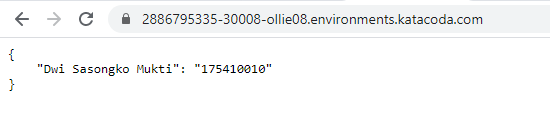
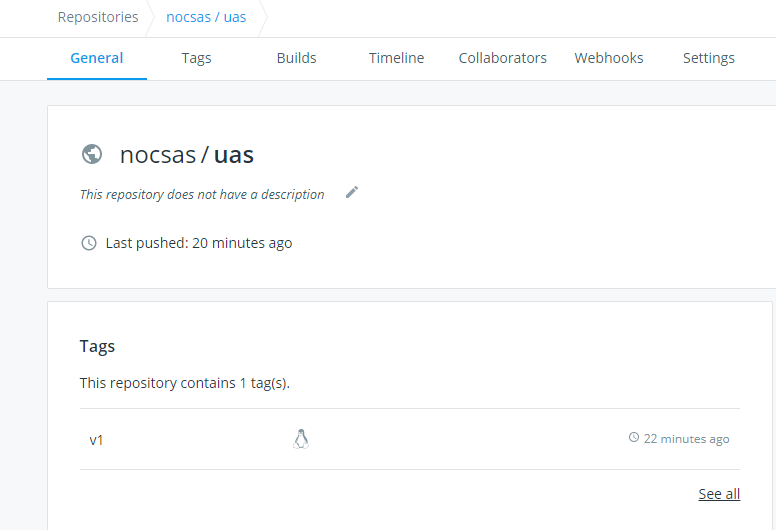


<https://2886795335-30008-ollie08.environments.katacoda.com/>





<https://hub.docker.com/repository/docker/nocsas/uas>

Your Interactive Learning Environment Bash Terminal

start.sh

$

$ start.sh

Starting Kubernetes...minikube version: v1.6.2

commit: 54f28ac5d3a815d1196cd5d57d707439ee4bb392

\* minikube v1.6.2 on Ubuntu 18.04

\* Selecting 'none' driver from user configuration (alternates: [])

\* Running on localhost (CPUs=2, Memory=2461MB, Disk=47990MB) ...

\* OS release is Ubuntu 18.04.3 LTS

\* Preparing Kubernetes v1.17.0 on Docker '18.09.7' ...

- kubelet.resolv-conf=/run/systemd/resolve/resolv.conf

\* Pulling images ...

\* Launching Kubernetes ...

\* Configuring local host environment ...

\* Done! kubectl is now configured to use "minikube"

\* dashboard was successfully enabled

Kubernetes Started

$ mkdir sas

$ cd sas/

$ nano app.py

$ nano requirements.txt

$ nano Dockerfile

$ docker build -t nocsas/sasUAS:v1 .

invalid argument "nocsas/sasUAS:v1" for "-t, --tag" flag: invalid reference format: repository name must be lowercase

See 'docker build --help'.

$ docker build -t nocsas/uas:v1 .

Sending build context to Docker daemon 4.096kB

Step 1/6 : FROM python:2.7

2.7: Pulling from library/python

8f0fdd3eaac0: Pull complete

d918eaefd9de: Pull complete

43bf3e3107f5: Pull complete

27622921edb2: Pull complete

dcfa0aa1ae2c: Pull complete

ef6ca6913068: Pull complete

a755ea00feee: Pull complete

74b6f9ff9fd6: Pull complete

bebb4b693476: Pull complete

Digest: sha256:9517f5314968111658d229ed3038630a174e7a4f1b852bd185b70f614dffba08

Status: Downloaded newer image for python:2.7

---> 426ba9523d99

Step 2/6 : COPY . /app

---> 7fca109a4fdc

Step 3/6 : WORKDIR /app

---> Running in 4efe58080279

Removing intermediate container 4efe58080279

---> 18ac5432f380

Step 4/6 : RUN pip install -r requirements.txt

---> Running in d8bc4a32afa2

DEPRECATION: Python 2.7 will reach the end of its life on January 1st, 2020. Please upgrade your Python as Python 2.7 won't be maintained after that date. A future version of pip will drop support for Python 2.7. More details about Python 2 support in pip, can be found at https://pip.pypa.io/en/latest/development/release-process/#python-2-support

Collecting flask

Downloading https://files.pythonhosted.org/packages/9b/93/628509b8d5dc749656a9641f4caf13540e2cdec85276964ff8f43bbb1d3b/Flask-1.1.1-py2.py3-none-any.whl (94kB)

Collecting flask\_restful

Downloading https://files.pythonhosted.org/packages/17/44/6e490150ee443ca81d5f88b61bb4bbb133d44d75b0b716ebe92489508da4/Flask\_RESTful-0.3.7-py2.py3-none-any.whl

