



Spinnaker on Oracle Cloud

Mickey Boxell – Oracle Cloud Native Labs

#OracleCloudNative
cloudnative.oracle.com



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Who am I?

Mickey Boxell

Solution Architect, Developer Advocate, etc.



Oracle Cloud Native Labs

Build customer-deployable cloud native/container native solutions to bridge the gap between Oracle Cloud Infrastructure (OCI) and open source communities.

<http://cloudnative.oracle.com/>

Oracle Cloud Differentiators



- Public cloud with enterprise grade governance and security
- Virtual Machine and Bare Metal infrastructure – same set of APIs used for both
- Managed Kubernetes: Container Engine for Kubernetes AKA OKE
- Image Registry: Oracle Cloud Infrastructure Registry AKA OCIR
- Non-oversubscribed network, low latency, high throughput, predictable network and CPU performance

Spinnaker on Oracle: Installation Options



- 1. Local installation using the Oracle Provider
- 2. Manifest-based distributed installation on Oracle Container

Engine for Kubernetes

What We've Done Already



Option 1: Local installation using the Oracle Provider

- Created an Ubuntu 18.04 VM VM.Standard2.1 (15 GB RAM, 1 OCPU, 50 GB storage)
- Installed Halyard

Option 2: Manifest-based distributed installation

- Created an Oracle Container Engine for Kubernetes cluster with 3 VM.Standard2.1 nodes (Oracle Linux 7.6)
- Installed Halyard and kubectl along with a kubeconfig file

Provider Credential Requirements



- Oracle Cloud IAM user
- Tenancy, user, and compartment OCIDs
- Home region
- RSA API signing key pair and public key fingerprint
- Object storage namespace and bucket

Oracle Cloud VM Installation



1. Install Halyard
2. Provider = Oracle Cloud Provider
3. Environment = local installation of Debian package
4. Storage provider = Oracle Storage Service
5. Deploy Spinnaker

Result: Deploy Spinnaker to a VM and Spinnaker will be used to deploy applications onto Oracle Cloud Infrastructure

3. ubuntu@spinnaker: ~ (ssh)

```
ubuntu@spinnaker:~$ hal config provider oracle account add my-oci-acct \  
> --compartment-id $COMPARTMENT_OCID \  
> --fingerprint $API_KEY_FINGERPRINT \  
> --region $REGION \  
> --ssh-private-key-file-path $PRIVATE_KEY_FILE \  
> --tenancyId $TENANCY_OCID \  
> --user-id $USER_OCID
```

```
ubuntu@spinnaker:~$ hal config storage oracle edit \  
> --bucket-name $BUCKET_NAME \  
> --compartment-id $COMPARTMENT_OCID \  
> --fingerprint $API_KEY_FINGERPRINT \  
> --namespace $TENANCY_NAME \  
> --region $REGION \  
> --ssh-private-key-file-path $PRIVATE_KEY_FILE \  
> --tenancy-id $TENANCY_OCID \  
> --user-id $USER_OCID
```

3. ubuntu@spinnaker: ~ (ssh)

```
ubuntu@spinnaker:~$ hal config provider oracle bakery edit \  
>   --instance-shape $INSTANCE_SHAPE \  
>   --availability-domain $AVAILABILITY_DOMAIN \  
>   --subnet-id $SUBNET_ID
```

```
ubuntu@spinnaker:~$ systemctl list-dependencies spinnaker
```

```
spinnaker.service
```

```
● └─clouddriver.service
● └─clouddriver.service
● └─echo.service
● └─echo.service
● └─front50.service
● └─front50.service
● └─gate.service
● └─gate.service
● └─igor.service
● └─igor.service
● └─orca.service
● └─orca.service
● └─rosco.service
● └─rosco.service
● └─system.slice
● └─sysinit.target
●   └─apparmor.service
●   └─console-setup.service
●   └─dev-hugepages.mount
●   └─dev-mqueue.mount
●   └─iscsid.service
●   └─keyboard-setup.service
```


OKE Installation



1. Install Halyard locally
2. Provider = Kubernetes Provider V2 (Manifest Based)
3. Environment = distributed installation
4. Storage provider = Oracle Storage Service
5. Deploy Spinnaker

Result: Deploy distributed Spinnaker onto OKE and Spinnaker will be used to deploy applications onto OKE

3. bash

```
mboxell-mac:~ mboxell$ kubectl config current-context
context-czgiyrzgy2d
mboxell-mac:~ mboxell$ CONTEXT=$(kubectl config current-context)
mboxell-mac:~ mboxell$ hal config provider kubernetes account add my-k8s-v2-account \
>     --provider-version v2 \
>     --context $CONTEXT
```

3. ubuntu@spinnaker: ~ (bash)

```
mboxell-mac:~ mboxell$ kubectl get pods
NAME                                READY   STATUS    RESTARTS
spin-clouddriver-f5b8c5948-tvjbk    1/1     Running   0
spin-deck-67bc5f7f54-dpk8v          1/1     Running   0
spin-echo-8f8d957bb-tn67x           1/1     Running   0
spin-front50-66f94847dd-zvgkd        1/1     Running   0
spin-gate-7bbf9f6589-hnpzf          1/1     Running   0
spin-orca-5bbffdb94b-7c6ng          1/1     Running   0
spin-redis-d89658d48-psg5b          1/1     Running   0
spin-rosco-896fdd596-2gflk          1/1     Running   0
mboxell-mac:~ mboxell$
```

Example Pipeline



Example project:

A workflow which takes source code and builds and deploys to test, has a manual review, and promotes it to production

This will be accomplished via 3 pipelines:

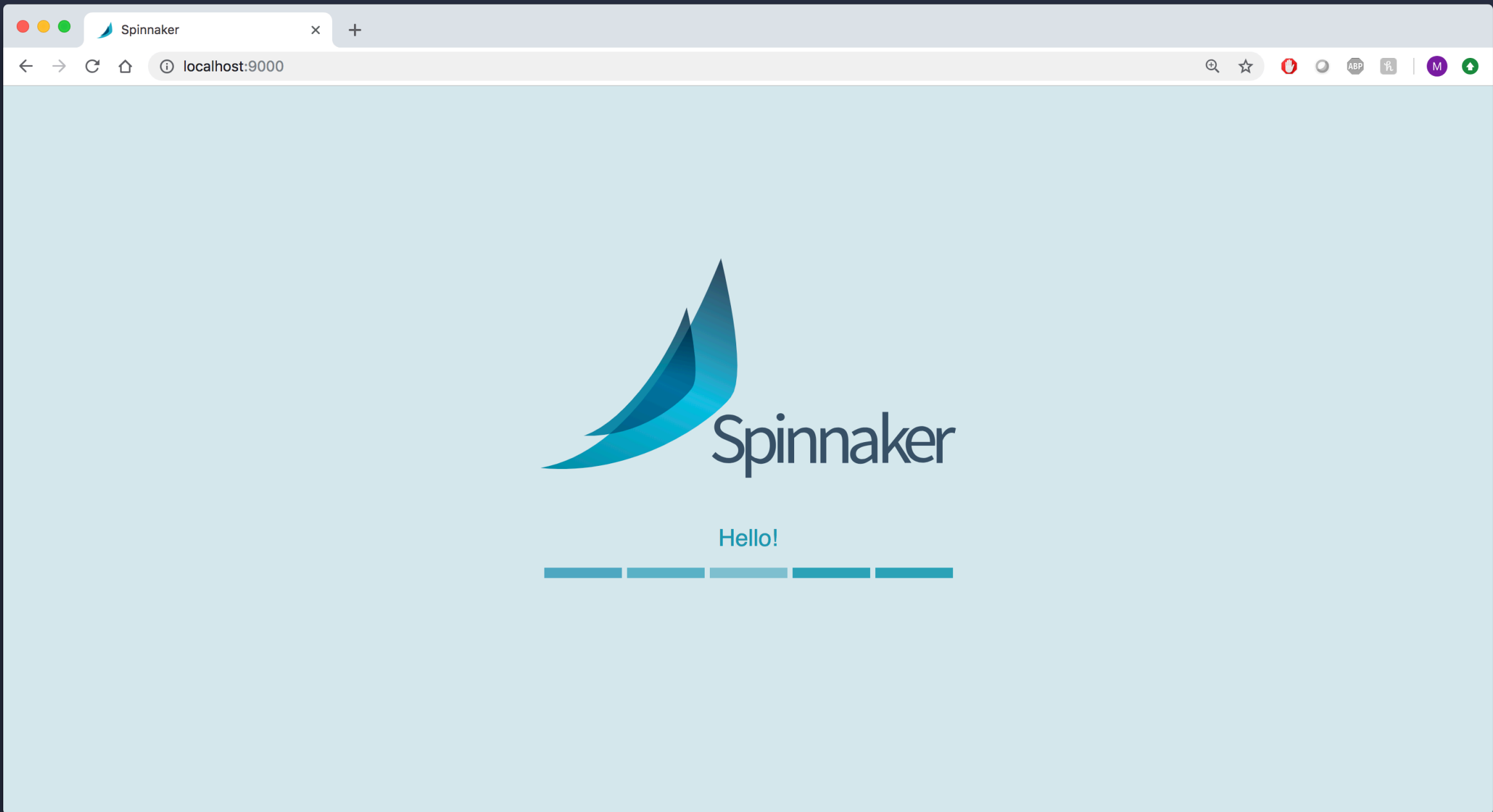
1. Bake & Deploy to Test
2. Validate Test
3. Promote to Prod & Destroy Test Cluster

Example Pipeline Setup



- Set up Oracle Cloud as your Spinnaker provider
- Set up Oracle Object Storage as your Spinnaker storage
- Set up Oracle Bakery as your image bakery
- Create a custom-baked image with HTTP access
- Create a virtual cloud network with appropriate ingress rules (80 and 8080)

Deploying to Oracle Cloud Infrastructure: Part 1: Bake & deploy to test



Applications

localhost:9000/#/applications

SPINNAKERSearchProjectsApplicationsSearchWhat's NewHelp

Applications

Search applications

Actions

Name	Created	Updated	Owner	Account(s)	Description
details	-	-		my-k8s-v2-acct	
elasticsearch	-	-		my-k8s-v2-acct	
fluentd	-	-		my-k8s-v2-acct	
grafana	-	-		my-k8s-v2-acct	
istio	-	-		my-k8s-v2-acct	
jaeger	-	-		my-k8s-v2-acct	
kiali	-	-		my-k8s-v2-acct	
kibana	-	-		my-k8s-v2-acct	
kube	-	-		my-k8s-v2-acct	
kubernetes	-	-		my-k8s-v2-acct	
linkerd	-	-		my-k8s-v2-acct	
nvidia	-	-		my-k8s-v2-acct	

«

<

1

2

>

»

Applications

localhost:9000/#/applications

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Applications

Search applications

Actions

Name	Created	Updated	Owner	Account(s)	Description
productpage	-	-		my-k8s-v2-acct	
prometheus	-	-		my-k8s-v2-acct	
quickstart	-	-		my-k8s-v2-acct	
ratings	-	-		my-k8s-v2-acct	
reviews	-	-		my-k8s-v2-acct	
servicegraph	-	-		my-k8s-v2-acct	
tiller	-	-		my-k8s-v2-acct	
tracing	-	-		my-k8s-v2-acct	
zipkin	-	-		my-k8s-v2-acct	

«

◀

1

2

▶

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Applications

localhost:9000/#/applications

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Applications

Search applications

Actions

Create Application

Name	Created	Updated	Owner	Account(s)	Description
productpage	-	-		my-k8s-v2-acct	
prometheus	-	-		my-k8s-v2-acct	
quickstart	-	-		my-k8s-v2-acct	
ratings	-	-		my-k8s-v2-acct	
reviews	-	-		my-k8s-v2-acct	
servicegraph	-	-		my-k8s-v2-acct	
tiller	-	-		my-k8s-v2-acct	
tracing	-	-		my-k8s-v2-acct	
zipkin	-	-		my-k8s-v2-acct	

«

◀

1

2

▶

»

javascript:void(0)

