

TST Meeting 2017/01/11

ONOS deployment tools

(Luca Prete, Thomas Vachuska)

Today, deployments often use lot of developer & test oriented tools, which presents some problems. The purpose of this discussion is to identify what tools are lacking for deployments.

Luca:

- notion of “management machine” where to drive deployments from
 - define target machines for the cluster, i.e. golden image of cluster configuration
 - place to maintain the network configuration “golden” image
- No deployment will want to switch from a convenient, reliable system that uses a single command to some less convenient, more painful and complicated approach

Bob: the ONOS distribution seem to lack tools/scripts for

- Installing ONOS on Ubuntu (and other OSes) including not just ONOS but also its startup scripts/configuration to allow it to run as a "service"
- Installing ONOS on a cluster
- Configuring ONOS apps and cluster membership
- Managing, monitoring, and reconfiguring a running ONOS installation
- Upgrading an ONOS cluster
- Removing/uninstalling ONOS
- Running basic tests, diagnostics, and sanity checks on an ONOS cluster

We also seem to lack easily installable/upgradable packages (.dpkg, .rpm, etc.)

We also don't seem to have a standard, documented, validated and tested installation and operation process.

As Thomas noted, there is notably no documentation explaining how to configure an ONOS cluster and the desired apps to run, and the current installation documentation is wrong.

We don't seem to have a good devops model either (e.g. for installations that maintain and deploy their own applications that run on ONOS.)