

This document illustrates setup activities on Spinnaker, to illustrate deployment of sample 'nodejs' application to Kubernetes. The codebase for this application is available at [jaig1/docker-demo](#) in github. The automated image build is available at [jaig/spinnaker-node-demo](#) is available at Dockerhub

1. Create New Application for Nodejs app

New Application

Name *
Application name must be unique.

Owner Email *

Repo Type

Description

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

2. Setup the Load Balancer for 'nodejs' app

Create New Load Balancer

BASIC SETTINGS

Basic Settings

Your load balancer will be named: nodejs-dev

Account

Namespace

Stack

Detail

Ports

Configure the port

Create New Load Balancer

BASIC SETTINGS

PORTS

ADVANCED SETTINGS

Basic Settings

Ports

Name

http

Remove Port

Port

80

Target Port

3000

Node Port

Protocol

TCP

Add New Port

Advanced Settings

Cluster IP

Load Balancer IP

Type

ClusterIP

Cancel

Create

Select the 'Load Balancer' option

Create New Load Balancer

BASIC SETTINGS

PORTS

ADVANCED SETTINGS

Advanced Settings

Cluster IP

Load Balancer IP

Type

LoadBalancer

Session Affinity

None

External IPs

Add New External IP

Service Annotations

Add Annotations

Service Labels

Add Label

Cancel

Create

3. Create the server group for 'nodejs' app

Create New Server Group

BASIC SETTINGS

DEPLOYMENT

LOAD BALANCERS

REPLICAS

VOLUME SOURCES

ADVANCED SETTINGS

CONTAINER

Basic Settings

Account

spinnaker-service-account

Namespace

default

Stack

dev

Detail

Containers

index.docker.io/jaig/spinnaker-node-demo:latest

select...

Init Containers

Select...

Your server group will be in the cluster:
nodejs-dev (new cluster)

Cancel

Create

Select the LoadBalancer

Create New Server Group

BASIC SETTINGS

DEPLOYMENT

LOAD BALANCERS

REPLICAS

VOLUME SOURCES

ADVANCED SETTINGS

CONTAINER

Deployment

Load Balancers

Load Balancers

nodejs-dev

select...

Load balancers last refreshed -

If you're not finding a load balancer that was recently added, [click here](#) to refresh the list.