Applications

localhost:9000/#/applications

SPINNAKER Search Projects Applications Search What's New Help

Applications

Search application

Name ▾	Created ▾
productpage	-
prometheus	-
quickstart	-
ratings	-
reviews	-
servicegraph	-
tiller	-
tracing	-
zipkin	-

« < 1 2 > »

New Application

Name *

Owner Email *

Repo Type

Description

Cloud Providers

Instance Health

- ☐ Consider only cloud provider health when executing tasks ⓘ
- ☐ Show health override option for each operation ⓘ

Instance Port ⓘ

Pipeline Behavior

- ☐ Enable restarting running pipelines ⓘ

** Required*

Cancel Create

Applications

localhost:9000/#/applications

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Applications

Search application

Name ▾	Created ▾
productpage	-
prometheus	-
quickstart	-
ratings	-
reviews	-
servicegraph	-
tiller	-
tracing	-
zipkin	-

« < 1 2 > »

New Application

Name * codelab

Owner Email * mickey.boxell@oracle.com

Repo Type Select Repo Type

Description Sample Spinnaker application

Cloud Providers

Instance Health **kubernetes** der health when executing tasks ⓘ
oracle

☐ Show health override option for each operation ⓘ

Instance Port ⓘ 80

Pipeline Behavior ☐ Enable restarting running pipelines ⓘ

** Required*

Cancel Create

Applications

localhost:9000/#/applications

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Applications

Search application

Name ▾	Created ▾
productpage	-
prometheus	-
quickstart	-
ratings	-
reviews	-
servicegraph	-
tiller	-
tracing	-
zipkin	-

« < 1 2 > »


New Application

Name *

Owner Email *

Repo Type

Description

Cloud Providers 

Instance Health ☐ Consider only cloud provider health when executing tasks ⓘ
☐ Show health override option for each operation ⓘ

Instance Port ⓘ

Pipeline Behavior ☐ Enable restarting running pipelines ⓘ

** Required*

Cancel Create

Applications

localhost:9000/#/applications

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Applications

Search application

Name ▾	Created ▾
productpage	-
prometheus	-
quickstart	-
ratings	-
reviews	-
servicegraph	-
tiller	-
tracing	-
zipkin	-

« < 1 2 > »


New Application

Name * codelab

Owner Email * mickey.boxell@oracle.com

Repo Type Select Repo Type

Description Sample Spinnaker application


Cloud Providers oracle 
Select...

Instance Health ☐ Consider only cloud provider health when executing tasks ⓘ
☐ Show health override option for each operation ⓘ

Instance Port ⓘ 80

Pipeline Behavior ☐ Enable restarting running pipelines ⓘ

** Required*

Cancel  Create

codelab · Clusters

localhost:9000/#/applications/codelab/clusters

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codelab PIPELINES INFRASTRUCTURE TASKS CONFIG

Infrastructure CLUSTERS LOAD BALANCERS FIREWALLS

Edit multiple Show ☒ Instances ☐ with details Create Server Group

NO SERVER GROUPS FOUND IN THIS APPLICATION

SEARCH ?

ACCOUNT

REGION

STACK

☐ (none)

DETAIL

☐ (none)

STATUS

☐ Healthy

☐ Unhealthy

☐ Disabled

☐ Starting

☐ Out of Service

☐ Unknown

AVAILABILITY ZONES

INSTANCE TYPES

INSTANCE COUNT

Min: Max:

codelab · Load Balancers

localhost:9000/#/applications/codelab/loadBalancers

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PIPELINES

INFRASTRUCTURE

TASKS

CONFIG

Infrastructure

CLUSTERS

LOAD BALANCERS

FIREWALLS

SEARCH

ACCOUNT

REGION

STACK

(none)

DETAIL

(none)

INSTANCE STATUS

Healthy

Unhealthy

Out of Service

AVAILABILITY ZONES

Show

☒ Server Groups

☐ Instances

Create Load Balancer

No load balancers match the filters you've selected.

codelab · Load Balancers

localhost:9000/#/applications/codelab/loadBalancers

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codelab

Infrastructure

SEARCH ?

ACCOUNT

REGION

STACK

(none)

DETAIL

(none)

INSTANCE STATE

Healthy

Unhealthy

Out of Service

AVAILABILITY

Create New Oracle Load Balancer

- PROPERTIES
- SSL CERTIFICATES
- BACKEND SETS
- LISTENERS

Properties

Your load balancer will be named: codelab

Shape

Private Load Balancer ☐

Account

Region (Select an account)

Virtual Network

Subnets

Stack Detail

SSL Certificates

Name	Certificate	CA Cert	Private Key	Passphrase
<div></div>				

Cancel Create

codelab · Load Balancers

localhost:9000/#/applications/codelab/loadBalancers

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codelab

Infrastructure

SEARCH

ACCOUNT

REGION

STACK

(none)

DETAIL

(none)

INSTANCE STATE

Healthy

Unhealthy

Out of Service

AVAILABILITY

Create New Oracle Load Balancer

- PROPERTIES
- SSL CERTIFICATES
- BACKEND SETS
- LISTENERS

Properties

Your load balancer will be named: `codelab-test-loadbalancer`

Shape 400Mbps

Private Load Balancer ☐

Account my-oci-acct

Region us-phoenix-1

Virtual Network spinnaker_vcn

Subnets

- Public Subnet PKGK:PHX-AD-1
- Public Subnet PKGK:PHX-AD-2
- Select...

Stack test **Detail** loadbalancer

SSL Certificates

Cancel Create

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Infrastructure

SEARCH

ACCOUNT

REGION

STACK

(none)

DETAIL

(none)

INSTANCE ST

Healthy

Unhealthy

Out of Serv

AVAILABILITY

CONFIG

Create New Oracle Load Balancer

PROPERTIES

SSL CERTIFICATES

BACKEND SETS

LISTENERS

SSL Certificates

Add Certificate

Backend Sets

Name	Policy	Health Check Protocol	Health Check Port	Health Check Path
backendSet1	ROUND_ROBIN	HTTP	8080	/
Add Backend Set				

Listeners

SSL	SSL Certificate Name	Protocol	Listening Port	Default Backend Set Name
<input type="checkbox"/>	N/A	HTTP	80	backendSet1
Add Listener				

Cancel Create

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Infrastructure

SEARCH

ACCOUNT

REGION

STACK

DETAIL

INSTANCE ST

AVAILABILITY

my-oci-acc

us-phoenix

(none)

test

(none)

loadbalanc

Healthy

Unhealthy

Out of Serv

Creating your load balancer

✓ Upsert Load Balancer (00:00)

✓ Monitor Upsert (00:35)

✓ Extrapolate Upsert Result (00:00)

✓ Force Cache Refresh (00:00)

✓ Operation succeeded!

You can [monitor this task from the Tasks view.](#)

Close

CONFIG

codelab · Load Balancers

localhost:9000/#/applications/codelab/loadBalancers

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codelab PIPELINES INFRASTRUCTURE TASKS CONFIG

Infrastructure CLUSTERS LOAD BALANCERS FIREWALLS

SEARCH ?

ACCOUNT

- ☐ my-oci-acct

REGION

- ☐ us-phoenix-1

STACK

- ☐ (none)
- ☐ test

DETAIL

- ☐ (none)
- ☐ loadbalancer

INSTANCE STATUS

- ☐ Healthy
- ☐ Unhealthy
- ☐ Out of Service

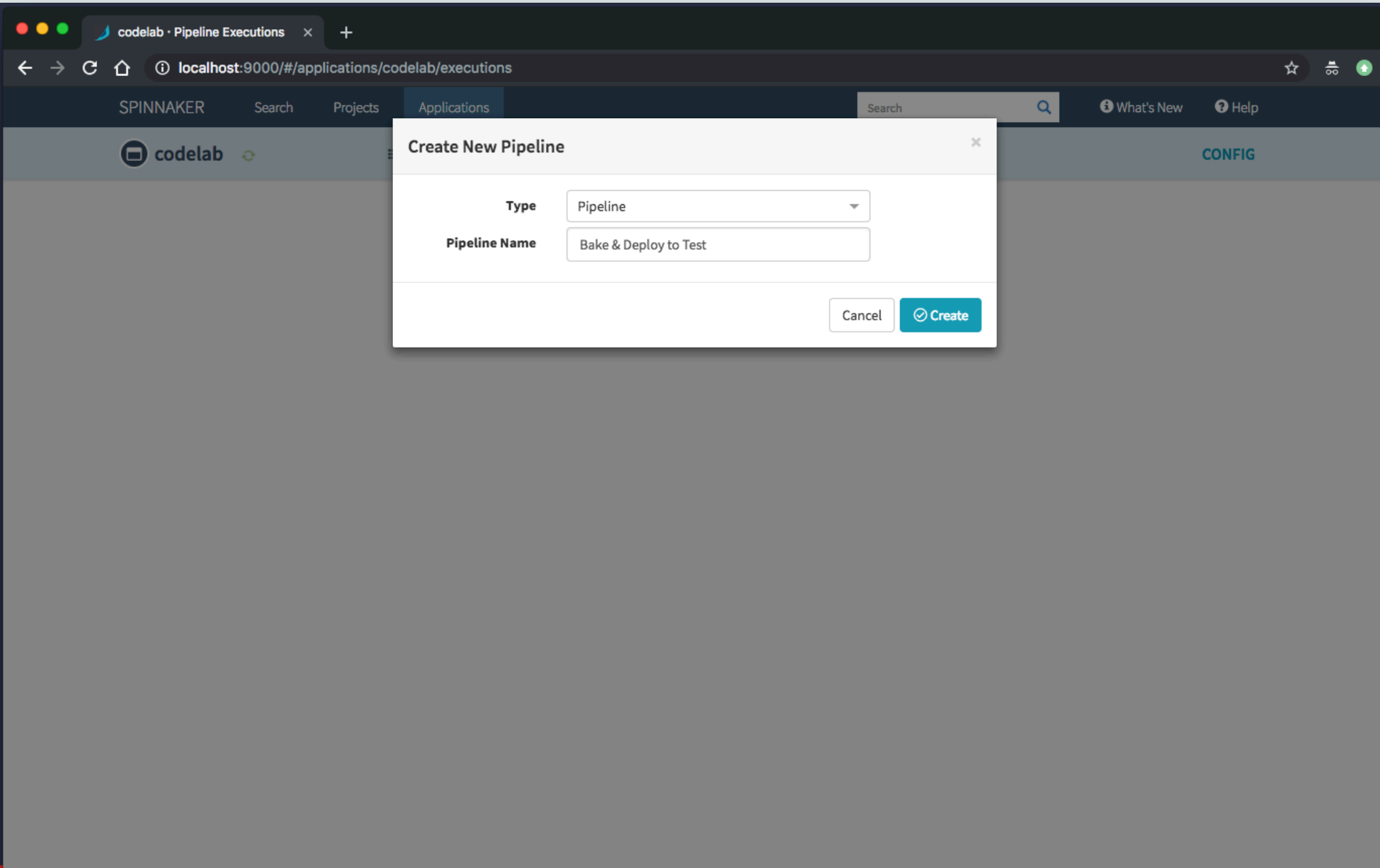
AVAILABILITY ZONES

Show ☒ Server Groups ☐ Instances

Create Load Balancer

MY-OCI-ACCT codelab-test-loadbalancer

US-PHOENIX-1



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PIPELINES

INFRASTRUCTURE

TASKS

CONFIG

Bake & Deploy to Test

Permalink

Pipeline Actions

Configuration

Add stage

Copy an existing stage

CONCURRENT EXECUTIONS

EXPECTED ARTIFACTS

AUTOMATED TRIGGERS

PARAMETERS

NOTIFICATIONS

DESCRIPTION

Concurrent Executions

☒ Disable concurrent pipeline executions (only run one at a time).

☐ Do not automatically cancel pipelines waiting in queue.

Expected Artifacts

Declare artifacts your pipeline expects during execution in this section.

You don't have any expected artifacts declared for Bake & Deploy to Test.

