Functest 5. Meeting

Functest Project Meeting Schedule

- Organizer: cedric.ollivier@orange.com
- When: Occurs every Tuesday from 08:00 to 09:00 (UTC). Note we always stay at UTC! For Europeans, it is at 9am (CET) or 10am (CEST) in summer.
- IRC: #opnfv-functest
- IRC meeting only.

Gotomeeting exception will be notified in the agenda (in this case the GTM link will be https://global.gotomeeting.com/join/566165845)

You can also dial in using your phone.
- United States (Toll-free): 1 866 899 4679
- United States : +1 (224) 501-3318

Access Code: 566-165-845

More phone numbers:
- China (Toll-free): 4008 866143
- Finland (Toll-free): 0 800 94503
- France (Toll-free): 0 800 919 896
- Germany (Toll-free): 0 800 723 5120
- Japan (Toll-free): 0 120 352 900
- Poland (Toll-free): 00 800 1213978
- Russian Federation (Toll-free): 8 10 800 29654011
- Sweden (Toll-free): 020 980 768

Meeting Minutes:
- http://ircbot.wl.linuxfoundation.org/meetings/opnfv-functest/

Functest Project Meeting Agenda

30/07 (8 UTC)

- last key changes:
  - update to python3.7 and Alpine 3.10 in Xtesting and Functest projects
  - all linters are now executed vs python3.7
    - https://gerrit.opnfv.org/gerrit/68277
    - https://gerrit.opnfv.org/gerrit/68264
    - https://gerrit.opnfv.org/gerrit/68262
  - py3 unit tests are now verified in gates (switch to lf-virtual1)
    - permissions can't be currently verified due to wrong umask in lf-virtual1
    - https://gerrit.opnfv.org/gerrit/68267
  - tempest has been updated to 21.0.0 in Hunter and Iruya
    - https://gerrit.opnfv.org/gerrit/68281
    - https://gerrit.opnfv.org/gerrit/68280

- gates:
  - few multijobs are incorrectly generated by releng Aric Gardner (LF is expected to clean the jbb cache)
  - TaggedAttachmentsTest.test_tagged_attachment sometimes fails
    - it works well when running it alone (timeout seems reached due to multiple tests in parallel)

- next topics
  - dovetail asks for regex when blacklisting rally tasks per OPNFV scenarios
* few rally tasks must be blacklisted when verifying rally_jobs without external network
* or we do forbid running rally_jobs without external network
  * https://gerrit.opnfv.org/gerrit/#/c/68221/
* xrally_kubernetes (or SUT) must be hardened:

### 23/07 (8 UTC)

* last key changes:
  * Xtesting Ansible role now installs InfluxDB and Grafana
    * https://github.com/collivier/ansible-role-xtesting/commit/311c0726044af523f5df9b6de61196369cd7f2b
  * Dockerfiles were updated to follow the new ODL git repositories
    * https://gerrit.opnfv.org/gerrit/#/c/68247/
  * gates:
    * Image-Volume cache was enabled in our SUT to avoid volume leaks
      * https://bugs.launchpad.net/tempest/+bug/1829613
    * all latest Functest run are successful https://build.opnfv.org/ci/view/functest/
    * no remaining resources (out of security groups) after a few full runs!
    * only Functest Kubernetes master runs are flaky (side effects due to xrally-kubernetes?)

### 16/07 (8 UTC)

* last key changes:
  * add xrally_kubernetes in Functest Kubernetes https://gerrit.opnfv.org/gerrit/#/c/68167/
  * install Tempest and Rally via python dependencies https://gerrit.opnfv.org/gerrit/#/c/68201/
  * allow running Rally without external networks
    * https://gerrit.opnfv.org/gerrit/#/c/68221/
  * enhance proxy support
    * set proxies in ubuntu for juju_epc use case https://gerrit.opnfv.org/gerrit/#/c/68196/
    * set proxies in Cloudify container https://gerrit.opnfv.org/gerrit/#/c/68103/
    * reuse same cidr in juju https://gerrit.opnfv.org/gerrit/#/c/68228/

