

Why Kubernetes is best Container Orchestration Engine?



Kubernetes - Overview

Concept

Objectives

Part-I:

What is Kubernetes?

History @ Google Inc.

Current status

Part-II:

Why Kubernetes is best COE?

What is Kubernetes?

COE

Manages containerized apps @ large scale

cluster management | scheduling | service discovery monitoring | secrets management
& more

Google → CNCF

History @ Google Inc.

More than Decade

Runs billions of containers every week

Gmail, YouTube, Search ... runs on containers

Borg – Proprietary container manager of Google

Container Orchestration Engine on Google Cloud

Kubernetes



Released Kubernetes v1 around mid 2015

Google donated Kubernetes to CNCF

Latest stable Kubernetes – 1.11.3

Goals and Considerations:

1. Empower application developers
2. Provide standard deployment interface
3. Build on a Modular API code

K8s - ~~Kubernetes~~

Go lang

Why Kubernetes?

Google Inc.

Maturity

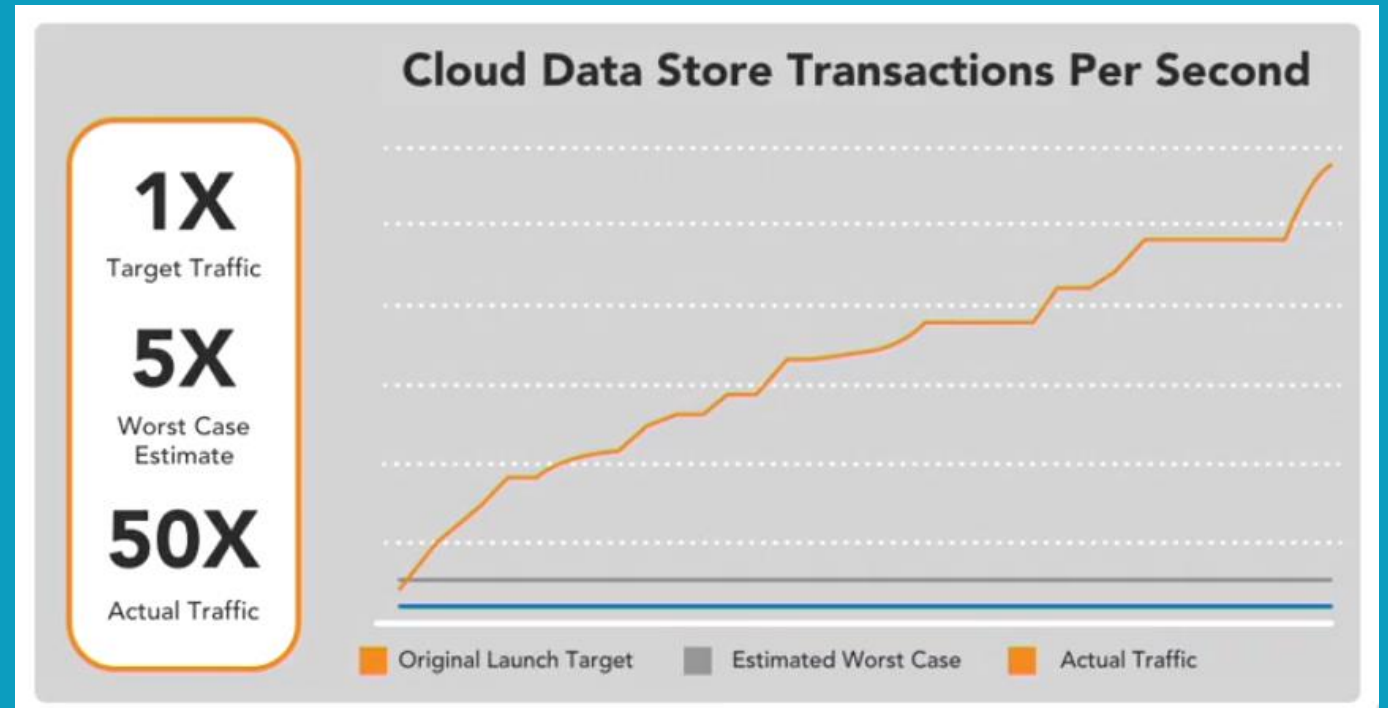
Features

Easy Integration

Community



Runs on
Kubernetes



KUBERNETES WORLDWIDE MEETUPS

Looking to get involved in the community? No problem. Meetups are everywhere. Literally.

