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
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**
## Cloud SIG in numbers in 2019

<table>
<thead>
<tr>
<th>Packages</th>
<th>Builds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commits: 918</td>
<td>CBS: 1525</td>
</tr>
<tr>
<td>Lines changed: 13890</td>
<td>RDO Trunk: 37095</td>
</tr>
<tr>
<td>Authors: 65</td>
<td>FTBFS: 445</td>
</tr>
</tbody>
</table>

**Deps:** 520

**OpenStack:** 330
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
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
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
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

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

Zuul job

Bridge VM

Ansible playbooks

Manage VMs

Managed infra

Create cloud objects

Vexxhost cloud

sf-infra repo

git clone https://softwarefactory-project.io/r/software-factory/sf-infra
With great power...

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

> To make error is human. To propagate error to all server in automatic way is #devops.
...comes lots of testing

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

<table>
<thead>
<tr>
<th>Result</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passed (show details)</td>
<td>roles/afs-monitoring/molecule/default/molecule.yml::test</td>
</tr>
<tr>
<td>Passed (show details)</td>
<td>roles/backup-monitoring/molecule/default/molecule.yml::test</td>
</tr>
<tr>
<td>Passed (show details)</td>
<td>roles/dlm-server/molecule/default/molecule.yml::test</td>
</tr>
<tr>
<td>Passed (show details)</td>
<td>roles/idotunk-checks/molecule/default/molecule.yml::test</td>
</tr>
<tr>
<td>Passed (show details)</td>
<td>roles/swap/molecule/default/molecule.yml::test</td>
</tr>
</tbody>
</table>
Component-based promotion: before

- Old way: simple, straightforward, but as soon as you have an issue in one out of 300+ packages, you are doomed!
Components (15) defined already
PoC successful
Currently building the whole CI pipeline, debuts for Ussuri on CentOS 8
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
Q/A