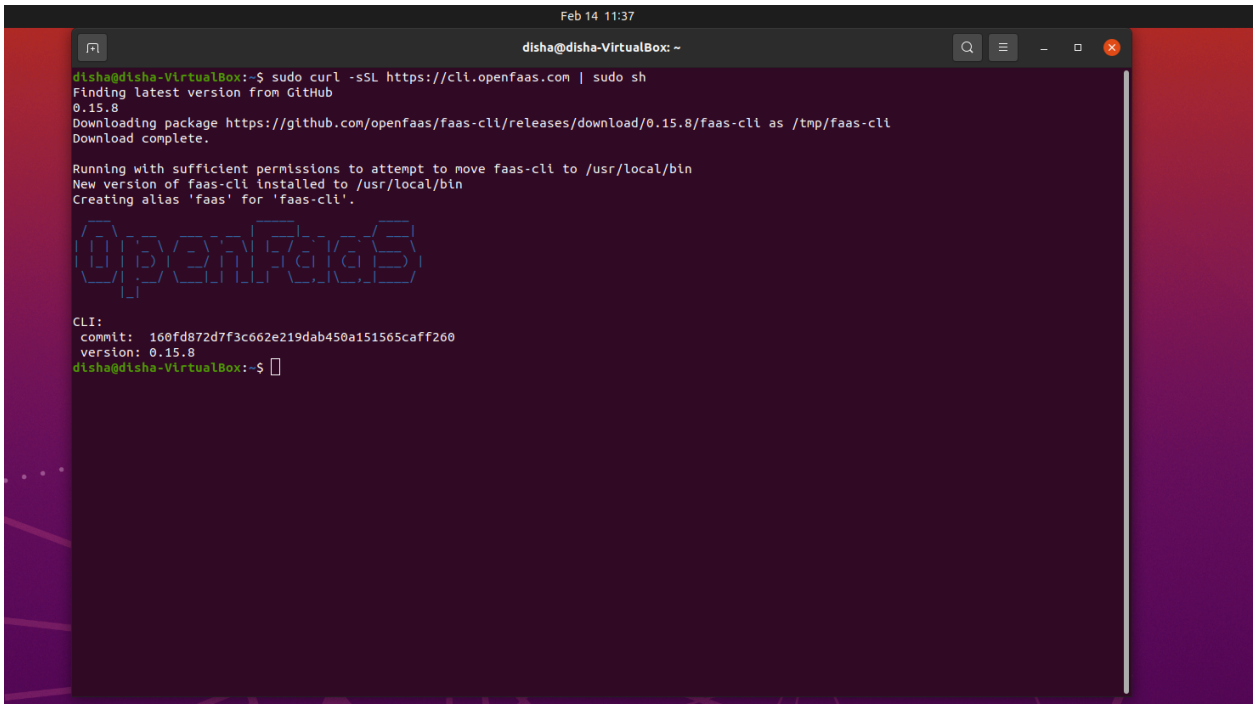
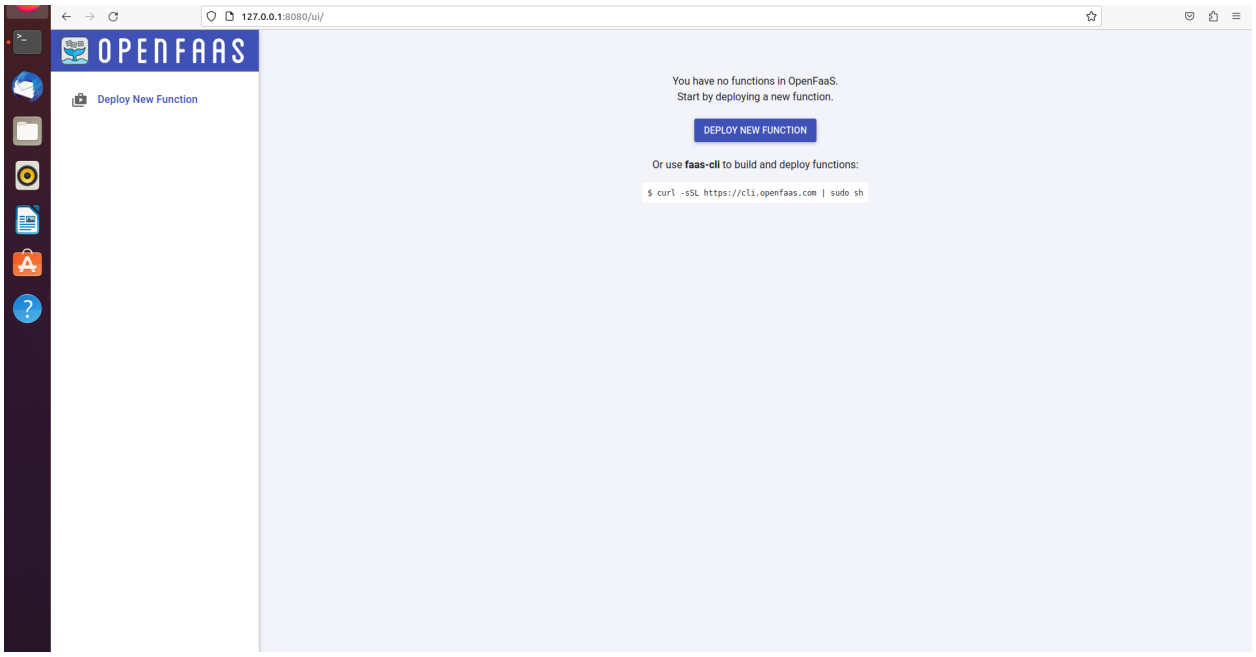