Add Artifact

Automated Triggers

In sync with server

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PIPELINES

INFRASTRUCTURE

TASKS

CONFIG

+

Bake & Deploy to Test

Permalink

+

⚙

Pipeline Actions

Configuration

Bake

+

Add stage

📋

Copy an existing stage

Bake

Stage type: Bake

Bakes an image

Type

Bake

Stage Name

Bake

Depends On

Select...

Remove stage

Edit stage as JSON

BAKE CONFIGURATION

EXECUTION OPTIONS

NOTIFICATIONS

COMMENTS

Bake Configuration

Oracle Account

my-oci-acct

Region

us-phoenix-1

Base Image

ubuntu

Image Name

codelab

Package

tomcat8

Rebake

☐ Rebake image without regard to the status of any existing bake

⚡ Revert

✔ Save Changes

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CONFIG

Dep Stage

Deplo

image

DEPI

EXEC

NOT

COM

Revert

Save Changes

Configure Deployment Cluster

BASIC SETTINGS

INSTANCE TYPE

CAPACITY

LOAD BALANCERS

NETWORK SETTINGS

Basic Settings

Account

my-oci-acct

Region

us-phoenix-1

VCN

spinnaker_vcn

Availability Domain

PKGK:PHX-AD-2

Subnet

Public Subnet PKGK:PHX-AD-2

Effective Security Lists

Security Lists attached to selected subnet:

Default Security List for spinnaker_vcn

TCP: 22 -> 22

TCP: 8080 -> 8080

TCP: 80 -> 80

Stack

test

Detail

Strategy

None

Instance Type

Cancel

Add

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codelab · pipeline config

localhost:9000/#/applications/codelab/executions/configure/5aac8817-7023-43a5-a3dd-057fab612ab3

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CONFIG

Dep Stage Deplo image

DEPI

EXEC

NOT

COM

Revert

Save Changes

BASIC SETTINGS

INSTANCE TYPE

CAPACITY

LOAD BALANCERS

NETWORK SETTINGS

Instance Type

ShapeVM.Standard2.1

Capacity

Select the number of instances

Number of Instances1

Load Balancers

Load Balancercodelab-test-loadbalancer

Backend SetbackendSet1

Listeners for backendSet1

- HTTP:80

Network Settings

SSH KeyEnter the public SSH key for the default user on the instance.

Cancel

Add

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CONFIG

Configuration

Bake

Deploy

Destroy Server Group

Add stage

Copy an existing stage

Destroy Server Group

Stage type: Destroy Server Group

Destroys a server group

Type

Destroy Server Group

Stage Name

Destroy Server Group

Depends On

Deploy

Select...

Remove stage

Edit stage as JSON

DESTROY SERVER GROUP CONFIGURATION

EXECUTION OPTIONS

NOTIFICATIONS

COMMENTS

Destroy Server Group Configuration

Account

my-oci-acct

Regions

☒ us-phoenix-1

Cluster

codelab-test

Toggle for list of existing clusters

Target

Previous Server Group

Execution Options

⚡ Revert

⚠

💾 Save Changes

codelab · Pipeline Executions

localhost:9000/#/applications/codelab/executions

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PIPELINES

INFRASTRUCTURE

TASKS

CONFIG

SEARCH

PIPELINES

Bake & Deploy to Test

Reorder Pipelines

STATUS

Running

Terminal

Succeeded

Not Started

Canceled

Stopped

Buffered

+ -

Group by Pipeline

Show 2 executions per pipeline

stage durations

MY-OCI-ACCT

Bake & Deploy to Test

Configure

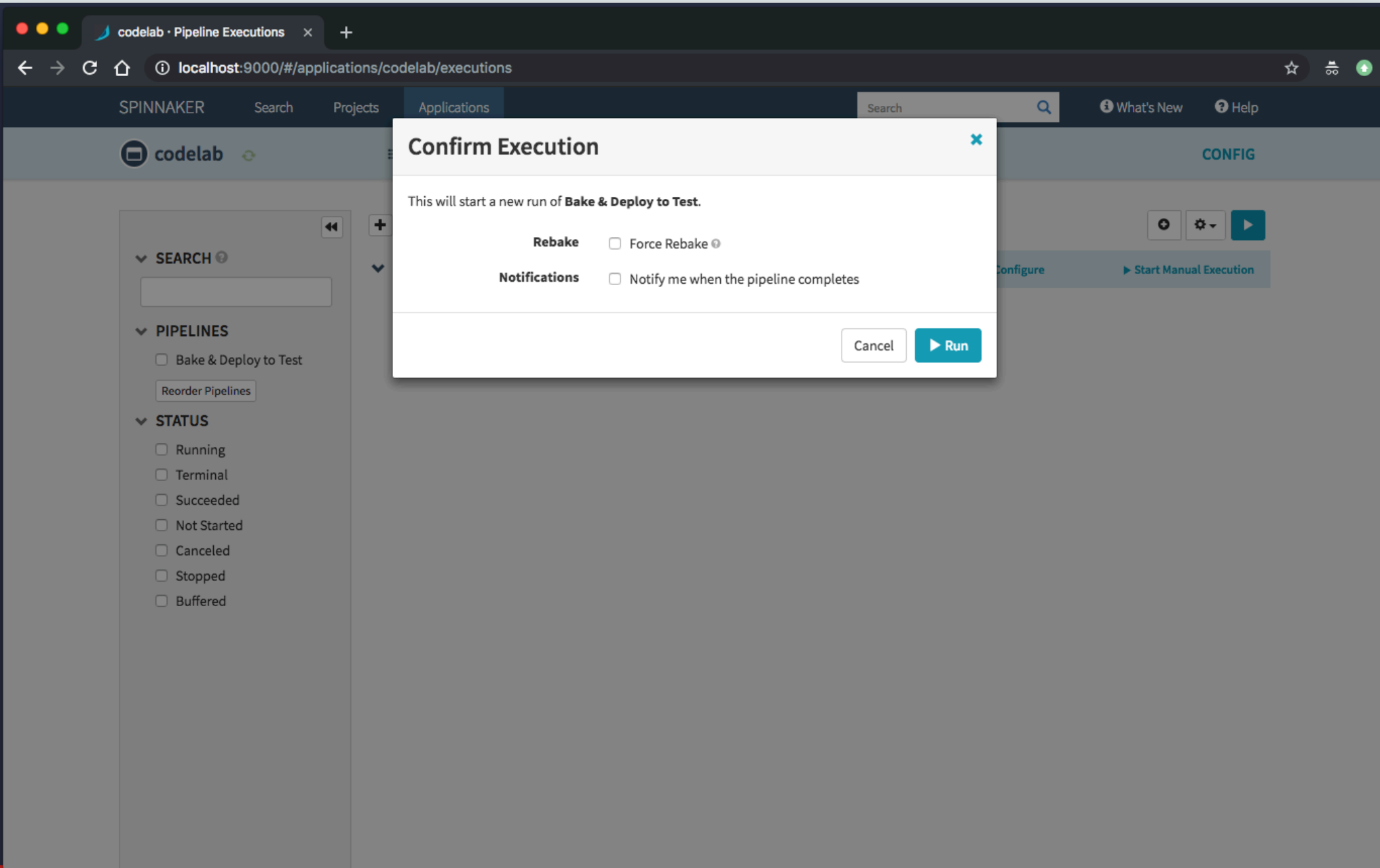
Start Manual Execution

No executions found matching the selected filters.

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PIPELINES

Bake & Deploy to Test

Reorder Pipelines

STATUS

Running

Terminal

Succeeded

Not Started

Canceled

Stopped

Buffered

Group by Pipeline

Show 2 executions per pipeline

MY-OCI-ACCT

Bake & Deploy to Test 1

Configure

Start Manual Execution

MANUAL START

[anonymous]

in a few seconds

Details

Status: RUNNING

Duration: 00:00

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```
==> oracle-oci: Creating temporary ssh key for instance...
==> oracle-oci: Creating instance...
==> oracle-oci: Created instance (ocid1.instance.oc1.phx.abyhqljtf4bes7dcdgviracsqw74j7bdum7glgms7na5x5bock42op3nsboa).
==> oracle-oci: Waiting for instance to enter 'RUNNING' state...
==> oracle-oci: Instance 'RUNNING'.
==> oracle-oci: Instance has IP: 129.146.46.125.
==> oracle-oci: Using ssh communicator to connect: 129.146.46.125
==> oracle-oci: Waiting for SSH to become available...
==> oracle-oci: Connected to SSH!
==> oracle-oci: Pausing 30s before the next provisioner...
==> oracle-oci: Provisioning with shell script: /opt/rosco/config/packer/install_packages.sh
oracle-oci: repository=
oracle-oci: package_type=deb
oracle-oci: packages=tomcat8
oracle-oci: upgrade=true
oracle-oci: Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
oracle-oci: Get:2 http://security.ubuntu.com/ubuntu xenial-security/main Sources [144 kB]
oracle-oci: Hit:3 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial InRelease
oracle-oci: Get:4 http://security.ubuntu.com/ubuntu xenial-security/restricted Sources [2,116 B]
oracle-oci: Get:5 http://security.ubuntu.com/ubuntu xenial-security/universe Sources [103 kB]
oracle-oci: Get:6 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
oracle-oci: Get:7 http://security.ubuntu.com/ubuntu xenial-security/multiverse Sources [3,416 B]
oracle-oci: Get:8 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [626 kB]
oracle-oci: Get:9 http://security.ubuntu.com/ubuntu xenial-security/main Translation-en [259 kB]
oracle-oci: Get:10 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [430 kB]
oracle-oci: Get:11 http://security.ubuntu.com/ubuntu xenial-security/universe Translation-en [173 kB]
oracle-oci: Get:12 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
oracle-oci: Get:13 http://security.ubuntu.com/ubuntu xenial-security/multiverse amd64 Packages [5,604 B]
oracle-oci: Get:14 http://security.ubuntu.com/ubuntu xenial-security/multiverse Translation-en [2,676 B]
oracle-oci: Get:15 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/main Sources [868 kB]
oracle-oci: Get:16 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/restricted Sources [4,808 B]
oracle-oci: Get:17 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/universe Sources [7,728 kB]
oracle-oci: Get:18 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/multiverse Sources [179 kB]
oracle-oci: Get:19 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/universe amd64 Packages [7,532 kB]
oracle-oci: Get:20 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/universe Translation-en [4,354 kB]
oracle-oci: Get:21 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/multiverse amd64 Packages [144 kB]
oracle-oci: Get:22 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial/multiverse Translation-en [106 kB]
oracle-oci: Get:23 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/main Sources [332 kB]
oracle-oci: Get:24 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/restricted Sources [2,536 B]
oracle-oci: Get:25 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/universe Sources [252 kB]
oracle-oci: Get:26 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/multiverse Sources [8,764 B]
oracle-oci: Get:27 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [925 kB]
oracle-oci: Get:28 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/main Translation-en [372 kB]
oracle-oci: Get:29 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/restricted amd64 Packages [7,616 B]
oracle-oci: Get:30 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/restricted Translation-en [2,272 B]
oracle-oci: Get:31 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [740 kB]
oracle-oci: Get:32 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/universe Translation-en [307 kB]
oracle-oci: Get:33 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packages [16.7 kB]
oracle-oci: Get:34 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-updates/multiverse Translation-en [8,440 B]
oracle-oci: Get:35 http://phx-ad-3.clouds.archive.ubuntu.com/ubuntu xenial-backports/main Sources [4,848 B]
```



