Kubernetes Community Days
MUNICH 2023

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metalstack cloud
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EXOSCALE
Red Hat
SysEleven
REPLY LIQUID
white duck
blueshoe

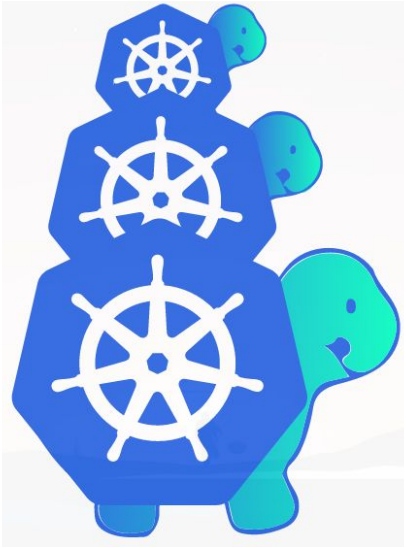
Speaker: Mathieu Tortuyaux

Company: Microsoft

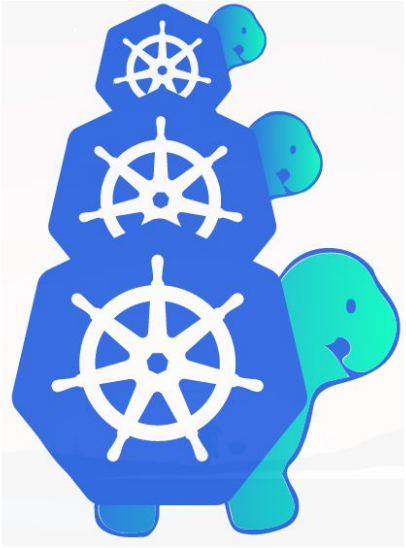
Cluster API OpenStack
+
Flatcar
=

Context

- Flatcar maintainer / @tormath1
- Involved on the OpenStack support for Flatcar
- Jumped into the Cluster API OpenStack topic




