## screenshot of invoking the figlet function

```
hui@ubuntu:~$ faas-cli store deploy figlet
Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/figlet
hui@ubuntu:~$ faas-cli store inspect figlet
Info for: Figlet
Description Generate ASCII logos with the figlet CLI
            ghcr.io/openfaas/figlet:latest
figlet
Image
Process
Repo URL
            https://github.com/openfaas/store-functions
hui@ubuntu:~$ echo "Hello, FaaS, world" | faas-cli invoke figlet
```

## screenshot of running the

journalctl -u faasd --lines 40

```
rootgubuntu:/hone/hut/functions# sudo journalctl -u faasd --lines 40
-- Logs begin at Med 2022-10-26 00:05:52 PDT, end at Thu 2022-10-27 13:30:01 PDT. --
0ct 27 10:57:33 ubuntu faasd(950): 2022/10/27 10:57:33 - queue-worker
0ct 27 10:57:33 ubuntu faasd(950): 2022/10/27 10:57:33 - queue-worker
0ct 27 10:57:33 ubuntu faasd(950): 2022/10/27 10:57:33 - queue-worker
0ct 27 10:57:33 ubuntu faasd(950): 2022/10/27 10:57:33 - queue-worker
0ct 27 10:57:33 ubuntu faasd(950): 2022/10/27 10:57:33 Created container: prometheus
0ct 27 10:57:33 ubuntu faasd(950): 2022/10/27 10:57:33 Created container: prometheus
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:33 Created container: prometheus
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: prometheus Container: prometheus
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: prometheus Container: prometheus
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: prometheus Container: prometheus
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: prometheus Container: basic-auth-plugin
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: basic-auth-plugin Container: basic-auth-plugin
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: basic-auth-plugin Container: basic-auth-plugin
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: basic-auth-plugin Container: basic-auth-plugin
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: basic-auth-plugin Container: basic-auth-plugin
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Created container: nats
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Created container: nats
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:34 Task: nats Container: pateway
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:35 Task: nats Container: gateway
0ct 27 10:57:34 ubuntu faasd(950): 2022/10/27 10:57:35 Task: pateway (Container: gateway
0ct 27 10:57:35 ubuntu faasd(950): 2022/10/27 10:57:35 Fask: gateway (Container: queue-worker
0ct 27 10:57:35 ubuntu faasd(95
```

## Complete slack-request/handler.py

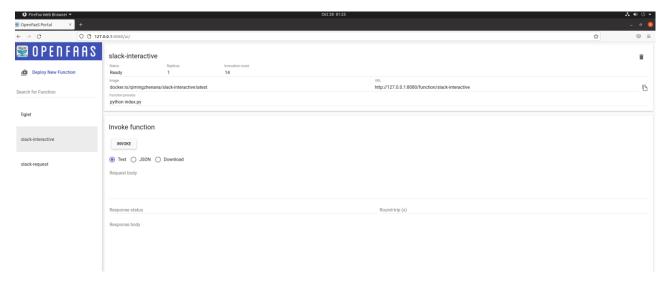
```
"author_name": "tinghui zhang",
"author_icon": "",
"image_url": "https://avatars.githubusercontent.com/u/93081141?s=400&u=a94cc63852f4e9e5c3543a5fa14e50cb633e01c9&v=4"
```

## Complete slack-interactive/handler.py

```
"author_name": "tinghui zhang",
"author_link": "https://github.com/Burgerrr/Tinghui_Zhang_COEN241HW",
"author_icon": "https://avatars.githubusercontent.com/u/93081141?s=400&u=a94cc63852f4e9e5c3543a5fa14e50cb633e01c9&v=4",
```

## Screenshot of faas after deployment

```
root@ubuntu:/home/hui/functions# faas-cli list
Function Invocations Replicas
figlet 0 0
slack-interactive 0 1
slack-request 0 1
```



