

OPNFV Continuous Delivery Release Process

Please direct any questions to info@opnfv.org

COLLABORATIVE PROJECTS

Agenda

- Overview
- Proposal: Use Continuous Delivery as the basis for a new OPNFV release process
- Goals
- User Stories
- High Level Planning



Overview

- After several release cycles, it has become clear that the current OPNFV release process is not meeting the needs of some community members.
 - Developers that want to be working closely with the leading edge of upstream communities
 - End users that need release output sooner following the releases of upstream components, such as OpenStack
 - End users that want higher quality releases



Overview



- Other issues
 - Rigid release cadence.
 - What about projects that wish to release more frequently, or outside the OPNFV major releases?
 - No differentiation between release management focus required by different projects
 - Some projects require more intense management due to dependencies
 - Some projects need less attention



Overview

- Other issues (cont.)
 - Release management tends to focus on feature projects that use scenarios
 - What about test frameworks?
 - What about other tools?
 - Releases driven by cadence, not by quality



Proposal: Use Continuous Delivery as the basis for a new OPNFV release process

- XCI has demonstrated success during Fraser trials in enabling OPNFV developers to work closely with upstream communities
- The Apex installer project has announced their intent to provide upstream master by default
- Continuous Delivery process provides the flexibility for users with different goals:
 - Work with the tip of master for some, or all, upstream components
 - Work with specific tags or released versions, or stable/topic branches



Proposal: Use Continuous Delivery as the basis for a new OPNFV release process

- Fahti has shared plans to implement promotion levels in XCI, using progressive levels of test.
 - Resource efficient
 - May be used as the basis for release
 - "developer" releases use lower levels of promotion to qualify
 - "stable" releases use higher levels of promotion to qualify

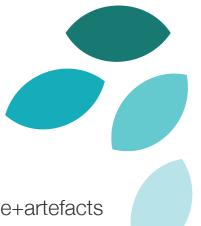


Goals

- Enable developers to work closely with upstream communities
 AND to do timely stable releases with one process.
- Gate releases based on test results appropriate for their intended purpose (e.g. "developer", "end user", others?)
- Enable developers to do additional releases and/or releases outside of the OPNFV cadence, where appropriate
- Consider applying ODL concept of managed/unmanaged projects



User Stories



https://wiki.opnfv.org/display/SWREL/User+stories+for+OPNFV+release+artefacts



High Level Planning

- The Gambia release will be similar to our past releases
- We will use the period of the Gambia release as a transition period for projects to migrate to continuous delivery.
- Beginning with the "H" release, we will adopt continuous delivery principles, as well as promotion-based releases
- We will continue to support a 6-month major release cadence.



High Level Planning

- We will develop new release milestones consistent with the new process:
 - Declare scenarios
 - Propose testing for each promotion level
 - Implement testing
 - Promoted to daily
 - Promoted to weekly
 - Documentation
 - Release





Questions?

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