Collecting click>=5.1

Downloading https://files.pythonhosted.org/packages/fa/37/45185cb5abbc30d7257104c434fe0b07e5a195a6847506c074527aa599ec/Click-7.0-py2.py3-none-any.whl (81kB)

Collecting Jinja2>=2.10.1

Downloading https://files.pythonhosted.org/packages/65/e0/eb35e762802015cab1ccee04e8a277b03f1d8e53da3ec3106882ec42558b/Jinja2-2.10.3-py2.py3-none-any.whl (125kB)

Collecting itsdangerous>=0.24

Downloading https://files.pythonhosted.org/packages/76/ae/44b03b253d6fade317f32c24d100b3b35c2239807046a4c953c7b89fa49e/itsdangerous-1.1.0-py2.py3-none-any.whl

Collecting Werkzeug>=0.15

Downloading https://files.pythonhosted.org/packages/ce/42/3aeda98f96e85fd26180534d36570e4d18108d62ae36f87694b476b83d6f/Werkzeug-0.16.0-py2.py3-none-any.whl (327kB)

Collecting aniso8601>=0.82

Downloading https://files.pythonhosted.org/packages/eb/e4/787e104b58eadc1a710738d4e418d7e599e4e778e52cb8e5d5ef6ddd5833/aniso8601-8.0.0-py2.py3-none-any.whl (43kB)

Collecting pytz

Downloading https://files.pythonhosted.org/packages/e7/f9/f0b53f88060247251bf481fa6ea62cd0d25bf1b11a87888e53ce5b7c8ad2/pytz-2019.3-py2.py3-none-any.whl (509kB)

Collecting six>=1.3.0

Downloading https://files.pythonhosted.org/packages/65/26/32b8464df2a97e6dd1b656ed26b2c194606c16fe163c695a992b36c11cdf/six-1.13.0-py2.py3-none-any.whl

Collecting MarkupSafe>=0.23

Downloading https://files.pythonhosted.org/packages/fb/40/f3adb7cf24a8012813c5edb20329eb22d5d8e2a0ecf73d21d6b85865da11/MarkupSafe-1.1.1-cp27-cp27mu-manylinux1\_x86\_64.whl

Installing collected packages: click, MarkupSafe, Jinja2, itsdangerous, Werkzeug, flask, aniso8601, pytz, six, flask-restful

Successfully installed Jinja2-2.10.3 MarkupSafe-1.1.1 Werkzeug-0.16.0 aniso8601-8.0.0 click-7.0 flask-1.1.1 flask-restful-0.3.7 itsdangerous-1.1.0 pytz-2019.3 six-1.13.0

Removing intermediate container d8bc4a32afa2

---> afe0633be996

Step 5/6 : ENTRYPOINT ["python"]

---> Running in 7b47ab05caf0

Removing intermediate container 7b47ab05caf0

---> 9fb8275a2d94

Step 6/6 : CMD ["app.py"]

---> Running in a48360887cbf

Removing intermediate container a48360887cbf

---> fdd246616a01

Successfully built fdd246616a01

Successfully tagged nocsas/uas:v1

$ kubectl create deployment python-flask --image=^C

The Deployment "python-flask" is invalid: spec.template.spec.containers[0].name: Invalid value: "^C": a DNS-1123 label must consist of lower case alphanumeric characters or '-', and must start and end with an alphanumeric character (e.g. 'my-name', or '123-abc', regex used for validation is '[a-z0-9]([-a-z0-9]\*[a-z0-9])?')

$ docker login

Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.

Username: nocsas

Password:

WARNING! Your password will be stored unencrypted in /root/.docker/config.json.

Configure a credential helper to remove this warning. See

https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded

$ docker push nocsas/uas:v1

The push refers to repository [docker.io/nocsas/uas]

028b2689efbc: Preparing

138dc80e949e: Preparing

028b2689efbc: Pushed

03a3dc679282: Mounted from library/python

35fc403d4c4c: Mounted from library/python

c1fbc35a2660: Mounted from library/python

f63773c65620: Mounted from library/python

e6d60910d056: Mounted from library/python

b52c1c103fae: Mounted from library/python

6f1c84e6ec59: Mounted from library/python

dd5242c2dc8a: Mounted from library/python

v1: digest: sha256:d0b67b66329d2bbcd9515f8dac027dee07289095f838f89fbc331dd8990e2aa6 size: 2639

$ kubectl create deployment python-flask --image=nocsas/uas:v1

deployment.apps/python-flask created

$ kubectl get deployments

NAME READY UP-TO-DATE AVAILABLE AGE

python-flask 1/1 1 1 22s

$ kubectl get pods

NAME READY STATUS RESTARTS AGE

python-flask-75ff7b68-zlx62 1/1 Running 0 47s

$ kubectl expose deployment python-flask --type=LoadBalancer --port=5000

service/python-flask exposed

$ kubectl get services

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 16m

python-flask LoadBalancer 10.96.62.53 <pending> 5000:30008/TCP 20s