

Xprojects Collaboration on Integration

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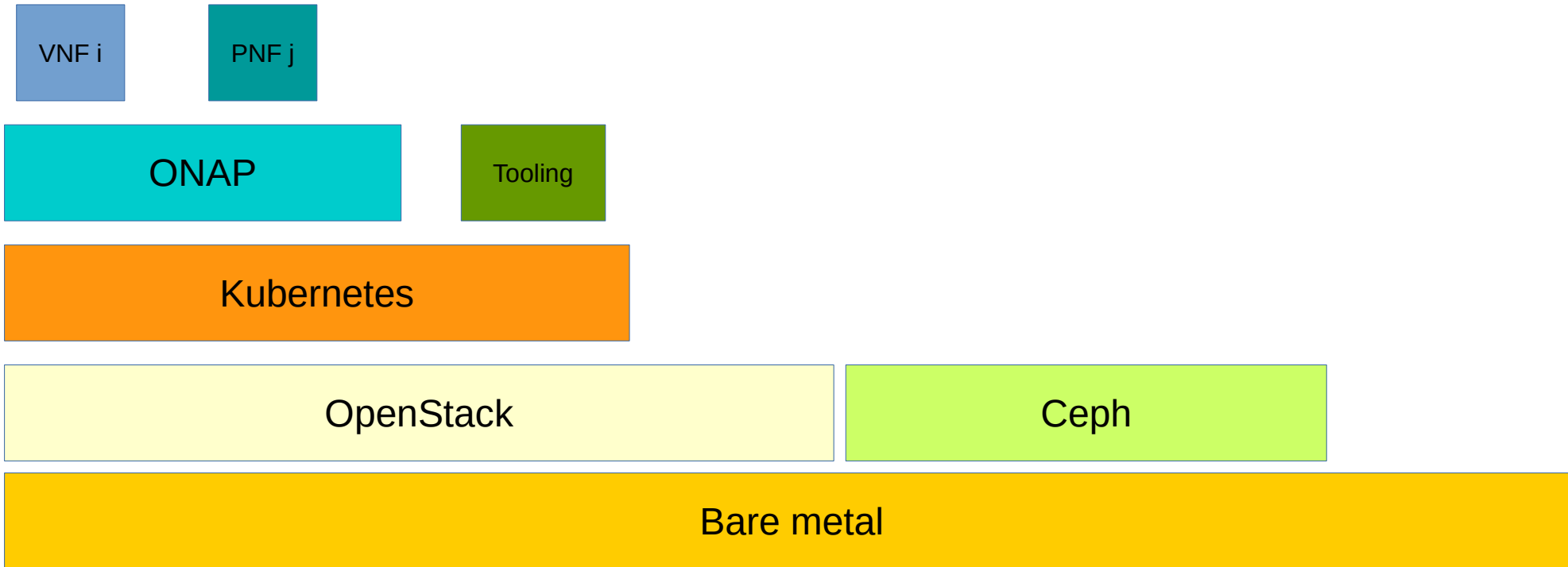
ONAP DDF, Nozay, 8th of January 2019

Working in integration project is not easy

- Lots of projects
- Lots of subprojects
- Lots of dependencies
- Lots of interfaces
- Lots of tools
- Lots of formats
- Lots of scenarios/versions/

« L'enfer, c'est les autres »

Testing ONAP, only ONAP ?



Testing ONAP, only ONAP ?

Who shall be blamed if there is an issue....troubleshooting is not trivial and time consuming

How can we be sure that an ONAP issue is due to ONAP...

... without reinventing the wheel ?

How can we isolate the infrastructure related errors more quickly ?

How to face such challenges ?

CI/CD

- Run the same tests on different environments
- Run the tests regularly i.e all the time...(not only during the release period)
- Share the results and report the issue in real time
- Focus on really automatable test cases (i.e not a chaining of scripts with manual operations)

