CloudSIG Update

CentOS DOJO Brussels 2020

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Agenda

- Achievements during last year

- Releases roadmap

- Challenges we are facing

- How to contribute to CloudSIG

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RDO distro update

What Happened in 2019

- **RDO Stein Released**
  - April 2019
- **RDO Train Released**
  - October 2019
- **Switch to Ceph Nautilus from Storage SIG**
- **Getting ready for CentOS 8**
- **Use Podman/Buildah as container engine with TripleO**
- **Improve OpenStack clients update in Fedora**

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Cloud SIG in numbers in 2019

Packages

Commits

Deps: 520

Builds

OpenStack: 330

Commits: 918

CBS: 1525

Lines changed: 13890

RDO Trunk: 37095

Authors: 65

FTBFS: 445

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CentOS 8 adoption: the plan

Use Fedora as test-bed for CentOS 8/python3

- Dual python specs
- Validate python 3 and integration

Train is the last release on CentOS 7

Ussuri will be CentOS 8 only (ETA May '20)

Train on CentOS 8

- RDO Train Trunk on CentOS 8 (unsigned)
- Signed packages under discussion

What about modules

- No plans on modularization

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CentOS 8 adoption: challenges

CentOS divergence from Fedora

Timing issues

- Python2 support removed upstream
- Missing python3 libraries in CentOS 7.7

Missing BRs

Sync with other SIGs

Coordination with upstream

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CentOS 8 adoption: where we are

