

HW2 Zihao Song

First Container

1. Docker Image URL: <https://hub.docker.com/repository/docker/simontv1998/helloworld>
2. Screenshot for the execution of your docker container on GCP, showing the “Hello World” message on the console.

```
zihao@gcp@cloudshell:~ (graphite-plane-325404)$ docker run gcr.io/graphite-plane-325404/simontv1998/helloworld
Hello World
zihao@gcp@cloudshell:~ (graphite-plane-325404)$
```

3. Print for your Dockerfile contents and the source code file.

```
# simontv1998 @ Simon-Yoga in /mnt/c/Simon/CMU/Fall2021/14-848/HW/HW2 [0:59:09]
$ cat Dockerfile
FROM python:latest

COPY . /app

WORKDIR /app

CMD ["python", "hello.py"]

# simontv1998 @ Simon-Yoga in /mnt/c/Simon/CMU/Fall2021/14-848/HW/HW2 [0:59:11]
$ cat hello.py
print('Hello World')
```

Second Container:

1. Output

```
root@10ec289926a7:/notebooks# jupyter notebook --no-browser
[W 06:03:16.681 NotebookApp] All authentication is disabled. Anyone who can connect to
this server will be able to run code.
[I 06:03:16.685 NotebookApp] Serving notebooks from local directory: /notebooks
[I 06:03:16.686 NotebookApp] Jupyter Notebook 6.1.4 is running at:
[I 06:03:16.686 NotebookApp] http://10ec289926a7:8888/
[I 06:03:16.686 NotebookApp] Use Control-C to stop this server and shut down all kernel
s (twice to skip confirmation).
[I 06:07:43.938 NotebookApp] 302 GET / (172.17.0.1) 2.90ms
```

localhost:8888/tree

Google 百度一下, 你就知道 YouTube 126网易免费邮--你... Dashboard Student Resources... Rushmore AT&T Guitar Tab CMU 更经 百合超市 Chalfont Workday 九章算法

jupyter

Files Running Clusters

Select items to perform actions on them. Upload New

	Name	Last Modified	File size
<input type="checkbox"/>	/		
<input type="checkbox"/>	AzureSearchIndex - Met Artworks.ipynb	a year ago	5.53 kB
<input type="checkbox"/>	Classification - Adult Census with Vowpal Wabbit.ipynb	a year ago	4.83 kB
<input type="checkbox"/>	Classification - Adult Census.ipynb	a year ago	3.42 kB
<input type="checkbox"/>	Classification - Before and After MMLSpark.ipynb	a year ago	10 kB
<input type="checkbox"/>	Classification - Twitter Sentiment with Vowpal Wabbit.ipynb	a year ago	11.4 kB
<input type="checkbox"/>	CognitiveServices - Celebrity Quote Analysis.ipynb	a year ago	7.01 kB
<input type="checkbox"/>	ConditionalKNN - Exploring Art Across Cultures.ipynb	a year ago	11.5 kB
<input type="checkbox"/>	DeepLearning - BiLSTM Medical Entity Extraction.ipynb	a year ago	11.4 kB
<input type="checkbox"/>	DeepLearning - CIFAR10 Convolutional Network.ipynb	a year ago	4.39 kB
<input type="checkbox"/>	DeepLearning - Flower Image Classification.ipynb	a year ago	5.98 kB
<input type="checkbox"/>	DeepLearning - Transfer Learning.ipynb	a year ago	3.72 kB
<input type="checkbox"/>	HttpOnSpark - Working with Arbitrary Web APIs.ipynb	a year ago	2.31 kB
<input type="checkbox"/>	HyperParameterTuning - Fighting Breast Cancer.ipynb	a year ago	4.57 kB
<input type="checkbox"/>	LightGBM - Quantile Regression for Drug Discovery.ipynb	a year ago	4.27 kB
<input type="checkbox"/>	ModelInterpretation - Snow Leopard Detection.ipynb	a year ago	10.5 kB
<input type="checkbox"/>	OpenCV - Pipeline Image Transformations.ipynb	a year ago	7.16 kB
<input type="checkbox"/>	Regression - Flight Delays with DataCleaning.ipynb	a year ago	7.52 kB
<input type="checkbox"/>	Regression - Auto Imports.ipynb	a year ago	10.6 kB
<input type="checkbox"/>	Regression - Flight Delays.ipynb	a year ago	4.72 kB
<input type="checkbox"/>	Regression - Vowpal Wabbit vs. LightGBM vs. Linear Regressor.ipynb	a year ago	12.1 kB
<input type="checkbox"/>	SparkServing - Deploying a Classifier.ipynb	a year ago	5.64 kB
<input type="checkbox"/>	TextAnalytics - Amazon Book Reviews with Word2Vec.ipynb	a year ago	6.16 kB
<input type="checkbox"/>	TextAnalytics - Amazon Book Reviews.ipynb	a year ago	4.64 kB
<input type="checkbox"/>	Vowpal Wabbit - Quantile Regression for Drug Discovery.ipynb	a year ago	3.74 kB