```
oracle-oci: Adding debian:Hongkong_Post_Root_CA_1.pem
oracle-oci: Adding debian:QuoVadis_Root_CA_3.pem
oracle-oci: Adding debian:Comodo_Secure_Services_root.pem
oracle-oci: Adding debian:Swisscom_Root_EV_CA_2.pem
oracle-oci: Adding debian:GeoTrust_Universal_CA_2.pem
oracle-oci: Adding debian:OpenTrust_Root_CA_G3.pem
oracle-oci: Adding debian:D-TRUST_Root_Class_3_CA_2_2009.pem
oracle-oci: Adding debian:AddTrust_Qualified_Certificates_Root.pem
oracle-oci: Adding debian:SwissSign_Silver_CA_-_G2.pem
oracle-oci: Adding debian:GlobalSign_ECC_Root_CA_-_R5.pem
oracle-oci: Adding debian:DST_Root_CA_X3.pem
oracle-oci: Adding debian:QuoVadis_Root_CA_1_G3.pem
oracle-oci: Adding debian:Hellenic_Academic_and_Research_Institutions_RootCA_2011.pem
oracle-oci: Adding debian:CNNIC_ROOT.pem
oracle-oci: Adding debian:T-TeleSec_GlobalRoot_Class_3.pem
oracle-oci: Adding debian:SecureTrust_CA.pem
oracle-oci: Adding debian:COMODO_RSA_Certification_Authority.pem
oracle-oci: Adding debian:ACCVRAIZ1.pem
oracle-oci: Adding debian:USERTrust_RSA_Certification_Authority.pem
oracle-oci: Adding debian:TWCA_Global_Root_CA.pem
oracle-oci: Adding debian:VeriSign_Class_3_Public_Primary_Certification_Authority_-_G4.pem
oracle-oci: Adding debian:Autoridad_de_Certificacion_Firmaprofesional_CIF_A62634068.pem
oracle-oci: Adding debian:GlobalSign_Root_CA_-_R3.pem
oracle-oci: Adding debian:Staat_der_Nederlanden_EV_Root_CA.pem
oracle-oci: Adding debian:PSCProcert.pem
oracle-oci: Adding debian:OISTE_WISEKey_Global_Root_GA_CA.pem
oracle-oci: done.
oracle-oci: Setting up openjdk-8-jre-headless:amd64 (8u191-b12-2ubuntu0.16.04.1) ...
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/rmid to provide /usr/bin/rmid (rmid) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java to provide /usr/bin/java (java) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/keytool to provide /usr/bin/keytool (keytool) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/jjs to provide /usr/bin/jjs (jjs) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/pack200 to provide /usr/bin/pack200 (pack200) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/rmiregistry to provide /usr/bin/rmiregistry (rmiregistry) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/unpack200 to provide /usr/bin/unpack200 (unpack200) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/orbd to provide /usr/bin/orbd (orbd) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/servertool to provide /usr/bin/servertool (servertool) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/tnameserv to provide /usr/bin/tnameserv (tnameserv) in auto mode
oracle-oci: update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/lib/jexec to provide /usr/bin/jexec (jexec) in auto mode
oracle-oci: Setting up default-jre-headless (2:1.8-56ubuntu2) ...
oracle-oci: Setting up tomcat8-common (8.0.32-1ubuntu1.9) ...
oracle-oci: Setting up tomcat8 (8.0.32-1ubuntu1.9) ...
oracle-oci:
oracle-oci: Creating config file /etc/default/tomcat8 with new version
oracle-oci: Adding system user `tomcat8' (UID 113) ...
oracle-oci: Adding new user `tomcat8' (UID 113) with group `tomcat8' ...
oracle-oci: Not creating home directory `/usr/share/tomcat8'.
oracle-oci:
oracle-oci: Creating config file /etc/logrotate.d/tomcat8 with new version
```


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PIPELINES

Bake & Deploy to Test

Reorder Pipelines

STATUS

Running

Terminal

Succeeded

Not Started

Canceled

Stopped

Buffered

+

-

Group by

Pipeline

Show

2

executions per pipeline

☐ stage durations

Create

Configure

Start Manual Execution

There was an error loading executions. We'll try again shortly.

MY-OCI-ACCT

Bake & Deploy to Test

Configure

Start Manual Execution

MANUAL START

[anonymous]
an hour ago

Details

Status: TERMINAL

Duration: 09:58

Bake

Deploy

Destroy Server Group

STAGE DETAILS: DESTROY SERVER GROUP

Duration: 00:00

Step	Started	Duration	Status
Determine Target Server Group	2019-03-25 12:34:28 PDT	00:00	TERMINAL
Destroy Server Group: (us-phoenix-1)	-	-	NOT STARTED
Destroy Server Group: ()	2019-03-25 12:34:28 PDT	00:00	TERMINAL

DETERMINE TARGET SERVER GROUP

Task

Determine Target Server Group

Duration

00:00

Exception (Determine Target Server Group)

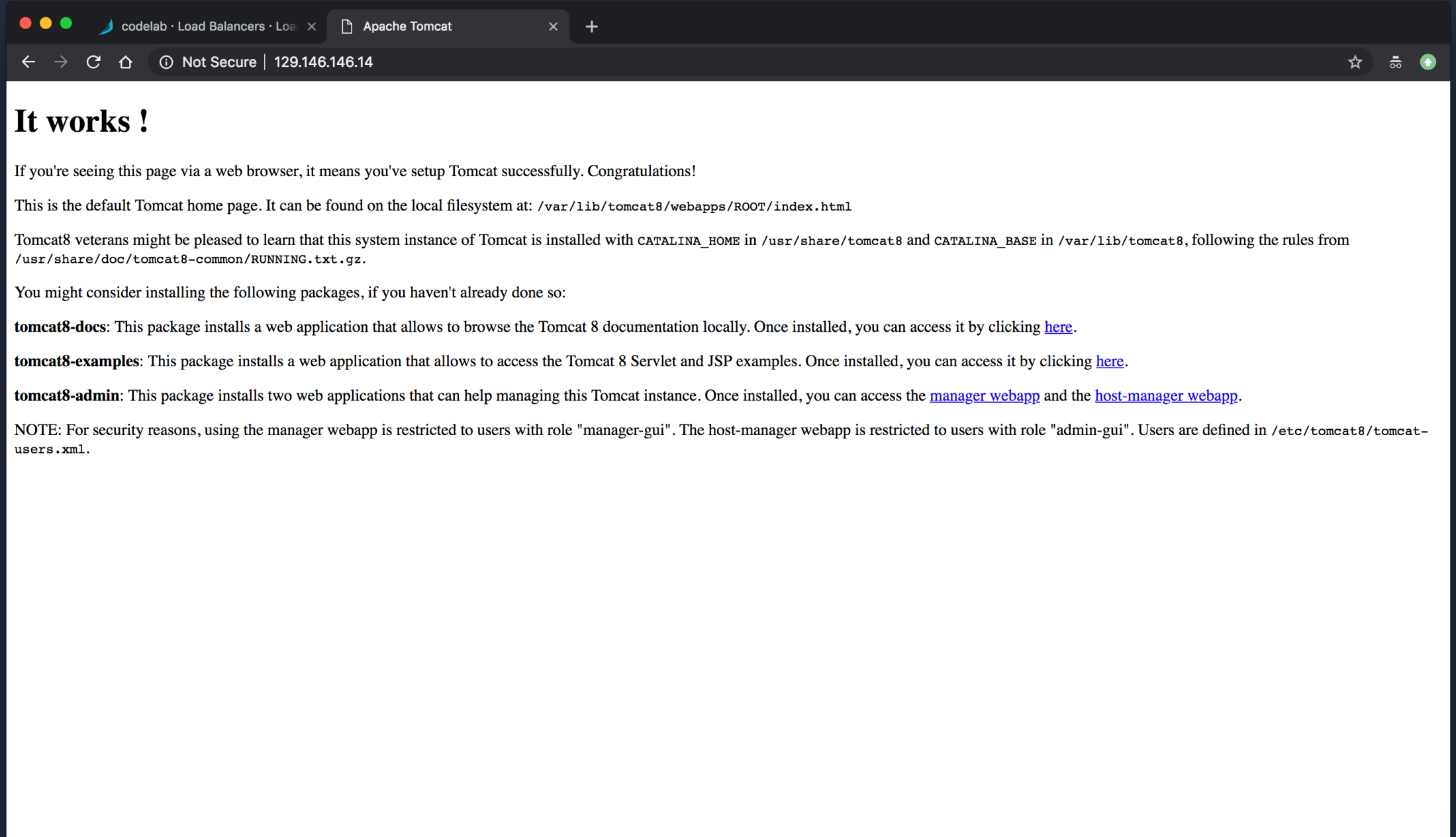
Unable to locate ancestor_asg_dynamic in my-oci-acct/us-phoenix-1/codelab-test

Source | Permalink

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codelab · Pipeline Executions

localhost:9000/#/applications/codelab/executions

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Reorder Pipelines

STATUS

Running

Terminal

Succeeded

Not Started

Canceled

Stopped

Buffered

+ -

Group by Pipeline

Show 2 executions per pipeline

stage durations

Create

Configure

Start Manual Execution

MY-OCI-ACCT

Bake & Deploy to Test

Configure

Start Manual Execution

MANUAL START

[anonymous]

9 minutes ago

Details

Status: SUCCEEDED

Duration: 03:15

MANUAL START

[anonymous]

2 hours ago

Details

Status: TERMINAL

Duration: 09:58

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Running

Terminal

Succeeded

Not Started

Canceled

Stopped

Buffered

Group by Pipeline

Show 2 executions per pipeline

stage durations

Create

Configure

Start Manual Execution

MY-OCI-ACCT

Bake & Deploy to Test

Configure

Start Manual Execution

MANUAL START

[anonymous]

9 minutes ago

Details

Status: SUCCEEDED

Duration: 03:15

Bake

Deploy

Destroy Server Group

STAGE DETAILS: BAKE

Duration: 00:00

Step	Started	Duration	Status
Bake in us-phoenix-1	2019-03-25 14:03:40 PDT	00:00	SUCCEEDED
Bake	2019-03-25 14:03:40 PDT	00:00	SUCCEEDED

BAKE IN US-PHOENIX-1

Bake Config

Task Status

Provider

Image Name

Package

Account

Base Image

Rebake

Template

oracle

codelab

tomcat8

my-oci-acct

ubuntu

false

codelab.json

No changes detected; reused existing bake

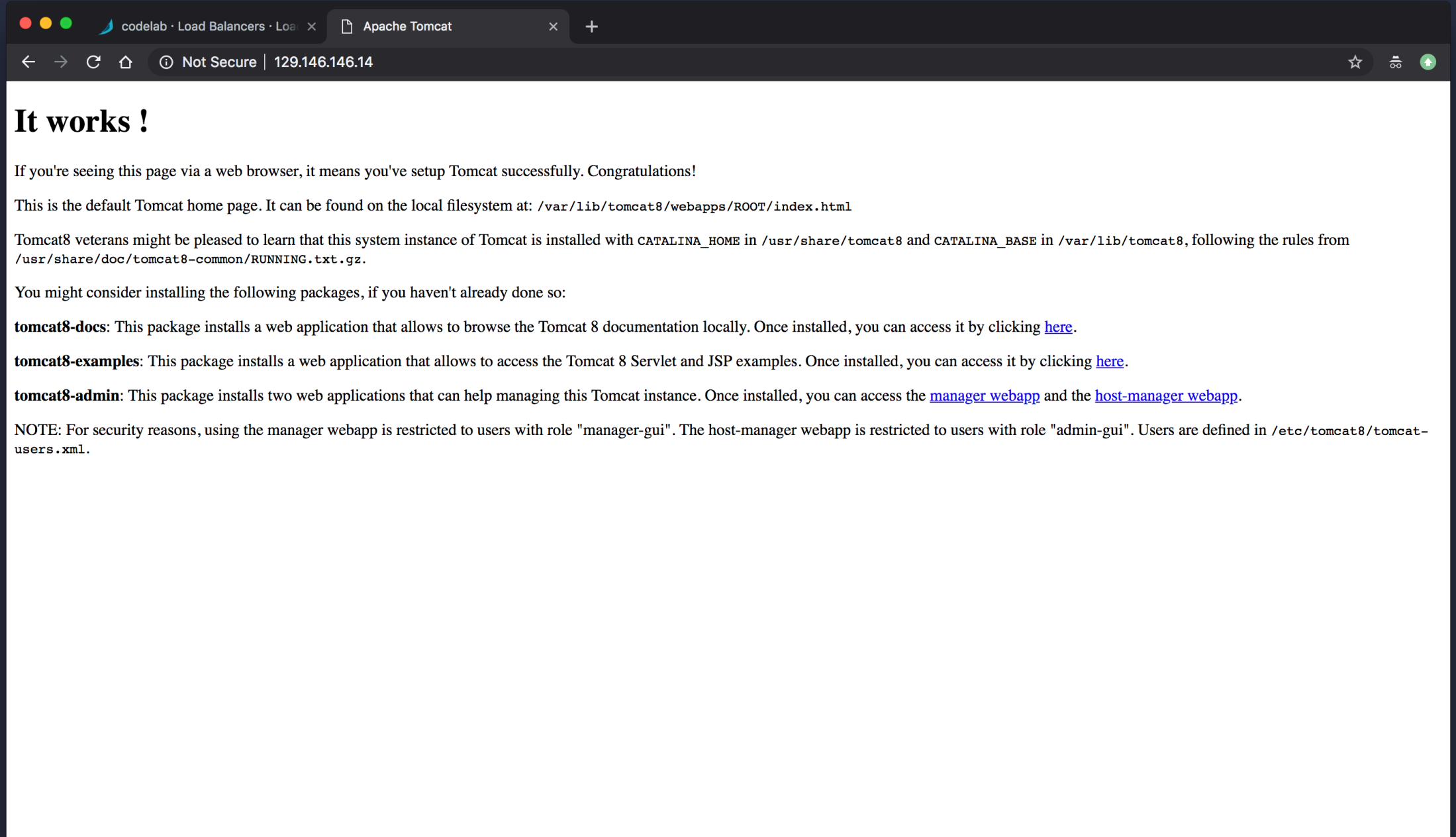
Image:

codelab-all-20190325192431-ubuntu

View Bakery Details

Source

Permalink



Oracle Cloud Infrastructure

https://console.us-phoenix-1.oraclecloud.com

ORACLE Cloud

us-phoenix-1

us-phoenix-1

Core Infrastructure

Compute

Block Storage

Object Storage

File Storage

Networking

Database

Bare Metal, VM, and Exadata

Autonomous Data Warehouse

Autonomous Transaction Processing

Solutions, Platform and Edge

Analytics

Resource Manager

Email Delivery

Application Integration

Edge Services

Monitoring

Developer Services

Instances

Instance Configurations

Instance Pools

Autoscaling Configurations

Custom Images

Boot Volumes

Boot Volume Backups

3-5 mins

3-5 mins

2-6 mins

3-9 mins

Autonomous Transaction Processing

Autonomous Data Warehouse

Object Storage

DNS Zone Management

Store data

Create a data warehouse

Manage a domain

Mission Critical Databases

Resource Manager

Big Data and Analytics

Leverage a range of modern cloud

Automate the provisioning of your

Deploy popular technologies like

All systems operational

View health dashboard

Action Center

User Management

Add a user to your tenancy

What's New

Adding another layer of security with easy-to-use multi-factor authentication

Mar 6, 2019

Provision and manage infrastructure as code with Oracle Resource Manager and Terraform

Feb 28, 2019

Track critical health and performance metrics with Oracle Cloud Infrastructure Monitoring

Feb 28, 2019

Introducing Oracle Cloud Infrastructure Notifications: push time-sensitive notifications at scale

Feb 28, 2019

Right-size your workloads with new

https://console.us-phoenix-1.oraclecloud.com/a/compute/instances

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Oracle Cloud Infrastructure

https://console.us-phoenix-1.oraclecloud.com/a/compute/instances

us-phoenix-1

ORACLE Cloud

us-phoenix-1

Compute

Instances

Instance Configurations

Instance Pools

Autoscaling Configurations

Custom Images

Boot Volumes

Boot Volume Backups

List Scope

COMPARTMENT

mickey

oracle-cloudnative (root)/mickey

Don't see what you're looking for?

Filters









Terms of Use and Privacy

Create Instance

Sort by: Created Date (Desc)

Displaying 4 Instances

Page 1

 RUNNING	codelab-test-v001-0 OCID: ...bdpvkq Show Copy	Shape: VM.Standard 2.1	Region: phx Availability Domain: PKGK:PHX-AD-2 Fault Domain: FAULT-DOMAIN-1	Created: Mon, 25 Mar 2019 21:03:43 GMT Maintenance Reboot: -	
 TERMINATED	codelab-test-v000-0 OCID: ...bgpu5a Show Copy	Shape: VM.Standard 2.1	Region: phx Availability Domain: PKGK:PHX-AD-2 Fault Domain: FAULT-DOMAIN-1	Created: Mon, 25 Mar 2019 19:32:42 GMT Maintenance Reboot: -	
 TERMINATED	instance20190325192437 OCID: ...3nsboa Show Copy	Shape: VM.Standard 2.1	Region: phx Availability Domain: PKGK:PHX-AD-2 Fault Domain: FAULT-DOMAIN-1	Created: Mon, 25 Mar 2019 19:24:37 GMT Maintenance Reboot: -	
 RUNNING	spinnaker OCID: ...	Shape: VM.Standard 2.1	Region: phx Availability Domain: PKGK:PHX-AD-2 Fault Domain: FAULT-DOMAIN-1	Created: Wed, 13 Mar 2019 21:35:12 GMT Maintenance Reboot: -	

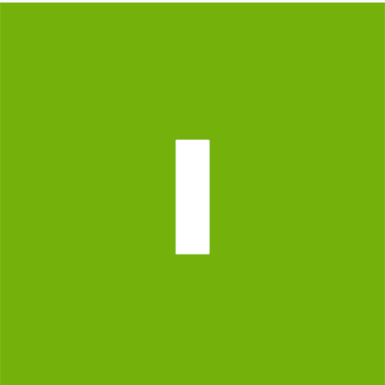
Oracle Cloud Infrastructure

https://console.us-phoenix-1.oraclecloud.com/a/compute/instances/ocid1.instance.oc1.phx.abyhqljltymjhdrmnlexjsozdfcxwbpysj2xvr6vm32n4rfri5v55xbdpvkq