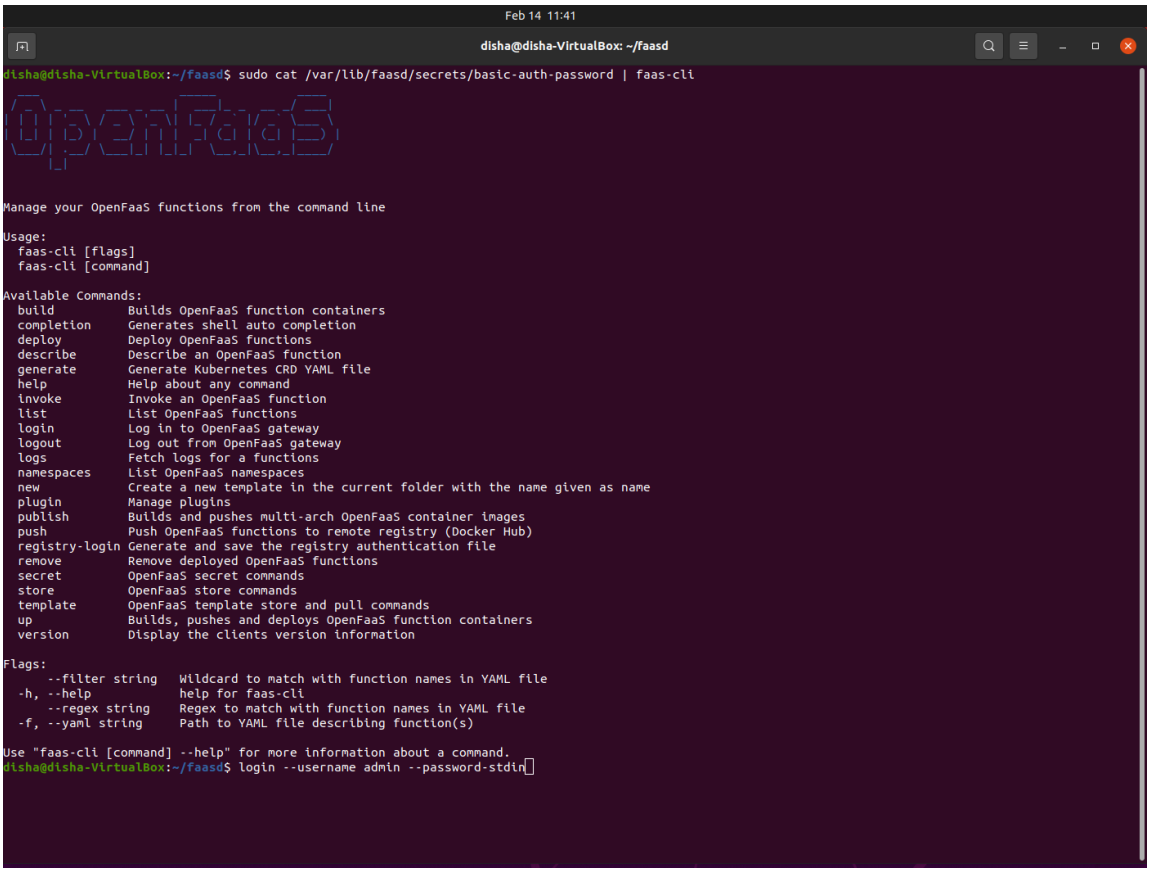
Your Own Serverless Infrastructure