### 02/07 (8 UTC)

* last key changes:
  * publish “From Paris to Stockholm” https://gerrit.opnfv.org/gerrit/68038
  * add Rally scenarios verifying Swift and Barbican
    * https://gerrit.opnfv.org/gerrit/68155
    * https://gerrit.opnfv.org/gerrit/68151
  * rewrite Kubelet parsing https://gerrit.opnfv.org/gerrit/68142
  * improve the overall quality
    * https://gerrit.opnfv.org/gerrit/68054
    * https://gerrit.opnfv.org/gerrit/68059
  * gates:
    * all Functest Kubernetes versions are now verified by gates

### 11/06 (8 UTC)

* last key changes:
  * ruamel.yaml.jinja2 is now pinned https://gerrit.opnfv.org/gerrit/68016
  * rally_jobs conforms with the latest Neutron change https://gerrit.opnfv.org/gerrit/68021
  * test_list_metadata namespaces (Patrole) is now blacklisted in all Functest containers as it seems buggy (https://gerrit.opnfv.org/gerrit/68022/)
  * all config patches are up-to-date (https://gerrit.opnfv.org/gerrit/67888 and https://gerrit.opnfv.org/gerrit/68027)
  * all flavors created are conformed with the GSMA profiles if DEPLOY_SCENARIO contains gsma (https://gerrit.opnfv.org/gerrit/68019)
  * gates:
    * our SUT doesn't clean volumes marked as "delete on termination" (reproduced via Horizon)
      * the next 2 tempest tests are now disabled due to volume leaks (https://bugs.launchpad.net/tempest/+bug/1829613) in gates
        * tempest.api.compute.servers.test_create_server.
        * ServersTestBootFromVolume.test_verify_server_details
      * tempest.api.compute.servers.test_create_server.
        * ServersTestBootFromVolume.test_list_servers
  * pending actions:
    * rally_full and rally_jobs sometimes hang in gates
    * the patch avoiding region leaks is still under review (https://review.opendev.org/#/c/662644/)
04/06 (8 UTC)

- **last key changes:**
  - TSC is now aware that all latest Functest containers now select python3 ([https://lists.opnfv.org/g/opnfv-tsc/message/5287](https://lists.opnfv.org/g/opnfv-tsc/message/5287))
  - PyNacl is installed via the Alpine packages to allow cross-compiling all arm and arm64 containers in travis-ci
    - all Raspberry PI containers (from hunter to latest) were successfully verified by hand
    - https://gerrit.opnfv.org/gerrit/67961
    - https://gerrit.opnfv.org/gerrit/67842
    - https://travis-ci.org/collivier/functest/branches
  - rally level log is now debug in rally_full and rally_jobs to find why they sometimes hang ([https://gerrit.opnfv.org/gerrit/67991](https://gerrit.opnfv.org/gerrit/67991))
  - networking_sfc and networking_bgpvpn now execute tests from neutron tempest plugin api ([https://gerrit.opnfv.org/gerrit/67983](https://gerrit.opnfv.org/gerrit/67983))
  - lots of urls in docs was updated to avoid redirects ([https://gerrit.opnfv.org/gerrit/67988](https://gerrit.opnfv.org/gerrit/67988))

- **pending actions:**
  - rally_full and rally_jobs sometimes hang in gates (python3 or latest rally changes?)