openstack®



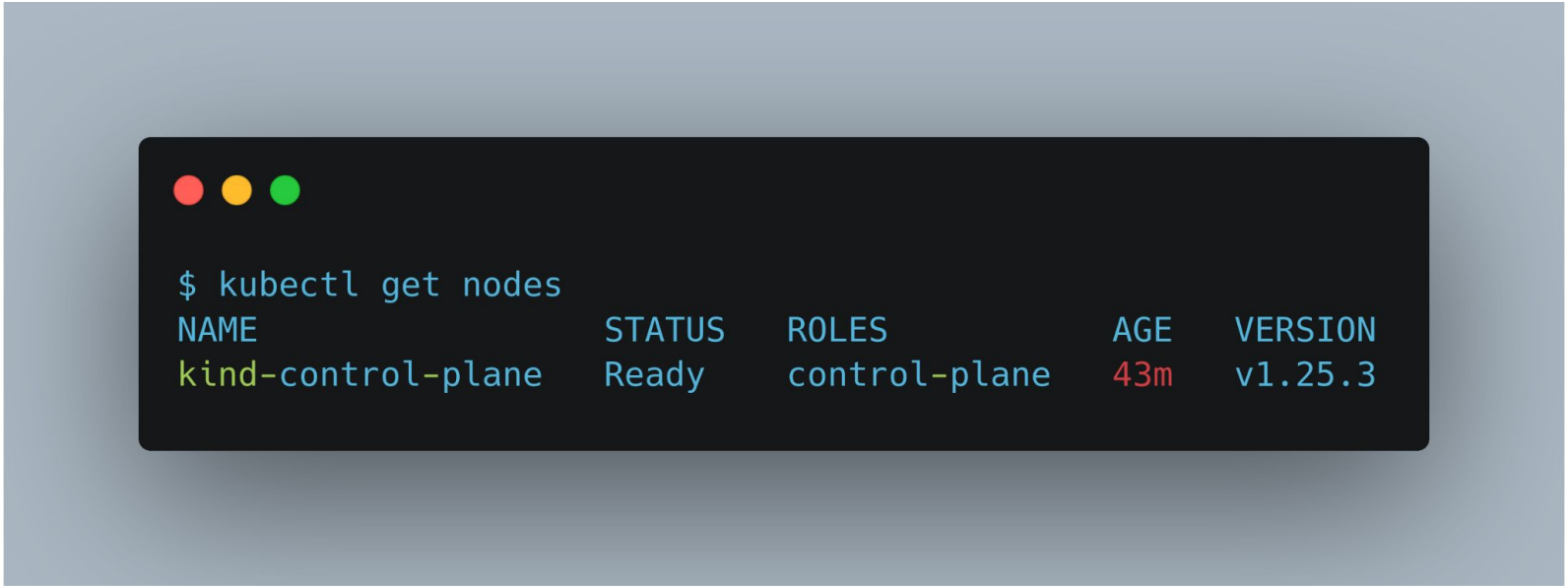
FLAT CAR

openstack®

Why Flatcar?

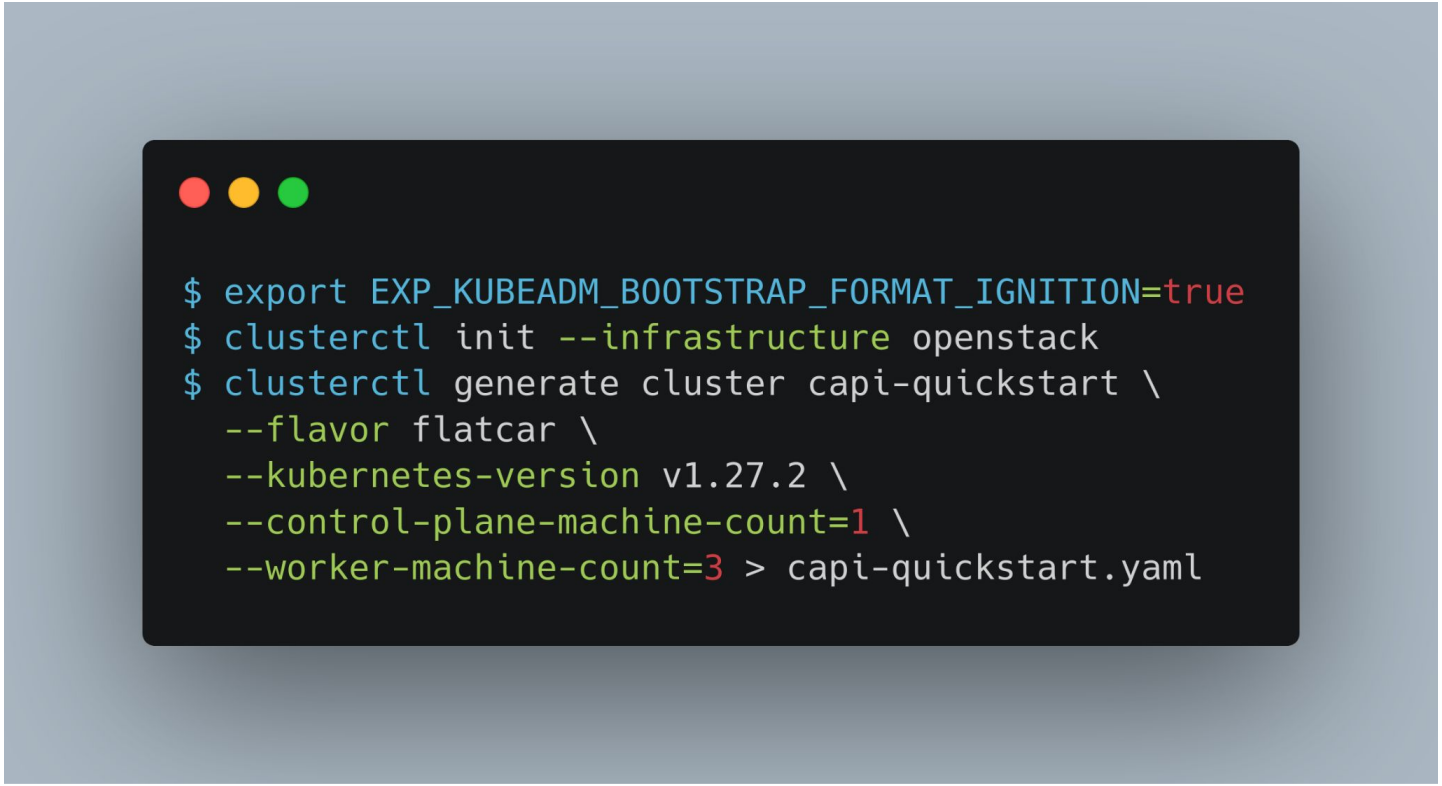
- Immutable
- Lightweight
- Secure
- Designed to run container workloads