OpenFaaS Installation

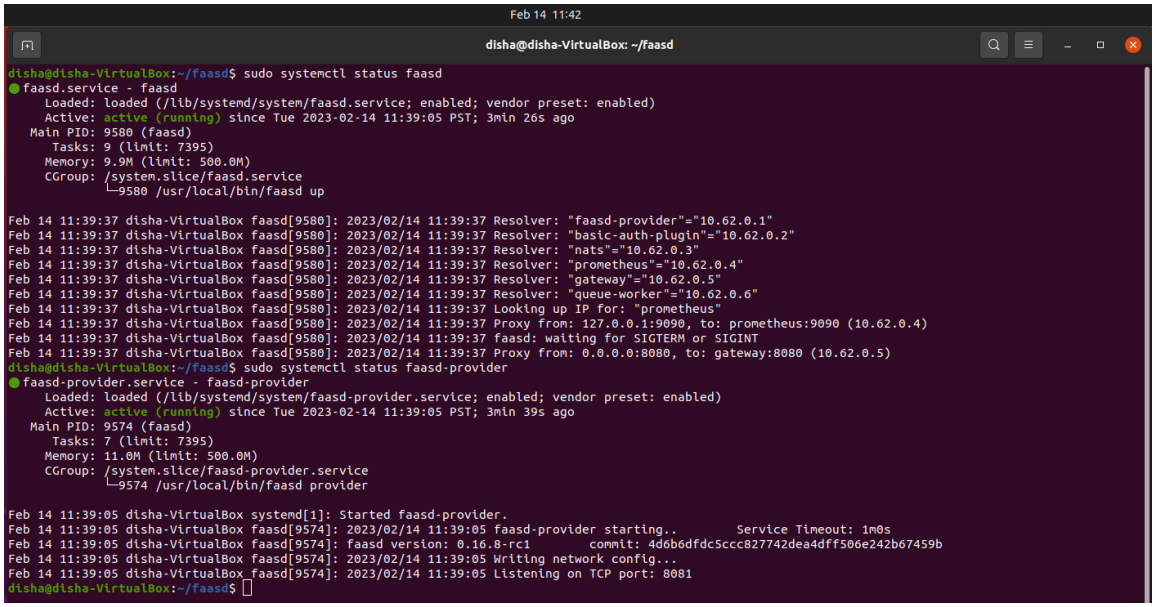




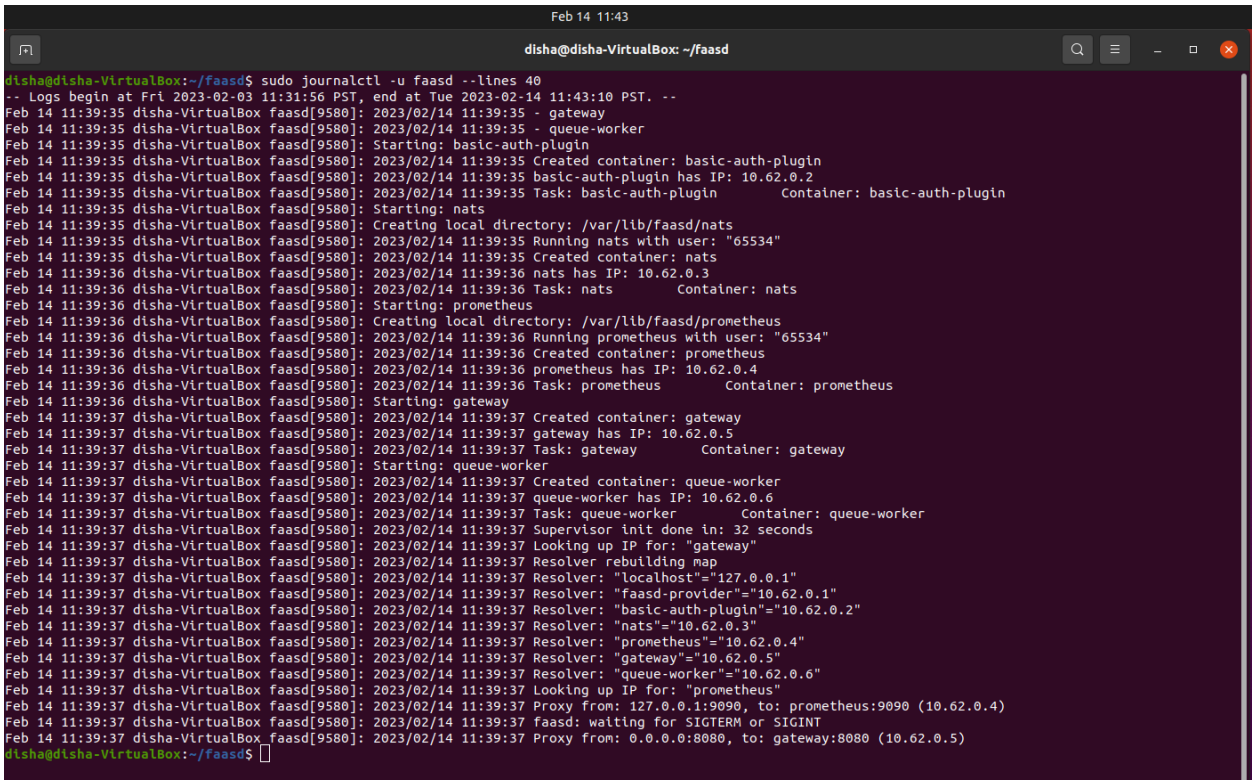
OpenFaaS Login

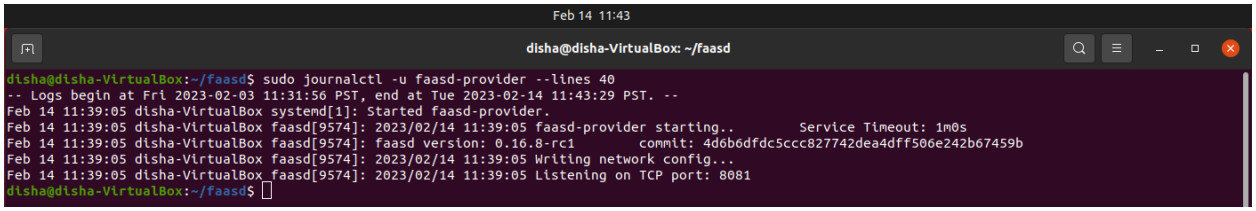


Verify OpenFaaS Installation

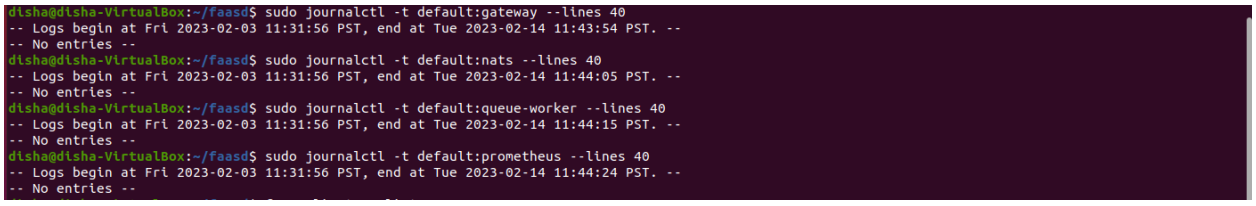


Logs for faasd



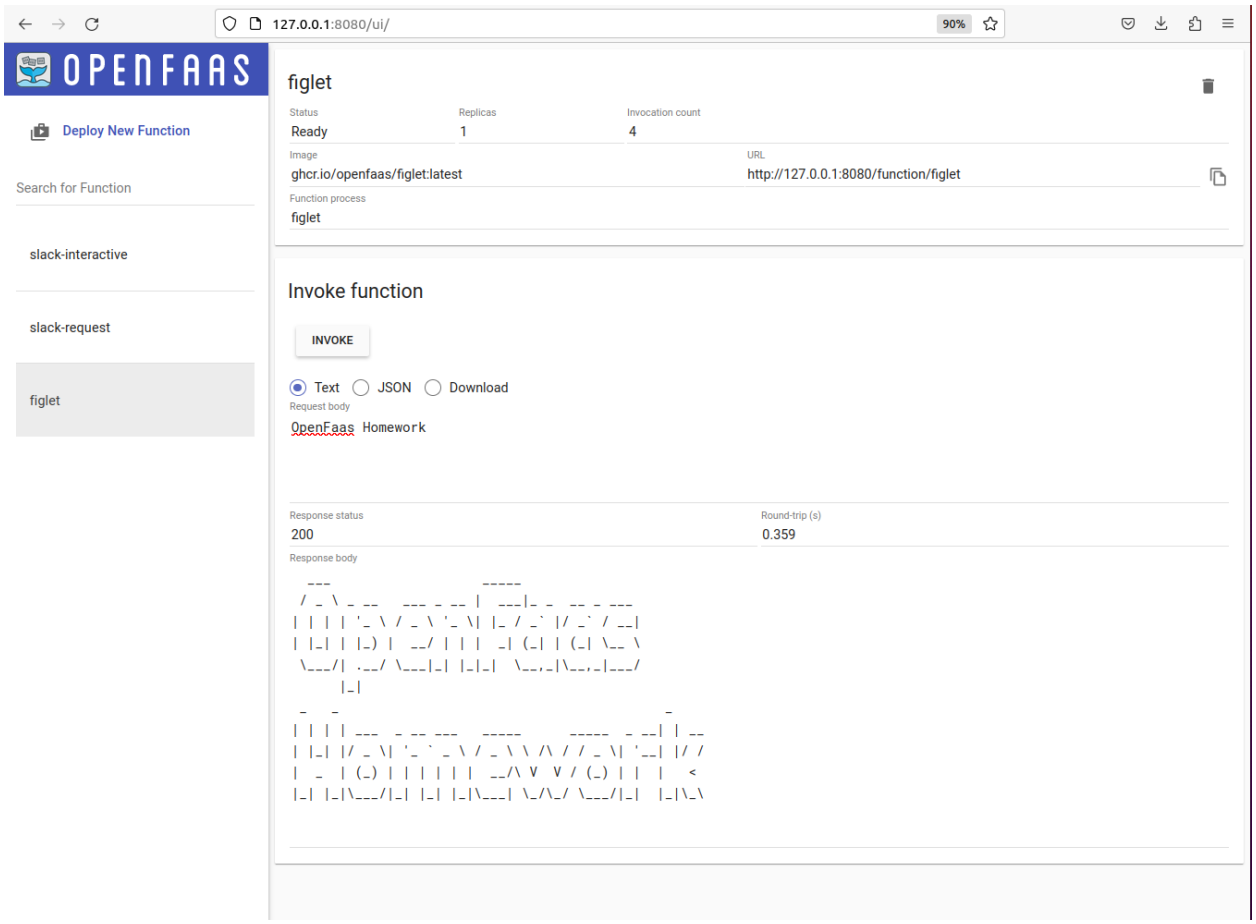


Logs for OpenFaaS services



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
 _   _      _ _        _____                 ____                                 _     _
| | | | ___| | | ___  |  ___|_ _  __ _ ___  / ___|  ___  _ __ ___   _____      _| | __| |
| |_| |/ _ \ | |/ _ \ | |_ / _` |/ _` / __| \___ \ / _ \| '_ ` _ \ / _ \ \ /\ / / _ \| '__| |/ _` |
|  _  |  __/ | | (_) | |  _| (_| | (_| \__ \  ___) | (_) | | | | | |  __/\ V  V /| (_) | |  | | (_| |
|_| |_|\___|_|_|\___( ) |_|  \__,_|\__,_|___( )____/ \___/|_| |_| |_|\___| \_/\_/  \___/|_|  |_|\__,_|
                    |/                      |/
disha@disha-VirtualBox:~/faasd$
```



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"
                },
                {
```