28/05 (8 UTC)

- **last key changes:**
  - all latest Functest containers now select python3
    - https://gerrit.opnfv.org/gerrit/#/c/67783/
    - https://gerrit.opnfv.org/gerrit/67940
    - https://gerrit.opnfv.org/gerrit/67930
    - https://gerrit.opnfv.org/gerrit/67891
  - Vmtp now supports python3 ([https://review.opendev.org/#/c/659970/](https://review.opendev.org/#/c/659970/))
  - all patches are now verified by bandit too ([https://gerrit.opnfv.org/gerrit/67949](https://gerrit.opnfv.org/gerrit/67949))
  - the two ims testcases stop running a local dnsmasq ([https://gerrit.opnfv.org/gerrit/67894](https://gerrit.opnfv.org/gerrit/67894))

21/05 (8 UTC)

- **Clean actions:**
  - tempest was updated in stable/hunter and stable/iruya (services): [https://gerrit.opnfv.org/gerrit/6788](https://gerrit.opnfv.org/gerrit/6788)
  - neutron-tempest was updated in stable/hunter (routers): [https://gerrit.opnfv.org/gerrit/#/c/67831](https://gerrit.opnfv.org/gerrit/#/c/67831)
  - patrole network.test_agents_rbac is blacklisted in stable/iruya and master (routers) [https://gerrit.opnfv.org/gerrit/67797](https://gerrit.opnfv.org/gerrit/67797)
    - they remain few volumes after tempest runs (refstack_*, tempest_smoke, tempest_full)
    - https://bugs.launchpad.net/tempest/+bug/1829613
    - https://gerrit.opnfv.org/gerrit/#/c/67894
  - security groups
    - py3:
      - Functest switched to py3 and latest containers seem ok (lf-virtual9 is broken)
      - vmtp is being updated to py3 (a few dependencies): [https://review.opendev.org/#/c/659970/](https://review.opendev.org/#/c/659970/)
    - new testcases:
      - all refstack lists are now executed by Functest (even if they duplicate tempest_full)
      - tempest_slow is being integrated (ipv6 and host aggregates tests are currently failing)
    - todo:
      - accelerate arm32 and arm64 cross-compilations (50min timeouts due to travis-ci) [https://gerrit.opnfv.org/gerrit/#/c/67842](https://gerrit.opnfv.org/gerrit/#/c/67842)
  - AoB:

14/05 (8 UTC) **Canceled**

07/05 (8 UTC)

- **Last key updates:**
  - Functest is now rated 10/10
  - debug logs are reduced by default which allows easy runs vs Raspberry PI
  - few python warnings were removed ([https://gerrit.opnfv.org/gerrit/#/c/67704](https://gerrit.opnfv.org/gerrit/#/c/67704))
  - Functest now allows verifying live-migration if block migration

- **New Gates:**
  - 3 OpenStack (Rocky, Stein and master) were installed on our former physical POD (2 compute nodes par OpenStack)
    - live-migration, Vmtp and Shaker can now be verified by the new gates
- few resources are not cleaned after Rally (volumes), Patrole (networks and routers) and Tempest (services) run
- uncleansed security groups raise side effects for the next runs.
- cold migration is unverified (blacklisted in Rally, disabled by conf in Tempest)
- NovaServers.boot_and_get_console_url is falsy blacklisted for the time being
- **Python3**
  - the patch is quite ready (gates are required first)
- TSC was informed about the update in Functest last week
- **AoB:**

