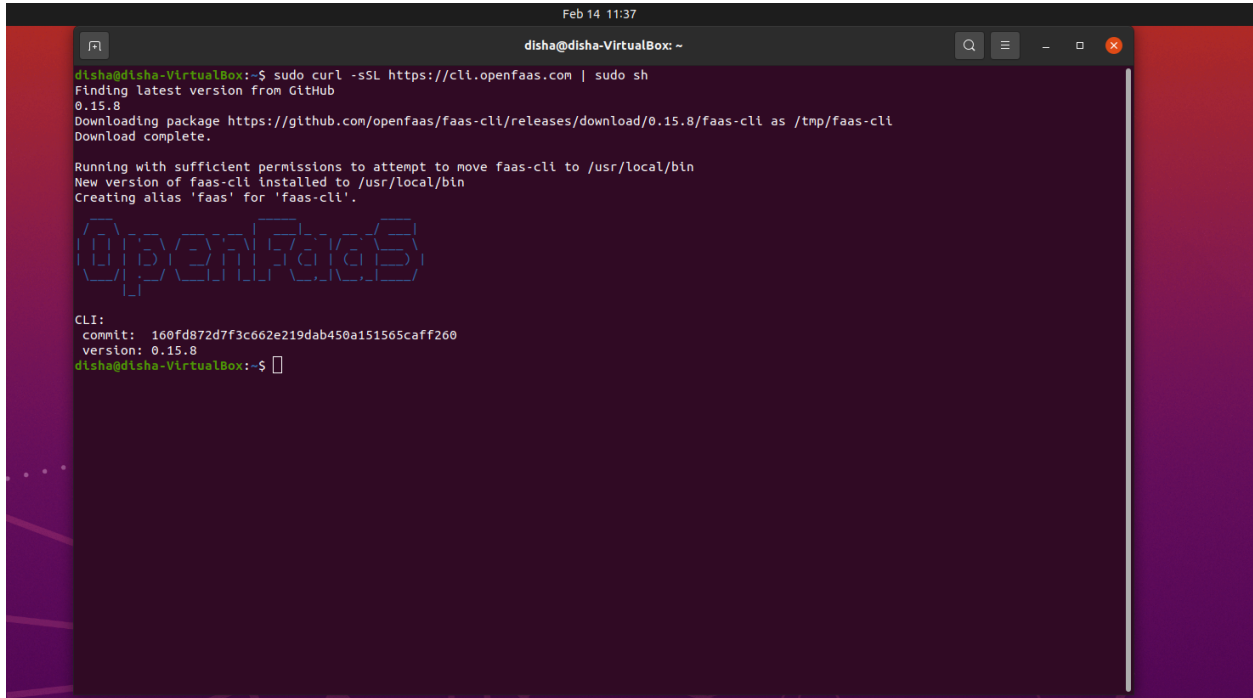


Your Own Serverless Infrastructure

OpenFaaS Installation

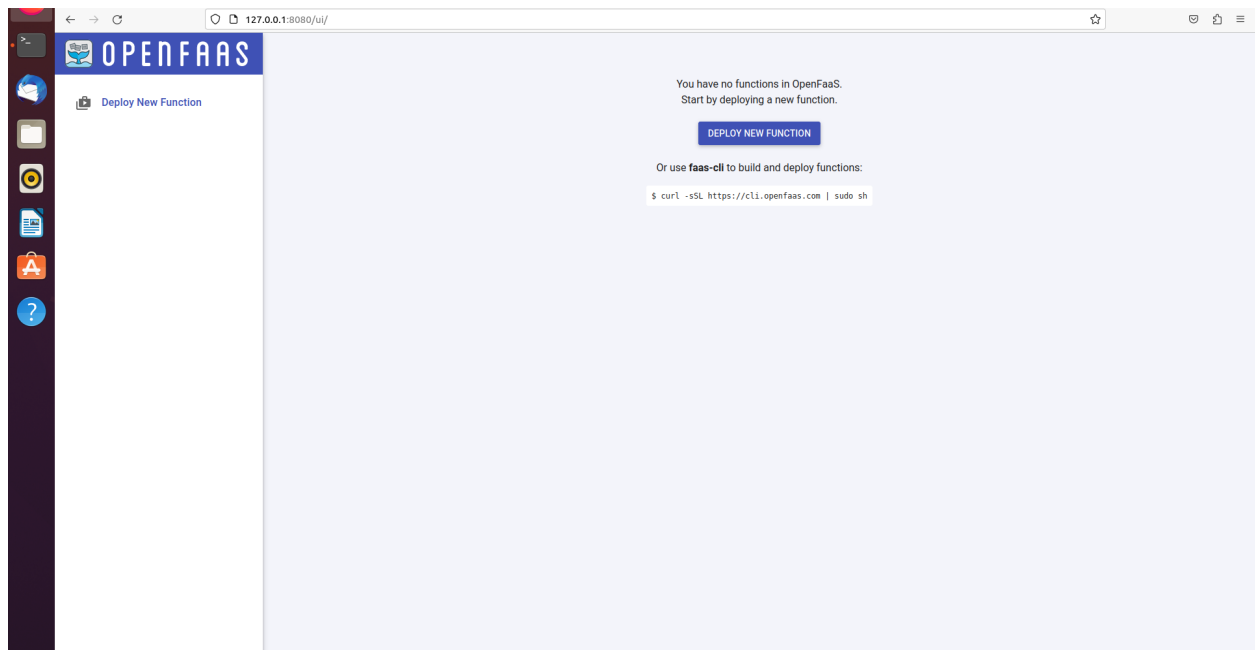


```
Feb 14 11:37
disha@disha-VirtualBox: ~
disha@disha-VirtualBox:~$ sudo curl -sSL https://cli.openfaas.com | sudo sh
Finding latest version from GitHub
0.15.8
Downloading package https://github.com/openfaas/faas-cli/releases/download/0.15.8/faas-cli as /tmp/faas-cli
Download complete.

Running with sufficient permissions to attempt to move faas-cli to /usr/local/bin
New version of faas-cli installed to /usr/local/bin
Creating alias 'faas' for 'faas-cli'.

OPENFAAS

CLI:
commit: 160fd872d7f3c662e219dab450a151565caff260
version: 0.15.8
disha@disha-VirtualBox:~$
```



OpenFaaS Login

```
Feb 14 11:41
disha@disha-VirtualBox: ~/faasd

disha@disha-VirtualBox:~/faasd$ sudo cat /var/lib/faasd/secrets/basic-auth-password | faas-cli

OpenFaaS

Manage your OpenFaaS functions from the command line

Usage:
  faas-cli [flags]
  faas-cli [command]

Available Commands:
  build      Builds OpenFaaS function containers
  completion Generates shell auto completion
  deploy     Deploy OpenFaaS functions
  describe   Describe an OpenFaaS function
  generate    Generate Kubernetes CRD YAML file
  help       Help about any command
  invoke     Invoke an OpenFaaS function
  list       List OpenFaaS functions
  login      Log in to OpenFaaS gateway
  logout     Log out from OpenFaaS gateway
  logs       Fetch logs for a functions
  namespaces List OpenFaaS namespaces
  new        Create a new template in the current folder with the name given as name
  plugin     Manage plugins
  publish    Builds and pushes multi-arch OpenFaaS container images
  push       Push OpenFaaS functions to remote registry (Docker Hub)
  registry-login Generate and save the registry authentication file
  remove     Remove deployed OpenFaaS functions
  secret     OpenFaaS secret commands
  store      OpenFaaS store commands
  template   OpenFaaS template store and pull commands
  up         Builds, pushes and deploys OpenFaaS function containers
  version    Display the clients version information

Flags:
  --filter string  Wildcard to match with function names in YAML file
  -h, --help       help for faas-cli
  --regex string   Regex to match with function names in YAML file
  -f, --yaml string Path to YAML file describing function(s)

Use "faas-cli [command] --help" for more information about a command.
disha@disha-VirtualBox:~/faasd$ login --username admin --password-stdin
```