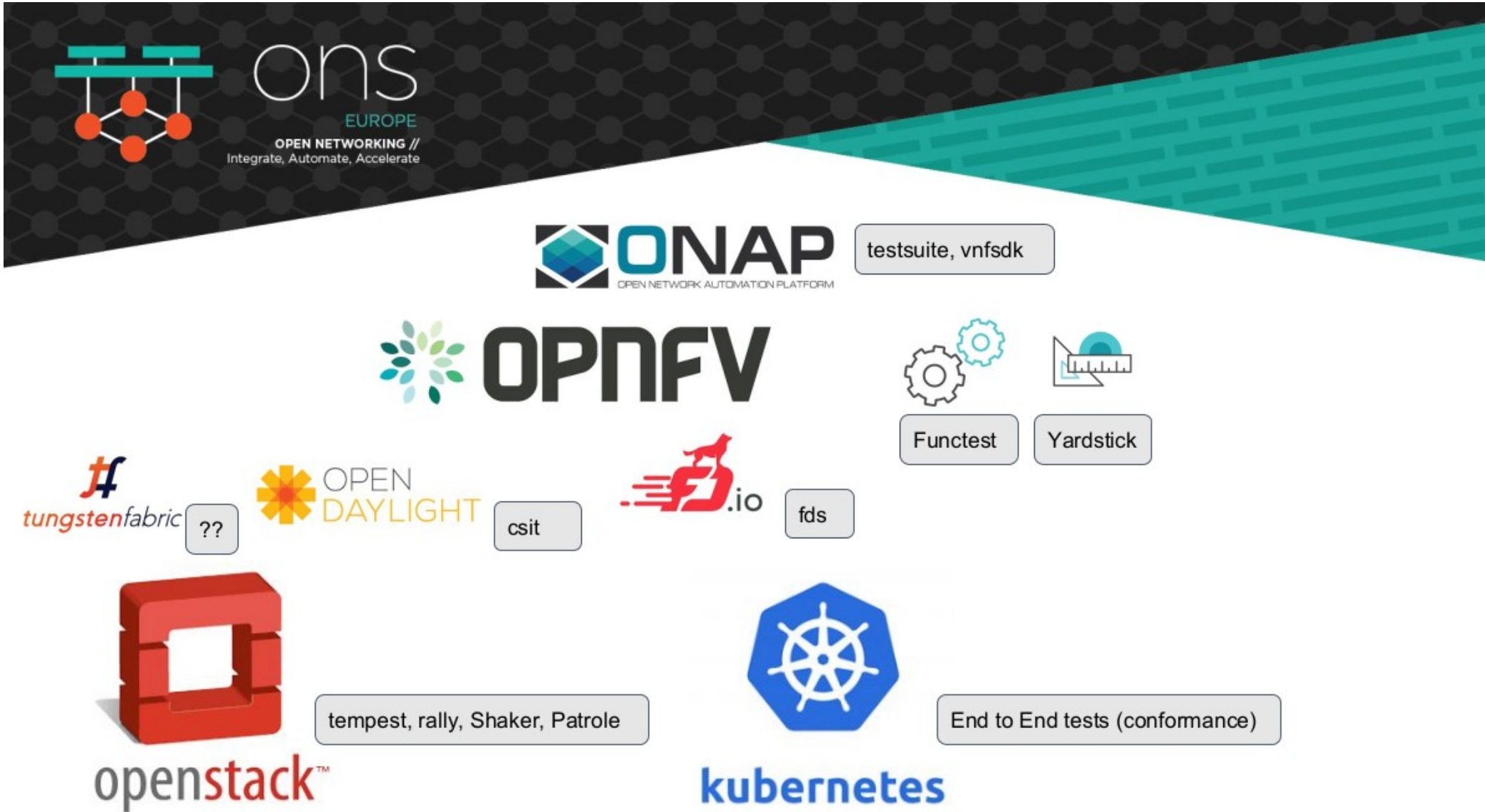
Leverage existing projects

All the stack components can be tested through upstream test projects , ensure that the infrastructure is correct regularly before running ONAP tests
stop testing ONAP if infrastructure problems are detected

