Deploying a Java App with Oracle Cloud Container Engine for Kubernetes

SETTING UP A CLUSTER ON ORACLE CLOUD INFRASTRUCTURE



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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





Multiple cloud regions in a variety of locations

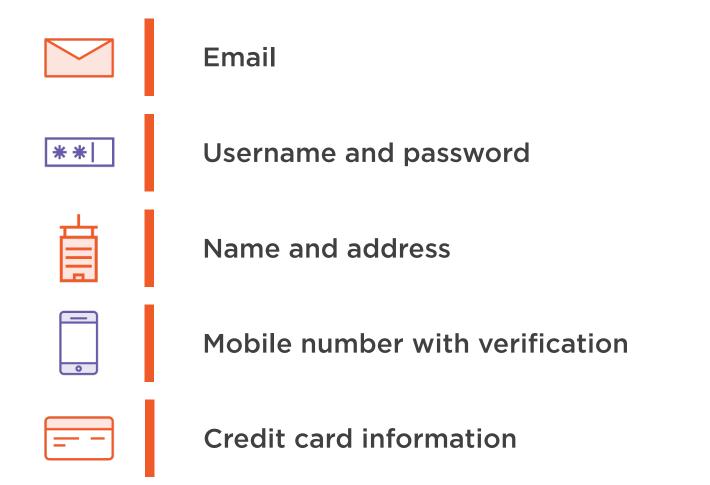


Region Selection

Select the region that best optimizes your use case



Opening an Oracle Cloud Account





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