Extra Credit:

Google Cloud Platform My Project 8435 Search products and resources

Operations Logging

Logs Explorer OPTIONS REFINESCOPE

View your Kubernetes Engine dashboard Dismiss View GKE Dashboard

New features are available in the Logs Explorer. Dismiss Learn more

Query Recent (1) Saved (0) Suggested (7) Save Stream logs Run query Edit query

resource.type="k8s_container" resource.labels.project_id="turing-audio-327723" resource.labels.location="us-central1-a" resource.labels.cluster_name="cluster-1" resource.labels.namespace_name="default"

Log fields

Search fields and values

RESOURCE TYPE

Kubernetes Container Clear x

SEVERITY

Info 13

LOG NAME

stdout 13

PROJECT ID

turing-audio-327723 Clear x

LOCATION

us-central1-a Clear x

CLUSTER NAME

cluster-1 Clear x

NAMESPACE NAME

default Clear x

POD NAME

nginx-1-c77659b67-jw4 6

nginx-1-c77659b67-clmg 4

nginx-1-c77659b67-mcgrp 3

Histogram

6:30 Sep 30, 6:30 PM 7:00 PM Sep 30, 7:32 PM

Query results Jump to now Actions Configure

SEVERITY	TIMESTAMP	SUMMARY
Info	2021-09-30 19:27:26.289 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:27:26.596 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:27:26.979 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:27:27.824 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:27:41.858 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:27:43.588 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:27:44.848 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:28:18.517 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:28:11.873 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:28:51.482 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:29:01.851 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:38:21.548 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:38:26.858 EDT	helloWorld-sha256-1 Hello World
Info	2021-09-30 19:38:39.842 EDT	helloWorld-sha256-1 Hello World

Showing logs for last 1 hour from 9/30/21, 6:30 PM to 9/30/21, 7:30 PM. Extend time by: 1 hour Edit time

Kubernetes Engine

← Clusters

EDIT

DELETE

ADD NODE POOL

DEPLOY

CONNECT

DUPLICATE

- Clusters
- Workloads
- Services & Ingress
- Applications
- Configuration
- Storage
- Object Browser
- Migrate to containers
- Config Management
- Marketplace
- Release Notes
- <1

✓ cluster-1

DETAILS

NODES

STORAGE

LOGS

Cluster basics

Name	cluster-1	🔒
Location type	Zonal	🔒
Control plane zone	us-central1-a	🔒
Default node zones ?	us-central1-a	✎
Release channel	Regular channel	✎ UPGRADE AVAILABLE
Version	1.20.9-gke.1001	
Total size	2	ℹ
Endpoint	35.202.31.127 Show cluster certificate	🔒

Automation

Maintenance window	Any time	✎
Maintenance exclusions	None	✎
Upgrade notifications	Disabled	✎
Vertical Pod Autoscaling	Disabled	✎