

UX requirements

Release: OPNFV Brahma Putra

Requirements for a common user-experience created by the deployment tools.

High availability requirements

- [Jira GENESIS-3](#): new requirement...
- [Jira GENESIS-9](#): The installer shall support the deployment of OpenStack with High-Availability (for those components that support it in Liberty) on 3 or more control nodes. Functional tests should be able to verify that the HA is enabled and functional.
- [Jira GENESIS-71](#): new requirement Hitless hardware upgrade: Increase size of a deployment in terms of compute nodes (add additional compute nodes) without service interruption. This requirement doesn't mandate upgrade/increasing the size of the control node cluster.

Network setup and configuration related requirements

- [Jira GENESIS-20](#): Automatically populate discovered servers into install tool (reduce user-intervention to a minimum).
- [Jira GENESIS-28](#): Installers should support a common configuration file (e.g. kickstart file) per platform/role, so that the installed OS can be customized for hardware and role.
- [Jira GENESIS-43](#): Neutron DHCP servers should be configured in HA per tenant
- [Jira GENESIS-44](#): SDN Controller Layer 3 forwarding support
- [Jira GENESIS-61](#): Supported Layer 1/2 Networking Configurations
- [Jira GENESIS-62](#): Supported Logical Networks for Target System
- [`Jira GENESIS-72 <https://jira.opnfv.org/browse/GENESIS-72`_](#): Support L3-neutron agent as an option for L3
- [`Jira GENESIS-69 <https://jira.opnfv.org/browse/GENESIS-69`_](#): Provide isolated compute node resources for CEPH OSD

Versioning requirements

- [Jira GENESIS-3](#): new requirement...
- [Jira GENESIS-12](#): Installers should track/control all versions of all components pulled from external sources (user should be able to identify the versions and origins of all software components deployed).

System definition and system configuration requirements

- [Jira GENESIS-3](#): new requirement...
- [Jira GENESIS-16](#): Common ability to input site, topology, and server information.
- [Jira GENESIS-17](#): User-configurable parameters available via config files.
- [Jira GENESIS-18](#): Allow assignment of different roles to servers, so that hardware and software can be configured according to the role.
- [Jira GENESIS-19](#): Deployment tool to provide for automatic device discovery.
- [`Jira GENESIS-25 <https://jira.opnfv.org/browse/GENESIS-25`_](#): Installers should configure NTP servers on the servers for clock synchronization.
- [Jira GENESIS-40](#): Hardware replacement

Requirements pertaining to the qualities of the deployment process

- [Jira GENESIS-74](#): Installers which create a build for Brahma Putra, should create the build as an "all-in-one" build. The the build process of the installer creates a single entity (e.g. ISO) - which has all the artifacts considered and required by all the projects for Brahma Putra packaged in. Or in other terms and as an example: If there are 4 different versions of OVS - all these 4 versions would be contained in the "all in one build". Note: This requirement only applies to installers which support a "build" phase (i.e. create a bootable image, like an iso-image from the different artifacts required).
- [Jira GENESIS-31](#): Installers to be agnostic to type of hard drives used

Security related requirements

- [Jira GENESIS-3](#): new requirement...
- [Jira GENESIS-23](#): Enable Mandatory Access Control by default. Installer should enable MAC either using SELinux or AppArmor.
- [Jira GENESIS-24](#): Installers should install ssh keys on servers so that key-based login can be used for administration

Testing related requirements

- [Jira GENESIS-3](#): new requirement...

Installation method related requirements

- [Jira GENESIS-39](#): Ability to install with upstream artifacts.
- [Jira GENESIS-38](#): Installers should supply a script or set of scripts ("deploy.sh") to automatically install the jump host (from there, the entire OPNFV system is automatically installed).
- [Jira GENESIS-42 <https://jira.opnfv.org/browse/GENESIS-42>](https://jira.opnfv.org/browse/GENESIS-42): Requirement: Support deployment offline. Jump host may have Internet access, but the installers should support offline installation on target hosts during the deployment phase. (either manual or automatic)

Documentation related requirements

- [Jira GENESIS-3](#): new requirement...