Re-use existing frameworks

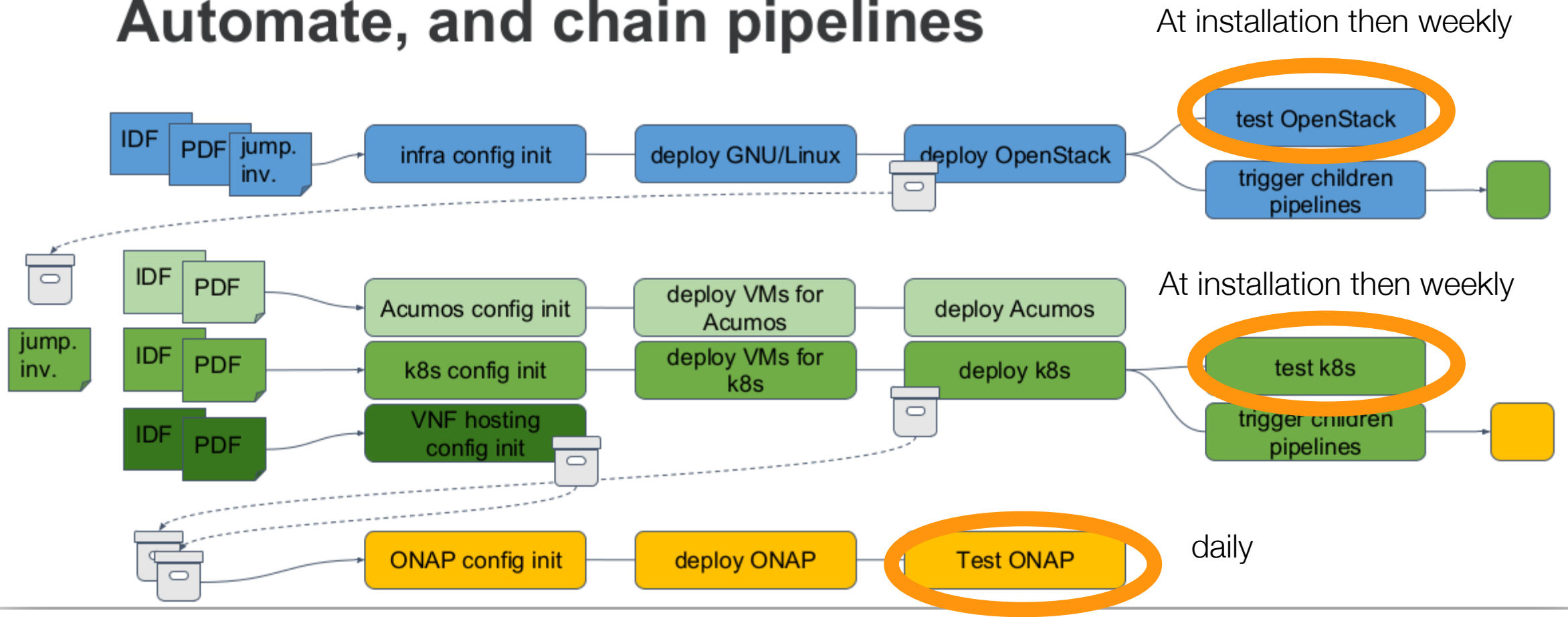
Do not reinvent the wheel
Try to keep consistency in the way tests are executed and processed (reuse xtesting framework)

We are not alone...in LFN...and beyond



CI/CD can be managed to bring trust

Automate, and chain pipelines



Infra testing prior to ONAP tests : OpenStack Weekly tests

Functest Results

 OpenLab: OpenStack Monitoring

79.0% 
LAST CHECK TREND

healthcheck

2018-12-17 20:34

100.0%

LAST CHECK

▶ Full results

smoke

2018-12-17 20:34

100.0%

LAST CHECK

▶ Full results

benchmarking

2018-12-17 20:34

100.0%

LAST CHECK

▶ Full results

components

2018-12-17 20:34

33.0%

LAST CHECK

vnf

2018-12-17 20:34

60.0%

LAST CHECK

Developped by



Integrated by



healthcheck

2018-12-17 20:34

100.0%

LAST CHECK

Full results

- ✓ cinder_test
- ✓ glancev2
- ✓ glancev1
- ✓ ironic_health_check
- ✓ baremetalnetwork2
- ✓ baremetalnetwork1
- ✓ vping_userdata
- ✓ vping_ssh
- ✓ vncready1
- ✓ vncready2
- ✓ api_check
- ✓ connection_check

smoke

2018-12-17 20:34

100.0%

LAST CHECK

Full results

- ✓ patrol
- ✓ ironic_smoke
- ✓ rally_sanity
- ✓ neutron-tempest-plugin-api
- ✓ tempest_smoke
- ✓ reftack_defcore