Replicas

Autoscaling

Cancel

Create

Set the container port value

Create New Server Group

BASIC SETTINGS

DEPLOYMENT

LOAD BALANCERS

REPLICAS

VOLUME SOURCES

ADVANCED SETTINGS

CONTAINER

Container

Pull Policy

IFNOTPRESENT

> Basic Settings

> Resources

> Ports

Name

http

Remove Port

Container Port

3000

Host IP

Host Port

Protocol

TCP

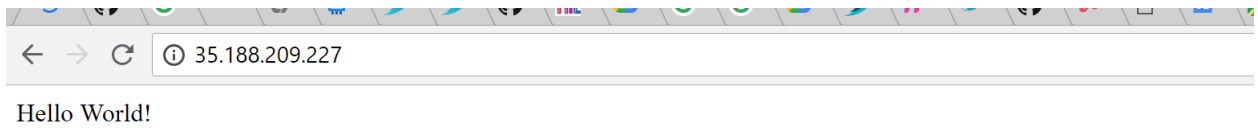
Add New Port

> Volume Mounts

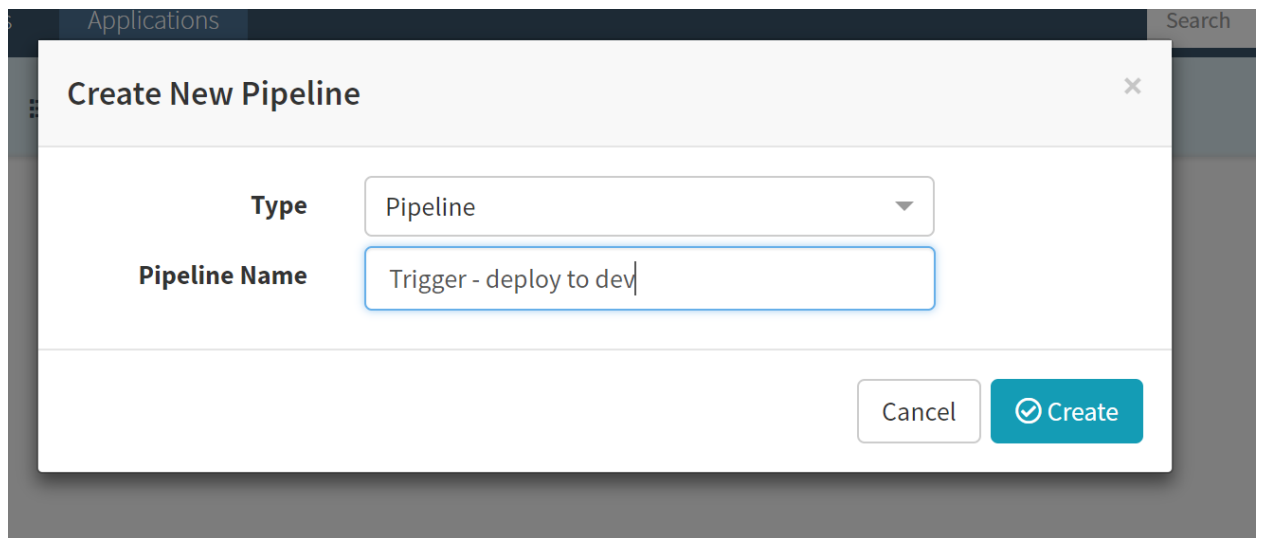
Cancel

Create

Confirm the deployment



4. Create the pipeline for 'nodejs' app



Trigger - deploy to dev
Permalink
+
⚙️
Pipeline Actions

Configuration

Add stage
Copy an existing stage

CONCURRENT EXECUTIONS

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.

Automated Triggers

You don't have any triggers configured for Trigger - deploy to dev.

Add Stage for deploying new image of nodejs, from Docker hub

Trigger - deploy to dev
Permalink
+
⚙️
Pipeline Actions

Configuration
Deploy

Add stage
Copy an existing stage

Deploy
Stage type: Deploy
Deploys the previously baked or found image

Type
Deploy
Stage Name
Deploy
Depends On
Select...
Remove stage
Edit stage as JSON