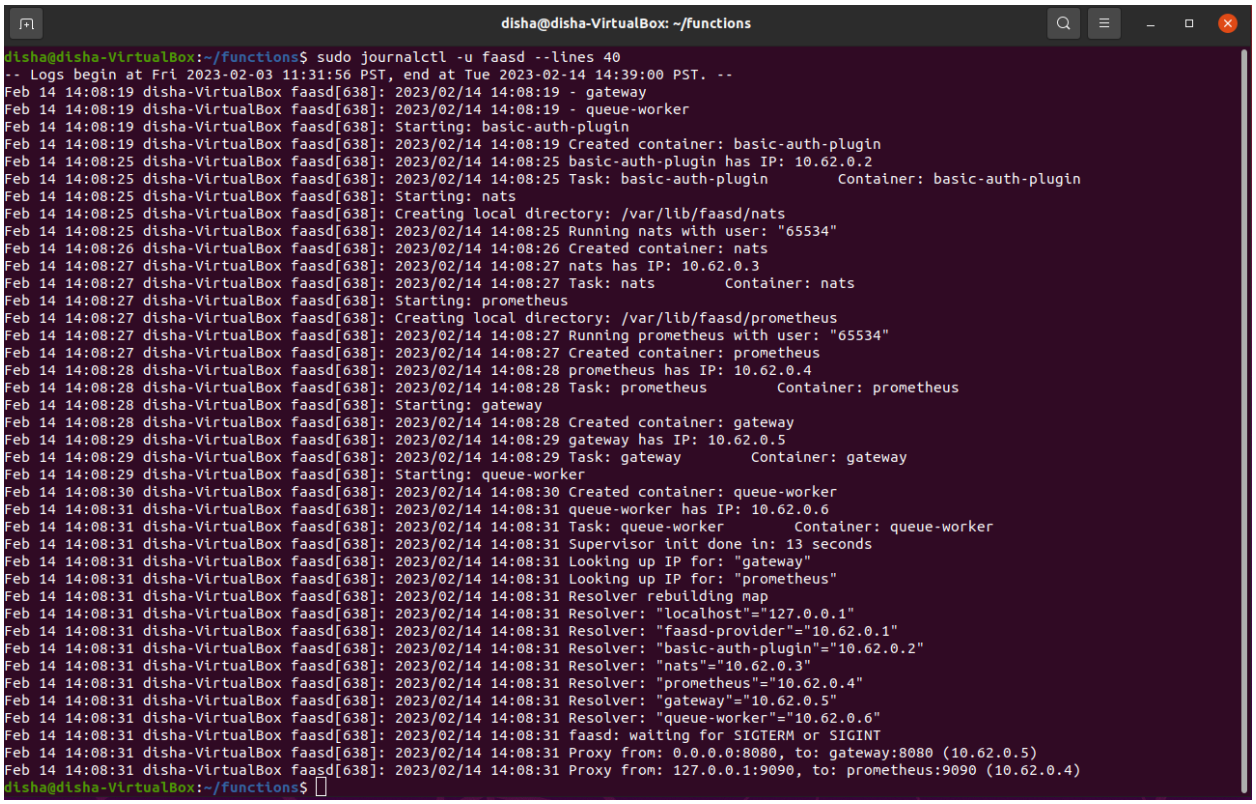
```
                    "name": "definitely",
                    "text": "Most Definitely!",
                    "type": "button",
                    "value": "definitely"
                }
            ]
        }]
    }
    return json.dumps(data)
```

slack-interactive/handler.py

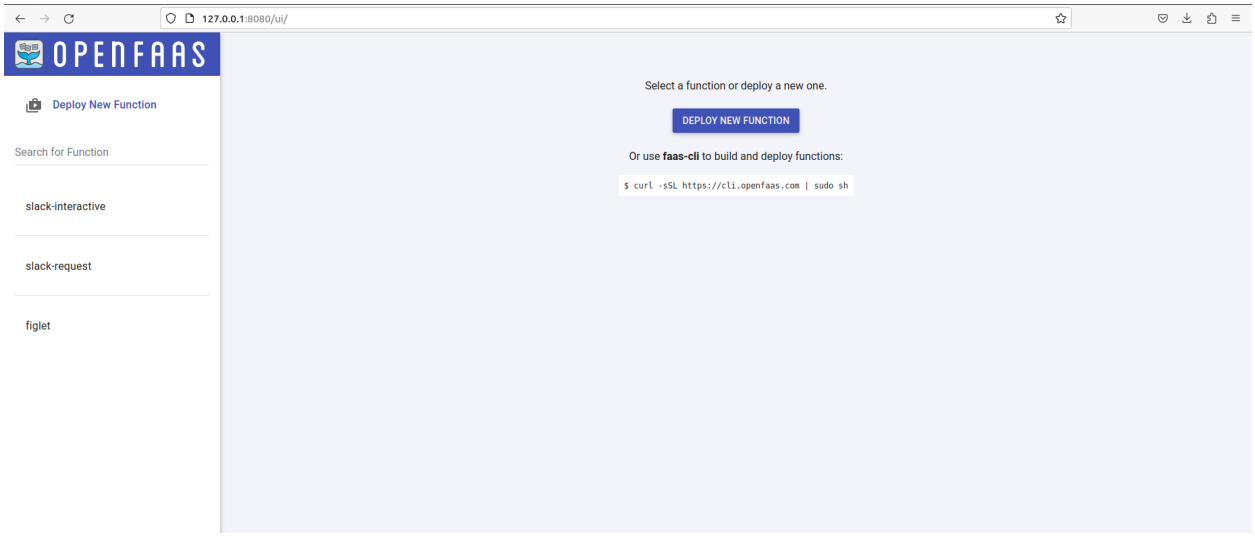
```
import json
import urllib

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)
```