us-phoenix-1

ORACLE Cloud

Compute » Instances » Instance Details



RUNNING

codelab-test-v001-0

Create Custom Image

Start

Stop

Reboot

Terminate

Apply Tag(s)

Create Instance Configuration

Instance Information

Tags

Instance Information

Availability Domain: PKGK:PHX-AD-2

Fault Domain: FAULT-DOMAIN-1

Region: phx

Shape: VM.Standard2.1

Virtual Cloud Network: [spinnaker_vcn](#)

Maintenance Reboot: -

Image: [codelab-all-20190325192431-ubuntu](#)

OCID: ...bdpvkq [Show](#) [Copy](#)

Launched: Mon, 25 Mar 2019 21:03:43 GMT

Compartment: oracle-cloudnative (root)/mickey

Launch Mode: NATIVE

Primary VNIC Information

Private IP Address: 10.0.1.8

Public IP Address: 129.146.84.215

Internal FQDN: *Unavailable*

Subnet: [Public Subnet PKGK:PHX-AD-2](#)

This Instance's traffic is controlled by its firewall rules in addition to the associated [Subnet's](#) Security Lists.

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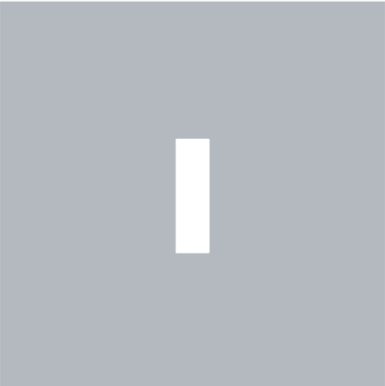
Oracle Cloud Infrastructure

https://console.us-phoenix-1.oraclecloud.com/a/compute/instances/ocid1.instance.oc1.phx.abyhqljtafyr6t3m5rr3tdfn2uzduhk3h9k7wmyphshrovxthntkggbgpu5a

us-phoenix-1

ORACLE Cloud

Compute » Instances » Instance Details



TERMINATED

codelab-test-v000-0

Create Custom ImageStartStopRebootTerminateApply Tag(s>Create Instance Configuration

Instance Information

Tags

Instance Information

Availability Domain: PKGK:PHX-AD-2

Fault Domain: FAULT-DOMAIN-1

Region: phx

Shape: VM.Standard2.1

Virtual Cloud Network: *Unavailable*

Maintenance Reboot: -

Image: [codelab-all-20190325192431-ubuntu](#)

OCID: ...bgpu5a [Show](#) [Copy](#)

Launched: Mon, 25 Mar 2019 19:32:42 GMT

Compartment: oracle-cloudnative (root)/mickey

Launch Mode: NATIVE

Primary VNIC Information

Private IP Address: *Unavailable*

Public IP Address: *Unavailable*

Internal FQDN: *Unavailable*

Subnet: *Unavailable*

This Instance's traffic is controlled by its firewall rules in addition to the associated [Subnet's](#) Security Lists.

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Deploying to Oracle Cloud Infrastructure: Part 2: Validate test

codelab · Pipeline Executions

localhost:9000/#/applications/codelab/executions

SPINNAKER Search Projects Applications Search What's New Help

codelab PIPELINES CONFIG

Create New Pipeline

Type Pipeline

Pipeline Name Validate Test

Copy From None

Cancel Create

SEARCH

PIPELINES

Bake & Deploy to Test

Reorder Pipelines

STATUS

Running

Terminal

Succeeded

Not Started

Canceled

Stopped

Buffered

MANUAL [anonymous] 2 hours ago

Details

Duration: 03:15

MANUAL START [anonymous] 3 hours ago

Details

Status: TERMINAL

Duration: 09:58

Create Configure Start Manual Execution

Configure Start Manual Execution

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PIPELINES

INFRASTRUCTURE

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CONFIG

Validate Test

Permalink

Create

Configure

Pipeline Actions

Configuration

Add stage

Copy an existing stage

CONCURRENT EXECUTIONS

EXPECTED ARTIFACTS

AUTOMATED TRIGGERS

PARAMETERS

NOTIFICATIONS

DESCRIPTION

Concurrent Executions

☒ Disable concurrent pipeline executions (only run one at a time).

☐ Do not automatically cancel pipelines waiting in queue.

Expected Artifacts

Declare artifacts your pipeline expects during execution in this section.

You don't have any expected artifacts declared for Validate Test.

Add Artifact

In sync with server

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codelab · pipeline config

localhost:9000/#/applications/codelab/executions/configure/515148be-7dfe-480c-8669-5c9c1dfea10d

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EXPECTED ARTIFACTS

AUTOMATED TRIGGERS

PARAMETERS

NOTIFICATIONS

DESCRIPTION

Automated Triggers

You don't have any triggers configured for Validate Test.

Add Trigger

Parameters

You don't have any parameters configured for Validate Test.

Add Parameter

Notifications

Add Notification Preference

Description

(Optional) anything that might be helpful to explain the purpose of this pipeline; Markdown is okay

In sync with server

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EXPECTED ARTIFACTS

AUTOMATED TRIGGERS (1)

PARAMETERS

NOTIFICATIONS

DESCRIPTION

Automated Triggers

Type

Pipeline

↓

Listens to a pipeline execution

Remove trigger

Application

codelab

▼

Pipeline

Bake & Deploy to Test

▼

Pipeline Status

☒ successful

☐ failed

☐ canceled

☒ Trigger Enabled

+

Add Trigger

Parameters

You don't have any parameters configured for Validate Test.

+

Add Parameter

Notifications

+

Add Notification Preference

⚡ Revert

✓ Save Changes

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Create

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Pipeline Actions

Configuration

Manual Judgment

Add stage

Copy an existing stage

Manual Judgment

Stage type: Manual Judgment

Waits for user approval before continuing

Type

Manual Judgment

Stage Name

Manual Judgment

Depends On

Select...

Remove stage

Edit stage as JSON

MANUAL JUDGMENT CONFIGURATION

EXECUTION OPTIONS

COMMENTS

Manual Judgment Configuration

Instructions

Provide any instructional text that would assist making a manual judgment (can contain HTML)

Judgment Inputs

Option

Actions

Add judgment input

Revert

Save Changes

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EXPECTED ARTIFACTS

AUTOMATED TRIGGERS (1)

PARAMETERS

NOTIFICATIONS

DESCRIPTION

Automated Triggers

Type

Pipeline

↓

Listens to a pipeline execution

Remove trigger

Application

codelab

▼

Pipeline

Bake & Deploy to Test

▼

Pipeline Status

☒ successful

☐ failed

☐ canceled

☒ Trigger Enabled

➕ Add Trigger

Parameters

You don't have any parameters configured for Validate Test.

➕ Add Parameter

Notifications

➕ Add Notification Preference

⚡ Revert

✔ Save Changes

codelab · pipeline config

localhost:9000/#/applications/codelab/executions/configure/515148be-7dfe-480c-8669-5c9c1dfea10d

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Pipeline Actions

Configuration

Manual Judgment

Add stage

Copy an existing stage

Manual Judgment

Stage type: Manual Judgment

Waits for user approval before continuing

Type

Manual Judgment

Stage Name

Manual Judgment

Depends On

Select...

Remove stage

Edit stage as JSON

MANUAL JUDGMENT CONFIGURATION

EXECUTION OPTIONS

COMMENTS

Manual Judgment Configuration

Instructions

Validate the test cluster

Judgment Inputs

Option

Actions

Add judgment input

Revert

Save Changes

Deploying to Oracle Cloud Infrastructure: Part 3: Promote to prod

codelab · Pipeline Executions

localhost:9000/#/applications/codelab/executions

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codelab PIPELINES CONFIG

Create New Pipeline

Type Pipeline

Pipeline Name Promote to Prod

Copy From None

Cancel Create

SEARCH

PIPELINES

- ☐ Bake & Deploy to Test
- ☐ Validate Test

Reorder Pipelines

STATUS

- ☐ Running
- ☐ Terminal
- ☐ Succeeded
- ☐ Not Started
- ☐ Canceled
- ☐ Stopped
- ☐ Buffered

MANUAL [anonymous] 2 hours ago

MANUAL START [anonymous] 4 hours ago

Status: TERMINAL

Duration: 03:15

Duration: 09:58

Validate Test

Trigger: enabled

Configure Start Manual Execution

No executions found matching the selected filters.

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INFRASTRUCTURE

TASKS

CONFIG

CONCURRENT EXECUTIONS

EXPECTED ARTIFACTS

AUTOMATED TRIGGERS (1)

PARAMETERS

NOTIFICATIONS

DESCRIPTION

Automated Triggers

Type

Pipeline

↓

Listens to a pipeline execution

Remove trigger

Application

codelab

▼

Pipeline

Validate Test

▼

Pipeline Status

☒ successful

☐ failed

☐ canceled

☒ Trigger Enabled

+

Add Trigger

Parameters

You don't have any parameters configured for Promote to Prod.

+

Add Parameter

Notifications

+

Add Notification Preference

⚡ Revert

✓ Save Changes

Browser: localhost:9000/#/applications/codelab/loadBalancers

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Infrastructure

SEARCH ?

ACCOUNT

- my-oci-acct

REGION

- us-phoenix-1

STACK

- (none)
- test

DETAIL

- (none)
- loadbalancer

INSTANCE STATUS

- Healthy
- Unhealthy
- Out of Service

AVAILABLE ZONES

Create New Oracle Load Balancer

PROPERTIES

SSL CERTIFICATES

BACKEND SETS

LISTENERS

Properties

Your load balancer will be named: codelab-Prod

Shape: 400Mbps

Private Load Balancer: ☐

Account: my-oci-acct

Region: us-phoenix-1

Virtual Network: spinnaker_vcn

Subnets: Public Subnet PKGK:PHX-AD-1, Public Subnet PKGK:PHX-AD-2, Select...

Stack: Prod Detail:

SSL Certificates

Cancel Create

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ACCOUNT

REGION

STACK

DETAIL

INSTANCE STATUS

AVAILABILITY ZONES

localhost:9000/#/applications/codelab/loadBalancers

What's New

Help

CONFIG

PROPERTIES

SSL CERTIFICATES

BACKEND SETS

LISTENERS

SSL Certificates

Add Certificate

Backend Sets

Name	Policy	Health Check Protocol	Health Check Port	Health Check Path
backendSet1	ROUND_ROBIN	HTTP	8080	/

Add Backend Set

Listeners

SSL	SSL Certificate Name	Protocol	Listening Port	Default Backend Set Name
<input type="checkbox"/>	N/A	HTTP	80	backendSet1

