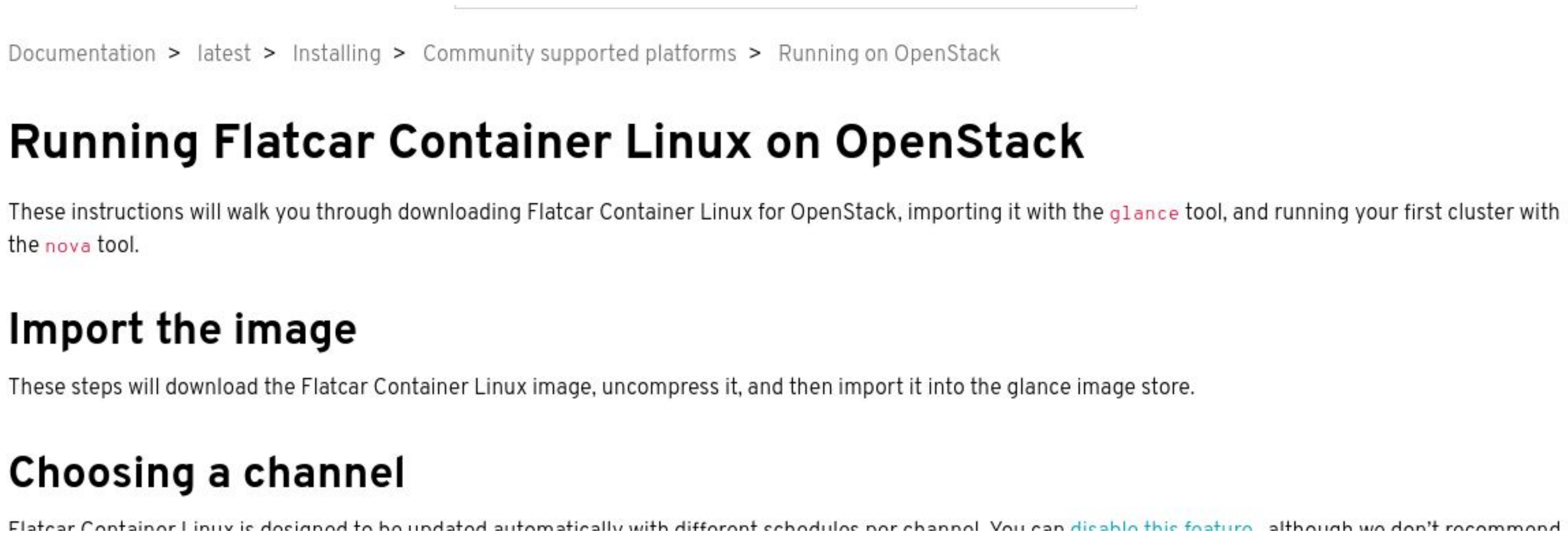
Flatcar + Openstack



Documentation > latest > Installing > Community supported platforms > Running on OpenStack

