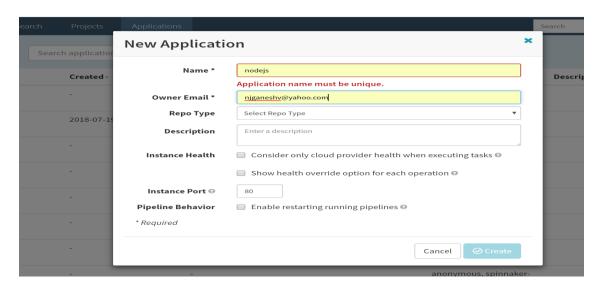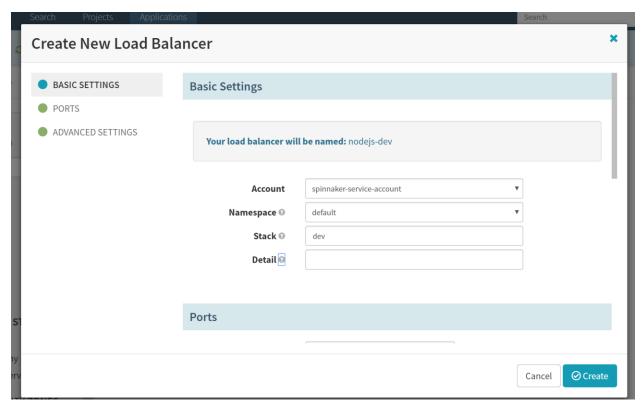This document illustrates setup activities on Spinnaker, to illustrate deployment of sample 'nodejs' application to Kubernetes. The codebase for this application is available at jaig1/docker-demo in github. The automated image build is available at jaig/spinnaker-node-demo is available at Dockerhub
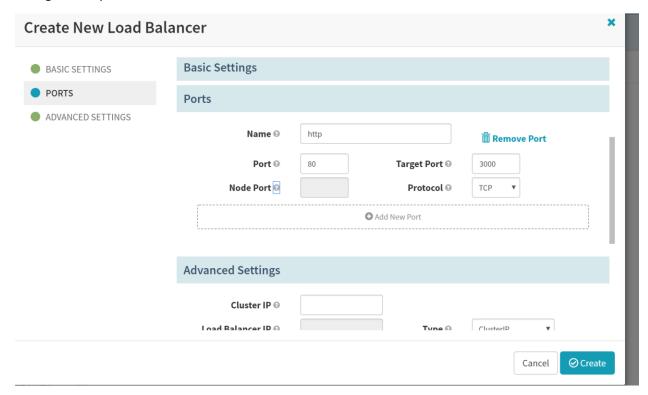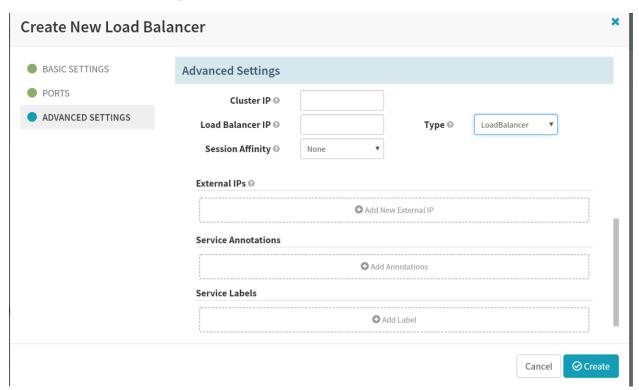
1. Create New Application for Nodejs app
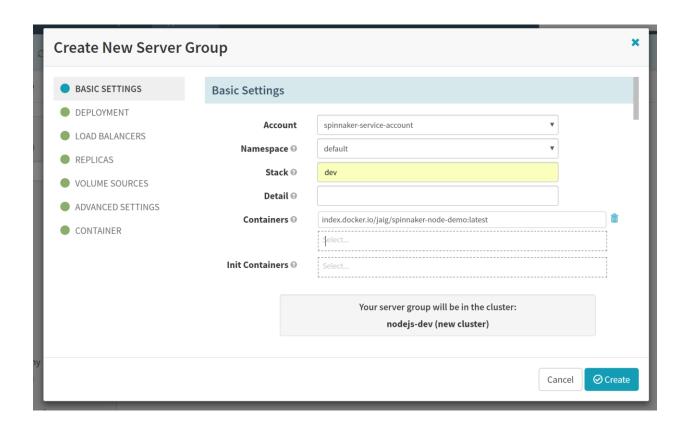

