

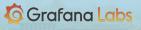
SPONSORS





















REPLY











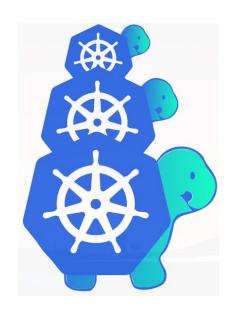


Context

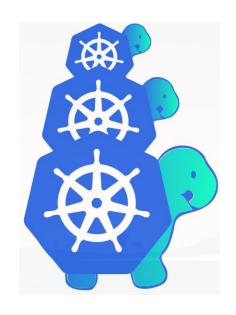
Flatcar maintainer / @tormath1

Involved on the OpenStack support for Flatcar

Jumped into the Cluster API OpenStack topic











Why Flatcar?

Immutable

Lightweight

Secure

Designed to run container workloads

How to use it

```
• • •
$ kubectl get nodes
NAME
                 STATUS ROLES AGE
                                           VERSION
kind-control-plane Ready control-plane
                                      43m v1.25.3
```

Management cluster deployed with Kind

Generate the workload cluster configuration

```
export EXP_KUBEADM_BOOTSTRAP_FORMAT_IGNITION=true
$ clusterctl init --infrastructure openstack
$ clusterctl generate cluster capi-quickstart \
 --flavor flatcar \
 --kubernetes-version v1.27.2 \
 --control-plane-machine-count=1 \
 --worker-machine-count=3 > capi-quickstart.yaml
```

Voilà

```
$ kubectl --kubeconfig=./${CLUSTER_NAME}.kubeconfig get nodes -o yaml | yq ".items[0].status.nodeInfo"
architecture: amd64
bootID: 8d2bf880-7c5a-49c3-8a42-8e0333e84ccd
containerRuntimeVersion: containerd://1.6.21
kernelVersion: 5.15.117-flatcar
kubeProxyVersion: v1.27.2
kubeletVersion: v1.27.2
machineID: e6c14af9cd854142ad8b68b171ff5339
operatingSystem: linux
osImage: Flatcar Container Linux by Kinvolk 3510.2.4 (Oklo)
systemUUID: e6c14af9-cd85-4142-ad8b-68b171ff5339
```

Next steps

Provide CAPO images (<u>kubernetes-sigs/cluster-api-provider-openstack/#1502</u>)

Resources

- #flatcar, #cluster-api-openstack on Kubernetes Slack
- #flatcar on Matrix
- Office hours



- https://cluster-api-openstack.sigs.k8s.io/clusteropenstack/configuration.html#i
 qnition-based-images
- https://gist.github.com/tormath1/eef8333300f2cc8ea79d5ce3bf126f311