**23/04 (8 UTC)**

- **Last key updates:**
  - OPNFV Functest Iruya was released: [https://lists.opnfv.org/g/opnfv-tsc/message/5181](https://lists.opnfv.org/g/opnfv-tsc/message/5181)
  - travis-ci.org configs have been fixed and then updated:
    - all arm and arm64 containers are now cross-compiled for Hunter, Iruya and master
    - py36 is now covered
    - [https://travis-ci.org/collivier/functest/branches](https://travis-ci.org/collivier/functest/branches)
  - barbican, cloudify, cloudify_ims, heat_ims and vyos_vrouter now work well on Raspberry Pi 3
  - **Run Functest containers on Raspberry Pi**
  - sdnvpn testing was removed from our gates as they don't clean lots of resources (Thom as Morin)
  - [https://build.opnfv.org/ci/view/functest/](https://build.opnfv.org/ci/view/functest/)
  - all OpenStack refs were updated to opendev.org
  - it's worth mentioning that we can no longer fetch commit ids or refs
  - arm builds are temporarily disabled in Releng
- **volumev3:**
  - all Rally tasks were updated to verify volumev3
  - [https://gerrit.opnfv.org/gerrit/#/q/i42e47b49e80d3647df274be03add94c9f034a34d6](https://gerrit.opnfv.org/gerrit/#/q/i42e47b49e80d3647df274be03add94c9f034a34d6)
  - Rally 1.2.0 (gambia) has to be updated: [https://gerrit.opnfv.org/gerrit/#/c/67670/](https://gerrit.opnfv.org/gerrit/#/c/67670/)
  - Rally installed in Functest Master and Hunter conforms with OpenStack Stein guidelines
  - [https://review.opendev.org/#/c/652405/](https://review.opendev.org/#/c/652405/)
  - we do care about possible wrong cinder discovery in Rally verifier (e.g. if cinder is not defined)
- **Raspberry Pi:**
  - logging could be optimized by stopping printing debugs (adding a DEBUG env var as before)
  - **Run Functest containers on Raspberry Pi**
  - they remain lots of go deps which are not cross-compiled yet (juju, kubernetes binaries, etc.)
- **AoB:**
  - 10/10 by pylint
  - few python warnings have to be fixed in master

**16/04 (8 UTC) Canceled (Holidays)**

**09/04 (8 UTC) Canceled (ONS)**

**02/04 (8 UTC) Canceled (ONS)**

**26/03 (8 UTC)**

- **Last changes:**
  - heat_ims is now passing successfully (security groups and parallel boot could be improved)
  - refstack list has been updated to 2018.11 (max_version is now set in tempest conf)
  - no skip test is allowed in refstack_defcore
  - all containers are based on Alpine 3.9
  - Functest and Functest Kubernetes Gambia has been fully verified in Orange Openlab
  - we can stop Gambia unless we decide to backport a next patch about external network in rally sanity
- **Gates**
  - Functest and Functest Kubernetes are no longer tested in parallel
  - Vnf testcases are now executed in parallel (one heat_ims fails but we could increase ssh timeout in that case)
  - it seems that we can't verify K8s 1.13 and master any longer thanks to backward compatibilities.
- **Installer results:**
Fuel (amd64 - virtual) os-nosdn-nofeature-noha successfully passed once Functest Hunter Michael Polenchuk Alexandru Avadani
- refstack failed due to the missing compute max_version in tempest config
- Apex (amd64 - baremetal) os-nosdn-nofeature-noha passed all Functest Hunter testcases out of tempest_full Tim Rozet
  - ![APEX-645](IN PROGRESS) - Swift: tempest crossdomain test case fails
  - tests resizing servers failed (resize = false in tempest config?) https://docs.openstack.org/tempest/latest/sampleconf.html
- AoB:

19/03 (8 UTC)

- OpenStack:
  - snaps-based testcases have been removed
  - heat_ims seems now fine (lots of race conditions have been detected and fixed)
    - it successfully runs in functest-virtual (+ local dev)
    - the first IMS tests fail sometimes in Orange ONAP Openlab (tempo?)
  - juju_epc is failing due to the removal of the former kernel
    - https://gitlab.eurecom.fr/oai/openairinterface5g/wikis/OpenAirKernelMainSetup
  - TempestCommon is being updated to avoid skipping tests on purpose (RefStack)
    - https://gerrit.opnfv.org/gerrit/67279
  - All tab results have been updated in wiki (the official docs have still to be updated)
- Alpine 3.9 is out:
  - https://gerrit.opnfv.org/gerrit/67292
  - https://gerrit.opnfv.org/gerrit/67293
  - https://gerrit.opnfv.org/gerrit/67294
- Gates:
  - test tools are asked to switch to XCI which is a misunderstanding between installer verification and test tools development workflow:
    - we need a SUT which can be verified by all Functest testcases (benchmarks and vnfs included)
    - here SUT doesn't have to be redeployed and must allow parallel testing
  - TSC confirmed that we are free to continue our gates asis.
- AoB:

