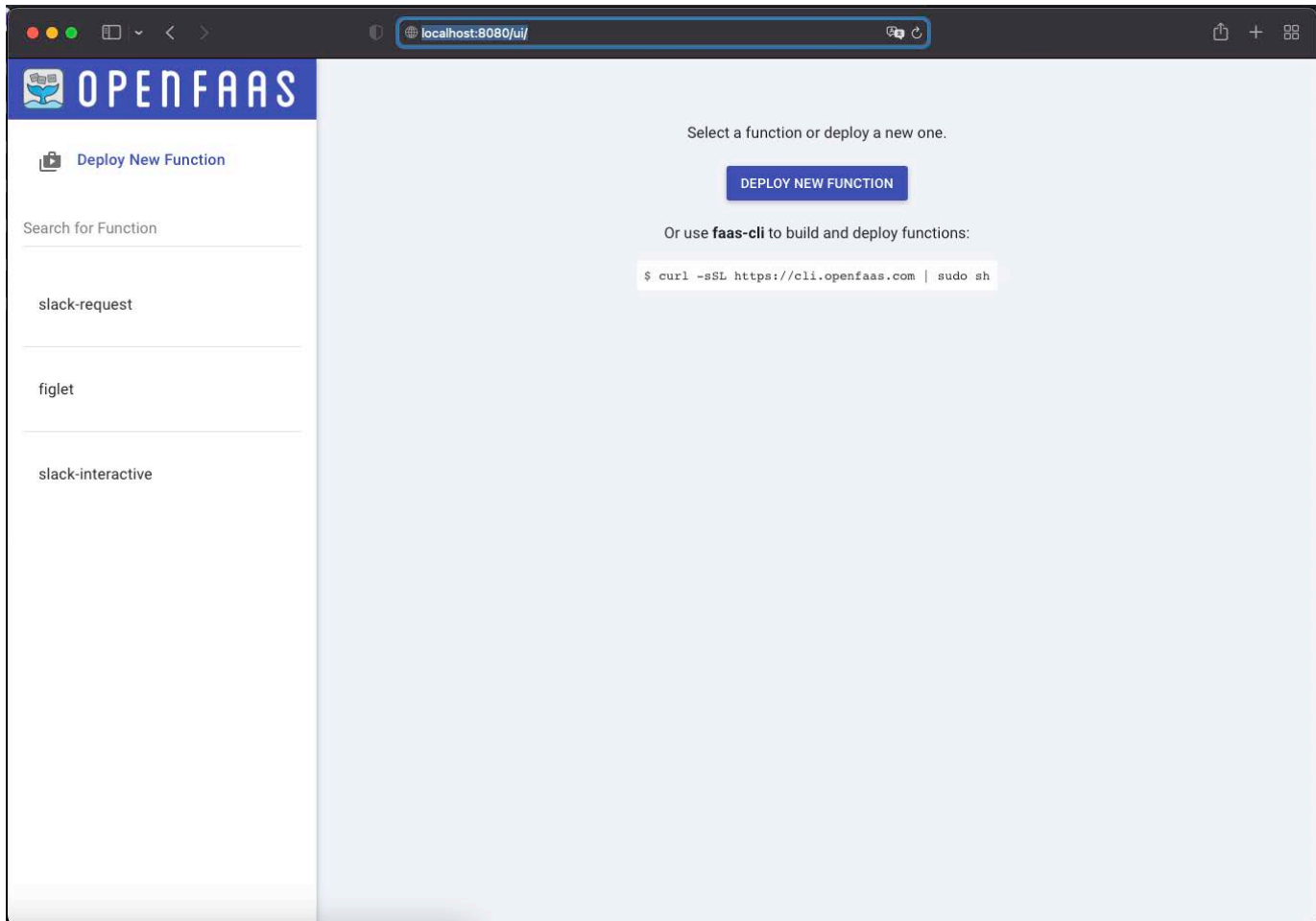


- [illegible]

- ```
zlin2@zlin2:~$ sudo journalctl -u faasd --lines 40
-- Logs begin at Sun 2022-04-10 23:40:12 UTC, end at Thu 2022-05-05 05:52:11 UTC. --
May 05 05:18:06 zlin2 faasd[654]: 2022/05/05 05:18:05 - gateway
May 05 05:18:06 zlin2 faasd[654]: 2022/05/05 05:18:05 - queue-worker
May 05 05:18:06 zlin2 faasd[654]: Starting: prometheus
May 05 05:18:06 zlin2 faasd[654]: Creating local directory: /var/lib/faasd/prometheus
May 05 05:18:06 zlin2 faasd[654]: 2022/05/05 05:18:06 Running prometheus with user: "65534"
May 05 05:18:06 zlin2 faasd[654]: 2022/05/05 05:18:06 Created container: prometheus
May 05 05:18:14 zlin2 faasd[654]: 2022/05/05 05:18:14 prometheus has IP: 10.62.0.2
May 05 05:18:14 zlin2 faasd[654]: 2022/05/05 05:18:14 Task: prometheus Container: prometheus
May 05 05:18:15 zlin2 faasd[654]: Starting: basic-auth-plugin
May 05 05:18:15 zlin2 faasd[654]: 2022/05/05 05:18:15 Created container: basic-auth-plugin
May 05 05:18:19 zlin2 faasd[654]: 2022/05/05 05:18:19 basic-auth-plugin has IP: 10.62.0.3
May 05 05:18:19 zlin2 faasd[654]: 2022/05/05 05:18:19 Task: basic-auth-plugin Container: basic-auth-plugin
May 05 05:18:19 zlin2 faasd[654]: Starting: nats
May 05 05:18:19 zlin2 faasd[654]: Creating local directory: /var/lib/faasd/nats
May 05 05:18:19 zlin2 faasd[654]: 2022/05/05 05:18:19 Running nats with user: "65534"
May 05 05:18:19 zlin2 faasd[654]: 2022/05/05 05:18:19 Created container: nats
May 05 05:18:22 zlin2 faasd[654]: 2022/05/05 05:18:22 nats has IP: 10.62.0.4
May 05 05:18:22 zlin2 faasd[654]: 2022/05/05 05:18:22 Task: nats Container: nats
May 05 05:18:23 zlin2 faasd[654]: Starting: gateway
May 05 05:18:24 zlin2 faasd[654]: 2022/05/05 05:18:24 Created container: gateway
May 05 05:18:29 zlin2 faasd[654]: 2022/05/05 05:18:29 gateway has IP: 10.62.0.5
May 05 05:18:29 zlin2 faasd[654]: 2022/05/05 05:18:29 Task: gateway Container: gateway
May 05 05:18:29 zlin2 faasd[654]: Starting: queue-worker
May 05 05:18:30 zlin2 faasd[654]: 2022/05/05 05:18:30 Created container: queue-worker
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 queue-worker has IP: 10.62.0.6
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Task: queue-worker Container: queue-worker
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Supervisor init done in: 28 seconds
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Looking up IP for: "gateway"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver rebuilding map
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver: "localhost"="127.0.0.1"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver: "faasd-provider"="10.62.0.1"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver: "prometheus"="10.62.0.2"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver: "basic-auth-plugin"="10.62.0.3"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver: "nats"="10.62.0.4"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver: "gateway"="10.62.0.5"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Resolver: "queue-worker"="10.62.0.6"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 faasd: waiting for SIGTERM or SIGINT
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Looking up IP for: "prometheus"
