## HW2 Chuandi Zhou

## 1. Tasks

• Provide a screenshot of invoking the figlet function (10 pts)

```
Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/figlet

doris@doris:~/faasd$
doris@doris:~/faasd$
doris@doris:~/faasd$
doris@doris:~/faasd$
doris@doris:~/faasd$
doris@doris:~/faasd$
doris@doris:~/faasd$
foris@doris:~/faasd$
foris@doris:~/faasd$
foris@doris:~/faasd$
foris@doris:~/faasd$
doris@doris:~/faasd$
faas-cli store inspect figlet

Name figlet
Description Generate ASCII logos with the figlet CLI
Image ghcr.io/openfaas/figlet:latest
Process figlet
Repo URL https://github.com/openfaas/store-functions

doris@doris:~/faasd$ echo "Hello, Faas, worlf" | faas-cli invoke figlet
```

• Complete slack-request/handler.py (20 pt)

```
handler.py — slack-interactive x | slack-interactive.yml | x | handler.py — slack-request x | + ▼ |

import json | def handle[req]; | data = { | "text": "Serverless Message", "attachenents": [{ | "title": "The Awesone world of Cloud Computing! COBN 241", "fitles": [{ | "title": "Manzing Level", "waulue": "1808", "author_name": "Chuandi Zhou", "author_name": "Chuandi Zhou", "author_acon": "", "author_name": "Chuandi Zhou", "author_acon": "", "auth
```

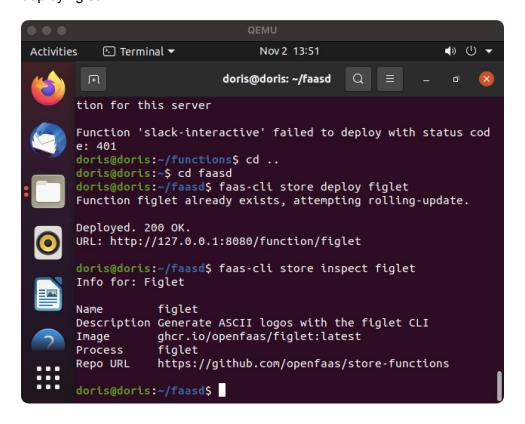
Complete slack-interactive/handler.py (20 pt)

• Provide a screenshot of running the following command (10 pts) sudo journalctl -u faasd --lines 40

```
–– Logs begin at Sat 2022–10–15 18:12:57 UTC, end at Wed 2022–11–02 05:34:48 UT<mark>></mark>
Nov 02 00:28:06 doris faasd[2933]: 2022/11/02 00:28:06 – gateway
Nov 02 00:28:06 doris faasd[2933]: 2022/11/02 00:28:06 – queue–worker
Nov O2 OO:28:06 doris faasd[2933]: Starting: basic–auth–plugin
Nov O2 O0:28:06 doris faasd[2933]: 2022/11/02 O0:28:06 Created container: basic
Nov O2 O0:28:06 doris faasd[2933]: 2022/11/02 O0:28:06 basic–auth–plugin has IP
Nov O2 OO:28:06 doris faasd[2933]: 2022/11/O2 OO:28:06 Task: basic–auth–plugin
Nov O2 O0:28:06 doris faasd[2933]: Starting: nats
Nov O2 O0:28:06 doris faasd[2933]: Creating local directory: /var/lib/faasd/nats
Nov O2 O0:28:06 doris faasd[2933]: 2022/11/O2 O0:28:06 Running nats with user: <code>></code>
Nov O2 OO:28:06 doris faasd[2933]: 2022/11/O2 OO:28:06 Created container: nats
Nov 02 00:28:07 doris faasd[2933]: 2022/11/02 00:28:07 nats has IP: 10.62.0.3
Nov 02 00:28:07 doris faasd[2933]: 2022/11/02 00:28:07 Task: nats
                                                                                                                 Contai>
Nov O2 OO:28:07 doris faasd[2933]: Starting: prometheus
Nov O2 00:28:07 doris faasd[2933]: Creating local directory: /var/lib/faasd/pro>
Nov O2 00:28:07 doris faasd[2933]: 2022/11/02 00:28:07 Running prometheus with >
Nov O2 00:28:07 doris faasd[2933]: 2022/11/02 00:28:07 Created container: prome>
Nov O2 O0:28:07 doris faasd[2933]: 2022/11/02 O0:28:07 prometheus has IP: 10.62
Nov 02 00:28:07 doris faasd[2933]: 2022/11/02 00:28:07 Task: prometheus
Nov O2 OO:28:O7 doris faasd[2933]: Starting: gateway
Nov O2 00:28:07 doris faasd[2933]: 2022/11/02 00:28:07 Created container: gatew>
Nov O2 00:28:08 doris faasd[2933]: 2022/11/02 00:28:08 gateway has IP: 10.62.0.5
Nov O2 00:28:08 doris faasd[2933]: 2022/11/02 00:28:08 Task: gateway Con>
Nov O2 OO:28:08 doris faasd[2933]: Starting: queue–worker
Nov 02 00:28:08 doris faasd[2933]: 2022/11/02 00:28:08 Created container: queue
Nov O2 O0:28:08 doris faasd[2933]: 2022/11/02 O0:28:08 queue–worker has IP: 10.
Nov 02 00:28:08 doris faasd[2933]: 2022/11/02 00:28:08 Task: queue—worker
Nov 02 00:28:08 doris faasd[2933]: 2022/11/02 00:28:08 Supervisor init done in:
Nov 02 00:28:08 doris faasd[2933]: 2022/11/02 00:28:08 Looking up IP for: "gate
lines 1-29
```

