

Invoke Figlet:

```
[lizheng@lizheng:~$ sudo faas-cli store inspect figlet
Info for: 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

[lizheng@lizheng:~$ echo "Hello, FaaS, world" | faas-cli invoke figlet

Hello, FaaS, world
```

Explanation:

Just run the following command line on QEMU terminal. Then we can get the result of the above picture.

```
$ echo "Hello, FaaS, world" | faas-cli invoke figlet
```

This function will convert the input string to a amazing sign

Invoke Slack-interactive

```
[lizheng@lizheng:~/functions$ echo "https://www.youtube.com/" | faas-cli invoke slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/LizhengZhao1/COEN_241.git", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "Lizheng Zhao", "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://avatars.githubusercontent.com/u/81804157?v=4"}]}
```

Explanation:

Just run the following command line on QEMU terminal. Then we can get the result of the above picture.

```
$ echo "https://www.youtube.com/" | faas-cli invoke slack-interactive
```

After executing the above command line, we will get a output of JSON object.

Invoke Slack-request:

```
[lizheng@lizheng:~/functions$ echo "https://www.youtube.com/" | faas-cli invoke slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://avatars.githubusercontent.com/u/81804157?v=4", "author_name": "Lizheng Zhao", "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"}]}
```

Explanation:

Just run the following command line on QEMU terminal. Then we can get the result of the above picture.

```
$ echo "https://www.youtube.com/" | faas-cli invoke slack-request
```

After executing the above command line, we will get a output of JSON object

Execute: sudo journalctl -u faasd --lines

```
[sudo] password for lizheng:
-- Logs begin at Wed 2022-04-13 00:31:33 UTC, end at Fri 2022-04-29 00:53:08 UTC. --
Apr 28 05:35:33 lizheng faasd[732]: 2022/04/28 05:35:33 - gateway
Apr 28 05:35:33 lizheng faasd[732]: 2022/04/28 05:35:33 - queue-worker
Apr 28 05:35:33 lizheng faasd[732]: Starting: basic-auth-plugin
Apr 28 05:35:33 lizheng faasd[732]: 2022/04/28 05:35:33 Created container: basic-auth-plugin
Apr 28 05:35:33 lizheng faasd[732]: 2022/04/28 05:35:33 basic-auth-plugin has IP: 10.62.0.2
Apr 28 05:35:33 lizheng faasd[732]: 2022/04/28 05:35:33 Task: basic-auth-plugin Container: basic-auth-plugin
Apr 28 05:35:33 lizheng faasd[732]: Starting: nats
Apr 28 05:35:33 lizheng faasd[732]: Creating local directory: /var/lib/faasd/nats
Apr 28 05:35:33 lizheng faasd[732]: 2022/04/28 05:35:33 Running nats with user: "65534"
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 Created container: nats
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 nats has IP: 10.62.0.3
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 Task: nats Container: nats
Apr 28 05:35:34 lizheng faasd[732]: Starting: prometheus
Apr 28 05:35:34 lizheng faasd[732]: Creating local directory: /var/lib/faasd/prometheus
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 Running prometheus with user: "65534"
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 Created container: prometheus
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 prometheus has IP: 10.62.0.4
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 Task: prometheus Container: prometheus
Apr 28 05:35:34 lizheng faasd[732]: Starting: gateway
Apr 28 05:35:34 lizheng faasd[732]: 2022/04/28 05:35:34 Created container: gateway
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 gateway has IP: 10.62.0.5
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Task: gateway Container: gateway
Apr 28 05:35:35 lizheng faasd[732]: Starting: queue-worker
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Created container: queue-worker
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 queue-worker has IP: 10.62.0.6
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Task: queue-worker Container: queue-worker
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Supervisor init done in: 2 seconds
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Looking up IP for: "gateway"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver rebuilding map
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver: "localhost"="127.0.0.1"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver: "faasd-provider"="10.62.0.1"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver: "basic-auth-plugin"="10.62.0.2"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver: "nats"="10.62.0.3"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver: "prometheus"="10.62.0.4"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver: "gateway"="10.62.0.5"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Resolver: "queue-worker"="10.62.0.6"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Looking up IP for: "prometheus"
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.4)
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 faasd: waiting for SIGTERM or SIGINT
Apr 28 05:35:35 lizheng faasd[732]: 2022/04/28 05:35:35 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.5)
```

