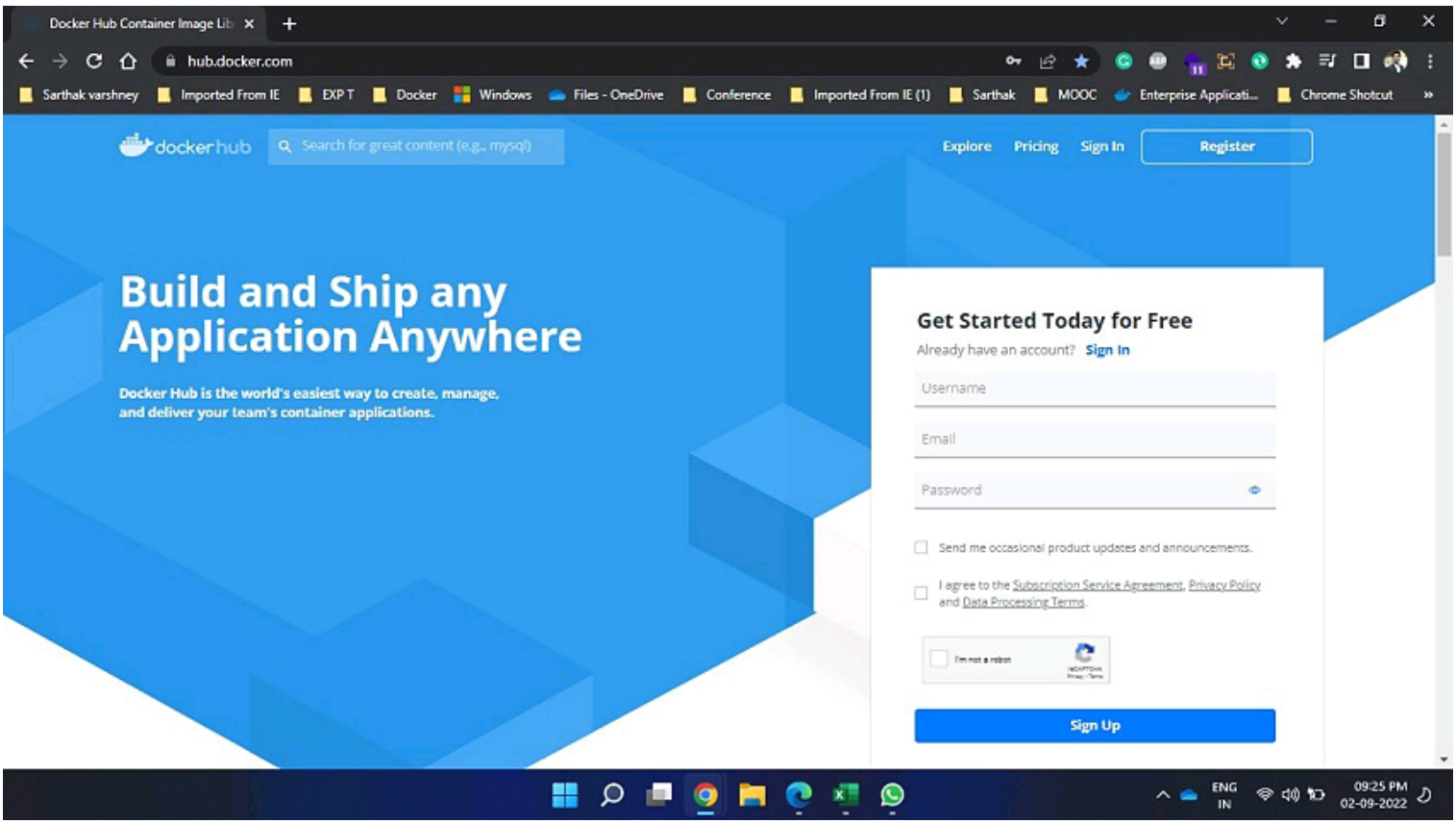
Docker Hub Container Image Lib
hub.docker.com
Sarthak varshney
Imported From IE
EXP T
Docker
Windows
Files - OneDrive
Conference
