

Adding CI/CD lab instance guide

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June 22, 2020

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Outline

Disclaimer

Motivation

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Case study

Summary

Disclaimer

- Thanks to all Integration contributors
- External code contributions (unless stated otherwise)
- <https://onap-doc.readthedocs.io/projects/onap-integration/en/latest/onap-integration-ci.html>

Motivation

- Specific subset of components
- Specific deployment environment
- Verification procedures development

- Decrease verification overhead
- Transfer responsibilities
- Increase *bus factor* (with proper maintenance and automation)

- More time for feature development
- Improved lab utilization
 - Possibly smaller instance sets
 - *After-hours* long-running tests

Walkthrough

Prerequisites

- Cloud provider/on-premises
- Infrastructure setup
- ONAP deployment
- Test procedures

- https://docs.onap.org/en/latest/submodules/oam.git/docs/oam_setup_kubernetes_rancher.html
- <https://git.onap.org/integration/tree/deployment>
 - AKS
 - OpenStack (currently: with Heat)

- https://docs.onap.org/en/latest/submodules/oom.git/docs/oom_quickstart_guide.html
- https://gitlab.com/Orange-OpenSource/lfn/onap/onap_oom_automatic_installation

- <https://pypi.org/project/xtesting>
- <https://gitlab.com/Orange-OpenSource/lfn/onap/integration/xtesting>

Case study

- On-premises OpenStack (no Heat)
- ONAP components subset
- Security tests

Virtualized staging environment

- `https://git.onap.org/integration/tree/bootstrap/vagrant-minimal-onap`
- `https://gerrit.onap.org/r/c/integration/+/109250` (and later)

Component subsets

- `https://git.onap.org/oam/tree/kubernetes/onap/resources/environments/core-onap.yaml`
- `https://git.onap.org/oam/tree/kubernetes/onap/resources/overrides/sm-onap.yaml`

Security checks

- <https://git.onap.org/integration/tree/test/security>
- <https://gitlab.com/Orange-OpenSource/lfn/onap/integration/xtesting/-/commit/e6b4b78ae0f1b40ac09b2f093a56442fbd2f7ec1>

Summary

- Most work already done
- Detailed documentation available
- Local development/staging environment

Future work

- Complete review
- Share collected results
- **Stretch goal:** on-demand lab setup

Thank you!

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