Verify OpenFaaS Installation

```
Feb 14 11:42
disha@disha-VirtualBox: ~/faasd

disha@disha-VirtualBox:~/faasd$ sudo systemctl status faasd
● faasd.service - faasd
   Loaded: loaded (/lib/systemd/system/faasd.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-02-14 11:39:05 PST; 3min 26s ago
     Main PID: 9580 (faasd)
        Tasks: 9 (limit: 7395)
      Memory: 9.9M (limit: 500.0M)
     CGroup: /system.slice/faasd.service
            └─9580 /usr/local/bin/faasd up

Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "faasd-provider"="10.62.0.1"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "basic-auth-plugin"="10.62.0.2"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "nats"="10.62.0.3"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "prometheus"="10.62.0.4"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "gateway"="10.62.0.5"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "queue-worker"="10.62.0.6"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Looking up IP for: "prometheus"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.4)
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 faasd: waiting for SIGTERM or SIGINT
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.5)
disha@disha-VirtualBox:~/faasd$ sudo systemctl status faasd-provider
● faasd-provider.service - faasd-provider
   Loaded: loaded (/lib/systemd/system/faasd-provider.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-02-14 11:39:05 PST; 3min 39s ago
     Main PID: 9574 (faasd)
        Tasks: 7 (limit: 7395)
      Memory: 11.0M (limit: 500.0M)
     CGroup: /system.slice/faasd-provider.service
            └─9574 /usr/local/bin/faasd provider

Feb 14 11:39:05 disha-VirtualBox systemd[1]: Started faasd-provider.
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: 2023/02/14 11:39:05 faasd-provider starting..      Service Timeout: 1m0s
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: faasd version: 0.16.8-rc1      commit: 4d6b6dfdc5ccc827742dea4dff506e242b6745b
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: 2023/02/14 11:39:05 Writing network config...
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: 2023/02/14 11:39:05 Listening on TCP port: 8081
disha@disha-VirtualBox:~/faasd$
```

Logs for faasd

```
Feb 14 11:43
disha@disha-VirtualBox: ~/faasd

disha@disha-VirtualBox:~/faasd$ sudo journalctl -u faasd --lines 40
-- Logs begin at Fri 2023-02-03 11:31:56 PST, end at Tue 2023-02-14 11:43:10 PST. --
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:35 - gateway
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:35 - queue-worker
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: Starting: basic-auth-plugin
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:35 Created container: basic-auth-plugin
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:35 basic-auth-plugin has IP: 10.62.0.2
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:35 Task: basic-auth-plugin Container: basic-auth-plugin
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: Starting: nats
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: Creating local directory: /var/lib/faasd/nats
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:35 Running nats with user: "65534"
Feb 14 11:39:35 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:35 Created container: nats
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:36 nats has IP: 10.62.0.3
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:36 Task: nats Container: nats
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: Starting: prometheus
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: Creating local directory: /var/lib/faasd/prometheus
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:36 Running prometheus with user: "65534"
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:36 Created container: prometheus
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:36 prometheus has IP: 10.62.0.4
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:36 Task: prometheus Container: prometheus
Feb 14 11:39:36 disha-VirtualBox faasd[9580]: Starting: gateway
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Created container: gateway
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 gateway has IP: 10.62.0.5
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Task: gateway Container: gateway
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: Starting: queue-worker
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Created container: queue-worker
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 queue-worker has IP: 10.62.0.6
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Task: queue-worker Container: queue-worker
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Supervisor init done in: 32 seconds
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Looking up IP for: "gateway"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver rebuilding map
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "localhost"="127.0.0.1"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "faasd-provider"="10.62.0.1"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "basic-auth-plugin"="10.62.0.2"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "nats"="10.62.0.3"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "prometheus"="10.62.0.4"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "gateway"="10.62.0.5"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Resolver: "queue-worker"="10.62.0.6"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Looking up IP for: "prometheus"
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.4)
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 faasd: waiting for SIGTERM or SIGINT
Feb 14 11:39:37 disha-VirtualBox faasd[9580]: 2023/02/14 11:39:37 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.5)
disha@disha-VirtualBox:~/faasd$
```

```
Feb 14 11:43
disha@disha-VirtualBox: ~/faasd

disha@disha-VirtualBox:~/faasd$ sudo journalctl -u faasd-provider --lines 40
-- Logs begin at Fri 2023-02-03 11:31:56 PST, end at Tue 2023-02-14 11:43:29 PST. --
Feb 14 11:39:05 disha-VirtualBox systemd[1]: Started faasd-provider.
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: 2023/02/14 11:39:05 faasd-provider starting.. Service Timeout: 1m0s
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: faasd version: 0.16.8-rc1 commit: 4d6b6dfdc5ccc827742dea4dff506e242b67459b
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: 2023/02/14 11:39:05 Writing network config...
Feb 14 11:39:05 disha-VirtualBox faasd[9574]: 2023/02/14 11:39:05 Listening on TCP port: 8081
disha@disha-VirtualBox:~/faasd$
```