Add Listener

Cancel

Create

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Promote to Prod

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Pipeline Actions

Configuration

Find Image from Cluster

Add stage

Copy an existing stage

Find Image from Cluster

Stage type: Find Image from Cluster

Finds an image to deploy from an existing cluster

Type

Find Image from Cluster

Stage Name

Find Image from Cluster

Depends On

Select...

Remove stage

Edit stage as JSON

FIND IMAGE FROM CLUSTER CONFIGURATION

EXECUTION OPTIONS

NOTIFICATIONS

COMMENTS

Find Image from Cluster Configuration

Account

my-oci-acct

Regions

☒ us-phoenix-1

Cluster

codelab-test

Toggle for text input

Server Group Selection

Newest

⚡ Revert

✓ Save Changes

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Configuration

Find Image from Cluster

Deploy

Add stage

Copy an existing stage

Deploy

Stage type: Deploy

Deploys the previously baked or found image

Stage Name

Deploy

Depends On

Find Image from Cluster

Select...

Remove stage

Edit stage as JSON

DEPLOY CONFIGURATION

EXECUTION OPTIONS

NOTIFICATIONS

COMMENTS

Deploy Configuration

Provider	Account	Cluster	Region	Strategy	Capacity	Actions
Add server group						

Execution Options

In sync with server

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codelab · pipeline config

localhost:9000/#/applications/codelab/executions/configure/f6052da7-75d7-4cfc-ac07-35d06fa74665

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codelab

Configure Deployment Cluster

- BASIC SETTINGS
- INSTANCE TYPE
- CAPACITY
- LOAD BALANCERS
- NETWORK SETTINGS

Basic Settings

Account my-oci-acct

Region us-phoenix-1

VCN spinnaker_vcn

Availability Domain PKGK:PHX-AD-2

Subnet Public Subnet PKGK:PHX-AD-2

Effective Security Lists Security Lists attached to selected subnet:

- Default Security List for spinnaker_vcn**
- TCP: 22 -> 22
- TCP: 8080 -> 8080
- TCP: 80 -> 80

Stack Prod

Detail

Strategy None

Instance Type

Cancel Add

CONFIG

Pipeline Actions

Remove stage

Edit stage as JSON

Actions

In sync with server

codelab · pipeline config

localhost:9000/#/applications/codelab/executions/configure/f6052da7-75d7-4cfc-ac07-35d06fa74665

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codelab

Promote

Configuration

Deploy
Stage type: Deploy
Deploys the previously

DEPLOY CONFIGURATION

EXECUTION OPTIONS

NOTIFICATIONS

COMMENTS

Configure Deployment Cluster

- BASIC SETTINGS
- INSTANCE TYPE**
- CAPACITY
- LOAD BALANCERS
- NETWORK SETTINGS

Basic Settings

Instance Type

Shape VM.Standard2.1

Capacity

Select the number of instances

Number of Instances 1

Load Balancers

Load Balancer codelab-Prod

Backend Set backendSet1

Listeners for backendSet1

- HTTP:80

Network Settings

Cancel Add

CONFIG

Pipeline Actions

Remove stage

Edit stage as JSON

Actions

In sync with server

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Permalink

Create

Configure

Pipeline Actions

Configuration

Find Image from Cluster

Deploy

Add stage

Copy an existing stage

Deploy

Stage type: Deploy

Deploys the previously baked or found image

Stage Name

Deploy

Remove stage

Depends On

Find Image from Cluster

Select...

Edit stage as JSON

DEPLOY CONFIGURATION

EXECUTION OPTIONS

NOTIFICATIONS

COMMENTS

Deploy Configuration

Provider	Account	Cluster	Region	Strategy	Capacity	Actions
↑	MY-OCI-ACCT	codelab-Prod	us-phoenix-1	[none]		
Add server group						

⚡ Revert

✓ Save Changes

codelab · Pipeline Executions

localhost:9000/#/applications/codelab/executions

SPINNAKER Search Projects Applications Search What's New Help

codelab PIPELINES CONFIG

Confirm Execution

Pipeline: Bake & Deploy to Test

This will start a new run of **Bake & Deploy to Test**.

Rebake: ☐ Force Rebake

Notifications: ☐ Notify me when the pipeline completes

Cancel Run

PIPELINES

SEARCH

PIPELINES

- ☐ Bake & Deploy to Test
- ☐ Validate Test
- ☐ Promote to Prod

Reorder Pipelines

STATUS

- ☐ Running
- ☐ Terminal
- ☐ Succeeded
- ☐ Not Started
- ☐ Canceled
- ☐ Stopped
- ☐ Buffered

MANUAL [anonymous] 2 hours ago

MANUAL START [anonymous] 4 hours ago

Status: TERMINAL

Duration: 03:15

Duration: 09:58

Validate Test

Trigger: enabled

Configure Start Manual Execution

Promote to Prod

Trigger: enabled

Configure Start Manual Execution

No executions found matching the selected filters.

No executions found matching the selected filters.

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1

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PIPELINES

☐ Bake & Deploy to Test

☐ Validate Test

☐ Promote to Prod

Reorder Pipelines

STATUS

☐ Running

☐ Terminal

☐ Succeeded

☐ Not Started

☐ Canceled

☐ Stopped

☐ Buffered

+

-

Group by Pipeline

Show 2 executions per pipeline

☐ stage durations

Create

Configure

Start Manual Execution

MY-OCI-ACCT

Bake & Deploy to Test 1

Configure

Start Manual Execution

MANUAL START

[anonymous]

a few seconds ago

Details

Status: RUNNING

Duration: 00:07

MANUAL START

[anonymous]

2 hours ago

Details

Status: SUCCEEDED

Duration: 03:15

Validate Test

Trigger: enabled

Configure

Start Manual Execution

No executions found matching the selected filters.

Promote to Prod

Trigger: enabled

Configure

Start Manual Execution

No executions found matching the selected filters.

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codelab · Pipeline Executions
localhost:9000/#/applications/codelab/executions

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SEARCH

PIPELINES

- ☐ Bake & Deploy to Test
- ☐ Validate Test
- ☐ Promote to Prod

Reorder Pipelines

STATUS

- ☐ Running
- ☐ Terminal
- ☐ Succeeded
- ☐ Not Started
- ☐ Canceled
- ☐ Stopped
- ☐ Buffered

+
-
Group by Pipeline
Show 2 executions per pipeline
☐ stage durations
Create
Configure
Start Manual Execution

MY-OCI-ACCT
Bake & Deploy to Test 1
Configure
Start Manual Execution

MANUAL START
[anonymous]
3 minutes ago
Details

Status: RUNNING

Duration: 02:38

MANUAL START
[anonymous]
2 hours ago
Details

Status: SUCCEEDED

Duration: 03:15

Validate Test
Trigger: enabled
Configure
Start Manual Execution

No executions found matching the selected filters.

Promote to Prod
Trigger: enabled
Configure
Start Manual Execution

No executions found matching the selected filters.

Browser: localhost:9000/#/applications/codelab/executions

SPINNAKER Search Projects Applications

codelab PIPELINES 1 INFRASTRUCTURE TASKS CONFIG

Group by Pipeline Show 2 executions per pipeline stage durations

SEARCH

PIPELINES

- ☐ Bake & Deploy to Test
- ☐ Validate Test
- ☐ Promote to Prod

Reorder Pipelines

STATUS

- ☐ Running
- ☐ Terminal
- ☐ Succeeded
- ☐ Not Started
- ☐ Canceled
- ☐ Stopped
- ☐ Buffered

MY-OCI-ACCT Bake & Deploy to Test

MANUAL START [anonymous] 4 minutes ago

Status: SUCCEEDED Duration: 03:43

MANUAL START [anonymous] 2 hours ago

Status: SUCCEEDED Duration: 03:15

Validate Test 1

Trigger: enabled

BAKE & DEPLOY TO TEST PIPELINE [anonymous] a few seconds ago

Status: RUNNING Duration: 00:20

Promote to Prod

Trigger: enabled

No executions found matching the selected filters.

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☐ Running

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☐ Succeeded

☐ Not Started

☐ Canceled

☐ Stopped

☐ Buffered

+

-

Group by Pipeline

Show 2 executions per pipeline

☐ stage durations

Create

Configure

Start Manual Execution

Validate Test

Trigger: enabled

Configure

Start Manual Execution

BAKE & DEPLOY TO TEST PIPELINE

[anonymous]

3 minutes ago

Details

Status: SUCCEEDED

Duration: 00:27

Manual Judgment

STAGE DETAILS: MANUAL JUDGMENT

Duration: 00:27

Step	Started	Duration	Status
Manual Judgment	2019-03-25 16:06:58 PDT	00:27	SUCCEEDED

MANUAL JUDGMENT

Manual Judgment

Task Status

Judgment

Continue

Judged By

anonymous

2019-03-25 16:07:25 PDT

Instructions

Validate the test cluster

Source | Permalink

Promote to Prod

Trigger: enabled

Configure

Start Manual Execution

VALIDATE TEST

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localhost:9000/#/applications/codelab/executions

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☐ Bake & Deploy to Test

☐ Validate Test

☐ Promote to Prod

Reorder Pipelines

STATUS

☐ Running

☐ Terminal

☐ Succeeded

☐ Not Started

☐ Canceled

☐ Stopped

☐ Buffered

+ -

Group by Pipeline

Show 2 executions per pipeline

☐ stage durations

Create

Configure

Start Manual Execution

MY-OCI-ACCT

Bake & Deploy to Test

Configure

Start Manual Execution

MANUAL START

[anonymous]

4 minutes ago

>Details

Status: SUCCEEDED

Duration: 03:43

MANUAL START

[anonymous]

2 hours ago

>Details

Status: SUCCEEDED

Duration: 03:15

Validate Test

Trigger: enabled

Configure

Start Manual Execution

BAKE & DEPLOY TO TEST PIPELINE

[anonymous]

a few seconds ago

>Details

Status: SUCCEEDED

Duration: 00:27

Promote to Prod

Trigger: enabled

Configure

Start Manual Execution

No executions found matching the selected filters.

Browser: localhost:9000/#/applications/codelab/executions

SPINNAKER Search Projects Applications

codelab PIPELINES 1 INFRASTRUCTURE TASKS CONFIG

Group by Pipeline Show 2 executions per pipeline stage durations

