

# **FUNCTEST 2019**

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**GATES**

# TODAY'S VERIFY -1

- one error is detected by yamllint, pep8, pylint, ansible-lint, bashate or doc8
- one unit test fails (py27 and py35)
- specific modules are not rated 10/10 by pylint
- our Framework is not fully covered
- unix permissions are wrong
- one doc cannot be generated without warning

Please see [tox.ini](#) for details

# GREAT! BUT

- the current gate checks all coding rules, our Framework and all interfaces to third-parties but **not our testcases**
- it doesn't break **the circular dependencies** between Installers and Functest (Installers ask for a trustable healthcheck but we need results of "Installer runs" as prerequisites)

Our testcases have still **to be verified by hand** what differs from OpenStack Workflow.

# FUNCTIONAL GATING

- we need to run all Functest patches before merge against reference platforms (OpenStack and Kubernetes)
- a voting job must forbid the merge if one test fails (as the workflow process implemented by OpenStack)

# IMPROVE THE CURRENT DAILY MODEL

- all Functest jobs are linked to the OPNFV installers and can hardly be reused by endusers
- all test suites are run sequentially
- rally\_full is excluded due to its duration (~3 hours)
- all possible remaining resources are clean when installing the scenarios

**It's fine for gating installers but not for verifying that Functest supports parallel and live testing**

# NEW XTESTING ANSIBLE ROLE

- deploy anywhere the full OPNFV CI/CD toolchain in few commands
- easily add external bots voting in reviews
- produce all Xtesting-based functional jobs (Xtesting, Functest and Functest Kubernetes) in Releng
- could be instantiated for testing services out of the infrastructure domain

It's already in a **good shape**. **Try it!**

# QUALITY ASSURANCE

Functest is matching the OpenStack Quality Golden rules



# PYLINT AND COVERAGE (STARTED FROM E RELEASE)

- only need to refactor several vnf testcases and to remove duplicated code
- document well and cover Functest utils: they are reused by OPNFV third-parties (SFC, SDNVPN)

**Functest will be rated 10/10 very soon**

# RELEASING

- Functest could be also released as a classical Python packages like Xtesting( [PyPI](#))
- Xtesting and Functest could be released as GNU/Linux distribution packages

# **OTHER CHALLENGES**

# PROPOSALS

- integrate Rally and Tempest as core modules in Functest (we do merge `tempest.py` and `conf_utils.py`)
- deploy cloud-native VNF (Clearwater IMS?)
- why not leveraging on OpenStack middlewares such as [oslo.config](#)?
- promote our VNF testcases in the upstream communities

**Any new testcase is more than welcome!**

**THANK YOU**