
Functest Release Notes Documentation

Release master

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OPNFV Fraser release note for Functest

1.1 Abstract

This document contains the release notes of the Functest project.

1.2 OPNFV Fraser Release

Functest deals with functional testing of the OPNFV solution. It includes test cases developed within the project, test cases developed in other OPNFV projects and it also integrates test cases from other upstream communities.

1.2.1 OpenStack

The internal test cases are:

- connection_check
- api_check
- snaps_health_check
- vping_ssh
- vping_userdata
- tempest_smoke_serial
- rally_sanity
- refstack_defcore
- patrole
- odl
- snaps_smoke

- neutron_trunk
- tempest_full_parallel
- rally_full
- cloudify_ims
- vyos_vrouter
- juju_epc

The OPNFV projects integrated into Functest framework for automation are:

- doctor
- bgpvpn
- odl-sfc
- barometer
- fds
- parser

1.2.2 Kubernetes

The internal test cases are:

- k8s_smoke
- k8s_conformance

The OPNFV projects integrated into Functest framework for automation are:

- stor4nfv
- clover

1.3 Release Data

Project	functest
Release designation	Fraser
Repository branch	stable/fraser
Repository tag	opnfv-6.2.0
Release date	June 29th 2018

1.4 Deliverables

1.4.1 Software

Functest Docker images (OpenStack):

- <https://hub.docker.com/r/opnfv/functest-healthcheck>
- <https://hub.docker.com/r/opnfv/functest-smoke>

- <https://hub.docker.com/r/opnfv/funcstest-features>
- <https://hub.docker.com/r/opnfv/funcstest-components>
- <https://hub.docker.com/r/opnfv/funcstest-vnf>
- <https://hub.docker.com/r/opnfv/funcstest-parser>

Functest Docker images (Kubernetes):

- <https://hub.docker.com/r/opnfv/funcstest-kubernetes-healthcheck>
- <https://hub.docker.com/r/opnfv/funcstest-kubernetes-smoke>
- <https://hub.docker.com/r/opnfv/funcstest-kubernetes-features>

Docker tag for Fraser release: opnfv-6.2.0 Docker tag for Fraser series: fraser

1.4.2 Documents

- Config Guide: <http://docs.opnfv.org/en/stable-fraser/submodules/funcstest/docs/testing/user/configguide/index.html>
- User Guide: <http://docs.opnfv.org/en/stable-fraser/submodules/funcstest/docs/testing/user/userguide/index.html>
- Developer Guide: <http://docs.opnfv.org/en/stable-fraser/submodules/funcstest/docs/testing/developer/devguide/index.html>
- API Docs: <http://funcstest.readthedocs.io/en/latest/>

1.5 Version change

1.5.1 New test cases

- neutron_trunk
- patrole
- juju_epc
- k8s_smoke
- k8s_conformance
- stor4nfv
- clover

1.5.2 Key changes

- update test cases and containers to OpenStack Pike
- move the framework into a separate project: [Xtesting](#)
- ease running all containers thanks to default values
- clean interfaces with OPNFV Installers and Features
- rewrite all vnfs to allow multiple tests in parallel
- fully support non-default region names and Keystone v3 domains

- refactor all tempest-based test cases (e.g. refstack_defcore)
- remove obsolete OpenStack and Functest utils
- verify all changes via doc8 and yamllint too
- generate reports for all tempest-based test cases

1.5.3 Key benefits

- the enduser can run all tests by setting only one input (EXTERNAL_NETWORK)
- the developer can only work on the test suites without diving into CI/CD integration
- both OpenStack and Kubernetes deployments can be verified
- Functest test cases are trustable as they meet the best coding rules (unit tests, coverage, linters, etc.)
- Functest can be reused in other projects (e.g. [ONS: Re-using OPNFV framework tests for LFN projects](#))

1.5.4 Code quality

- pylint: ~9.5/10
- code coverage: ~70%

1.6 Useful links

- wiki project page: https://wiki.opnfv.org/opnfv_functional_testing
- Functest git repository: <https://git.opnfv.org/cgit/functest>
- Functest CI dashboard: <https://build.opnfv.org/ci/view/functest/>
- JIRA dashboard: <https://jira.opnfv.org/secure/Dashboard.jspa?selectPageId=10611>
- Functest IRC channel: #opnfv-functest
- Reporting page: <http://testresults.opnfv.org/reporting/fraser/functest/functest.html>

Thanks to the analysis of the official OPNFV results and local tests (see [Orange ONAP Openlab](#)), Functest is trustable for verifying all OPNFV Fraser installers and more generally classical OpenStack Pike and Kubernetes deployments.

