Deploying a Python App with Oracle Cloud Container Engine for Kubernetes

SETTING UP A CLUSTER ON ORACLE CLOUD INFRASTRUCTURE

Craig Golightly
SENIOR SOFTWARE CONSULTANT

@seethatgo www.seethatgo.com

Oracle Cloud Container Engine for Kubernetes

- Managed Kubernetes service
- Open an Oracle Cloud account
- Create a cluster
- Configure kubectl
- Access Kubernetes dashboard

Oracle Cloud Regions

Around the World

Multiple cloud regions in a variety of locations

Region Selection

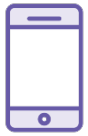
Select the region that best optimizes your use case

Opening an Oracle Cloud Account

Email

Username and password

Name and address



Mobile number with verification

Credit card information

Demo

oracle.com/cloud/free/

Walk through opening an Oracle Cloud account

Cluster Composition

Networking resources – VCN, IG, NAT gateway, route tables, security lists, subnets (public/private)

Kubernetes cluster – Master components managed by service

Node pool – Image shape, how many, location

```
Allow service OKE to manage all-resources in tenancy
```

Quick Create a Cluster

Fastest way to stand up a cluster

Must allow Oracle Kubernetes Engine to create resources for you

- Create policy
- Add statement

Demo

Create policy

- Add statement

Quick create a Kubernetes cluster

Connect to Your Cluster with kubectl

- Generate a private key to sign requests
- Upload public key to account
- Install and configure Oracle Cloud Command Line Interface (CLI)
- Create kubeconfig
- Verify kubectl connection

Summary

Created an Oracle Cloud account

Running Kubernetes cluster

kubectl configured

Access Kubernetes dashboard