2. Setup the Load Balancer for 'nodejs' app
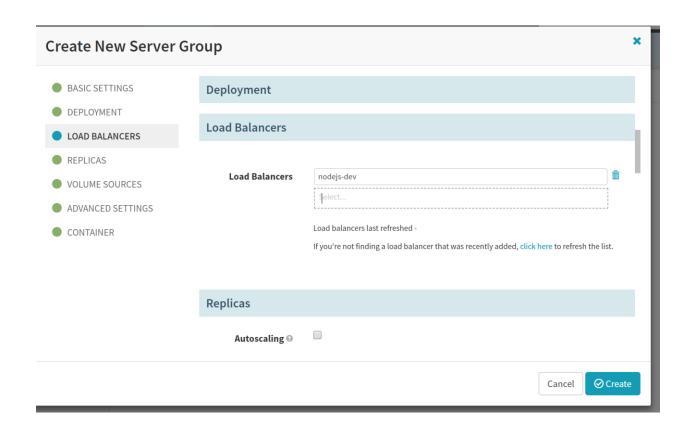
Configure the port

Select the 'Load Balancer' option

3. Create the server group for 'nodejs' app

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

← → C ⓘ 35.188.209.227

Hello World!

4. Create the pipeline for 'nodejs' app

SPINNAKER   Search   Projects   Applications

⬚ nodejs ⟳   ☰ PIPELINES   ☁ INFRASTRUCTURE   ☑ TASKS

No pipelines configured for this application.
Configure a new pipeline

Applications   Search

Create New Pipeline   ✕

Type   Pipeline ▾

Pipeline Name   Trigger - deploy to dev

Cancel   ⊘ Create

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

Add server group

Template Selection ✖

Copy configuration from

None	▲
	🔍

None
SPINNAKER-SERVICE-ACCOUNT nodejs-dev (default)
Most recent server group: nodejs-dev-v000
ANONYMOUS nodejs-dev (default)
Most recent server group: nodejs-dev-v000

Continue without a template ❯

Deploy
tage type: Deploy
eploys the previously b
nage

🗑 Remove stage

⚙ Edit stage as JSON

EPLOY CONFIGURATION   **Deploy Configuration**

Configure Deployment Cluster ✖

🔵 **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...
Strategy ⓘ	None ▾

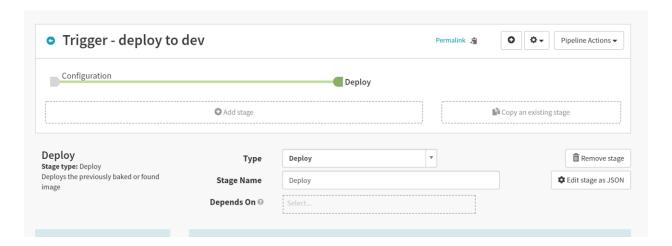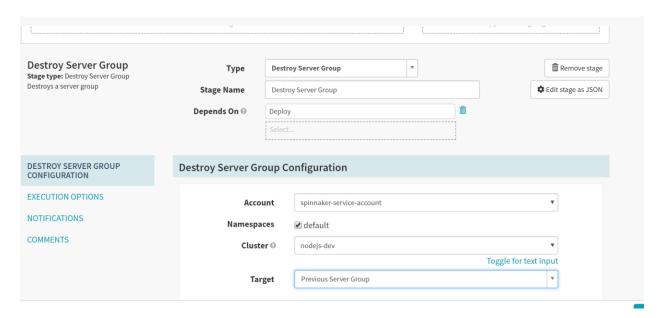Your server group will be in the cluster:
nodejs-dev

Cancel   ⊘ Add

Confirm addition of 'deploy' stage

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

Confirm the pipeline setup…through an manual execution

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 "njganeshv@gmail.com"
git config --global user.name "jaig1"
git commit -m "chuma"
git push --set-upstream origin v2.0.1