It should be noted that:

- any failed result highlights side effects for end users
- OpenStack scenarios which don't pass tempest_smoke_serial break the upstream rules (and then decrease the overall quality) as all patches are tested vs tempest in OpenStack gating

2.1 apex

2.1.1 os-nosdn-nofeature-noha

testcase	date	pod_name	result	jira
connection_check	2018-06-24 21:40:33	lf-pod1	PASS	
api_check	2018-06-24 21:50:59	lf-pod1	PASS	
snaps_health_check	2018-06-24 21:51:38	lf-pod1	PASS	
vping_ssh	2018-06-24 21:52:27	lf-pod1	PASS	
vping_userdata	2018-06-24 21:53:10	lf-pod1	PASS	
tempest_smoke_serial	2018-06-24 22:05:20	lf-pod1	PASS	
rally_sanity	2018-06-24 22:26:24	lf-pod1	PASS	
refstack_defcore	2018-06-24 22:33:44	lf-pod1	PASS	
patrole	2018-06-24 22:36:47	lf-pod1	PASS	
snaps_smoke	2018-06-24 23:18:09	lf-pod1	PASS	
neutron_trunk	2018-06-24 23:20:29	lf-pod1	PASS	
cloudify_ims	2018-06-24 23:50:53	lf-pod1	PASS	
vyos_vrouter	2018-06-20 17:56:48	lf-pod1	PASS	
juju_epc	2018-06-20 18:42:19	lf-pod1	PASS	

2.1.2 os-nosdn-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-06-25 08:59:21	lf-pod1	PASS	
api_check	2018-06-25 09:12:17	lf-pod1	PASS	
snaps_health_check	2018-06-25 09:13:00	lf-pod1	PASS	
vping_ssh	2018-06-25 09:13:52	lf-pod1	PASS	
vping_userdata	2018-06-25 09:15:14	lf-pod1	PASS	
tempest_smoke_serial	2018-06-25 09:30:42	lf-pod1	PASS	
rally_sanity	2018-06-25 09:56:10	lf-pod1	PASS	
refstack_defcore	2018-06-25 09:59:40	lf-pod1	PASS	
patrole	2018-06-25 10:02:45	lf-pod1	PASS	
snaps_smoke	2018-06-25 10:58:29	lf-pod1	PASS	
neutron_trunk	2018-06-25 11:00:59	lf-pod1	PASS	
cloudify_ims	2018-06-25 11:30:08	lf-pod1	PASS	
vyos_vrouter	2018-06-25 11:48:52	lf-pod1	PASS	
juju_epc	2018-06-25 12:31:10	lf-pod1	PASS	

2.1.3 os-odl-nofeature-noha

testcase	date	pod_name	result	jira
connection_check	2018-06-21 19:15:31	lf-pod1	PASS	
api_check	2018-06-21 19:25:15	lf-pod1	PASS	
snaps_health_check	2018-06-21 19:26:15	lf-pod1	PASS	
vping_ssh	2018-06-21 19:33:49	lf-pod1	FAIL	
vping_userdata	2018-06-21 19:34:31	lf-pod1	PASS	
tempest_smoke_serial	2018-06-21 19:46:41	lf-pod1	PASS	
rally_sanity	2018-06-21 20:08:17	lf-pod1	PASS	
refstack_defcore	2018-06-21 20:17:08	lf-pod1	FAIL	
patrole	2018-06-21 20:20:20	lf-pod1	PASS	
snaps_smoke	2018-06-21 21:13:42	lf-pod1	FAIL	
odl	2018-06-21 20:20:38	lf-pod1	PASS	
neutron_trunk	2018-06-21 21:16:06	lf-pod1	PASS	
cloudify_ims	2018-06-21 21:29:28	lf-pod1	FAIL	
vyos_vrouter	2018-06-21 23:36:49	lf-pod1	FAIL	
juju_epc	2018-06-22 00:09:16	lf-pod1	FAIL	