Running Flatcar Container Linux on OpenStack

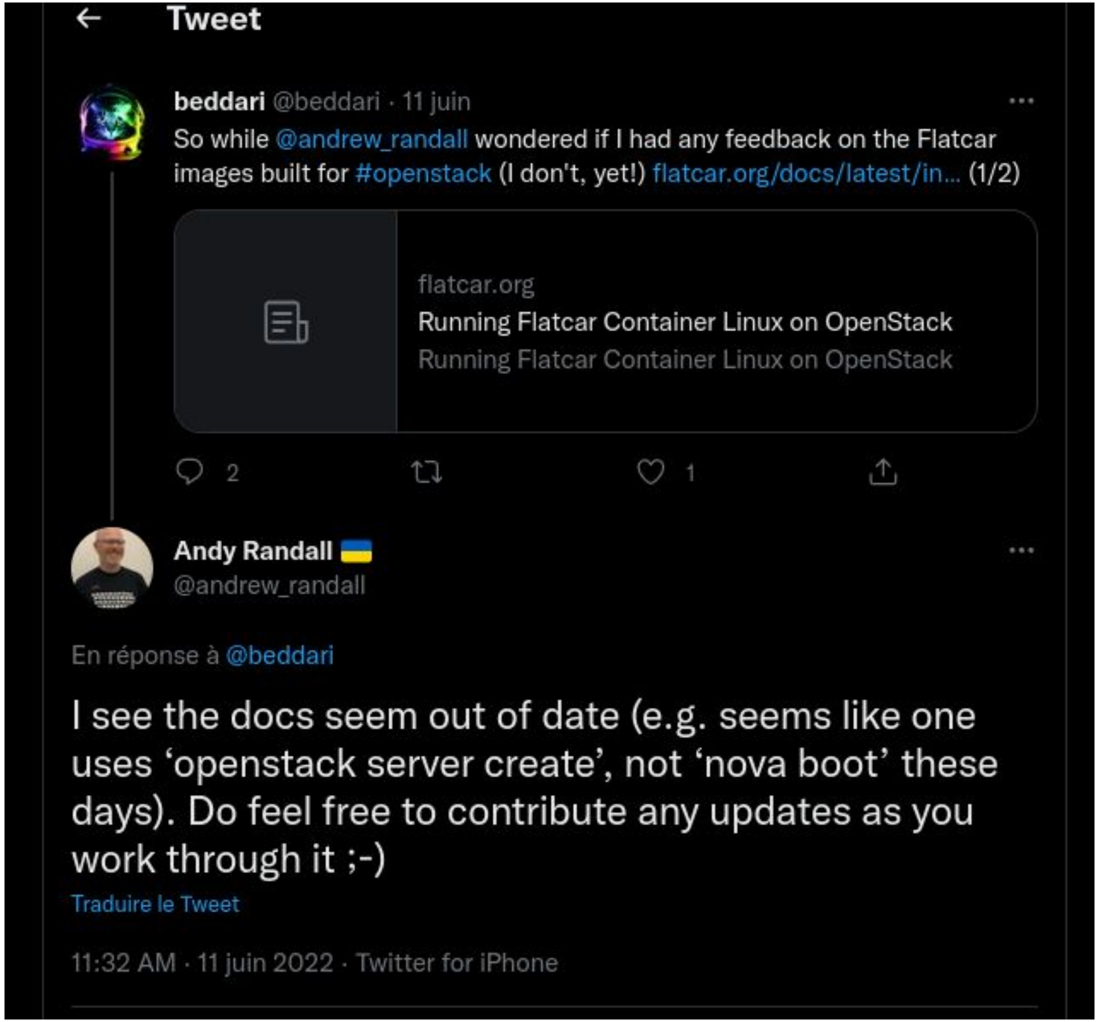
These instructions will walk you through downloading Flatcar Container Linux for OpenStack, importing it with the `glance` tool, and running your first cluster with the `nova` tool.

Import the image

These steps will download the Flatcar Container Linux image, uncompress it, and then import it into the glance image store.

Choosing a channel

Flatcar Container Linux is designed to be updated automatically with different schedules per channel. You can disable this feature, although we don't recommend



Tweet

beddari @beddari · 11 juin

So while @andrew_randall wondered if I had any feedback on the Flatcar images built for #openstack (I don't, yet!) flatcar.org/docs/latest/in... (1/2)

flatcar.org
Running Flatcar Container Linux on OpenStack
Running Flatcar Container Linux on OpenStack