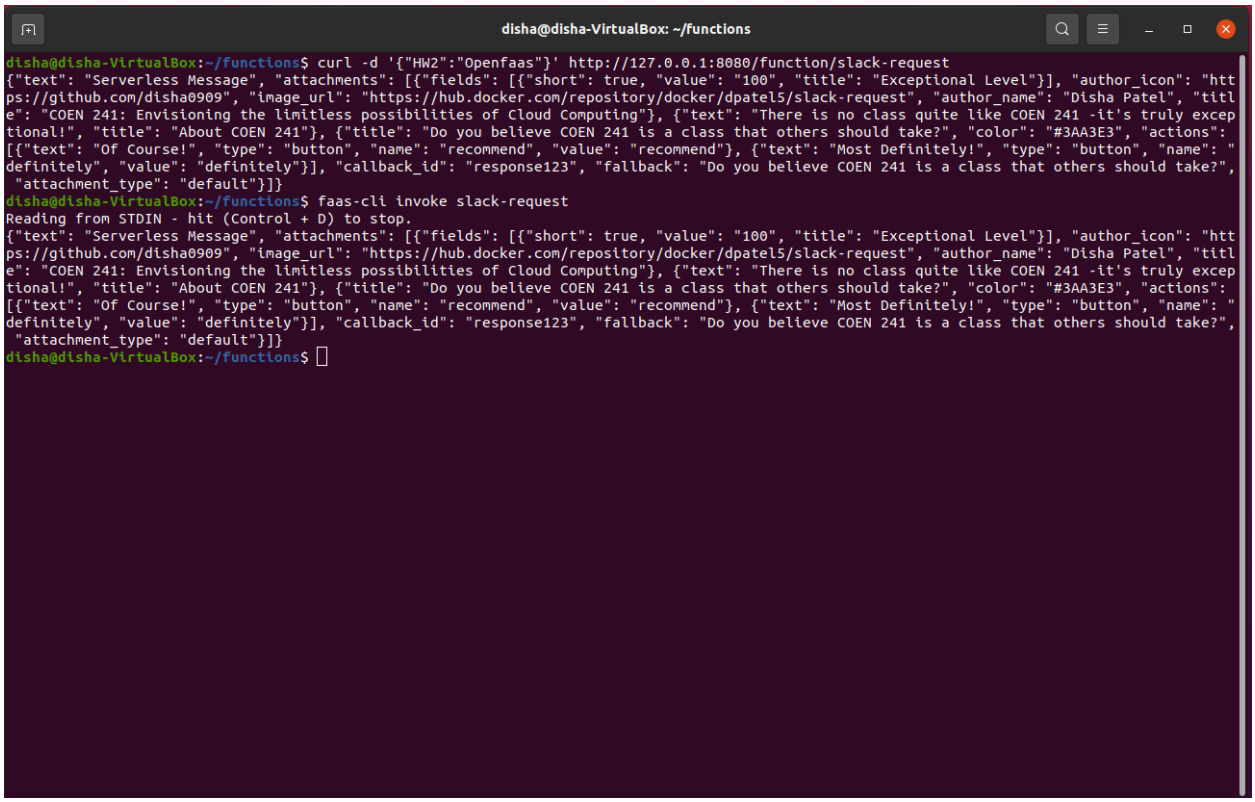
Screenshot of running the command: sudo journalctl -u faasd --lines 40

