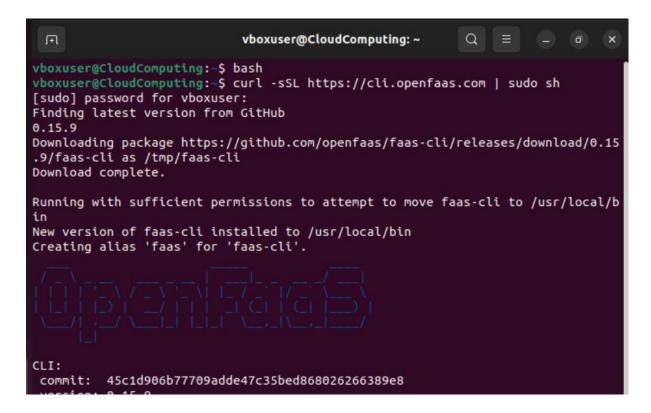
### 1. Installed OpenFaas



### 2. Deploy and invoked the figlet function:

Deployed a function called figlet from the OpenFaas store. First, I executed the command faas-cli store deploy figlet.

After this, I invoked figlet and print some ASCII characters. echo "Hello, FaaS world" | faas-cli invoke figlet

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

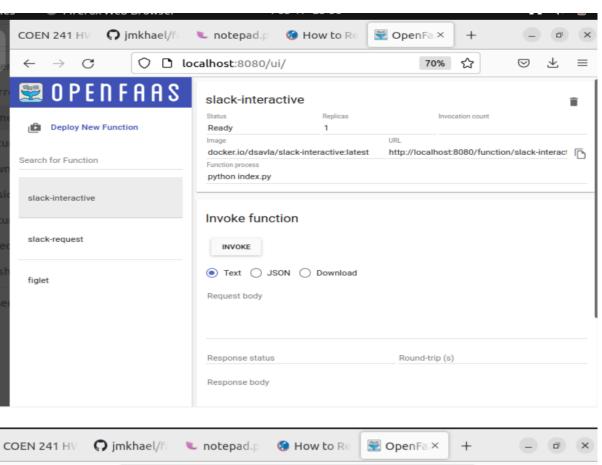
## 3. Screenshot of running the command: sudo journalctl -u faasd --lines 40

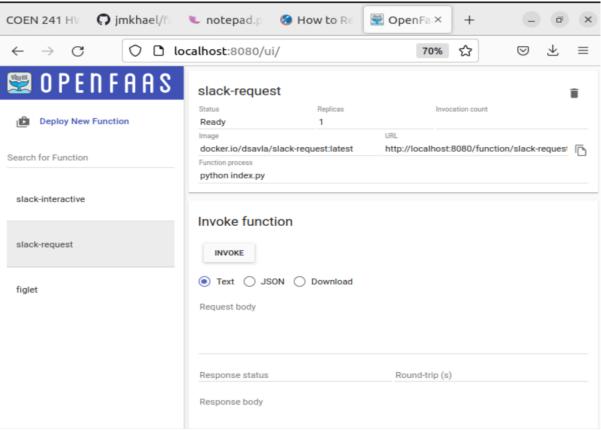
The above command is used to print logs to check whether Faasd is running or not. Here using this command we print 40 lines of the log.