Logs for OpenFaaS services

```
disha@disha-VirtualBox:~/faasd$ sudo journalctl -t default:gateway --lines 40
-- Logs begin at Fri 2023-02-03 11:31:56 PST, end at Tue 2023-02-14 11:43:54 PST. --
-- No entries --
disha@disha-VirtualBox:~/faasd$ sudo journalctl -t default:nats --lines 40
-- Logs begin at Fri 2023-02-03 11:31:56 PST, end at Tue 2023-02-14 11:44:05 PST. --
-- No entries --
disha@disha-VirtualBox:~/faasd$ sudo journalctl -t default:queue-worker --lines 40
-- Logs begin at Fri 2023-02-03 11:31:56 PST, end at Tue 2023-02-14 11:44:15 PST. --
-- No entries --
disha@disha-VirtualBox:~/faasd$ sudo journalctl -t default:prometheus --lines 40
-- Logs begin at Fri 2023-02-03 11:31:56 PST, end at Tue 2023-02-14 11:44:24 PST. --
-- No entries --
```

Invoking the Figlet function

```
disha@disha-VirtualBox:~/faasd$ faas-cli store deploy figlet
Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/figlet

disha@disha-VirtualBox:~/faasd$ 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

disha@disha-VirtualBox:~/faasd$ echo "Hello, FaaS, world" | faas-cli invoke figlet
Hello, FaaS, world

disha@disha-VirtualBox:~/faasd$
```

The screenshot shows the OpenFaaS UI interface. On the left is a sidebar with the OpenFaaS logo and a list of functions: 'Deploy New Function', 'Search for Function', 'slack-interactive', 'slack-request', and 'figlet'. The main area displays details for the 'figlet' function, including its status ('Ready'), replicas (1), invocation count (4), image ('ghcr.io/openfaas/figlet:latest'), and URL ('http://127.0.0.1:8080/function/figlet'). Below this is an 'Invoke function' section with an 'INVOKE' button and radio buttons for 'Text' (selected), 'JSON', and 'Download'. The 'Request body' is 'OpenFaas Homework'. The response shows a status of 200, a round-trip time of 0.359s, and a response body containing ASCII art of the word 'figlet'.