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.2)
May 05 05:18:33 zlin2 faasd[654]: 2022/05/05 05:18:33 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.5)
```

### 3. OpenFaaS gateway AFTER deploying figlet, slack-handler and slack-interactive functions



### 4. screenshot of invoking slack-request function using FaaS CLI

```
zlin2@zlin2:~$ echo 'hello' | faas-cli invoke slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png", "author_name": "Zhihao Lin", "title": "The Awesome world of Cloud Computing! COEN 241", {"text": "COEN 241 is the most awesome class ever!", "title": "About COEN 241"}, {"title": "Would you recommend COEN 241 to your friends?", "color": "#3AA3E3", "actions": [{"text": "Of Course!", "type": "button", "name": "recommend", "value": "recommend"}, {"text": "Most Definitely!", "type": "button", "name": "definitely", "value": "definitely"}]}, {"callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default"}]}
```

### 5. screenshot of invoking slack-interactive function using FaaS CLI

```
zlin2@zlin2:~$ echo '{"text": "text"}' | faas-cli invoke slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/LinZhihaozlin22/COEN-241", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png", "response_type": "ephemeral", "replace_original": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fallback": "Required plain-text summary of the attachment.", "thumb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.com/LinZhihaozlin22.png"}]}
```



## 6. screenshot of invoking slack-request function using Curl

```
(base) zhihaolin@Zhihaos-MBP ~ % curl http://localhost:8080/function/slack-request --data "hello"
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png", "author_name": "Zhihao Lin", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!", "title": "About COEN 241"}, {"text": "Would you recommend COEN 241 to your friends?", "color": "#3AA3E3", "actions": [{"text": "Of Course!", "type": "button", "name": "recommend", "value": "recommend"}, {"text": "Most Definitely!", "type": "button", "name": "definitely", "value": "definitely"}], "callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default"}]}
```

## 7. screenshot of invoking slack-interactive function using Curl

```
(base) zhihaolin@Zhihaos-MBP ~ % curl http://localhost:8080/function/slack-interactive --data '{"text":"text"}'
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/LinZhihaozlin22/COEN-241", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png", "response_type": "ephemeral", "replace_original": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fallback": "Required plain-text summary of the attachment.", "thumb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.com/LinZhihaozlin22.png"}]}
```

### Extra Credit:

Slack app link: [https://slack.com/app\\_redirect?app=A03E8U6F9DM](https://slack.com/app_redirect?app=A03E8U6F9DM)

app name: COEN241-HW2

First used command `/coen241` to invoke slack-request function, then click interactive button to invoke slack-interactive function.

Screenshot of invoking slack-request (top response) and then invoking slack-interactive (bottom response) inside Slack shown in next page