2.1.4 os-odl-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-06-25 20:35:00	lf-pod1	PASS	
api_check	2018-06-25 20:47:16	lf-pod1	PASS	
snaps_health_check	2018-06-25 20:48:52	lf-pod1	PASS	
vping_ssh	2018-06-25 20:50:43	lf-pod1	PASS	
vping_userdata	2018-06-25 20:52:33	lf-pod1	PASS	
tempest_smoke_serial	2018-06-25 21:09:07	lf-pod1	FAIL	
rally_sanity	2018-06-25 21:33:49	lf-pod1	PASS	
refstack_defcore	2018-06-25 21:36:55	lf-pod1	FAIL	
patrole	2018-06-25 21:40:21	lf-pod1	PASS	
snaps_smoke	2018-06-25 22:20:20	lf-pod1	FAIL	
odl	2018-06-25 21:40:43	lf-pod1	PASS	
neutron_trunk	2018-06-25 22:22:52	lf-pod1	FAIL	
cloudify_ims	2018-06-25 22:24:55	lf-pod1	FAIL	
vyos_vrouter	2018-06-25 22:26:54	lf-pod1	FAIL	
juju_epc	2018-06-25 22:27:16	lf-pod1	FAIL	

2.1.5 os-ovn-nofeature-noha

testcase	date	pod_name	result	jira
connection_check	2018-06-22 03:36:05	lf-pod1	PASS	
api_check	2018-06-22 03:45:17	lf-pod1	PASS	
snaps_health_check	2018-06-22 03:45:50	lf-pod1	PASS	
vping_ssh	2018-06-22 03:46:27	lf-pod1	PASS	
vping_userdata	2018-06-22 03:47:08	lf-pod1	PASS	
tempest_smoke_serial	2018-06-22 04:00:34	lf-pod1	FAIL	
rally_sanity	2018-06-22 04:21:54	lf-pod1	PASS	
refstack_defcore	2018-06-22 04:24:52	lf-pod1	PASS	
patrole	2018-06-22 04:27:51	lf-pod1	FAIL	
snaps_smoke	2018-06-22 05:10:38	lf-pod1	PASS	
neutron_trunk	2018-06-22 05:12:23	lf-pod1	FAIL	
cloudify_ims	2018-06-22 06:18:55	lf-pod1	FAIL	
vyos_vrouter	2018-06-22 06:37:18	lf-pod1	PASS	
juju_epc	2018-06-22 06:40:52	lf-pod1	FAIL	

2.2 compass

2.2.1 os-nosdn-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-06-29 11:56:27	huawei-pod2	PASS	
api_check	2018-06-29 12:06:41	huawei-pod2	PASS	
snaps_health_check	2018-06-29 12:08:13	huawei-pod2	PASS	
vping_ssh	2018-06-29 12:10:13	huawei-pod2	PASS	
vping_userdata	2018-06-29 12:11:59	huawei-pod2	PASS	
tempest_smoke_serial	2018-06-29 12:28:07	huawei-pod2	FAIL	
rally_sanity	2018-06-29 12:58:42	huawei-pod2	FAIL	COMPASS-597
refstack_defcore	2018-06-29 13:02:37	huawei-pod2	PASS	
patrole	2018-06-29 13:05:45	huawei-pod2	PASS	
snaps_smoke	2018-06-29 14:00:12	huawei-pod2	PASS	
neutron_trunk	2018-06-29 14:03:35	huawei-pod2	PASS	
cloudify_ims	2018-06-29 15:18:53	huawei-pod2	FAIL	
vyos_vrouter	2018-06-27 19:06:55	huawei-pod2	PASS	
juju_epc	2018-06-27 19:55:47	huawei-pod2	PASS	

2.2.2 os-odl_l3-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-06-29 01:17:01	huawei-pod2	PASS	
api_check	2018-06-29 01:27:17	huawei-pod2	PASS	
snaps_health_check	2018-06-29 01:28:19	huawei-pod2	FAIL	
vping_ssh	2018-06-27 03:58:19	huawei-pod2	PASS	
vping_userdata	2018-06-27 03:58:58	huawei-pod2	PASS	
tempest_smoke_serial	2018-06-25 03:18:29	huawei-pod2	FAIL	
rally_sanity	2018-06-25 03:19:34	huawei-pod2	FAIL	
refstack_defcore	2018-06-25 03:23:02	huawei-pod2	PASS	
patrole	2018-06-25 03:26:15	huawei-pod2	PASS	
snaps_smoke	2018-06-25 04:13:18	huawei-pod2	FAIL	
odl	2018-05-15 05:26:20	huawei-pod2	PASS	
neutron_trunk	2018-06-25 04:15:59	huawei-pod2	PASS	
cloudify_ims	2018-06-27 05:08:03	huawei-pod2	FAIL	
vyos_vrouter	2018-06-27 05:32:53	huawei-pod2	PASS	
juju_epc	2018-06-27 06:18:50	huawei-pod2	PASS	