166,288

Members

457

Meetup Groups

213


Cities


60

Countries



Docker

 Search or jump to... / Pull requests Issues Marketplace Explore

 docker / docker.github.io

Watch 150

Star 1,199

Fork 2,625

<> Code

Issues 450

Pull requests 106

Projects 0

Insights

Source repo for Docker's Documentation <https://docs.docker.com>

48,913 commits


27 branches


8 releases

2,845 contributors

Apache-2.0

Kubernetes

 Search or jump to... / Pull requests Issues Marketplace Explore

 kubernetes / kubernetes

Watch 2,656

Star 40,316

Fork 14,027

<> Code

Issues 2,140

Pull requests 958

Projects 12

Insights

Production-Grade Container Scheduling and Management <http://kubernetes.io>

kubernetes

go

cncf

containers

68,932 commits

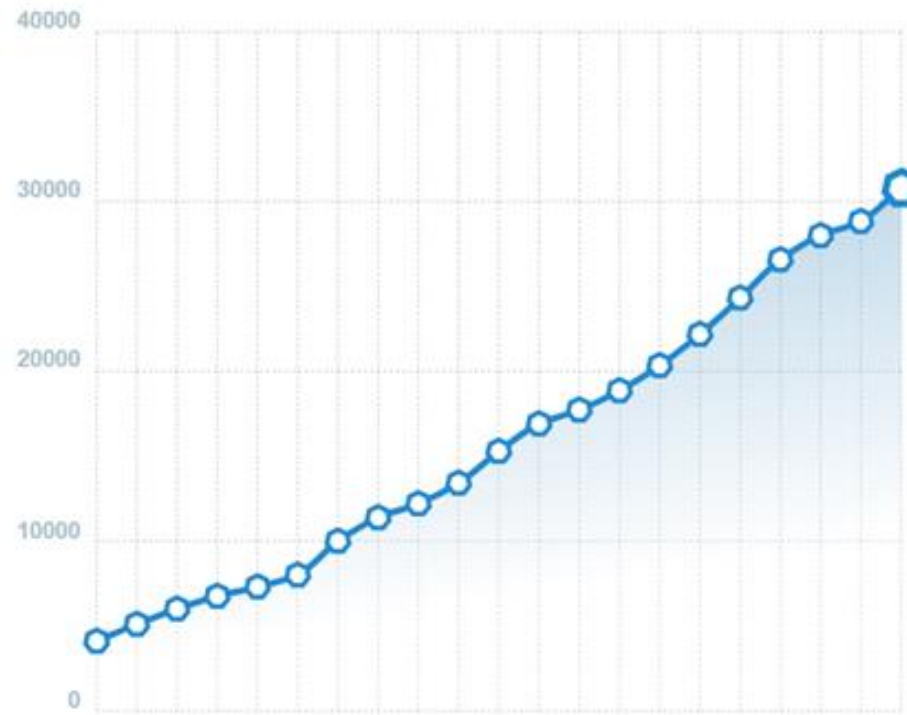
34 branches

419 releases

1,770 contributors

Apache-2.0

KUBERNETES WORLDWIDE SLACK USERS



KUBERNETES WORLDWIDE JOB POSTINGS



Who is using Kubernetes?



Summary

Part-I:

What is Kubernetes?

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Part-II:

Why Kubernetes is best COE?

Coming up...

Kubernetes Architecture