1 CheatSheet: Kubernetes Cluster API

CLOUD

Updated: March 20, 2019

- PDF Link: cheatsheet-clusterapi-A4.pdf, Category: Cloud
- ullet Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-clusterapi-A4
- Related posts: Kubernetes Yaml, Kubectl CheatSheet, #denny-cheatsheets

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1.1 Cluster API - Basic

Name	Summary
Cluster API Project Milestone	v1alpha1(Due by 03/29/2019)
Key Initiatives	Declarative infra; CRD design model; Resource LCM
CAL (cloud abstraction layer)	
Boostrap cluster	minikube by default
Machine Object	Machine CRD
Cluster Object	
clusterctl	GitHub: cluster-api/cmd/clusterctl, Might be merged into kubectl directly
Demo	Video: vSphere Clsuter-API provider: self-service

1.2 Components

Name	Summary	
API Spec	Link: Kubernetes Cluster Management API	
provider-components.yaml		
cluster.yaml		
machines.yaml		
addons.yaml		
2 pods in guest k8s clusters	cluster api controller, cloud provider controller	
Reference	GitHub: kubernetes-sigs/cluster-api	

1.3 Commands

Name	Summary
Deploy a k8s cluster	clusterctl create cluster -p provider-components.yaml -c cluster.yaml -m machines.yaml

1.4 Cluster API Related Works

Name	Summary
SAP gardener	
Gardener with cluster api	GitHub Issue: Adopt Cluster API Spec

1.5 clusterctl cli Online Help

I0311 17:25:43.924329 50076 machineactuator.go:811] Using the default GCP client Create a kubernetes cluster with one command

Usage:

clusterctl create cluster [flags]

Flags:

A yaml file containing cluster addons to apply to the internal
Whether to cleanup the bootstrap cluster after bootstrap. (defa
Sets the bootstrap cluster to be an existing Kubernetes cluster
Command line flags to be passed to the chosen bootstrapper
The cluster bootstrapper to use. (default "none")
A yaml file containing cluster object definition. Required.

-h, --help

--kubeconfig-out string

-m, --machines string

--provider string

-p, --provider-components string

help for cluster

Where to output the kubeconfig for the provisioned cluster (def A yaml file containing machine object definition(s). Required. Which provider deployment logic to use (google/vsphere/azure).

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A yaml file containing cluster api provider controllers and sup

Global Flags:

--alsologtostderr

--kubeconfig string

--log-flush-frequency duration

--log_backtrace_at traceLocation

--log_dir string

--log_file string

--logtostderr

--master string

--skip_headers

--stderrthreshold severity

-v, --v Level

--vmodule moduleSpec

log to standard error as well as files

Paths to a kubeconfig. Only required if out-of-cluster.

Maximum number of seconds between log flushes (default 5s)

when logging hits line file: \mathbb{N} , emit a stack trace (default :0)

If non-empty, write log files in this directory

If non-empty, use this log file

log to standard error instead of files (default true)

The address of the Kubernetes API server. Overrides any value in kub

If true, avoid header prefixes in the log messages

logs at or above this threshold go to stderr

number for the log level verbosity

comma-separated list of pattern=N settings for file-filtered logging

1.6 More Resources

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