slack-request/handler.py

```
import json
def handle(req):
    data = {
        "text": "Serverless Message",
        "attachments": [{
            "title": "COEN 241: Envisioning the limitless possibilities of
Cloud Computing",
            "fields": [{
                "title": "Exceptional Level",
                "value": "100",
                "short": True
            }],
            "author_name": "Disha Patel",
            "author_icon": "https://github.com/disha0909",
            "image_url":
"https://hub.docker.com/repository/docker/dpatel5/slack-request"
        },
        {
            "title": "About COEN 241",
            "text": "There is no class quite like COEN 241 -it's truly
exceptional!"
        },
        {
            "fallback": "Do you believe COEN 241 is a class that others
should take?",
            "title": "Do you believe COEN 241 is a class that others
should take?",
            "callback_id": "response123",
            "color": "#3AA3E3",
            "attachment_type": "default",
            "actions": [
                {
                    "name": "recommend",
                    "text": "Of Course!",
                    "type": "button",
                    "value": "recommend"
                }
            ],
            {
```

```

        "name": "definitely",
        "text": "Most Definitely!",
        "type": "button",
        "value": "definitely"
    }
]
}]
}
return json.dumps(data)

```

slack-interactive/handler.py

```

import json
import urllib

def handle(req):
    urlstring = urllib.unquote(req).decode('utf8').strip('payload=')
    response = json.loads(urlstring)
    data = {
        "attachments": [
            {
                "replace_original": True,
                "response_type": "ephemeral",
                "fallback": "Required plain-text summary of the
attachment.",
                "color": "#36a64f",
                "pretext": "You're in for a treat with COEN 241: it's
truly outstanding!",
                "author_name": "Disha Patel",
                "author_link":
"https://github.com/disha0909/COEN-241-Cloud-Computing",
                "author_icon": "https://github.com/disha0909",
                "title": "COEN 241",
                "title_link":
"https://www.scu.edu/engineering/academic-programs/department-of-computer-
engineering/graduate/course-descriptions/",
                "text": "Head over to COEN 241",

```

```

        "image_url":
"https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identit
y-amp-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.pn
g",
        "thumb_url":
"https://www.scu.edu/engineering/academic-programs/department-of-computer-
engineering/graduate/course-descriptions/",
        "footer": "Slack Apps built on OpenFaas",
        "footer_icon":
"https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256
.png",
        "ts": 123456789
    }
]
}
return json.dumps(data)