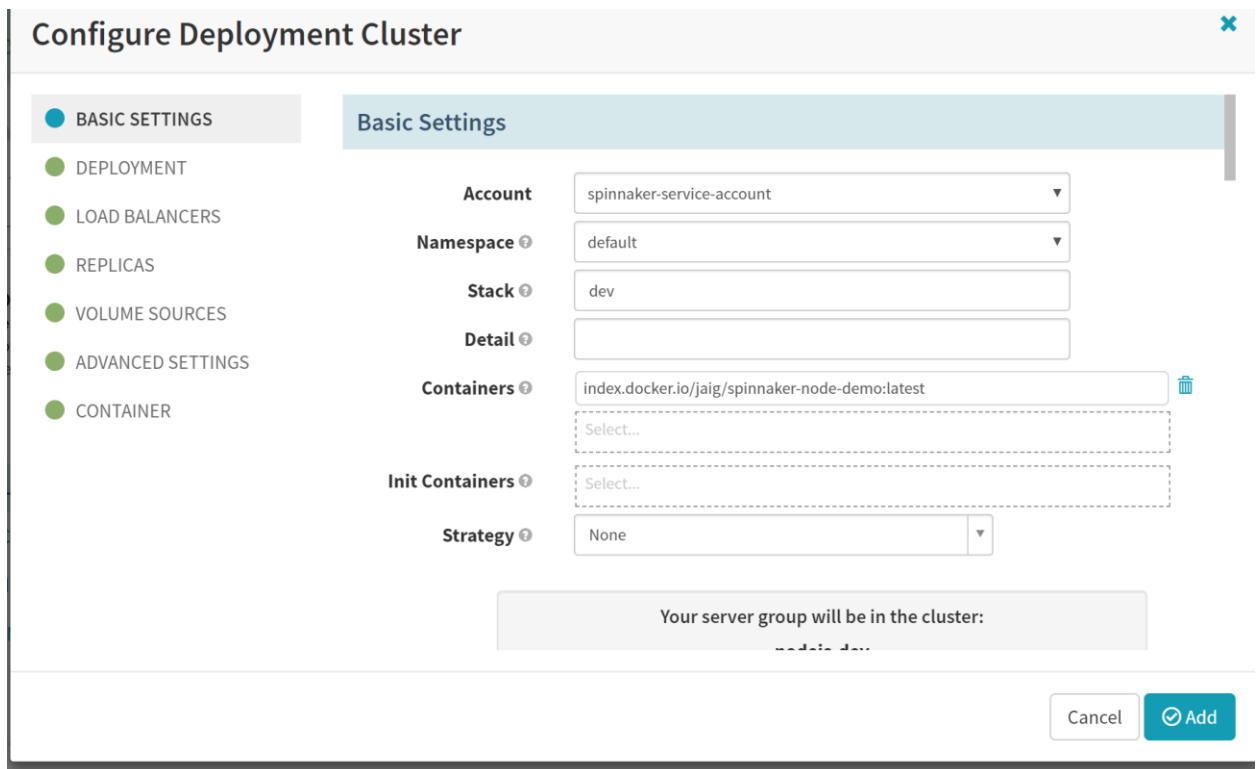
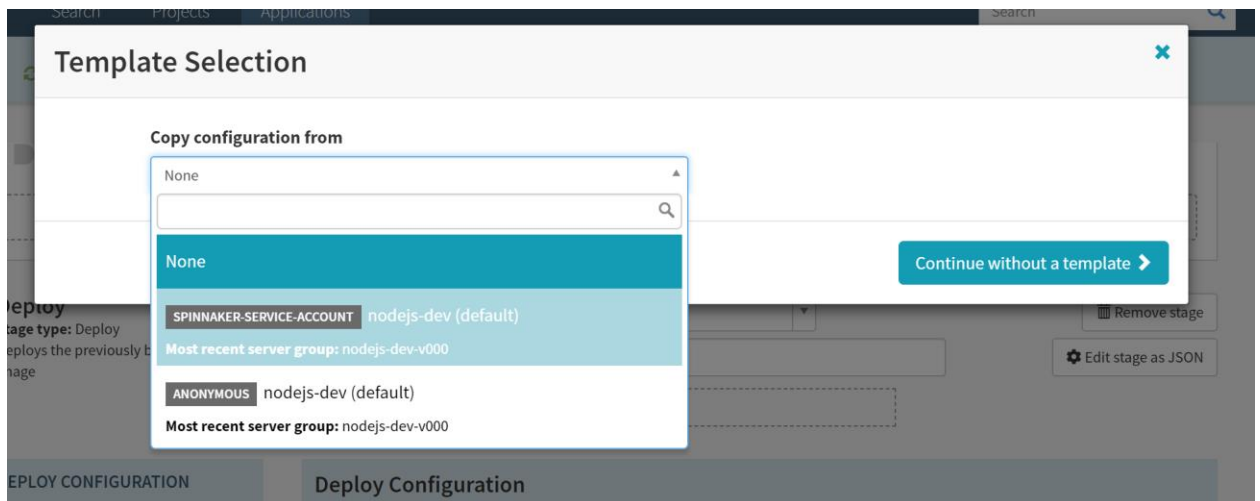
DEPLOY CONFIGURATION

EXECUTION OPTIONS
NOTIFICATIONS

Deploy Configuration

Account	Cluster	Region	Strategy	Capacity	Actions

Add server group



Confirm addition of 'deploy' stage

Trigger - deploy to dev

Permalink

Pipeline Actions

Configuration

Deploy

Add stage

Copy an existing stage

Deploy

Stage type: Deploy

Deploys the previously baked or found image

Type

Deploy

Stage Name

Deploy

Depends On

Select...

Remove stage

Edit stage as JSON

Add destroy 'server-group' as the next step in the pipeline

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

spinnaker-service-account

Namespaces

☒ default

Cluster

nodejs-dev

Toggle for text input

Target

Previous Server Group

Confirm the pipeline setup...through an manual execution

PIPELINES

INFRASTRUCTURE

TASKS

CONFIG

+ -

Group by Pipeline

Show 2 executions per pipeline

☐ stage durations

SPINNAKER-SERVICE-ACCOUNT

Trigger - deploy to dev

Configure

Start Manual Execution

No executions found matching the selected filters.

Make changes to nodejs app source repository jaig1/docker-demo

```
git clone https://github.com/jaig1/docker-demo.git
cd docker-demo
git branch
git branch -b v2.0.1
git checkout -b v2.0.1
git pull
vi index.js
git add .
git commit -m "chuma"
git commit -am "chuma"
git config --global user.email "njganeshev@gmail.com"
git config --global user.name "jaig1"
git commit -m "chuma"
git push --set-upstream origin v2.0.1
```