2 1

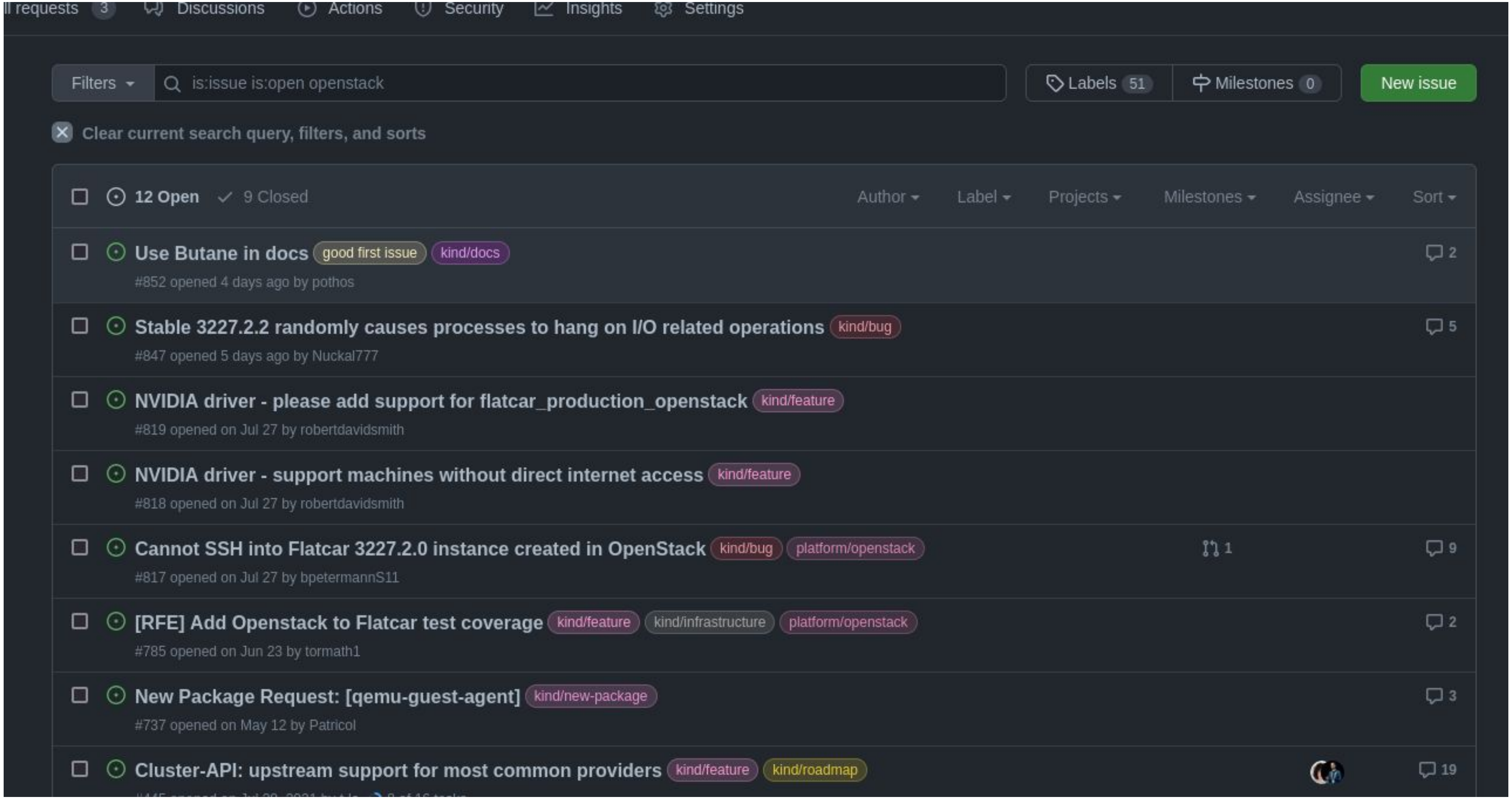
Andy Randall 🇺🇦
@andrew_randall

En réponse à @beddari

I see the docs seem out of date (e.g. seems like one uses ‘openstack server create’, not ‘nova boot’ these days). Do feel free to contribute any updates as you work through it ;-)

Traduire le Tweet

11:32 AM · 11 juin 2022 · Twitter for iPhone



Use Butane in docs `good first issue` `kind/docs` — 2
#852 opened 4 days ago by pothos

Stable 3227.2.2 randomly causes processes to hang on I/O related operations `kind/bug` — 5
#847 opened 5 days ago by Nuckal777

NVIDIA driver - please add support for flatcar_production_openstack `kind/feature`
#819 opened on Jul 27 by robertdavidsmith

NVIDIA driver - support machines without direct internet access `kind/feature`
#818 opened on Jul 27 by robertdavidsmith

Cannot SSH into Flatcar 3227.2.0 instance created in OpenStack `kind/bug` `platform/openstack` — 1 — 9
#817 opened on Jul 27 by bpetermannS11