12/03 (8 UTC)

- OpenStack:
  - Gates:
    - all gates seem fine vs 4 executors (out of heat_ims which sometimes fails)
    - allowing 6 executors seems too much (we do wait the end of the whole kubernetes testing chains which use 2 executors)
    - heat_ims has been hugely updated but it may remain a last race condition (cassandra or bono-sprout)
    - conf_utils was merged into tempest
      - https://gerrit.opnfv.org/gerrit/#/c/67183/
    - refstack_defcore shouldn't allow any skipped test (we could add a new tempest param in config)
    - Last Fuel os-nosdn-nofeature Hunter virtual deployment passed successfully Functest
  - Kubernetes:
    - functest-kubernetes hunter and latest are now verified in gates (check, daily, gate)
    - All versions have been updated according to last Kubernetes releases:
      - functest-kubernetes gambia is now selecting v1.11.8
        - https://gerrit.opnfv.org/gerrit/#/c/67215/
      - functest-kubernetes hunter is now selecting v1.13.4
        - https://gerrit.opnfv.org/gerrit/#/c/67212/
  The test list is now equal to the one executed by Sunobuoy (the regex filtering Conformance was incorrect)
  • https://github.com/cncf/k8s-conformance/blob/master/instructions.md
  • Junit files are now produced
    • https://gerrit.opnfv.org/gerrit/#c/67222/

* AoB:*
  * Minutes: http://ircbot.wl.linuxfoundation.org/meetings/opnfv-functest/2019/opnfv-functest.2019-03-12-08.06.html

05/03 (8 UTC)

  * Last stories
    * Cloudify docker images are no longer downloaded
    * all VNF images have been hugely reduced
    * cloudify_ims: https://gerrit.opnfv.org/gerrit/67092
    * vyos_vrouter: https://gerrit.opnfv.org/gerrit/67098
    * heat_ims: https://gerrit.opnfv.org/gerrit/67127
    * networking-bgpvpn and networking-sfc master are verified out of OPNFV
    * https://gerrit.opnfv.org/gerrit/#c/67955/
  * Gates:
    * functest-virtual is currently down (the number of Jenkins executors is being increased to 8)
    * heat_ims live testing is still failing in functest-virtual (it works in Orange Openlab. still under analysis)
  * Kubernetes
    * Clearwater could be deployed via Kubernetes:
      • all containers have been successfully deployed/tested
      • how not to duplicate Clearwater testing modules?
    * xrally-kubernetes?
  * todo lists:
    * conf_utils seem useless and should be merged into TempestCommon
    * pylint 10/10
    * clean config_functest.yaml
    * update the documentation (hunter and master test results)
    * etc...

* AoB:*

26/02 (8 UTC) Canceled (Holidays)
19/02 (8 UTC) Canceled (Holidays)
12/02 (8 UTC) Canceled

05/02 (8 UTC)

  * Action point follow-up:
    * rally_full passed successfully in Fuel master gates
      • the request about splitting our POD to several all-in-ones was sent last week
  * OpenStack
    * former cloudify images were removed and then our cloudify-based testcases have to be disabled (their descriptors are obsolete)
      • https://gerrit.opnfv.org/gerrit/#c/66833/
    * tempest were updated in Gambia to allow running interfaces_by_fixed_ip if one shared network is already defined
      • https://gerrit.opnfv.org/gerrit/#c/66837/
  * Gates:
    * it seems that Rally testcases can break few fonctional tests which define short timeouts (60 s)
      • rally_jobs can break neutron-tempest-plugin-api
        • https://gerrit.opnfv.org/gerrit/#c/66801/
      • rally_full (possibly tempest_scenario) may break few tests in tempest_full
    * all tempest testcases seem fine since rally_jobs and rally_full moved to specific Jenkins steps
    * we could consider moving rally testcases in benchmarking
• VNF must be hardened:
  • heat_ims sometimes failed due to live testing