2.2.3 k8-nosdn-nofeature-ha

testcase	date	pod_name	result	jira
k8s_smoke		huawei-pod2		
k8s_conformance		huawei-pod2		

2.3 daisy

2.3.1 os-nosdn-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-04-25 06:59:37	zte-pod2	PASS	
api_check	2018-04-25 07:10:47	zte-pod2	PASS	
snaps_health_check	2018-04-25 07:11:29	zte-pod2	PASS	
vping_ssh	2018-04-25 07:12:35	zte-pod2	PASS	
vping_userdata	2018-04-25 07:13:35	zte-pod2	PASS	
tempest_smoke_serial	2018-04-25 07:29:32	zte-pod2	PASS	
rally_sanity	2018-04-25 07:57:31	zte-pod2	PASS	
refstack_defcore	2018-04-25 08:02:24	zte-pod2	PASS	
patrole	2018-04-25 08:06:40	zte-pod2	PASS	
snaps_smoke	2018-04-25 09:00:28	zte-pod2	PASS	
neutron_trunk		zte-pod2		
cloudify_ims	2018-04-25 09:22:50	zte-pod2	FAIL	
vyos_vrouter	2018-04-25 09:50:01	zte-pod2	PASS	
juju_epc	2018-04-25 10:37:44	zte-pod2	PASS	

2.3.2 os-odl-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-04-24 21:22:19	zte-pod2	PASS	
api_check	2018-04-24 21:33:28	zte-pod2	PASS	
snaps_health_check	2018-04-24 21:34:09	zte-pod2	PASS	
vping_ssh	2018-04-24 21:37:52	zte-pod2	PASS	
vping_userdata	2018-04-24 21:38:54	zte-pod2	PASS	
tempest_smoke_serial	2018-04-24 21:54:24	zte-pod2	PASS	
rally_sanity	2018-04-24 22:22:44	zte-pod2	PASS	
refstack_defcore	2018-04-24 22:28:32	zte-pod2	PASS	
patrole	2018-04-24 22:34:25	zte-pod2	PASS	
snaps_smoke	2018-04-24 23:24:54	zte-pod2	FAIL	
odl	2018-04-24 22:34:46	zte-pod2	PASS	
neutron_trunk		zte-pod2		
cloudify_ims	2018-04-25 00:00:01	zte-pod2	FAIL	
vyos_vrouter	2018-04-25 01:34:52	zte-pod2	PASS	
juju_epc	2018-04-25 02:03:48	zte-pod2	FAIL	

2.4 fuel(amd64)

2.4.1 os-nosdn-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-05-28 13:19:03	lf-pod2	PASS	
api_check	2018-05-28 13:34:24	lf-pod2	PASS	
snaps_health_check	2018-05-28 13:35:24	lf-pod2	PASS	
vping_ssh	2018-05-28 13:37:05	lf-pod2	PASS	
vping_userdata	2018-05-28 13:38:25	lf-pod2	PASS	
tempest_smoke_serial	2018-05-28 14:02:24	lf-pod2	PASS	
rally_sanity	2018-05-28 14:40:14	lf-pod2	PASS	
refstack_defcore	2018-05-28 14:44:43	lf-pod2	PASS	
patrole	2018-05-28 14:49:51	lf-pod2	PASS	
snaps_smoke	2018-05-28 16:02:47	lf-pod2	PASS	
neutron_trunk	2018-05-28 16:07:20	lf-pod2	PASS	
cloudify_ims	2018-05-28 16:21:53	lf-pod2	FAIL	
vyos_vrouter	2018-05-28 17:14:28	lf-pod2	FAIL	
juju_epc	2018-05-28 18:08:07	lf-pod2	PASS	

