK Telecom
- Mark Beierl, VMware
Planned deliverables:

- Declarative description in YAML according to industry standard infrastructure model(s)
- A script that will use Airship with YAML to deploy and manage the lifecycle of cloud and NFV infrastructure
- Integration with OPNFV’s CI/CD pipeline according to long term evolution path
- Optionally, necessary YAML and integration tools as needed.

Proposed Release Schedule:

- This project is planned for the first release in 09/2019.
- This project will follow the Continuous Delivery (CD) release model of OPNFV, and monthly release cadence.

Key Project Facts

Project Name: Airship-based Infrastructure Deployment and Lifecycle Management
Repo name: airship
Lifecycle State: Proposal
Primary Contact: Bin Hu
Project Lead: Bin Hu
Jira Project Name: AIRSHIP
Jira Project Prefix: [AIRSHIP]
Mailing list tag [airship]
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Link to approval of additional submitters: <TBD>