OPNFV Continuous Delivery Release Process

Please direct any questions to info@opnfv.org
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

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Questions?

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