2.4.2 os-odl-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-05-29 18:56:33	lf-pod2	PASS	
api_check	2018-05-29 19:07:45	lf-pod2	PASS	
snaps_health_check	2018-05-29 19:08:23	lf-pod2	PASS	
vping_ssh	2018-05-29 19:09:25	lf-pod2	PASS	
vping_userdata	2018-05-29 19:10:14	lf-pod2	PASS	
tempest_smoke_serial	2018-05-29 19:29:16	lf-pod2	FAIL	
rally_sanity	2018-05-29 19:59:06	lf-pod2	PASS	
refstack_defcore	2018-05-29 20:04:48	lf-pod2	FAIL	
patrole	2018-05-29 20:09:08	lf-pod2	PASS	
snaps_smoke	2018-05-29 21:03:10	lf-pod2	PASS	
odl	2018-05-29 20:09:31	lf-pod2	PASS	
neutron_trunk	2018-05-29 21:06:24	lf-pod2	FAIL	
cloudify_ims	2018-05-29 21:12:00	lf-pod2	FAIL	
vyos_vrouter	2018-05-29 21:17:35	lf-pod2	FAIL	
juju_epc	2018-05-30 01:44:01	lf-pod2	FAIL	

2.5 fuel(arm64)

2.5.1 os-nosdn-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-06-05 11:01:32	arm-pod6	PASS	
api_check	2018-06-05 11:32:38	arm-pod6	PASS	
snaps_health_check	2018-06-05 11:34:49	arm-pod6	PASS	
vping_ssh	2018-06-05 11:38:25	arm-pod6	PASS	
vping_userdata	2018-06-05 11:41:28	arm-pod6	PASS	
tempest_smoke_serial	2018-06-05 12:38:36	arm-pod6	PASS	
rally_sanity	2018-06-05 13:49:14	arm-pod6	PASS	
refstack_defcore	2018-06-05 14:08:21	arm-pod6	PASS	
patrole	2018-06-05 14:23:56	arm-pod6	FAIL	
snaps_smoke	2018-06-05 17:19:43	arm-pod6	PASS	
neutron_trunk	2018-06-05 17:34:35	arm-pod6	PASS	

2.5.2 os-odl-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-06-01 06:01:27	arm-pod6	PASS	
api_check	2018-06-01 06:31:53	arm-pod6	PASS	
snaps_health_check	2018-06-01 06:33:52	arm-pod6	PASS	
vping_ssh	2018-06-01 06:37:25	arm-pod6	PASS	
vping_userdata	2018-06-01 06:40:26	arm-pod6	PASS	
tempest_smoke_serial	2018-06-01 07:34:32	arm-pod6	PASS	
rally_sanity	2018-06-01 08:41:07	arm-pod6	PASS	
refstack_defcore	2018-06-01 09:00:13	arm-pod6	PASS	
patrole	2018-06-01 09:15:33	arm-pod6	PASS	
snaps_smoke	2018-06-01 12:04:59	arm-pod6	PASS	
neutron_trunk	2018-06-01 12:19:52	arm-pod6	FAIL	

2.6 joid

2.6.1 os-nosdn-nofeature-ha

testcase	date	pod_name	result	jira
connection_check	2018-06-07 04:28:49	huawei-pod12	PASS	
api_check	2018-06-07 04:36:58	huawei-pod12	FAIL	
snaps_health_check	2018-05-31 05:15:29	huawei-pod12	PASS	
vping_ssh	2018-05-31 05:16:39	huawei-pod12	PASS	
vping_userdata	2018-05-31 05:17:44	huawei-pod12	PASS	
tempest_smoke_serial	2018-05-31 05:32:11	huawei-pod12	FAIL	
rally_sanity	2018-05-31 05:35:31	huawei-pod12	FAIL	
refstack_defcore	2018-05-31 05:44:03	huawei-pod12	FAIL	
patrole	2018-05-31 05:47:21	huawei-pod12	FAIL	
snaps_smoke	2018-05-31 06:28:48	huawei-pod12	FAIL	
neutron_trunk		huawei-pod12		
cloudify_ims	2018-05-31 06:29:11	huawei-pod12	FAIL	
vyos_vrouter	2018-05-31 06:29:19	huawei-pod12	FAIL	
juju_epc	2018-05-31 06:29:27	huawei-pod12	FAIL	

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