29/01 (8 UTC)

• Action point follow-up:
  • Gnocchi is now optional in Rally: https://gerrit.opnfv.org/gerrit/66653
  • lots of Snaps subtests have been removed but it could now verify latest OpenStack
    • it's mostly unmaintained and it can't be updated in our containers (git commit id)
    • Steve refused to update requirements due to magnum support (Newton)
    • Snaps package has been renamed which may increase the work
    • few resources may be uncleared after Snaps testcases (mandatory)
• OpenStack Stein (functest-virtual is hosting an OS all-in-one master)
  • juju_epc and tempest_full pass vs OpenStack master:
    • https://gerrit.opnfv.org/gerrit/66705
    • https://gerrit.opnfv.org/gerrit/66687
    • https://gerrit.opnfv.org/gerrit/66663
  • rally_full is failing due to the default volume sizes (https://gerrit.opnfv.org/gerrit/66725)
  • only SIP testing is incomplete but heat_ims is considered as successful
• OpenStack Rocky:
  • tempest hunter and older are buggy when multiple shared networks (Functest in parallel)
  • interfaces_by_fixed_ip: https://review.openstack.org/#/c/615425/3
  • backend or update of tempest?
• Do we split our POD to several all-in-one to cover all our versions (6)?
• AoB:
• Minutes: http://ircbot.wl.linuxfoundation.org/meetings/opnfv-functest/2019/opnfv-functest.2019-01-29-08.01.html

22/01 (8 UTC)

• OPNFV Hackfest:
  • Functest related presentations were very well received
    • http://testresults.opnfv.org/functest/gambia/
    • http://testresults.opnfv.org/functest/functest2019/
  • VSpf and Yardstick teams are interested in benefits brought by Xtesting
  • easily deploying the full CI/CD toolchain via Xtesting should meet the current OPNFV strategy
  • Xtesting Ansible role may be reused by ONAP devs to setup external bots (external functional gates)
  • we will plan a meeting with Akraino to check if Xtesting and Functest can help the project
• Gates:
  • all Jenkins jobs hosted in Releng have been generated by collivier.xtesting
  • functest-virtual hosts an OS (Rocky) all-in-one which hosts a Kubernetes (v1.11) cluster:
    • cinder is ko after a full week (a full reinstall seems required)
    • floating ips are active after a too long duration (few tempest tests have been backlisting)
    • it's unclear if we can't find a K8s version for verifying all Functest containers from 1.11 to master
  • no progress on Apex installation to POD5 (https://jira.opnfv.org/browse/INFRA-324)
  • all xtesting gates are in place: https://build.opnfv.org/ci/view/tempest/
  • functest and functest-kubernetes jobs seem fine but jobs have mostly voted -1 due to SUT:
    • https://build.opnfv.org/ci/view/functest/
    • https://build.opnfv.org/ci/view/functest-kubernetes/
• Openstack:
  • (Heat) IMS is not always verified by SIP calls (the test is considered as passed if only one SIP test is ok)
    • http://testresults.opnfv.org/functest/functest2019/
  • possible activities about K8s testing:
    • integrate xrally-kubernetes: https://github.com/xrally/xrally-kubernetes
    • leverage on sonobuoy https://github.com/heptio/sonobuoy
    • add vnfs such as Clearwater: https://github.com/Intel-Corp/clearwater-kubernetes
    • allow e2e paralelling testing: https://github.com/kubernetes/community/blob/master/contributors/devel/e2e-tests.md
* add e2e tests such as performance: https://github.com/kubernetes/community/blob/master/contributors/devel/e2e-tests.md

* AoB:


15/01 (8 UTC) Canceled

08/01 (8 UTC) Canceled (OPNFV Hackfest)

01/01 (8 UTC) Canceled (holidays)