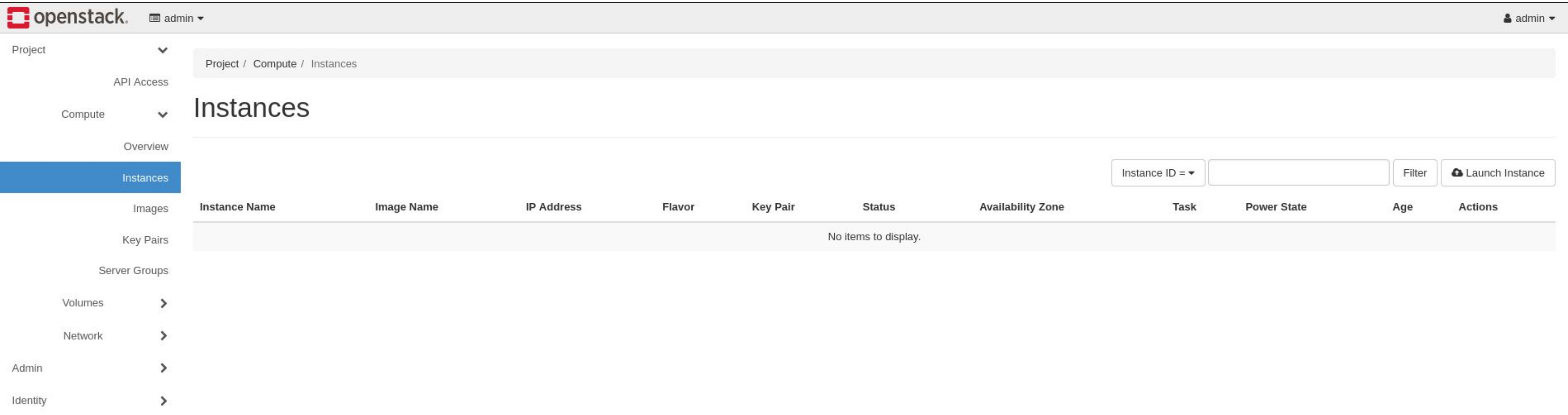
[RFE] Add Openstack to Flatcar test coverage `kind/feature` `kind/infrastructure` `platform/openstack` — 2
#785 opened on Jun 23 by tormath1

New Package Request: [qemu-guest-agent] `kind/new-package` — 3
#737 opened on May 12 by Patricol

Cluster-API: upstream support for most common providers `kind/feature` `kind/roadmap` — 19

Devstack

- https://opendev.org/openstack/devstack



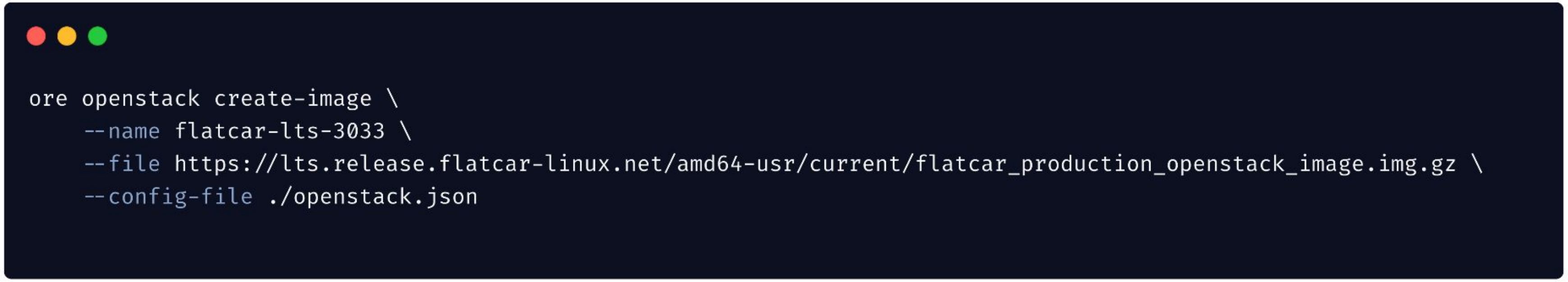
Project / Compute / Instances

Instances

Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
No items to display.										