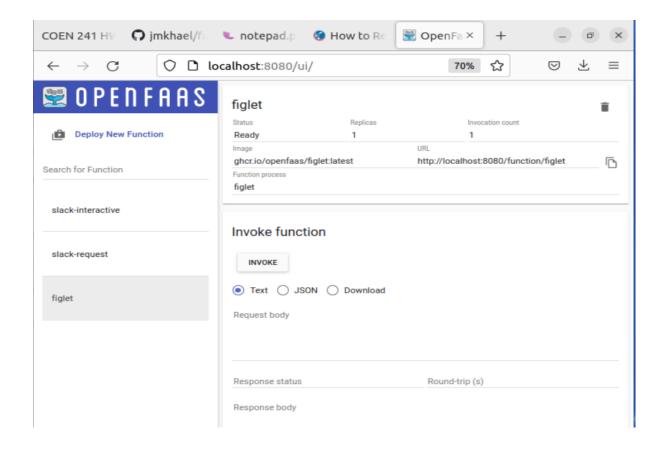
```
Feb 17 15:37:53 CloudComputing faasd[676]: 2023/02/17 15:37:53 - prometheus
Feb 17 15:37:53 CloudComputing faasd[676]: 2023/02/17 15:37:53 - gateway
Feb 17 15:37:53 CloudComputing faasd[676]: Creating local directory: /var/lib/faasd/nats
Feb 17 15:37:53 CloudComputing faasd[676]: Creating local directory: /var/lib/faasd/nats
Feb 17 15:37:53 CloudComputing faasd[676]: 2023/02/17 15:37:53 Running nats with user: "65534"
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:53 Running nats with user: "65534"
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task nats
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task nats
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task: nats
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Created container: queue-worker
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task: nats
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task: nats
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task: nats
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task: nate
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:55 Task: nate
Feb 17 15:37:55 CloudComputing faasd[676]: 2023/02/17 15:37:56 Task: nating-unit-plugin
Feb 17 15:37:56 CloudComputing faasd[676]: 2023/02/17 15:37:56 Task: natin-plugin has IP: 10.62.0.4
Feb 17 15:37:56 CloudComputing faasd[676]: 2023/02/17 15:37:56 Task: natin-plugin Container: basic-auth-plugin
Feb 17 15:37:56 CloudComputing faasd[676]: 2023/02/17 15:37:56 Task: natin-plugin Container: prometheus
Feb 17 15:37:57 CloudComputing faasd[676]: 2023/02/17 15:37:56 Task: natin-plugin Container: prometheus
Feb 17 15:37:57 CloudComputing faasd[676]: 2023/02/17 15:37:57 Task: prometheus with user: "65534"
Feb 17 15:37:57 CloudComputing faasd[676]: 2023/02/17 15:37:57 Task: prometheus
Feb 17 15:37:57 CloudComputing faasd[676]: 2023/02/17 15:37:57 Task: prometheus
Feb 17 15:37:57 CloudComputing faasd[676]: 2023/02/17 15:37:57 Task: prometheu
```

# 4. <u>Screenshot of your OpenFaaS gateway AFTER deploying figlet, slack-handler</u> and slack-interactive functions.

The below screenshots verifies that the three functions have been deployed in the cluster.







## 5. Screenshot of invoking slack-request and slack-interactive functions

Here, I invoked the slack-request and slack-interactive functions via both curl and faas-cli and get the output as shown below.

### Slack-request:

```
handler.py
  Open ~
           J+1
                                                       Save
                                                              \equiv
                                ~/functions/slack-request
               temp_CC.txt
                                                        handler.py
 1 import json
 3 def handle(req):
 4
      data = {
 5
           "text": "Serverless Message",
          "attachments": [{
 6
              "title": "The Awesome world of Cloud Computing! COEN 241",
 7
 8
              "fields": [{
                  "title": "Amazing Level",
 9
                  "value": "100",
10
                  "short": True
11
              12
13
14
  123166817",
15
              "image_url": "https://avatars.githubusercontent.com/u/123166817"
16
          },
17
          {
              "title": "About COEN 241",
18
              "text": "COEN 241 is the most awesome class ever!."
19
20
          },
21
              "fallback": "Would you recommend COEN 241 to your friends?",
22
              "title": "Would you recommend COEN 241 to your friends?",
23
              "callback_id": "response123",
24
```

#### Slack-interactive:

```
*handler.py
  Open ~
                                                            Save
                                                                   \equiv
            1+1
                                 ~/functions/slack-interactive
         temp_CC.txt
                                       handler.py
                                                                   *handler.py
 7
       data = {
 8
           "attachments": [
 9
               {
                    "replace_original": True,
"response_type": "ephemeral",
10
11
                    "fallback": "Required plain-text summary of the attachment.",
12
                    "color": "#36a64f",
13
14
                    "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely
  amazing!",
                    "author_name": "DeepSavla",
15
                    "author link": "https://github.com/DeepSavla/Cloud-
16
   Computing.git",
17
                    "author icon": "https://avatars.githubusercontent.com/u/
   123166817"S,
                    "title": "COEN 241",
18
19
                    "title_link": "https://www.scu.edu/engineering/academic-
  programs/department-of-computer-engineering/graduate/course-descriptions/",
                    "text": "Head over to COEN 241",
20
                    "image_url": "https://www.scu.edu/media/offices/umc/scu-
21
  brand-guidelines/visual-identity-amp-photography/visual-identity-toolkit/
   logos-amp-seals/Mission-Dont3.png",
22
                    "thumb_url": "https://www.scu.edu/engineering/academic-
  programs/department-of-computer-engineering/graduate/course-descriptions/",
                    "footer": "Slack Apps built on OpenFaas",
23
                    "footer_icon": "https://a.slack-edge.com/45901/marketing/img/
24
    rehrand/meta/slack hash 256 nng"
                                 Python 2 V Tah Width: 8 V In 17 Col 84 V INS
```