SEARCH

PIPELINES

- ☐ Bake & Deploy to Test
- ☐ Validate Test
- ☐ Promote to Prod

Reorder Pipelines

STATUS

- ☐ Running
- ☐ Terminal
- ☐ Succeeded
- ☐ Not Started
- ☐ Canceled
- ☐ Stopped
- ☐ Buffered

MY-OCI-ACCT Bake & Deploy to Test

MANUAL START [anonymous] 4 minutes ago

Status: SUCCEEDED Duration: 03:43

MANUAL START [anonymous] 2 hours ago

Status: SUCCEEDED Duration: 03:15

Validate Test Trigger: enabled

BAKE & DEPLOY TO TEST PIPELINE [anonymous] a few seconds ago

Status: SUCCEEDED Duration: 00:27

Promote to Prod 1 Trigger: enabled

VALIDATE TEST PIPELINE [anonymous] a few seconds ago

Status: RUNNING Duration: 00:07

codelab · Pipeline Executions
localhost:9000/#/applications/codelab/executions/01D6VHKQ04TVYE43FPN1E2FPWK?stage=0&step=0&details=findImageConfig

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Group by Pipeline

Show 2 executions per pipeline

stage durations

Create

Configure

Start Manual Execution

Promote to Prod

Trigger: enabled

Configure

Start Manual Execution

VALIDATE TEST PIPELINE

[anonymous]

2 minutes ago

Status: SUCCEEDED

Duration: 01:47

Find Image from Cluster

Deploy

STAGE DETAILS: FIND IMAGE FROM CLUSTER

Duration: 00:00

Step	Started	Duration	Status
Find Image from Cluster	2019-03-25 16:07:26 PDT	00:00	SUCCEEDED

Find Image Config

Task Status

Account

MY-OCI-ACCT

Regions

us-phoenix-1

Cluster

codelab-test

Results

Region

us-phoenix-1

Image ID

ocid1.image.oc1.phx.aaaaaaaayzoitfqpubhd4g6g72xmxgyl7jpmszmam5m4ebo4f5qwtkokaela

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Infrastructure

CLUSTERS

LOAD BALANCERS

FIREWALLS

SEARCH ?

ACCOUNT

my-oci-acct

REGION

us-phoenix-1

STACK

(none)

Prod

test

DETAIL

(none)

STATUS

Healthy

Unhealthy

Disabled

Starting

Edit multiple

Show

Instances

with details

Create Server Group

MY-OCI-ACCT

codelab-test

1 ▲ : 100%

US-PHOENIX-1

V002

1 ▲ : 100%

MY-OCI-ACCT

codelab-Prod

1 ▲ : 100%

US-PHOENIX-1

V000

1 ▲ : 100%

Oracle Cloud Infrastructure

[←](#)
[→](#)
[↺](#)
[🏠](#)
[https://console.us-phoenix-1.oraclecloud.com/a/compute/instances](#)

ORACLE Cloud

us-phoenix-1

🔔

?

👤

Compute

Instances

Instance Configurations

Instance Pools

Autoscaling Configurations

Custom Images

Boot Volumes

Boot Volume Backups

List Scope

COMPARTMENT

mickey

oracle-cloudnative (root)/mickey

Don't see what you're looking for?

?





Filters

[Terms of Use and Privacy](#)

Create Instance

Sort by: Created Date (Desc)

Displaying 6 Instances < Page 1 >

 <div> codelab-Prod-v000-0 OCID: ...gk2alq Show Copy RUNNING </div>	Shape: VM.Standard 2.1 Region: phx Availability Domain: PKGK:PHX-AD-2 Fault Domain: FAULT-DOMAIN-1	Created: Mon, 25 Mar 2019 23:07:28 GMT Maintenance Reboot: -
 <div> codelab-test-v002-0 OCID: ...jwmmwa Show Copy RUNNING </div>	Shape: VM.Standard 2.1 Region: phx Availability Domain: PKGK:PHX-AD-2 Fault Domain: FAULT-DOMAIN-1	Created: Mon, 25 Mar 2019 23:03:15 GMT Maintenance Reboot: -
 <div> codelab-test-v001-0 OCID: ...bdpvkq Show Copy TERMINATED </div>	Shape: VM.Standard 2.1 Region: phx Availability Domain: PKGK:PHX-AD-2 Fault Domain: FAULT-DOMAIN-1	Created: Mon, 25 Mar 2019 21:03:43 GMT Maintenance Reboot: -
 <div> codelab-test-v000-0 OCID: </div>	Shape: VM.Standard 2.1 Region: phx Availability Domain: PKGK:PHX-	Created: Mon, 25 Mar 2019 19:32:42 GMT

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Deploying to Oracle Container Engine for Kubernetes

Applications

localhost:9000/#/applications

SPINNAKERSearchProjectsApplications

Search

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Applications

Search applications

Actions

Create Application

Name	Created	Updated	Owner	Account(s)	Description
codelab	2019-03-22 14:41:03 PDT	-	mickey.boxell@oracle.com		Sample Spinnaker application
details	-	-		my-k8s-v2-acct	
elasticsearch	-	-		my-k8s-v2-acct	
fluentd	-	-		my-k8s-v2-acct	
grafana	-	-		my-k8s-v2-acct	
istio	-	-		my-k8s-v2-acct	
jaeger	-	-		my-k8s-v2-acct	
kiali	-	-		my-k8s-v2-acct	
kibana	-	-		my-k8s-v2-acct	
kube	-	-		my-k8s-v2-acct	
kubernetes	-	-		my-k8s-v2-acct	
linkerd	-	-		my-k8s-v2-acct	

«

<

1

2

>

»

javascript:void(0)

Applications

localhost:9000/#/applications

SPINNAKER Search Projects Applications Search What's New Help

Applications

Search applications

Name ▾	Created ▾
codelab	2019-03-22 14:41:03
details	-
elasticsearch	-
fluentd	-
grafana	-
istio	-
jaeger	-
kiali	-
kibana	-
kube	-
kubernetes	-
linkerd	-

« < 1 2 > »

New Application

Name * kubeapp

Owner Email * mickey.boxell@oracle.com

Repo Type Select Repo Type ▾

Description Kubernetes application

Cloud Providers

Instance Health

kubernetes order health when executing tasks ⓘ
oracle

☐ Show health override option for each operation ⓘ

Instance Port ⓘ 80

Pipeline Behavior ☐ Enable restarting running pipelines ⓘ

** Required*

Cancel Create

my-k8s-v2-acct

Oracle Cloud Infrastructure

+

← → ↻ 🏠

https://console.us-phoenix-1.oraclecloud.com/containers/clusters

☆ ☰ ⬆

ORACLE Cloud

us-phoenix-1

🔔 ? 👤

Clusters

Clusters

Registry

List Scope

COMPARTMENT

kube-1

oracle-cloudnative (root)/kube-1

Clusters *in kube-1* *Compartment*

⚠ Clusters Requirements:

NOTE: In order to use all features of this service, you must have the following minimum required privileges:

- List, Get, and Create VCNs
- List, Get, and Create Subnets
- List Availability Domains
- Create Internet Gateways
- Create NAT Gateways
- Update Route Tables
- Create Security Lists

Your tenancy must also have the following required policy statement defined in the *root compartment* of your tenancy [here](#) by a user with administrative privileges:

- allow service OKE to manage all-resources in tenancy

Without the above privileges and policies, various errors will be presented and the cluster service will not function correctly.

[Learn more here](#)

Create Cluster

Name	Status	Node Pools	VCN	Version	Created	
datageneration	✔ Active	1	oke-vcn-quick-datageneration-20190116182909	v1.11.5	1/16/2019	🗑

Showing 1 Item(s)

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Oracle Cloud Infrastructure

https://console.us-phoenix-1.oraclecloud.com/containers/clusters/ocid1.cluster.oc1.phx.aaaaaaaafswem3dg42daolcmi3tmy3bmuytczbtmm3dozlchczgiyrzgy2d

us-phoenix-1

Containers » Clusters » datageneration



ACTIVE

Access Kubeconfig

Delete Cluster

Upgrade Available

Cluster Details

Cluster Information

Cluster Status: Active

Node Pools: 1

Cluster Id: ...czgiyrzgy2d Show Copy

Compartment: oracle-cloudnative (root)/kube-1

Network Information

VCN Name: oke-vcn-quick-datageneration-20190116182909

VCN Id: ...65ih6tqa Show Copy

Compartment: oracle-cloudnative (root)/kube-1

Kubernetes Version: v1.11.5

Kubernetes Address: ...com:6443 Show Copy

Launched: Wed, 16 Jan 2019 18:29:31 GMT

Created By: mickey.boxell@oracle.com

Pods CIDR: 10.244.0.0/16

Services CIDR: 10.96.0.0/16

Service LB Subnet 1: ...9-PKGK:PHX-AD-1 Show Copy

Service LB Subnet 2: ...9-PKGK:PHX-AD-2 Show Copy

...oraclecloud.com/.../ocid1.vcn.oc1.phx.aaaaaaa3owkhxwhjzbm26ove5k7c7qle5...

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Resources

Node Pools

Work Requests

Getting Started

Node Pools

nodepool2

Details

Kubernetes Ver: v1.11.5

Shape: VM.Standard2.1

Node Pool Id: ...cojtm2t

Image Name: Oracle-Linux-7.5

Total Worker Nodes: 3

Show Copy

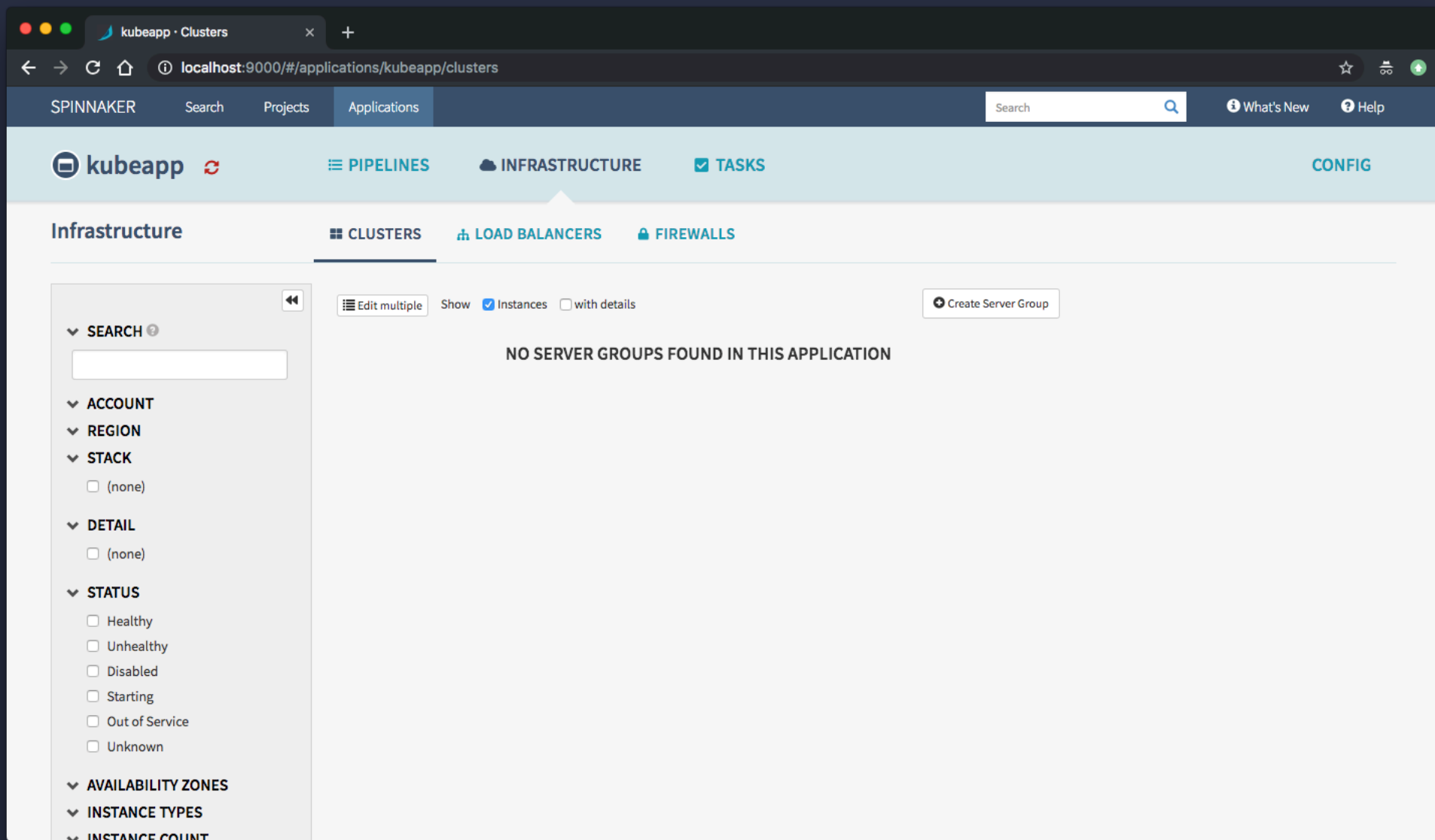
Nodes Per Subnet: 1

Number of Subnets: 3

Hide Node Details

Instance Name	Compute Node State	Subnet	Public IP	Kubernetes Ver
oke-czgiyrzgy2d-n4gcojtm2t-s7w7orhkbta-0	ACTIVE	oke-subnet-quick-datageneration-20190116182909-PKGK:PHX-AD-2	129.146.45.38	v1.11.5
oke-czgiyrzgy2d-n4gcojtm2t-srtu3vqce4a-0	ACTIVE	oke-subnet-quick-datageneration-20190116182909-PKGK:PHX-AD-3	129.146.73.206	v1.11.5
oke-czgiyrzgy2d-n4gcojtm2t-stdh5ah74kq-0	ACTIVE	oke-subnet-quick-datageneration-20190116182909-PKGK:PHX-AD-1	129.146.160.62	v1.11.5

Showing 3 Item(s)



Browser tabs: kubeapp · Clusters

Address bar: localhost:9000/#/applications/kubeapp/clusters

Navigation: SPINNAKER Search Projects Applications Search What's New Help

Left sidebar: kubeapp Infrastructure

- SEARCH
- ACCOUNT
- REGION
- STACK
 - (none)
- DETAIL
 - (none)
- STATUS
 - Healthy
 - Unhealthy
 - Disabled
 - Starting
 - Out of Service
 - Unknown
- AVAILABILITY ZONES
- INSTANCE TYPES
- INSTANCE COUNT

Right sidebar: CONFIG

Deploy Manifest

BASIC SETTINGS

MANIFEST

Basic Settings

Account my-k8s-v2-acct

Application kubeapp

Manifest

Cancel

Create

kubeapp · Clusters

localhost:9000/#/applications/kubeapp/clusters

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AVAILABILITY ZONES

INSTANCE TYPES

INSTANCE COUNT

Deploy Manifest

BASIC SETTINGS

MANIFEST

Basic Settings

Accountmy-k8s-v2-acct

Applicationkubeapp

Manifest

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: helloworld
  namespace: spinnaker
spec:
  selector:
    matchLabels:
      app: helloworld
  replicas: 1
  template:
    metadata:
      labels:
        app: helloworld
    spec:
      containers:
        - name: helloworld
          image: karthequian/helloworld:latest
          ports:
            - containerPort: 80
```