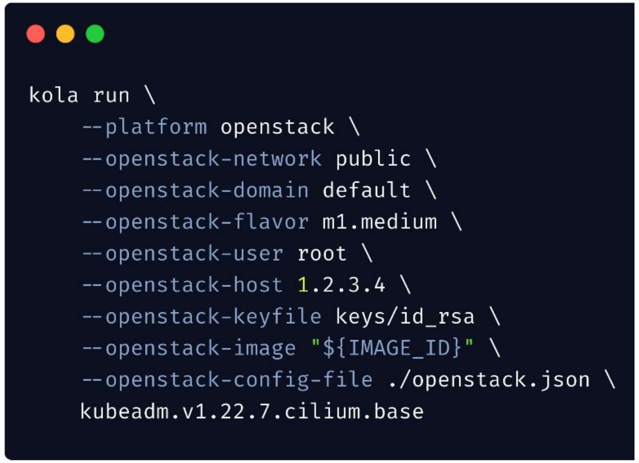
Testing Flatcar on Openstack

1. Import the Image



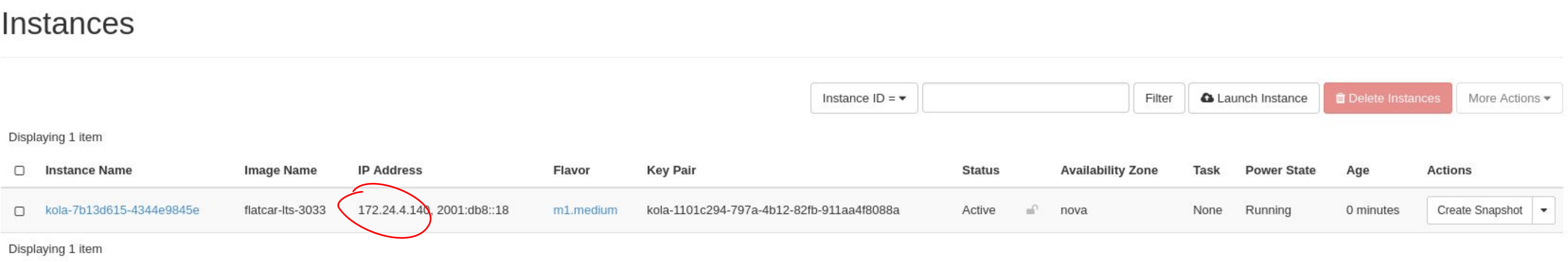
```
ore openstack create-image \
    --name flatcar-lts-3033 \
    --file https://lts.release.flatcar-linux.net/amd64-usr/current/flatcar_production_openstack_image.img.gz \
    --config-file ./openstack.json
```

2. Run the test



```
kola run \
    --platform openstack \
    --openstack-network public \
    --openstack-domain default \
    --openstack-flavor m1.medium \
    --openstack-user root \
    --openstack-host 1.2.3.4 \
    --openstack-keyfile keys/id_rsa \
    --openstack-image "${IMAGE_ID}" \
    --openstack-config-file ./openstack.json \
    kubeadm.v1.22.7.cilium.base
```

Debug the instance



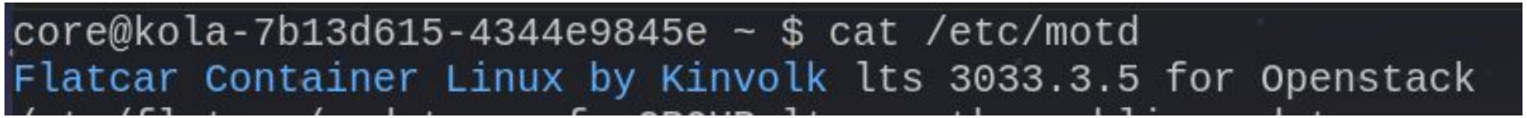
Instances

Displaying 1 item

	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status		Availability Zone	Task	Power State	Age	Actions
☐	kola-7b13d615-4344e9845e	flatcar-lts-3033	172.24.4.140, 2001:db8::18	m1.medium	kola-1101c294-797a-4b12-82fb-911aa4f8088a	Active		nova	None	Running	0 minutes	Create Snapshot

