Free Prometheus

Docker + Heroku

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Coming Soon - DevOps Continuous Integration classes on Coursera

2 repos

https://github.com/ucdavis

WEB1066-probot-hello

UC Davis Continuing and Professional Education WEB1066 Class



WEB1066-prom

Metrics and Analytics with Prometheus

Shell 🖁 1 🐴 ISC Updated on Dec 8, 2018

Repo 1 -WEB1066-probot-hello

Check the master_docker branch

Repo 2 - WEB1066-prom

Check the master_docker branch

The sequence of commands to publish

heroku container:login

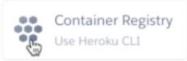
heroku container:push web

heroku container:release web









The Dockerfile

```
25 lines (18 sloc) 634 Bytes
                                                                                                Raw
                                                                                                      Blame
                                                                                                              History
      FROM prom/prometheus
      USER root
      ADD bin/curl-7.30.0.ermine.tar.bz2 .
      RUN my curl-7.30.0.ermine/curl.ermine /bin/curl \
          && rm -Rf curl-7.30.0.ermine
      # Capture SIGTERM from an orchestrator so we can reliably use entrypoint.sh
      # Using tini https://github.com/krallin/tini
      ENV TINI_VERSION v0.18.0
      ADD https://github.com/krallin/tini/releases/download/${TINI_VERSION}/tini-static /bin/tini
      RUN chmod +x /bin/tini
      USER nobody
      ADD config/prometheus.yml /etc/prometheus/
      ADD src/entrypoint.sh /bin/entrypoint.sh
      ENTRYPOINT ["/bin/tini", \
                  "--", \
                  "sh", \
                  "/bin/entrypoint.sh" ]
                 [ "" ]
```

Prompted to login to Heroku

Edwards-Mac:WEB1066-prom wenlock\$ heroku login

heroku: Press any key to open up the browser to login or q to exit:

Start a Heroku Project

```
Edwards-Mac:WEB1066-prom wenlock$ heroku apps:create wenlockca-prom
Creating wenlockca-prom... done
https://wenlockca-prom.herokuapp.com/ | https://git.heroku.com/wenlockca-prom.git
Edwards-Mac:WEB1066-prom wenlock$
```

Use env values for config settings

```
$ heroku config:set PROBOT_HOST=probot-wenlockca.herokuapp.com
```

Replace the setting on startup

```
Edwards-Mac:WEB1066-prom wenlock$ cat src/entrypoint.sh
#!/bin/sh
# we use an entrypoint script here with PORT setting so that
# we can run this on heroku using containers
export SERVER_PORT="${PORT:-8080}"
echo "Arguments are $*"
echo "Working with ${SERVER_PORT}"
# This is the probot host that is collecting our metrics
echo "Configure PROBOT_HOST => ${PROBOT_HOST}"
sed -i "s/{{PROBOT_HOST}}/${PROBOT_HOST}/g" /etc/prometheus/prometheus.yml
echo "Starting up server"
"/bin/prometheus" \
    --storage.tsdb.path=/prometheus \
    --web.console.libraries=/etc/prometheus/console_libraries \
    --web.console.templates=/etc/prometheus/consoles \
    --config.file=/etc/prometheus/prometheus.yml \
    --web.listen-address=0.0.0.0:${SERVER_PORT}
```

Running: heroku container:push web

```
---> bb20c6a8b6b6
Step 10/12: ADD src/entrypoint.sh /bin/entrypoint.sh
---> Using cache
---> 44b5e147347e
Step 11/12 : ENTRYPOINT ["/bin/tini",
                                                 "--",
                                                                    "sh",
---> Using cache
 ---> 2272d90879e1
                        [ "" ]
Step 12/12 : CMD
---> Using cache
---> ffb7e970bfa8
Successfully built ffb7e970bfa8
Successfully tagged registry.heroku.com/wenlockca-prom/web:latest
=== Pushing web (/Users/wenlock/Documents/GitHub/WEB1066-prom/Dockerfile)
The push refers to repository [registry.heroku.com/wenlockca-prom/web]
ba745fcdc814: Preparing
aff7d17b7b38: Preparing
56589773f643: Preparing
eaa7f16a9747: Preparing
14a87a1309da: Preparing
```

Release! heroku container:release web

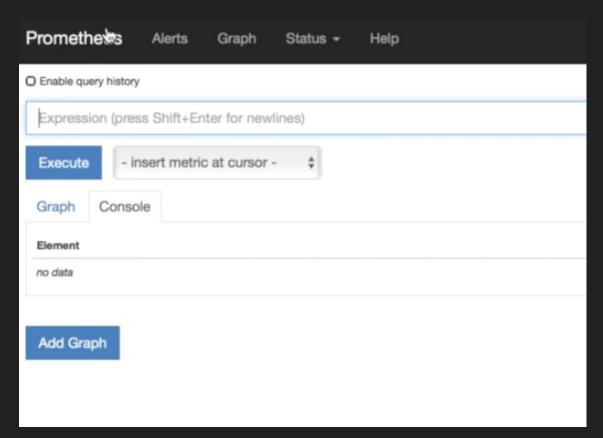
```
d3a2b908d5ad: Pushed
8a788232037e: Pushed
```

latest: digest: sha256:015c8fc88b21241a357f4edf8de5e21b1b6de252d5049107a2b7fc27a5c5084d size: 3454 Your image has been successfully pushed. You can now release it with the 'container:release' command.

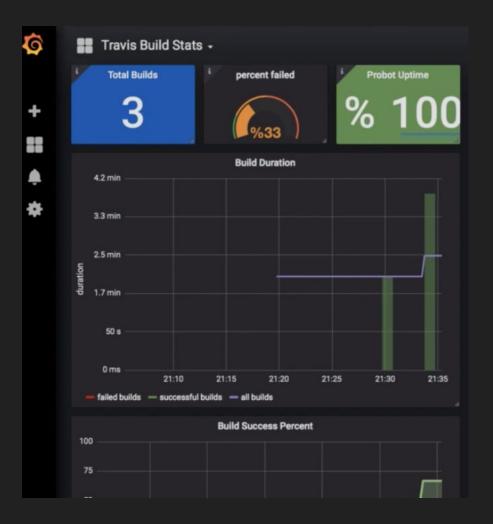
Releasing images web to wenlockca-prom... done

Edwards-Mac:WEB1066-prom wenlock\$

Tada, free Prometheus



Putting it together



Thank You