Cancel

Create

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STACK

DETAIL

STATUS

AVAILABILITY ZONES

INSTANCE TYPES

INSTANCE COUNT

Deploying your manifest

✓ Deploy Manifest (00:00)

✓ Monitor Deploy (00:05)

✓ Promote Outputs (00:00)

✓ Force Cache Refresh (00:10)

✓ Wait For Manifest To Stabilize (00:00)

✓ Cleanup Artifacts (00:00)

✓ Bind Produced Artifacts (00:00)

✓ Operation succeeded!

You can [monitor this task from the Tasks view.](#)

Close

```
4. ubuntu@spinnaker: /opt/rosco/config/packer (bash)
(* | context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
helloworld-6558d5ddcb-qwv76        1/1     Running   0          1m
(* | context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$
```


kubeapp · Load Balancers

localhost:9000/#/applications/kubeapp/loadBalancers

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ACCOUNT

REGION

STACK

DETAIL

INSTANCE STATUS

AVAILABILITY ZONES

CONFIG

Deploy Manifest

BASIC SETTINGS

MANIFEST

Basic Settings

Accountmy-k8s-v2-acct

Applicationkubeapp

Manifest

```
apiVersion: v1
kind: Service
metadata:
  name: helloworld
  namespace: spinnaker
spec:
  type: NodePort
  selector:
    app: helloworld
  ports:
    - name: client
      protocol: TCP
      port: 80
      nodePort: 32080
```

Cancel

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Deploying your manifest

✓ Deploy Manifest (00:00)

✓ Monitor Deploy (00:05)

✓ Promote Outputs (00:00)

✓ Force Cache Refresh (00:20)

✓ Wait For Manifest To Stabilize (00:00)

✓ Cleanup Artifacts (00:00)

✓ Bind Produced Artifacts (00:00)

✓ Operation succeeded!

You can [monitor this task from the Tasks view.](#)

Close

```
4. ubuntu@spinnaker: /opt/rosco/config/packer (bash)
(* |context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
helloworld-6558d5ddcb-qwv76        1/1     Running   0           1m
(* |context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$ kubectl get services
NAME          TYPE        CLUSTER-IP    EXTERNAL-IP  PORT(S)          AGE
helloworld    NodePort    10.96.15.33    <none>       80:32080/TCP     32s
(* |context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$
```

kubeapp · Clusters · Server Gr...

←→↻🏠📍localhost:9000/#/applications/kubeapp/clusters/serverGroupManagerDetails/kubernetes/my-k8s-v2-acct/spinnaker/deployment%20helloworld

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☐ spinnaker

STACK

☐ (none)

DETAIL

☐ (none)

STATUS

☐ Healthy

☐ Unhealthy

☐ Disabled

☐ Starting

☐ Out of Service

☐ Unknown

Edit multiple

Show

☒ Instances

☐ with details

Create Server Group

MY-K8S-V2-ACCT

deployment helloworld

1▲:100%

SPINNAKER

deployment helloworld

1▲:100%

V001: karthequian/helloworld:latest

1▲:100%

helloworld

Deployment Actions

INFORMATION

Created

2019-03-25 14:37:22 PDT

Account

MY-K8S-V2-ACCT

Namespace

spinnaker

Kind

deployment

Managing

replicaSet helloworld-6558d5ddcb

STATUS

Available 3 minutes ago

Deployment has minimum availability.

Progressing 3 minutes ago

ReplicaSet "helloworld-6558d5ddcb" has successfully progressed.

EVENTS

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localhost:9000/#/applications/kubeapp/clusters/serverGroupManagerDetails/kubernetes/my-k8s-v2-acct/spinnaker/deployment%20helloworld

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Scale Deployment helloworld in spinnaker

Replicas

Reason

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- my-k8s-v2-acct

REGION

- spinnaker

STACK

- (none)

DETAIL

- (none)

STATUS

- Healthy
- Unhealthy
- Disabled
- Starting
- Out of Service
- Unknown

MY-K8S-V2

SPINNAKER

deployment helloworld 1 ▲: 100%

V001: karthequian/helloworld:latest 1 ▲: 100%

helloworld

Deployment Actions

INFORMATION

Created 2019-03-25 14:37:22 PDT

Account MY-K8S-V2-ACCT

Namespace spinnaker

Kind deployment

Managing replicaSet helloworld-6558d5ddcb

STATUS

- Available 3 minutes ago
Deployment has minimum availability.
- Progressing 3 minutes ago
ReplicaSet "helloworld-6558d5ddcb" has successfully progressed.

EVENTS

kubeapp · Clusters · Server Grp

localhost:9000/#/applications/kubeapp/clusters/serverGroupManagerDetails/kubernetes/my-k8s-v2-acct/spinnaker/deployment%20helloworld

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MY-K8S-V2

SPINNAKER

deploy

V001:

helloworld

Deployment Actions

INFORMATION

STATUS

EVENTS

Scaling deployment helloworld in spinnaker

✓ Resolve Dynamic Manifest (00:00)

✓ Scale Manifest (00:00)

✓ Monitor Scale (00:05)

✓ Force Cache Refresh (00:10)

✓ Wait For Manifest To Stabilize (00:25)

✓ Operation succeeded!

You can [monitor this task from the Tasks view](#).

Close

```
4. ubuntu@spinnaker: /opt/rosco/config/packer (bash)
(* | context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$ kubectl get pods
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NAME      TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)          AGE
helloworld  NodePort    10.96.15.33   <none>        80:32080/TCP     32s
(* | context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
helloworld-6558d5ddcb-qwv76        1/1     Running   0           4m
helloworld-6558d5ddcb-w5hfn        1/1     Running   0           52s
(* | context-czgiyrzgy2d:spinnaker)mboxell-mac:~ mboxell$
```

kubeapp · Clusters · Server Gr... x

129.146.160.62:32080 x +

← → ↻ 🏠 ⓘ Not Secure | 129.146.160.62:32080

☆ ☰ ⬆

Docker Helloworld

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Hello

Is it me you're looking for?

2019 Karthik Gaekwad, Visits: 2, 3:05:14 PM

Container ID: helloworld-6558d5ddcb-qwv76

Key Takeaways



Spinnaker can be deployed onto Oracle Cloud in two ways:

1. Local installation using the Oracle Provider
2. Distributed installation using the Kubernetes Provider

Thank you!



And special thanks to Armory for hosting this webinar!

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