Imported From IE (1)
Sarthak
MOOC
Enterprise Applicati...
Chrome Shotcut
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Docker Hub is the world's easiest way to create, manage, and deliver your team's container applications.
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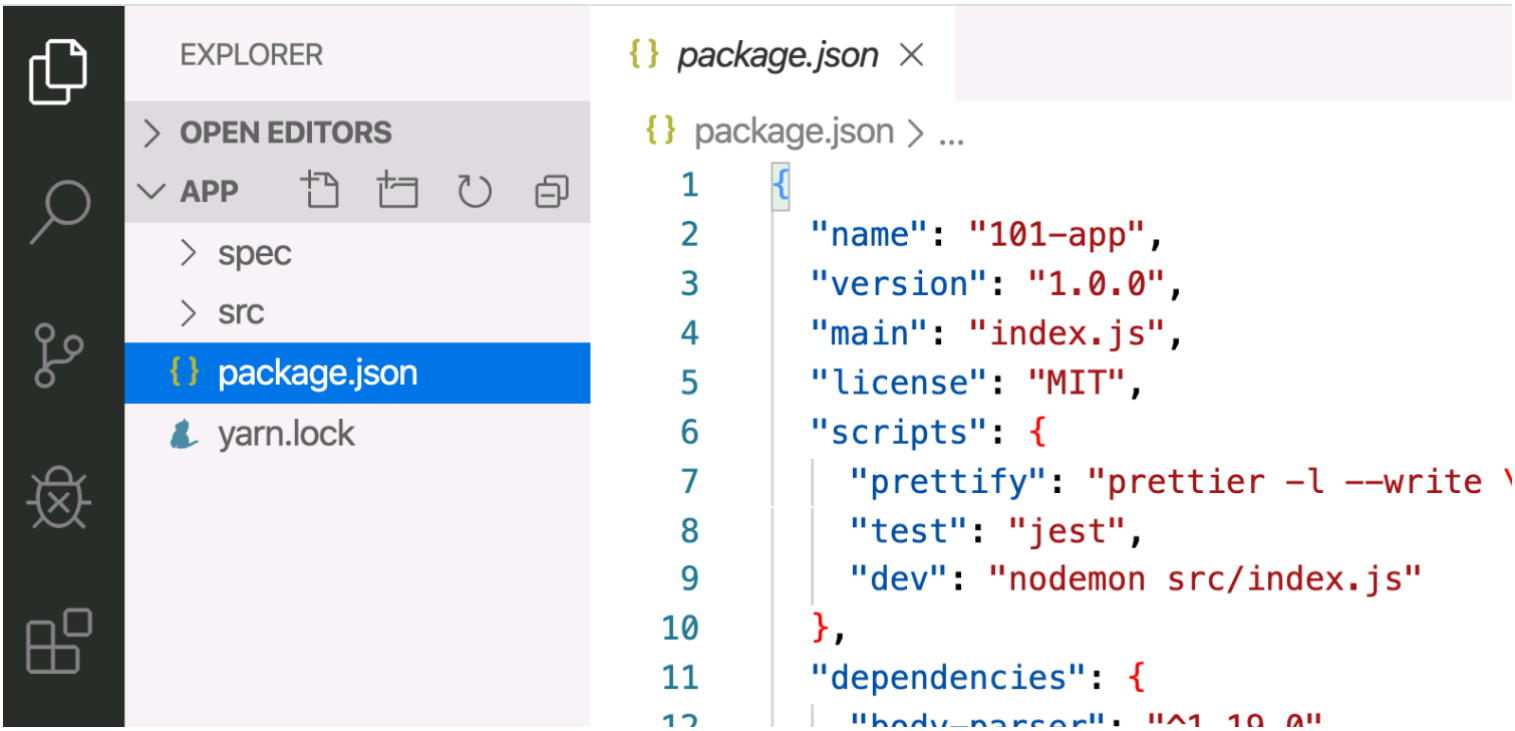
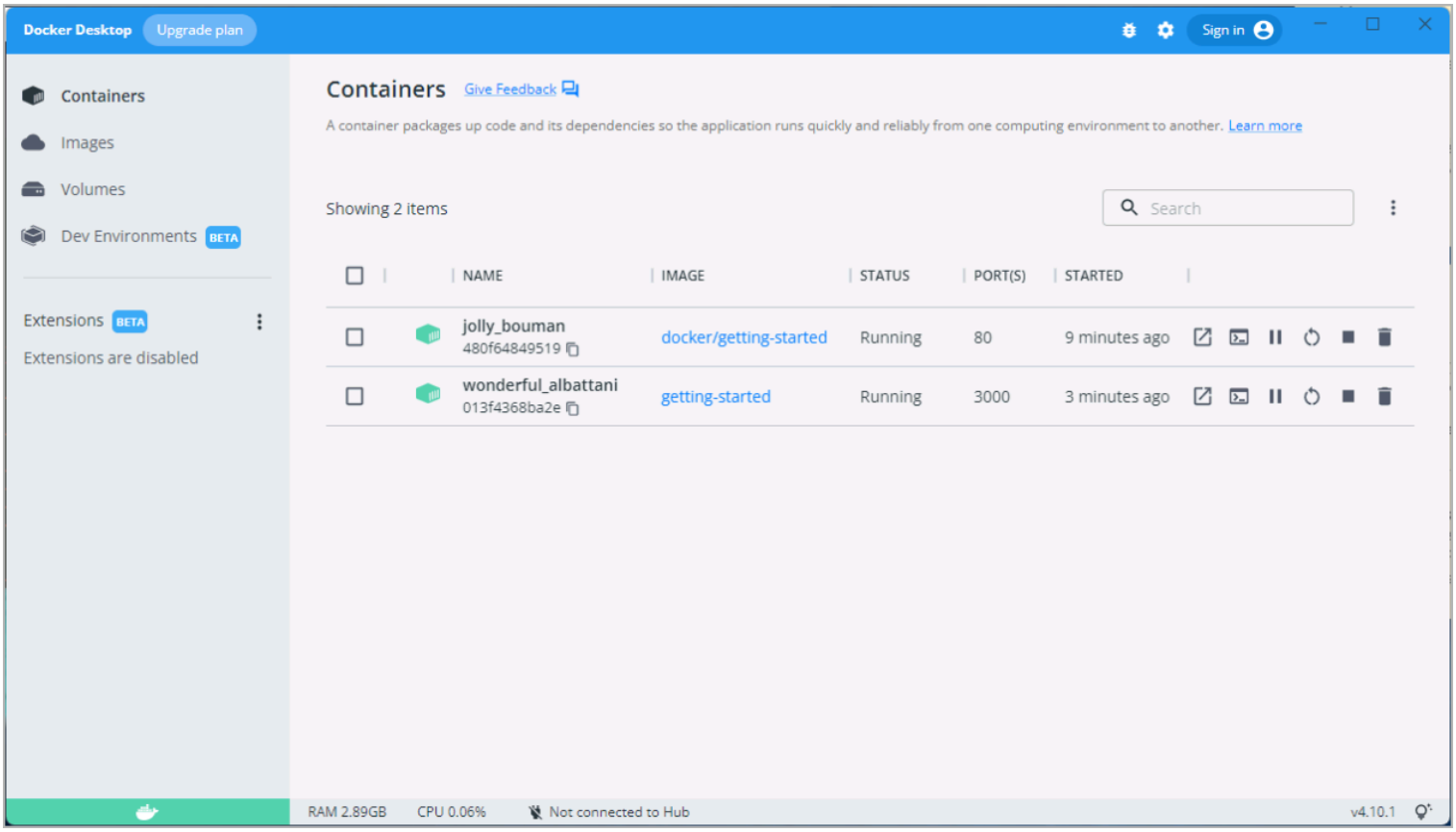