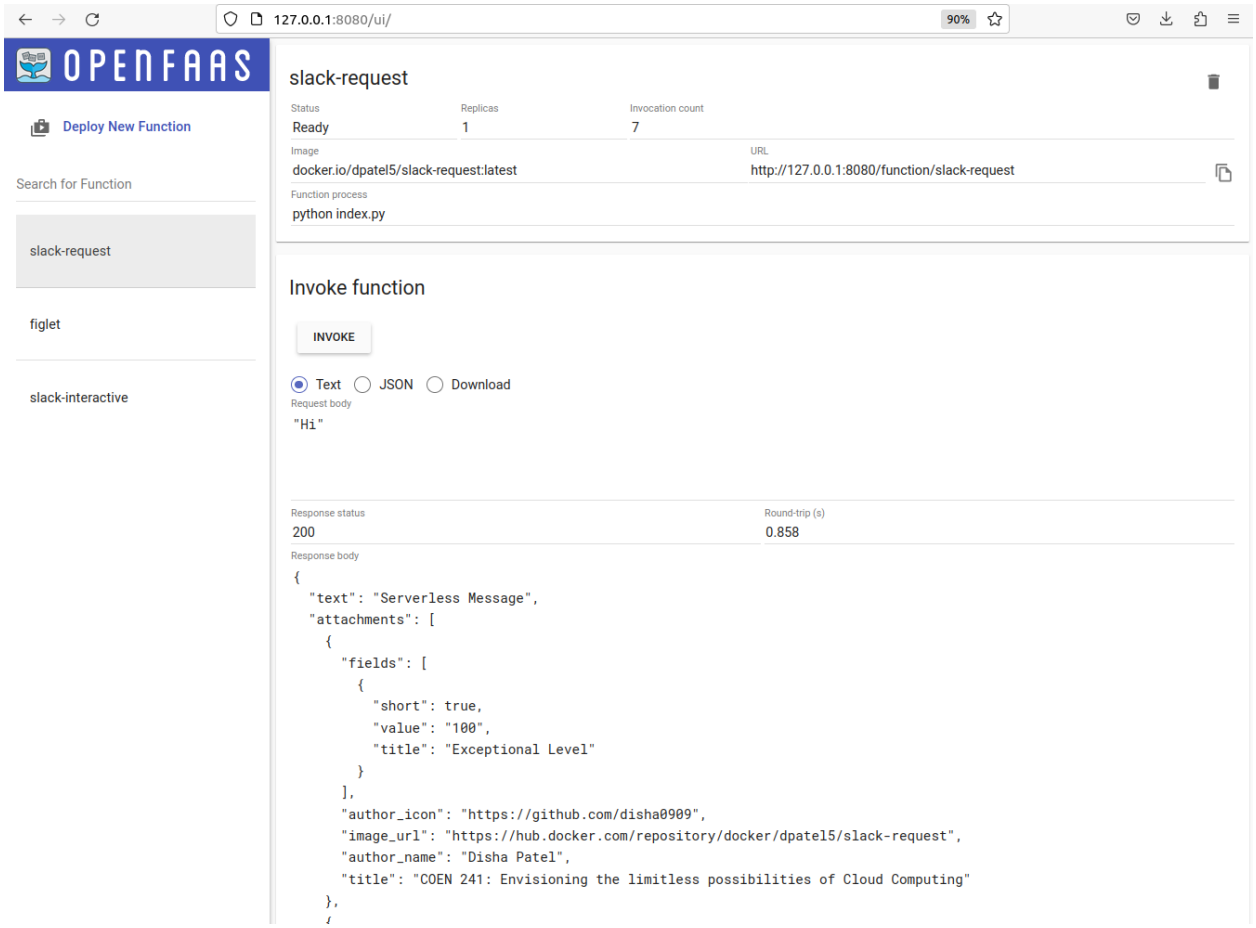


Screenshot of OpenFaas gateway AFTER deploying figlet, slack-handler and slack-interactive functions

