

COEN 241 HW#2 Screenshot Descriptions

(1 screenshot with description per page)

Screenshot of invoking figlet function with input "TESTING FIGLET" screenshot_1.png

figlet

Status	Replicas	Invocation count
Ready	1	4

Image

ghcr.io/openfaas/figlet:latest

URL

http://localhost:3080/function/figlet

Function process

figlet

Invoke function

INVOKE

☒ Text
 ☐ JSON
 ☐ Download

Request body

"TESTING FIGLET"

Response status

200

Round-trip (s)

0.167

Response body

```

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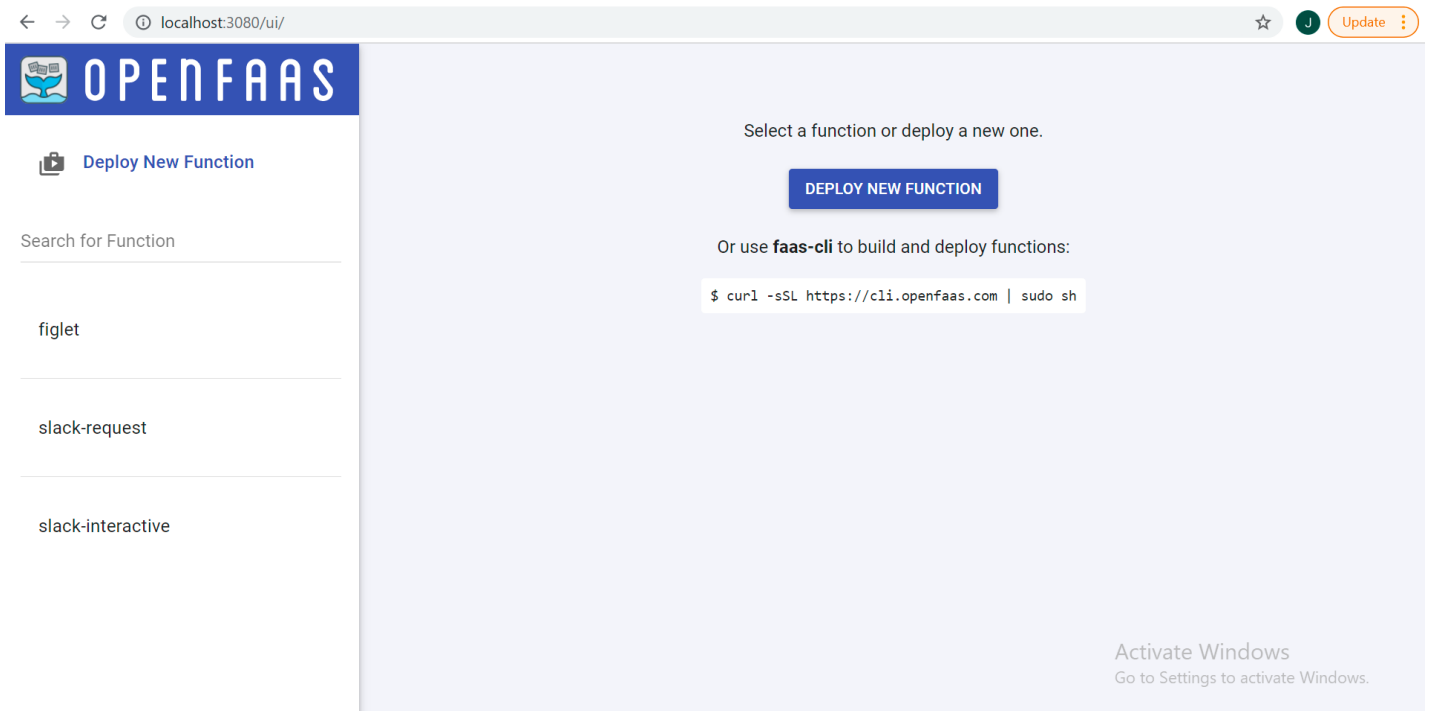
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```

Screenshot of running the “sudo journalctl -u faasd --lines 40” command screenshot_2.png