benchmarking

2018-12-17 20:34

100.0%

LAST CHECK

Full results

- ✓ shaker
- ✓ vmlp

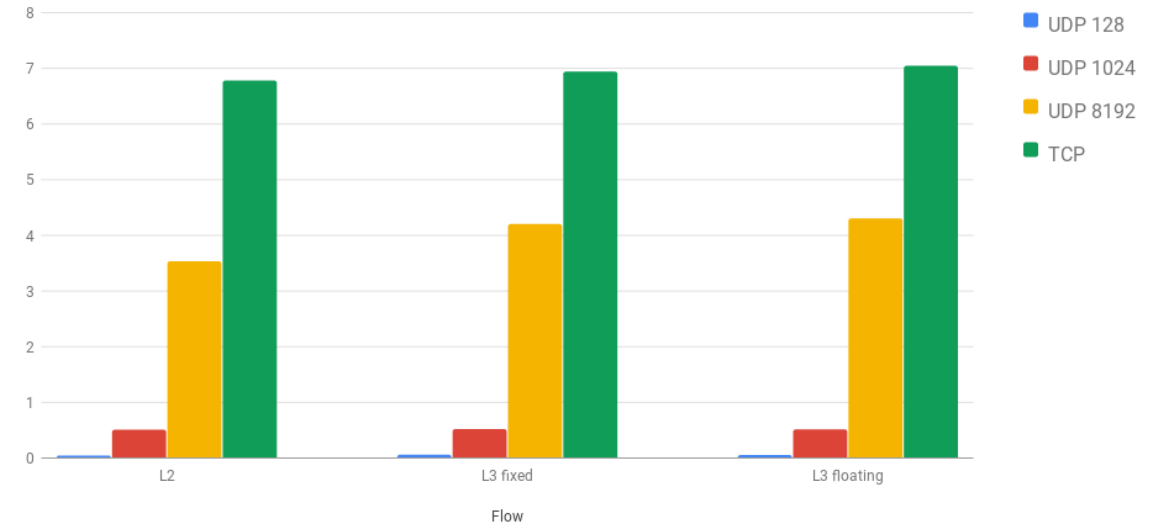
Rally verification result

Verification UUID	Status	Started at	Finished at	Tests count	Tests duration, sec	success	skipped	expected failures	unexpected success	failures
05dbace7-bf9f-4dd0-87e2-d13734e3f3b1	finished	2018-12-15T13:21:17	2018-12-15T13:27:44	106	367.056	87	19	0	0	0
Filter tests by status:						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

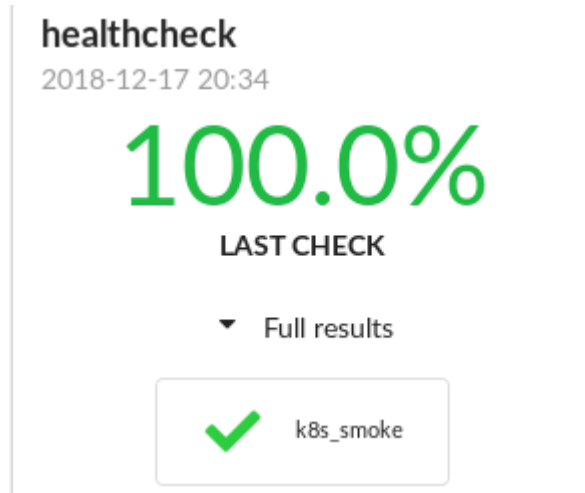
Test name (shown 106) 05dbace7-bf9f-4dd0-87e2-d13734e3f3b1

tempest.api.compute.flavors.test_flavors.FlavorsV2TestJSON.test_get_flavor

OpenStack Data Plane Performance (Gbps)
inter-node vxlan Open vSwitch agent



Infr testing prior to ONAP tests : Kubernetes Weekly tests



Developped by



Integrated by

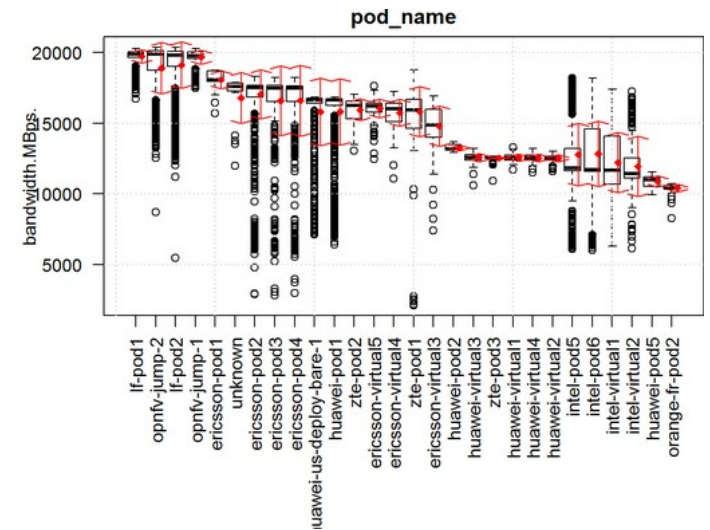


More labs, more tests, more trust

Always interesting to have several sources

Avoid manual configurations (done once on a lab on which a limited number of people have access) and force real automation. Tests must work automatically on all the labs.

- Increase trustability (possible to see the influence of the installation/version/hardware/...), could be used in the future for gating
- Pharos lab from OPNFV could be leverage with an installation of ONAP as an OPNFV scenario
OPNFV infra installation needed or ONAP scenario could be chained on a existing kubernetes infrastructure ?



Conclusions

Integration of OPNFV functest infrastructure test suites in ONAP integration CI/CD for Dublin

Allow external CI/CD to report results on master branch to consolidate integration testing ?

Discuss with OPNFV if it is possible to extend the mission of Pharos federation and include ONAP scenario ?



ONAP

OPEN NETWORK AUTOMATION PLATFORM

Thank You!