```

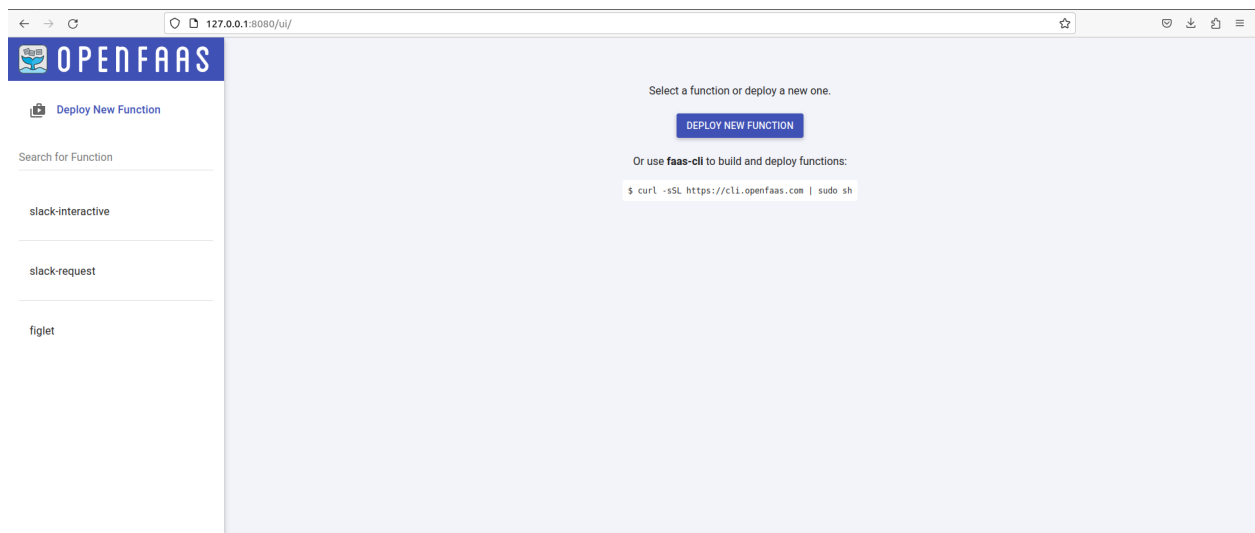
Screenshot of running the command: `sudo journalctl -u faasd --lines 40`

```

disha@disha-VirtualBox: ~/functions
disha@disha-VirtualBox:~/functions$ sudo journalctl -u faasd --lines 40
-- Logs begin at Fri 2023-02-03 11:31:56 PST, end at Tue 2023-02-14 14:39:00 PST. --
Feb 14 14:08:19 disha-VirtualBox faasd[638]: 2023/02/14 14:08:19 - gateway
Feb 14 14:08:19 disha-VirtualBox faasd[638]: 2023/02/14 14:08:19 - queue-worker
Feb 14 14:08:19 disha-VirtualBox faasd[638]: Starting: basic-auth-plugin
Feb 14 14:08:19 disha-VirtualBox faasd[638]: 2023/02/14 14:08:19 Created container: basic-auth-plugin
Feb 14 14:08:25 disha-VirtualBox faasd[638]: 2023/02/14 14:08:25 basic-auth-plugin has IP: 10.62.0.2
Feb 14 14:08:25 disha-VirtualBox faasd[638]: 2023/02/14 14:08:25 Task: basic-auth-plugin Container: basic-auth-plugin
Feb 14 14:08:25 disha-VirtualBox faasd[638]: Starting: nats
Feb 14 14:08:25 disha-VirtualBox faasd[638]: Creating local directory: /var/lib/faasd/nats
Feb 14 14:08:25 disha-VirtualBox faasd[638]: 2023/02/14 14:08:25 Running nats with user: "65534"
Feb 14 14:08:26 disha-VirtualBox faasd[638]: 2023/02/14 14:08:26 Created container: nats
Feb 14 14:08:27 disha-VirtualBox faasd[638]: 2023/02/14 14:08:27 nats has IP: 10.62.0.3
Feb 14 14:08:27 disha-VirtualBox faasd[638]: 2023/02/14 14:08:27 Task: nats Container: nats
Feb 14 14:08:27 disha-VirtualBox faasd[638]: Starting: prometheus
Feb 14 14:08:27 disha-VirtualBox faasd[638]: Creating local directory: /var/lib/faasd/prometheus
Feb 14 14:08:27 disha-VirtualBox faasd[638]: 2023/02/14 14:08:27 Running prometheus with user: "65534"
Feb 14 14:08:27 disha-VirtualBox faasd[638]: 2023/02/14 14:08:27 Created container: prometheus
Feb 14 14:08:28 disha-VirtualBox faasd[638]: 2023/02/14 14:08:28 prometheus has IP: 10.62.0.4
Feb 14 14:08:28 disha-VirtualBox faasd[638]: 2023/02/14 14:08:28 Task: prometheus Container: prometheus
Feb 14 14:08:28 disha-VirtualBox faasd[638]: Starting: gateway
Feb 14 14:08:28 disha-VirtualBox faasd[638]: 2023/02/14 14:08:28 Created container: gateway
Feb 14 14:08:29 disha-VirtualBox faasd[638]: 2023/02/14 14:08:29 gateway has IP: 10.62.0.5
Feb 14 14:08:29 disha-VirtualBox faasd[638]: 2023/02/14 14:08:29 Task: gateway Container: gateway
Feb 14 14:08:29 disha-VirtualBox faasd[638]: Starting: queue-worker
Feb 14 14:08:30 disha-VirtualBox faasd[638]: 2023/02/14 14:08:30 Created container: queue-worker
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 queue-worker has IP: 10.62.0.6
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Task: queue-worker Container: queue-worker
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Supervisor init done in: 13 seconds
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Looking up IP for: "gateway"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Looking up IP for: "prometheus"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver rebuilding map
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver: "localhost"="127.0.0.1"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver: "faasd-provider"="10.62.0.1"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver: "basic-auth-plugin"="10.62.0.2"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver: "nats"="10.62.0.3"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver: "prometheus"="10.62.0.4"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver: "gateway"="10.62.0.5"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Resolver: "queue-worker"="10.62.0.6"
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 faasd: waiting for SIGTERM or SIGINT
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.5)
Feb 14 14:08:31 disha-VirtualBox faasd[638]: 2023/02/14 14:08:31 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.4)
disha@disha-VirtualBox:~/functions$