Fedora Copr based deps available

Unsigned RDO Trunk repos

- https://trunk.rdoproject.org

CI Jobs running with CentOS 8

Make upstream work with CentOS 8

- Devstack, packstack, TripleO, kolla

CBS builds for CentOS 8 in progress

Working with other SIGs

- Virt, Storage, OpsTools, Messaging, PaaS

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CentOS Stream expectations

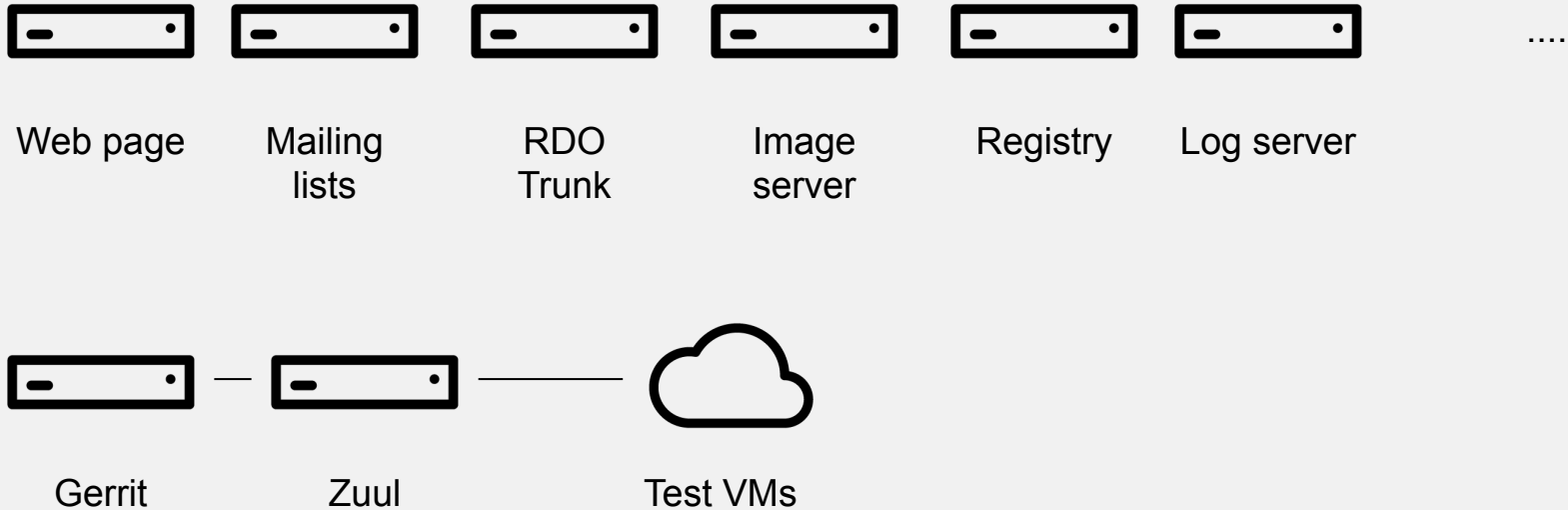**Focus on building for CentOS 8**

CentOS Stream can help on two main ways

- Earlier feedback on minor CentOS updates
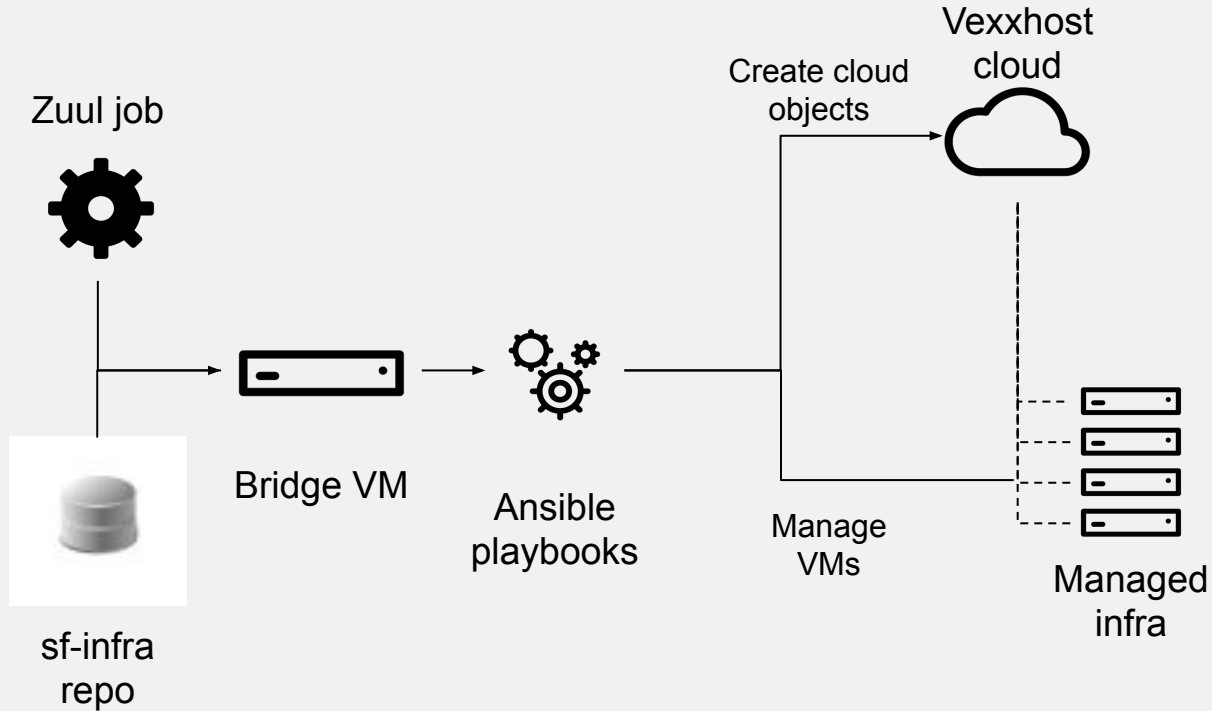- Transition to new major CentOS releases

https://blogs.rdoproject.org/2019/10/rdo-centos-stream/

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Infra update

RDO Infra

Web page · Mailing lists · RDO Trunk · Image server · Registry · Log server · ....

Gerrit · Zuul · Test VMs

Cloud provider migration and infra-as-code

Vexxhost cloud

Zuul job

Create cloud objects

Bridge VM

Ansible playbooks

Manage VMs

Managed infra

sf-infra repo

```
git clone https://softwarefactory-project.io/r/software-factory/sf-infra
```

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With great power...

- Playbooks are automatically applied when changes are merged, so
  - Need tests!

DevOps Borat
@DEVOPS_BORAT

To make error is human. To propagate error to all server in automatic way is #devops.