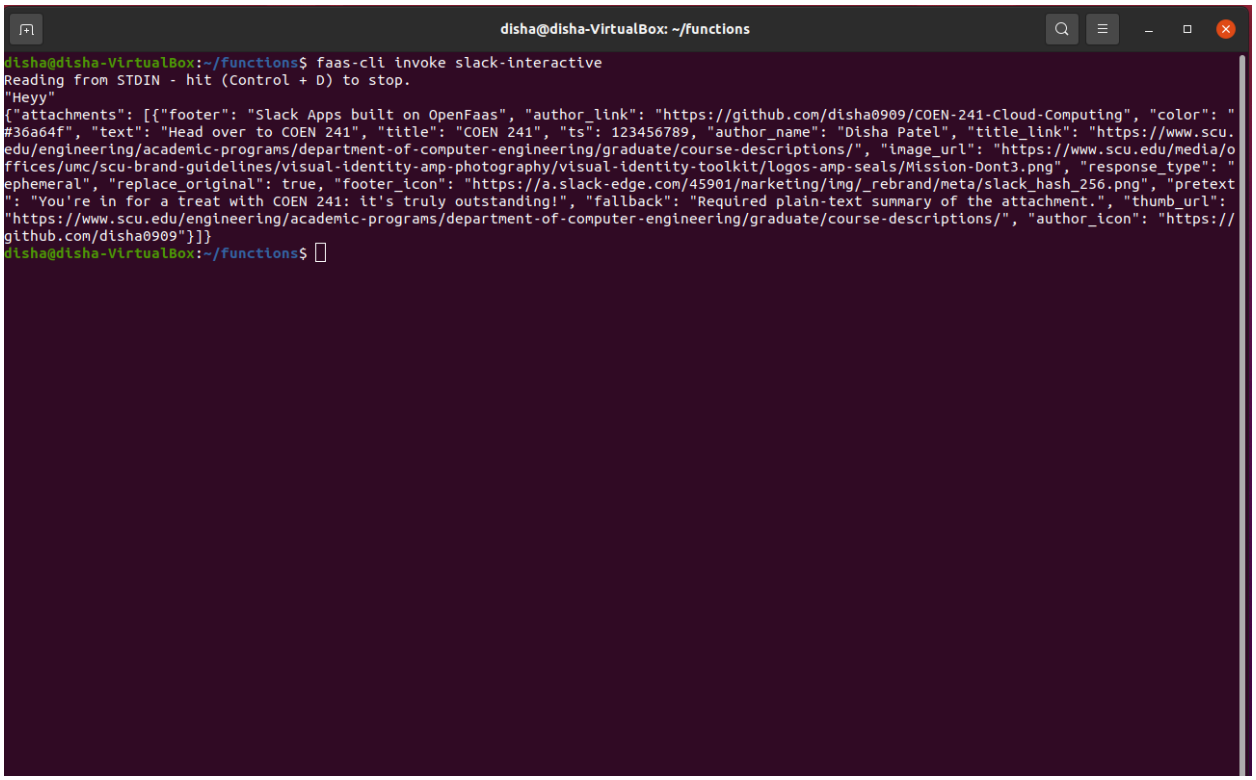


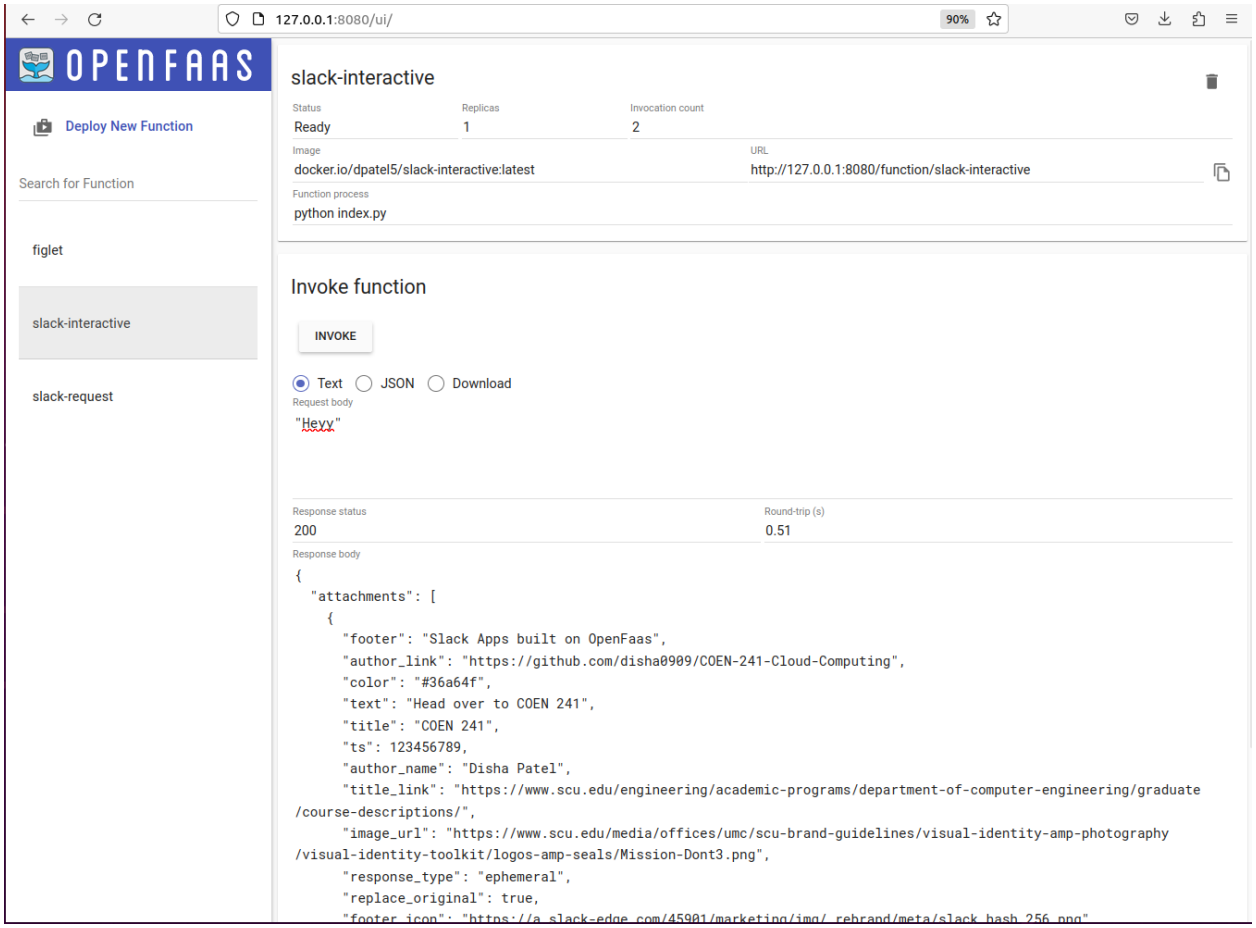
Invoking slack-request




127.0.0.1:8080/ui/
90%
OPENFAAS
Deploy New Function
Search for Function
slack-request
figlet
slack-interactive
slack-request
Status
Ready
Replicas
1
Invocation count
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




127.0.0.1:8080/ui/
90%
OPENFAAS
Deploy New Function
Search for Function
figlet
slack-interactive
slack-request
slack-interactive
Status
Ready
Replicas
1
Invocation count
2
Image
docker.io/dpatel5/slack-interactive:latest
URL
http://127.0.0.1:8080/function/slack-interactive
Function process
python index.py
Invoke function
INVOKE
Text
JSON
Download
Request body
"Hevy"
Response status
200
Round-trip (s)
0.51
Response body
{
"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/umc/scu-brand-guidelines/visual-identity-amp-photography
/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png",
"response_type": "ephemeral",
"replace_original": true,