```


Screenshot of OpenFaas gateway AFTER deploying figlet, slack-handler and slack-interactive functions



Invoking slack-request

```
disha@disha-VirtualBox: ~/functions
disha@disha-VirtualBox:~/functions$ curl -d '{"HW2":"Openfaas"}' http://127.0.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Exceptional Level"}], "author_icon": "https://github.com/disha0909", "image_url": "https://hub.docker.com/repository/docker/dpatel5/slack-request", "author_name": "Disha Patel", "title": "COEN 241: Envisioning the limitless possibilities of Cloud Computing"}, {"text": "There is no class quite like COEN 241 -it's truly exceptional!", "title": "About COEN 241"}, {"title": "Do you believe COEN 241 is a class that others should take?", "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": "Do you believe COEN 241 is a class that others should take?", "attachment_type": "default"}]}
disha@disha-VirtualBox:~/functions$ faas-cli invoke slack-request
Reading from STDIN - hit (Control + D) to stop.
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Exceptional Level"}], "author_icon": "https://github.com/disha0909", "image_url": "https://hub.docker.com/repository/docker/dpatel5/slack-request", "author_name": "Disha Patel", "title": "COEN 241: Envisioning the limitless possibilities of Cloud Computing"}, {"text": "There is no class quite like COEN 241 -it's truly exceptional!", "title": "About COEN 241"}, {"title": "Do you believe COEN 241 is a class that others should take?", "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": "Do you believe COEN 241 is a class that others should take?", "attachment_type": "default"}]}
disha@disha-VirtualBox:~/functions$
```


 **OPENFAAS**

 **Deploy New Function**

Search for Function

slack-request

figlet

slack-interactive

slack-request

| Status | Replicas | Invocation count |
|--------|----------|------------------|
| Ready | 1 | 7 |

Image

docker.io/dpatel5/slack-request:latest

URL

http://127.0.0.1:8080/function/slack-request

Function process

python index.py

Invoke function

INVOKE

☒ Text ☐ JSON ☐ Download

Request body

"Hi"

Response status

200

Round-trip (s)

0.858

Response body

```
{
  "text": "Serverless Message",
  "attachments": [
    {
      "fields": [
        {
          "short": true,
          "value": "100",
          "title": "Exceptional Level"
        }
      ]
    }
  ],
  "author_icon": "https://github.com/disha0909",
  "image_url": "https://hub.docker.com/repository/docker/dpatel5/slack-request",
  "author_name": "Disha Patel",
  "title": "COEN 241: Envisioning the limitless possibilities of Cloud Computing"
},
{
```

Invoking slack-interactive

```
disha@disha-VirtualBox: ~/functions
disha@disha-VirtualBox:~/Functions$ faas-cli invoke slack-interactive
Reading from STDIN - hit (Control + D) to stop.
"Heyy"
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/disha0909/COEN-241-Cloud-Computing", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "Disha Patel", "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/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "pretext": "You're in for a treat with COEN 241: it's truly outstanding!", "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/disha0909"}]}
disha@disha-VirtualBox:~/functions$
```