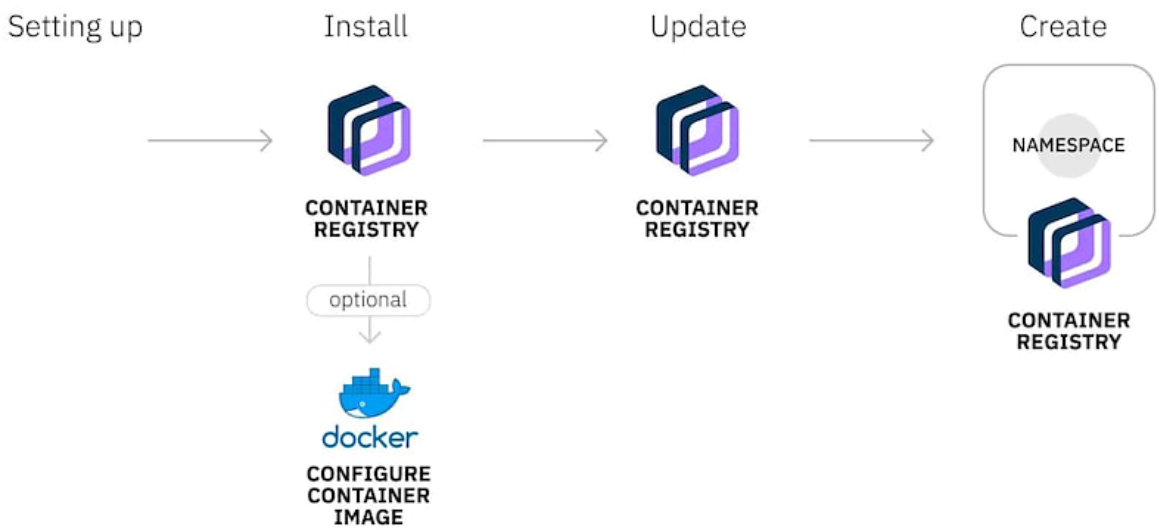
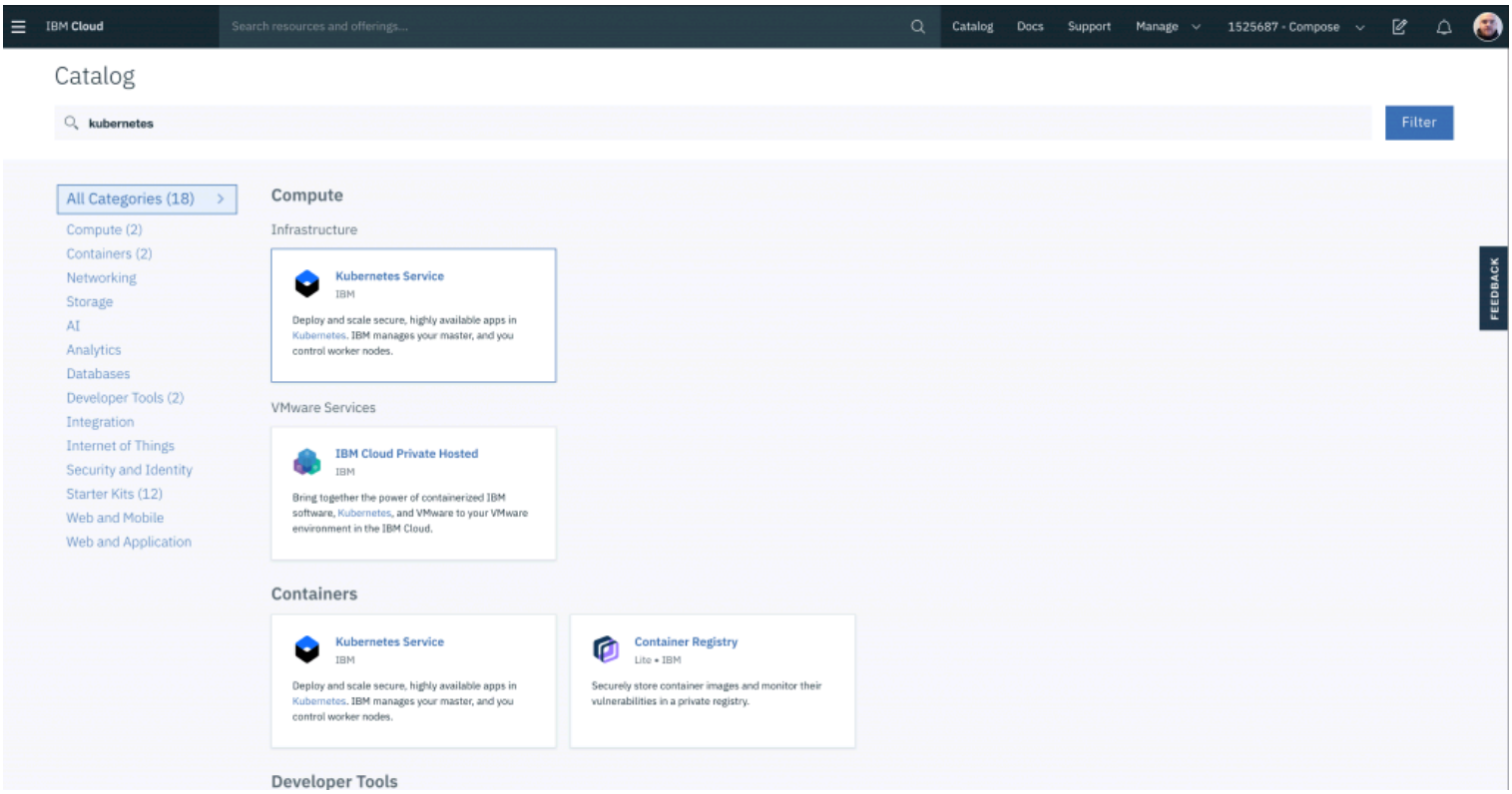
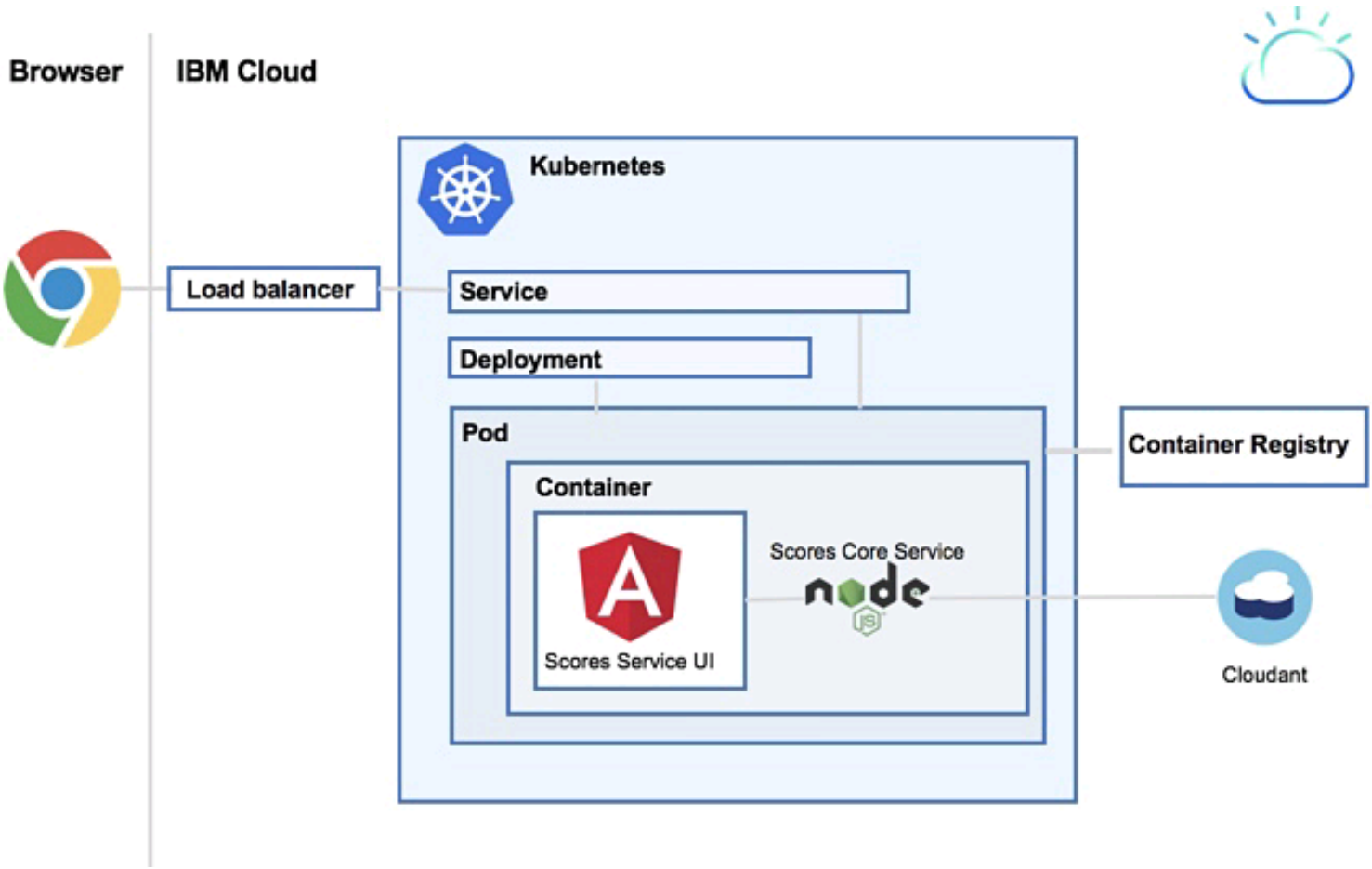
ENG
IN
09:25 PM
02-09-2022