#### a screenshot of invoking slack-request functions

```
root@ubuntu:/home/hui/functions# echo "test" | 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/93081141?s
=400&u=a94cc63852f4e9e5c3543a5fa14e50cb633e01c9&v=4", "author_name": "tinghui zhang", "title": "The A
wesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!.", "t
itle": "About COEN 241"}, {"title": "Would you recommend COEN 241 to your friends?", "color": "#3AA3E
3", "actions": [{"text": "Of Course!", "type": "button", "name": "recommend", "value": "recommend"),
{"text": "Most Definitely!", "type": "button", "name": "definitely", "value": "definitely"}], "callba
ck_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type"
: "default"}]}
```

#### a screenshot of invoking slack-interactive functions

```
root@ubuntu:/home/hui/functions# echo '{}' | faas-cli invoke slack-interactive {"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/Burger rrr/Tinghui_Zhang_COEN241HW", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "tinghui zhang", "title_link": "https://www.scu.edu/engineering/ac ademic-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", "pre text": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fallback": "Required plain-text su mmary 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/93081141?s=400&u=a94cc63852f4e9e5c3543a5fa14e50cb633e01c9&v=4"}]}
```

## Questions:

- 1. What is the command to invoke the slack-request function (4 pts)?
- a. Via Curl curl localhost:8080/function/slack-request -d {}
- b. Via faas-cli echo "test" | faas-cli invoke slack-request
- 2. What is the output you see when you invoke the slack-request function? (2 pts)

```
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://avatars.githubusercontent.com/u/93081141?s=400&u=a94cc63852f4e9e5c3543a5f a14e50cb633e01c9&v=4", "author_name": "tinghui zhang", "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"}]}
```

- 3. What is the command to invoke the slack-interactive function? (4 pts)
- a. Via curl | curl localhost:8080/function/slack-interactive -d {}
- b. Via faas-cli echo '{}' | faas-cli invoke slack-interactive
- 4. What is the output you see when you invoke the slack-interactive function? (2 pts)

```
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/Burgerrrr/Tinghui_Zhang_COEN241HW", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "tinghui zhang", "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/93081141?s=400&u=a94cc63852f4e9e5c3543a5f
```

"https://avatars.githubusercontent.com/u/93081141?s=400&u=a94cc63852f4e9e5c3543a5fa14e50cb633e01c9&v=4"}]}

5. How would you pass different arguments to the functions? (4 pts)

First method: add "echo 'arguments' |" before "faas-cli invoke slack-request"

Second method: after calling "faas-cli invoke slack-request", type the arguments and end typing with "control + D"

If use curl, add -d "argument" at the last.

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

the input will be in the response variable, so add some conditionals based on the response variable to return different data. Is this way, it would be able to response different inputs.

#### Extra credit:

```
hui@ubuntu: ~
                                                                                                                                                                        a =
                                                                                                                                                                                     (Ctrl+C to quit)
  grok
                                                                        online
qimingzhenana (Plan: Free)
  Account
                                                                        3.1.0
United States (us)
Version
  Region
                                                                        147ms
  atency
                                                                        http://127.0.0.1:4040
https://30a6-67-188-30-26.ngrok.io -> http://localhost:8080
   eb Interface
  orwarding
  Connections
                                                                                                                                  rt5
                                                                                                                                                     p50
0.52
                                                                                                                                                                         p90
                                                                                                               0.01
                                                                                                                                  0.01
                                                                                                                                                                         60.48
HTTP Requests
GET /system/function/slack-interactive 200 OK
GET /system/functions 200 OK
GET /system/function/slack-interactive 200 OK
GET /system/function/slack-interactive 200 OK
GET /system/function/slack-interactive 200 OK
GET /system/function/slack-interactive 200 OK
GET /system/functions 200 OK
GET /system/function/slack-interactive 200 OK
GET /system/functions 200 OK
GET /system/functions 200 OK
GET /system/functions 200 OK
```

#### Slash-command:

Request: <a href="https://30a6-67-188-30-26.ngrok.io/function/slack-request">https://30a6-67-188-30-26.ngrok.io/function/slack-request</a>

Interactive: <a href="https://30a6-67-188-30-26.ngrok.io/function/slack-interactive">https://30a6-67-188-30-26.ngrok.io/function/slack-interactive</a>

# Slack app Link: <a href="https://app.slack.com/client/T049BJMNPB2/C048JUYUMFF">https://app.slack.com/client/T049BJMNPB2/C048JUYUMFF</a>