Displaying 1 item

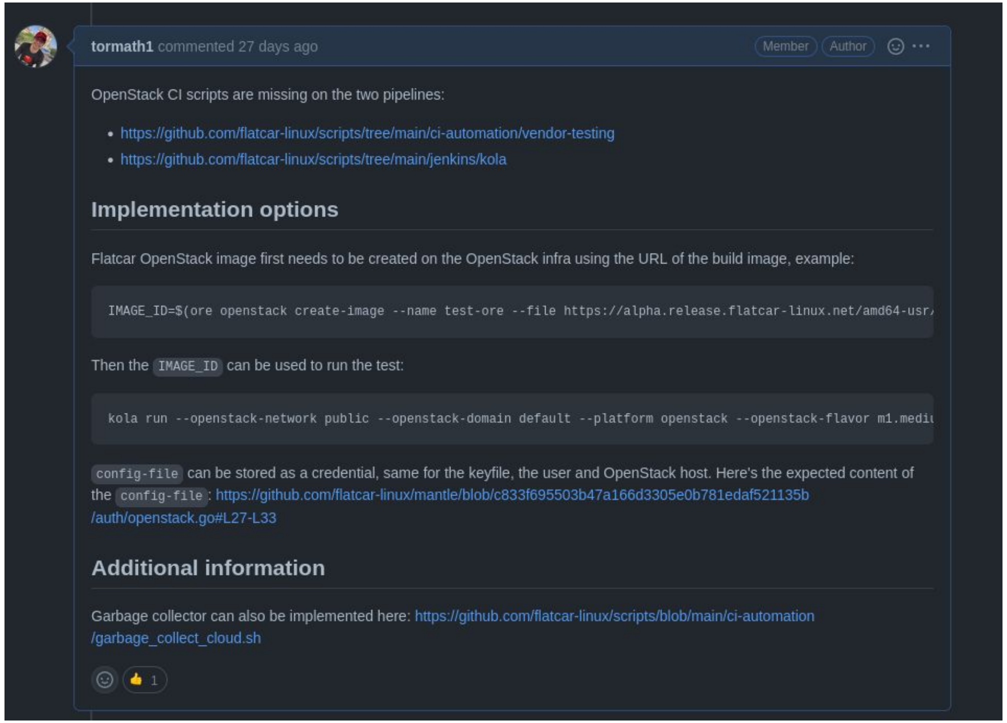
- `ssh -J root@1.2.3.4 core@172.24.4.140`



```
core@kola-7b13d615-4344e9845e ~ $ cat /etc/motd
Flatcar Container Linux by Kinvolk lts 3033.3.5 for Openstack
```

Next steps

- Plug with ci-automation (https://github.com/flatcar-linux/Flatcar/issues/785)



tormath1 commented 27 days ago · Member · Author

OpenStack CI scripts are missing on the two pipelines:

- https://github.com/flatcar-linux/scripts/tree/main/ci-automation/vendor-testing
- https://github.com/flatcar-linux/scripts/tree/main/jenkins/kola

Implementation options

Flatcar OpenStack image first needs to be created on the OpenStack infra using the URL of the build image, example:

```
IMAGE_ID=$(ore openstack create-image --name test-ore --file https://alpha.release.flatcar-linux.net/amd64-usr/
```

Then the `IMAGE_ID` can be used to run the test:

```
kola run --openstack-network public --openstack-domain default --platform openstack --openstack-flavor m1.mediu
```

`config-file` can be stored as a credential, same for the keyfile, the user and OpenStack host. Here's the expected content of the `config-file`: https://github.com/flatcar-linux/mantle/blob/c833f695503b47a166d3305e0b781edaf521135b/auth/openstack.go#L27-L33

Additional information

Garbage collector can also be implemented here: https://github.com/flatcar-linux/scripts/blob/main/ci-automation/garbage_collect_cloud.sh

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