EXPLORER
OPEN EDITORS
APP
spec
src
package.json
yarn.lock
package.json
package.json > ...
{
"name": "101-app",
"version": "1.0.0",
"main": "index.js",
"license": "MIT",
"scripts": {
"prettify": "prettier -l --write
"test": "jest",
"dev": "nodemon src/index.js"
},
"dependencies": {


Docker Desktop
Upgrade plan
Sign in
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Extensions are disabled
Containers
Give Feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Showing 2 items
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
jolly_bouman
480f64849519
docker/getting-started
Running
80
9 minutes ago
wonderful_albattani
013f4368ba2e
getting-started
Running
3000
3 minutes ago
RAM 2.89GB
CPU 0.06%
Not connected to Hub
v4.10.1


Setting up
Install
Update
Create
CONTAINER REGISTRY
optional
docker
CONFIGURE CONTAINER IMAGE
CONTAINER REGISTRY
NAMESPACE
CONTAINER REGISTRY


IBM Cloud
Search resources and offerings...
Catalog
Docs
Support
Manage
1525687 - Compose
Catalog
kubernetes
Filter
All Categories (18)
Compute (2)
Containers (2)
Networking
Storage
AI
Analytics
Databases
Developer Tools (2)
Integration
Internet of Things
Security and Identity
Starter Kits (12)
Web and Mobile
Web and Application
Compute
Infrastructure
Kubernetes Service
IBM
Deploy and scale secure, highly available apps in Kubernetes. IBM manages your master, and you control worker nodes.
VMware Services
IBM Cloud Private Hosted
IBM
Bring together the power of containerized IBM software, Kubernetes, and VMware to your VMware environment in the IBM Cloud.
Containers
Kubernetes Service
IBM
Deploy and scale secure, highly available apps in Kubernetes. IBM manages your master, and you control worker nodes.
Container Registry
Lite • IBM
Securely store container images and monitor their vulnerabilities in a private registry.
Developer Tools
FEEDBACK