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…comes lots of testing

- Using molecule (https://github.com/ansible/molecule) for Ansible role testing
 - Run check job in Zuul as a pre-requisite
  - Using podman as driver
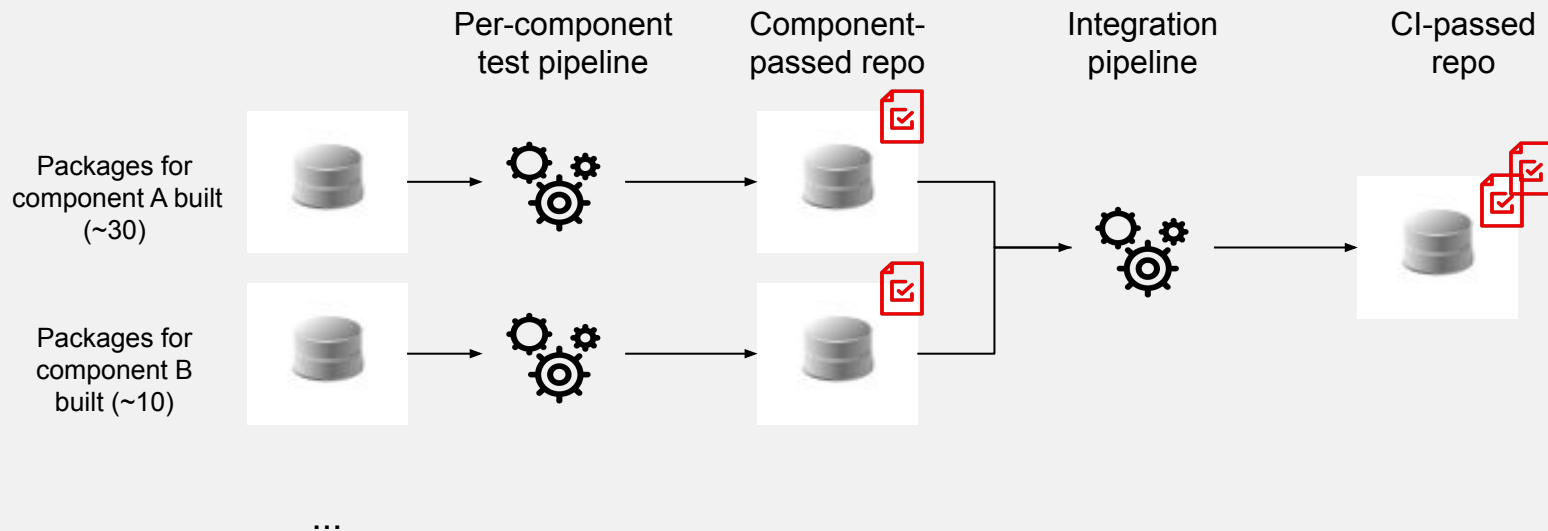
Results

Show all details / Hide all details

▲ Result	▼ Test
Passed *(show details)*	roles/afs-monitoring/molecule/default/molecule.yml::test
Passed *(show details)*	roles/backup-monitoring/molecule/default/molecule.yml::test
Passed *(show details)*	roles/dlrn-server/molecule/default/molecule.yml::test
Passed *(show details)*	roles/rdotrunk-checks/molecule/default/molecule.yml::test
Passed *(show details)*	roles/swap/molecule/default/molecule.yml::test

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Component-based promotion: before

Packages
built
(300+)

Periodic job
tests whole
repo

CI-passed
repo
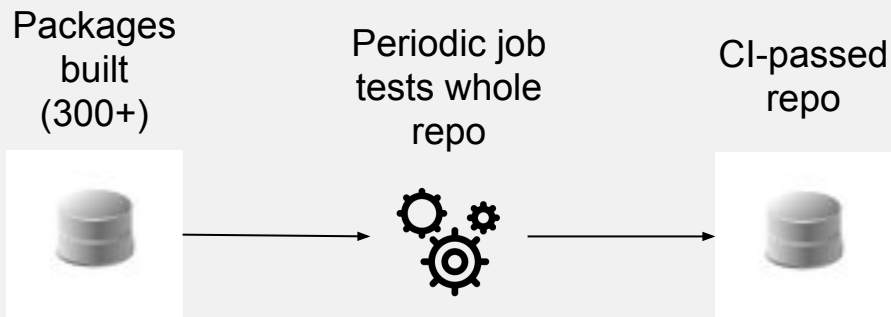
- Old way: simple, straightforward, but as soon as you have an issue in one out of 300+ packages, you are doomed!

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Component-based promotion: after

Per-component test pipeline • Component-passed repo • Integration pipeline • CI-passed repo

Packages for component A built (~30)

Packages for component B built (~10)

...

- Components (15) defined already
- PoC successful
- Currently building the whole CI pipeline, debuts for Ussuri on CentOS 8
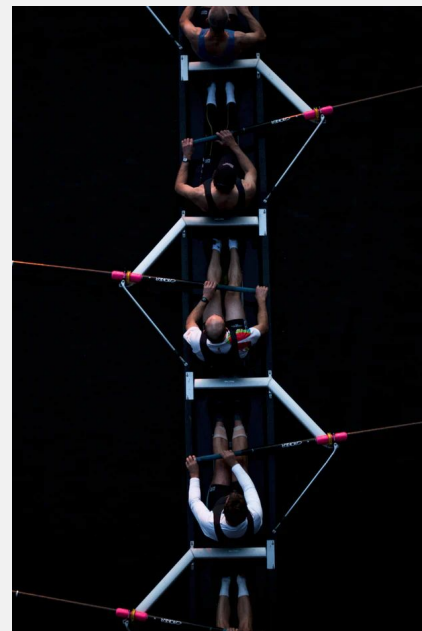
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Contributing to CloudSIG

Join Us

- irc: #centos-devel or #rdo on freenode
- ML: https://lists.rdoproject.org/mailman/listinfo
- Weekly meetings:

  https://etherpad.openstack.org/p/centos-cloud-sig

  https://etherpad.openstack.org/p/RDO-Meeting

CloudSIG != OpenStack

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Q/A