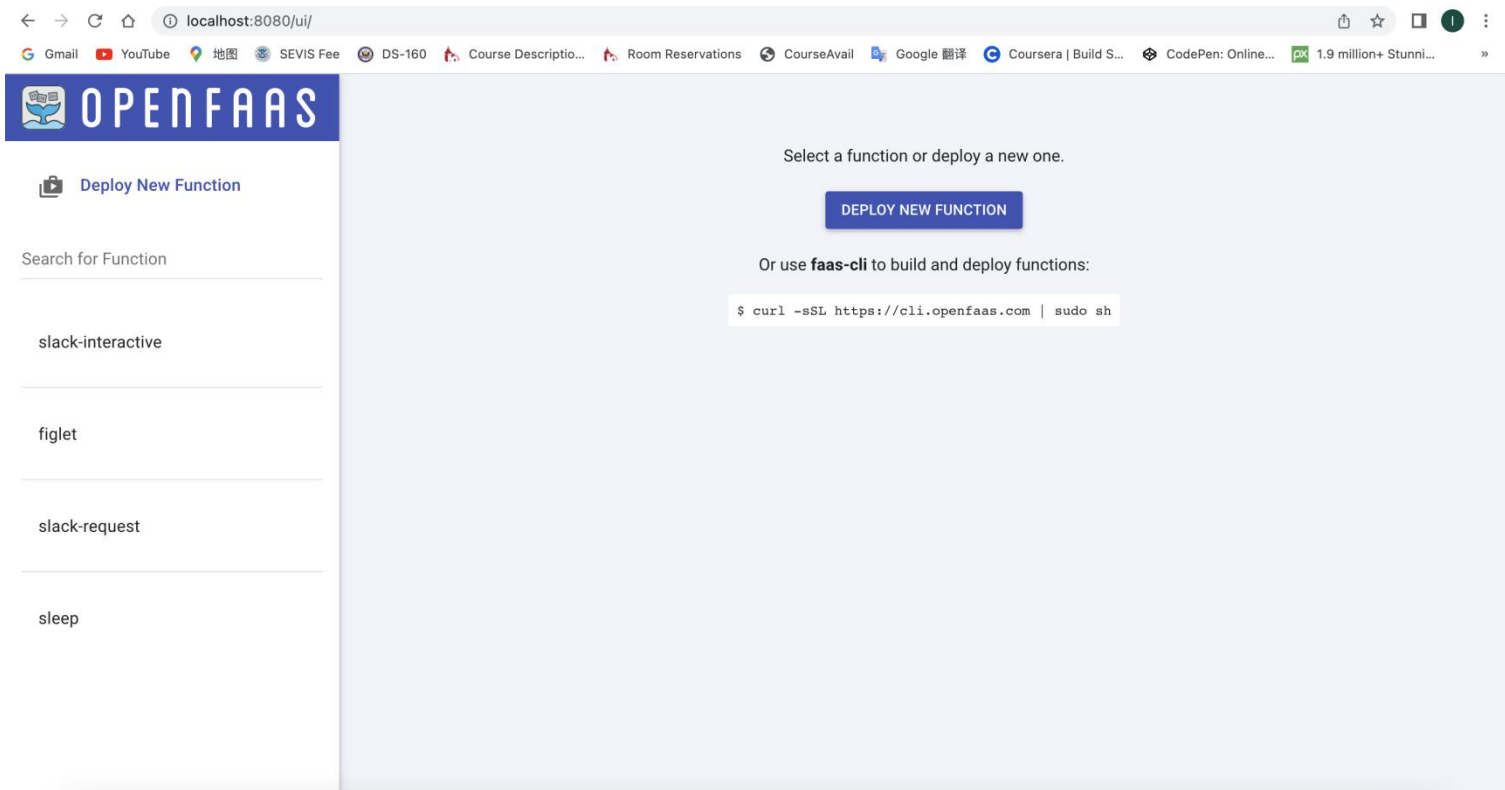
Explanation:

Just run the following command line on QEMU terminal. Then we can get the result of the above picture.

```
$ sudo journalctl -u faasd --lines 40
```

After executing the above command line, we can get some log records of faasd

My OpenFaaS gateway AFTER deploying figlet, slack-handler and slack-interactive functions:



Explanation: this picture is the UI of OpenFaaS gateway It shows some functions we have deployed to OpenFaaS.