Browser
IBM Cloud
Kubernetes
Load balancer
Service
Deployment
Pod
Container
Scores Service UI
Scores Core Service
Container Registry
Cloudant

Creating an IBM Cloud Kubernetes cluster

Run with the following command to create a cluster:

Replace the `workers` parameter above with the desired number of worker nodes.

If you're starting in a fresh account with no public and private VLANs, they are created automatically for you when creating a Kubernetes cluster with worker nodes provider `classic` for the first time. If you already have VLANs configured in your account, retrieve them via `ibmcloud ks vlans --zone ${CLUSTER_ZONE}` and include the public and private VLAN ids (set in the `PUBLIC_VLAN_ID` and `PRIVATE_VLAN_ID` environment variables) in the command.

```
ibmcloud ks cluster create ${WORKER_N
  --name=$CLUSTER_NAME \
  --zone=$CLUSTER_ZONE \
  --version=${KUBERNETES_VERSION} \
  --flavor ${WORKER_NODE_FLAVOR} \
  --workers=2 \
  --private-vlan ${PRIVATE_VLAN_ID} \
  --public-vlan ${PUBLIC_VLAN_ID}
```

Wait until the cluster is deployed and configured. It can take a while for the cluster to be ready. Run with following command to periodically check the state of your cluster. Your cluster is ready when the state is `normal`.

```
ibmcloud ks clusters --provider ${WOR
```

Verifying the cluster

To use the created cluster, switch the Kubernetes context to point to the cluster with the command

```
ibmcloud ks cluster config --cluster
```

Make sure all worker nodes are up with the command below

```
kubectl get nodes
```

and make sure all the nodes are in `Ready` state.

Delete the cluster

Delete the cluster including it’s storage:

```
ibmcloud ks cluster rm --force-delete
```

```
docker build -t tutum/hello-world .
```

You can now push your new image to the registry:

```
sudo docker push tutum/hello-world
```

Running your Hello World docker image

Start your image:

```
sudo docker run -d -p 80 tutum/hello-worlc
```

It will print the new container ID (like `d35bf1374e88`). Get the allocated external port:

```
sudo docker port d35bf1374e88 80
```

It will print the allocated port (like 4751). Test your deployment:

```
curl http://localhost:4751/
```

Hello world!