How to use it

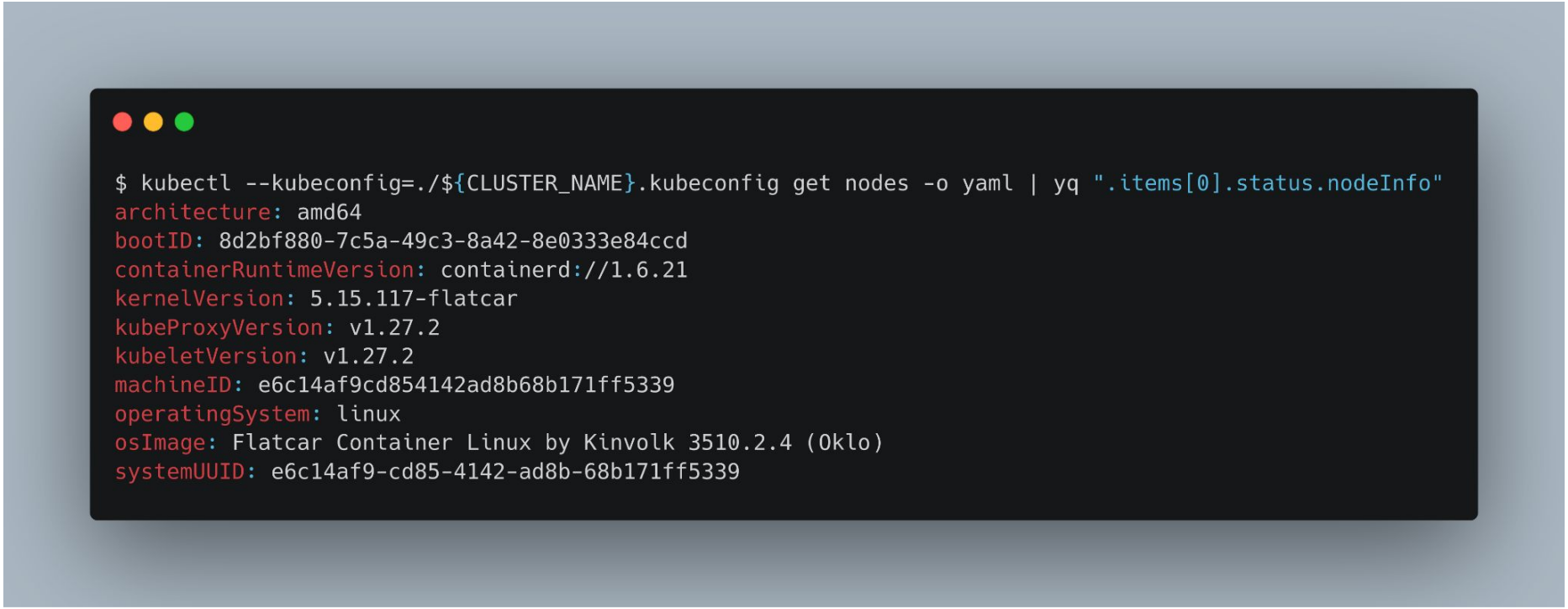


Management cluster deployed with Kind

Generate the workload cluster configuration



Voilà



Nodes running on Flatcar

Next steps

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

Resources

- #flatcar, #cluster-api-openstack on Kubernetes Slack
- #flatcar on Matrix
- Office hours
- https://www.flatcar.org/docs/latest/container-runtimes/getting-started-with-kubernetes/#cluster-api
- https://cluster-api-openstack.sigs.k8s.io/clusteropenstack/configuration.html#ignition-based-images
- https://gist.github.com/tormath1/eef833300f2cc8ea79d5ce3bf126f311