openstack.

TRIPLEO
an OpenStack Community Project

TripleO Dependency Pipelines/CentOS 9

Ronelle Landy, Wes Hayutin

History

Traditionally, how do we know when a dependency has been updated?

Keep check/promotions stable while preparing for upcoming dependency releases

STABILITY   PREPAREDNESS

openstack.

Test ahead of the BIG SWITCH

Component pipelines served as a model

- Realized possible to test a stable product set with one piece upgraded at a time

  BUT - some differences

- Individual RPMs
- Repos
- Dependencies release together - STREAM
- Modules
- Some are installed ahead of quickstart/tripleo

![openstack logo]

Dependencies targeted for testing

- Initial targets:
  - CentOS 8 Stream -> CentOS 9
  - container-tools:rhel8 (2.0 -> 3.0)
    - libpod, podman, buildah
  - latest ansible
  - OpenVSwitch

- Next up
  - adv-virt
  - pacemaker
  - python deps

What runs in the pipelines?

- Standalone (no container updates)
- Standalone with container builds
- *<ADD YOUR JOB HERE>*

periodic-tripleo-ci-centos-8-standalone-centos8stream-master	openstack/tripleo-ci
periodic-tripleo-ci-centos-8-standalone-centos8stream-container-build-master	openstack/tripleo-ci
periodic-tripleo-ci-centos-8-standalone-centos8stream-master	openstack/tripleo-ci

Possible to run multiple releases against the same dependency upgrade

RPM comparisons - WIP

```
 1. +-----------------------------+---------------------+--------------------+-----------------------------------------------+---------------------------------------------+
 2. |        Package Name         | Control Package Version | Test Package Version |           Control Package Release           |             Test Package_Release            |
 3. +-----------------------------+---------------------+--------------------+-----------------------------------------------+---------------------------------------------+
 4. |           buildah           |        1.11.6       |       1.15.1       |         8.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
 5. |        buildah-tests        |        1.11.6       |       1.15.1       |         8.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
 6. |        cockpit-podman        |          11         |        18.1        |         1.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
 7. |           conmon            |        2.0.15       |       2.0.20       |         1.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
 8. |      container-selinux       |       2.130.0       |      2.144.0       |         1.module+el8.3.0+7842+fbbcd85c         |        1.module+el8.3.0+7843+7fef9496        |
 9. | containernetworking-plugins |        0.8.3        |        0.8.6       |         4.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
10. |      containers-common      |        0.1.41       |        1.1.1       |         3.module+el8.3.0+7842+fbbcd85c         |        3.module+el8.3.0+7843+7fef9496        |
11. |            crit             |        3.12         |        3.14        |         9.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
12. |            criu             |        3.12         |        3.14        |         9.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
13. |        fuse-overlayfs        |        0.7.8        |        1.1.2       |         1.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
14. |           podman            |        1.6.4        |        2.0.5       |        20.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7847+fef5fbba        |
15. |        podman-docker         |        1.6.4        |        2.0.5       |        20.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7847+fef5fbba        |
16. |        podman-remote         |        1.6.4        |        2.0.5       |        20.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7847+fef5fbba        |
17. |         podman-tests         |        1.6.4        |        2.0.5       |        20.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7847+fef5fbba        |
18. |      python-podman-api       |        1.2.0        |        1.2.0       | 0.2.gitd0a45fe.module+el8.3.0+7842+fbbcd85c   | 0.2.gitd0a45fe.module+el8.3.0+7843+7fef9496 |
19. |        python3-criu         |        3.12         |        3.14        |         9.module+el8.3.0+7842+fbbcd85c         |        2.module+el8.3.0+7843+7fef9496        |
20. |            runc             |        1.0.0        |        1.0.0       |       64.rc10.module+el8.3.0+7842+fbbcd85c     |      68.rc92.module+el8.3.0+7843+7fef9496    |
21. |           skopeo            |        0.1.41       |        1.1.1       |         3.module+el8.3.0+7842+fbbcd85c         |        3.module+el8.3.0+7843+7fef9496        |
22. |        skopeo-tests         |        0.1.41       |        1.1.1       |         3.module+el8.3.0+7842+fbbcd85c         |        3.module+el8.3.0+7843+7fef9496        |
23. |         slirp4netns          |        0.4.2        |        1.1.4       |  3.git21fdece.module+el8.3.0+7842+fbbcd85c     |        2.module+el8.3.0+7843+7fef9496        |
24. |           toolbox           |        0.0.7        |        0.0.8       |         1.module+el8.3.0+7842+fbbcd85c         |        1.module+el8.3.0+7843+7fef9496        |
25. |            udica            |        0.2.1        |        0.2.2       |         2.module+el8.3.0+7842+fbbcd85c         |        1.module+el8.3.0+7843+7fef9496        |
26. |            crun             |                     |        0.14.1      |                                               |        2.module+el8.3.0+7843+7fef9496        |
27. |           libslirp          |                     |        4.3.1       |                                               |        1.module+el8.3.0+7843+7fef9496        |
28. |        libslirp-devel        |                     |        4.3.1       |                                               |        1.module+el8.3.0+7843+7fef9496        |
29. |      oci-seccomp-bpf-hook    |                     |        1.1.2       |                                               |        3.module+el8.3.0+7843+7fef9496        |
30. |       podman-catatonit       |                     |        2.0.5       |                                               |        2.module+el8.3.0+7847+fef5fbba        |
31. +-----------------------------+---------------------+--------------------+-----------------------------------------------+---------------------------------------------+
```

Bug reporting and monitoring

Launchpad, Bugzilla, CIX

- CentOS Stream -> Launchpad

  (promotion-blocker, medium)

- RHEL first (container-tools) -> Bugzilla
- CIX -> Prodchain Degraded

Dashboards - WIP

Where do I fit in?

Actions and priorities

- Who adds these jobs?

- Who watches these jobs?

- Who fixes the bugs?

- What is the priority to address the failures?

Questions/Suggestions

Questions?

This project is still POC … open to suggestions for additions and improvements

openstack.

End

Thank you!

openstack @OpenStack openstack OpenStackFoundation