• Provide a screenshot of your OpenFaaS gateway AFTER deploying figlet, slack-handler and slack-interactive functions (10 pts)

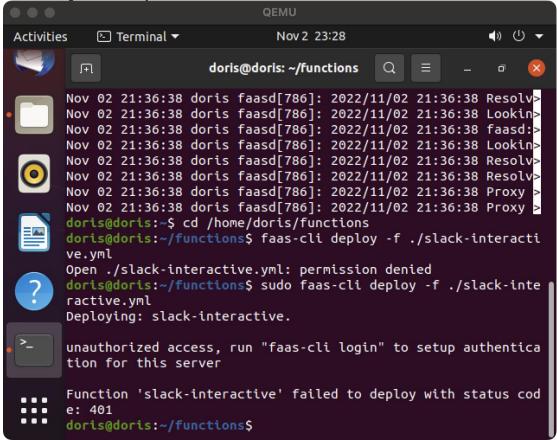
deploy figlet



deploy slack-interative, slack-request

Some problems happened, couldn't deploy images. I tried to reopen the Ubuntu, log

out and log in for many times but didn't work.



• Provide a screenshot of invoking slack-request and slack-interactive functions (10 pts)

Same problem as bove, can't deploy images so that can't invoke functions.

## 2. Questions

- 1. What is the command to invoke the slack-request function (4 pts)?
- a. Via Curl

```
$ curl http://127.0.0.1:8080/function/slack-request
```

- \$ curl http://127.0.0.1:8080/function/slack-request -d "{"name":"Doris"}"
- b. Via faas-cli
- \$ echo "{"name":"Doris"}" | faas-cli invoke slack-request
- 3. What is the output you see when you invoke the slack-request function? (2 pts) Can't deploy and invoke.
- 3. What is the command to invoke the slack-interactive function? (4 pts)

a. Via curl

\$ curl http://127.0.0.1:8080/function/slack-interactive

\$ curl <a href="http://127.0.0.1:8080/function/slack-interactive">http://127.0.0.1:8080/function/slack-interactive</a> -d '{"name": "Doris"}'

b. Via faas-cli

\$ echo '{"name": "Doris"}' | faas-cli invoke slack-interactive

- 4. What is the output you see when you invoke the slack-interactive function? (2 pts) Can't deploy and invoke.
- 5. How would you pass different arguments to the functions? (4 pts)
- a. via STDIN using -d:

\$ curl http://127.0.0.1:8080/function/function -d <data string>

c. via echo

\$ echo <data string> | faas-cli invoke function

6. How would you change the slack-interactive function to react to different inputs? (4 pts)

Take in string input and parse the output into JSON.