```
Activities Terminal Wed 14:19
jasmit@jasmit-VirtualBox: ~/functions
File Edit View Search Terminal Help
jasmit@jasmit-VirtualBox:~/functions$ ^C
jasmit@jasmit-VirtualBox:~/functions$ ^C
jasmit@jasmit-VirtualBox:~/functions$ sudo journalctl -u faasd --lines 40
-- Logs begin at Mon 2021-11-01 16:20:32 PDT, end at Wed 2021-11-10 14:19:24 PST. --
Nov 08 14:05:35 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:35 Start-up order:
Nov 08 14:05:35 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:35 - nats
Nov 08 14:05:35 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:35 - queue-worker
Nov 08 14:05:35 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:35 - basic-auth-plugin
Nov 08 14:05:35 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:35 - prometheus
Nov 08 14:05:35 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:35 - gateway
Nov 08 14:05:35 jasmit-VirtualBox faasd[938]: Starting: nats
Nov 08 14:05:36 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:35 Created container: nats
Nov 08 14:05:41 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:41 nats has IP: 10.62.0.2
Nov 08 14:05:41 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:41 Task: nats Container: nats
Nov 08 14:05:41 jasmit-VirtualBox faasd[938]: Starting: queue-worker
Nov 08 14:05:43 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:43 Created container: queue-worker
Nov 08 14:05:45 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:45 queue-worker has IP: 10.62.0.3
Nov 08 14:05:45 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:45 Task: queue-worker Container: queue-worker
Nov 08 14:05:45 jasmit-VirtualBox faasd[938]: Starting: basic-auth-plugin
Nov 08 14:05:45 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:45 Created container: basic-auth-plugin
Nov 08 14:05:47 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:47 basic-auth-plugin has IP: 10.62.0.4
Nov 08 14:05:47 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:47 Task: basic-auth-plugin Container: basic-auth-plugin
Nov 08 14:05:47 jasmit-VirtualBox faasd[938]: Starting: prometheus
Nov 08 14:05:47 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:47 Created container: prometheus
Nov 08 14:05:49 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:49 prometheus has IP: 10.62.0.5
Nov 08 14:05:49 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:49 Task: prometheus Container: prometheus
Nov 08 14:05:50 jasmit-VirtualBox faasd[938]: Starting: gateway
Nov 08 14:05:50 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:50 Created container: gateway
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 gateway has IP: 10.62.0.6
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Task: gateway Container: gateway
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Supervisor init done in: 19.737046706s
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver rebuilding map
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Looking up IP for: "gateway"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Looking up IP for: "prometheus"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver: "localhost"="127.0.0.1"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver: "faasd-provider"="10.62.0.1"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver: "nats"="10.62.0.2"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver: "queue-worker"="10.62.0.3"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver: "basic-auth-plugin"="10.62.0.4"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver: "prometheus"="10.62.0.5"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Resolver: "gateway"="10.62.0.6"
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.5)
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.6)
Nov 08 14:05:53 jasmit-VirtualBox faasd[938]: 2021/11/08 14:05:53 faasd: waiting for SIGTERM or SIGINT
jasmit@jasmit-VirtualBox:~/functions$
```

Screenshot of openfaas gateway after deploying all three functions screenshot_3.png



Screenshot of invoking Slack-request function screenshot_4.png

slack-request

Status	Replicas	Invocation count
Ready	1	5

Image

docker.io/jasmitkakkar/slack-request:latest

Function process

python index.py

Invoke function

INVOKE

☒ Text ☐ JSON ☐ Download

Request body

Response status

200

Response body

```
{
  "text": "Serverless Message",
  "attachments": [
    {
      "fields": [
        {
          "short": true,
          "value": "100",
          "title": "Amazing Level"
        }
      ],
      "author_icon": "test",
      "image_url": "test",
      "author_name": "jasmit kakkar",
      "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"
    }
  ]
}
```

Screenshot of invoking Slack-interactive function with {"Hello": "COEN 241"} as input screenshot_5.png

slack-interactive

Status	Replicas	Invocation count
Ready	1	16

Image
docker.io/jasmitkakkar/slack-interactive:latest

Function process
python index.py

Invoke function

INVOKE

☐ Text ☒ JSON ☐ Download

Request body
{ "Hello": "COEN 241" }

Response status
200

Response body
{
 "attachments": [
 {
 "footer": "Slack Apps built on OpenFaas",
 "author_link": "https://github.com/Portabelle/coen241_hw2",
 "color": "#36a64f",
 "text": "Head over to COEN 241",
 "title": "COEN 241",
 "ts": 123456789,
 "author_name": "jasmit kakkar",
 "title_link": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/",
 "image_url": "https://www.scu.edu/media/offices/unc/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/45981/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/18435352?s=400&v=4"
 }
]
}