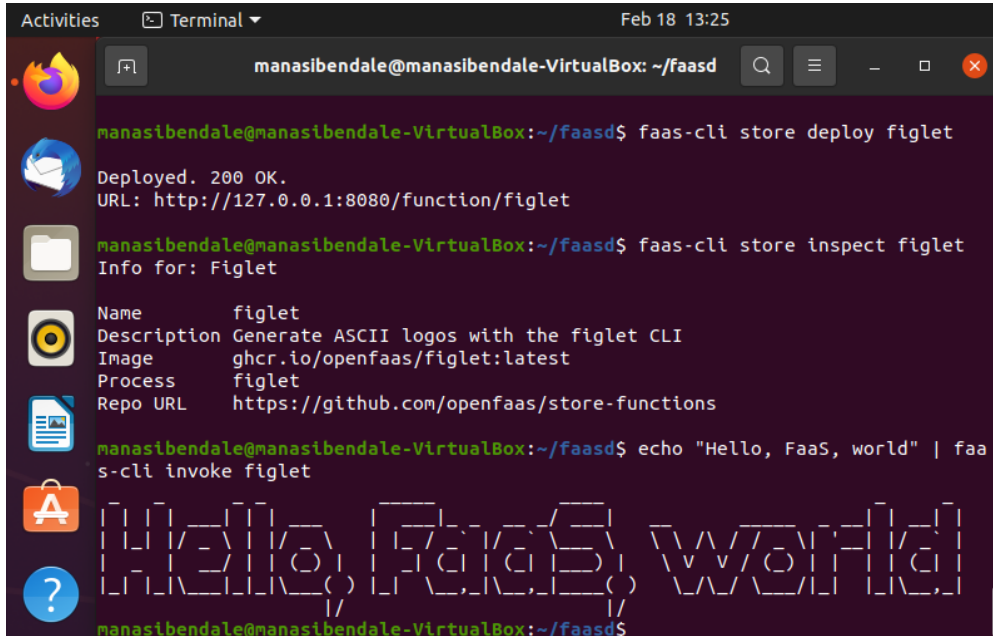


COEN241: Assignment 2 Step 7 tasks

1. Provide a screenshot of invoking the figlet function (10 pts)



The screenshot shows a terminal window with the following commands and output:

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

manasibendale@manasibendale-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

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

2. Complete slack-request/handler.py (20 pt)

```
import json
```

```
def handle(req):
```

```
    data = {
```

```
        "text": "Serverless Message",
```

```
        "attachments": [{
```

```
            "title": "The Awesome world of Cloud Computing! COEN 241",
```

```
            "fields": [{
```

```
                "title": "Amazing Level",
```

```
                "value": "100",
```

```
                "short": True
```

```
            }],
```

```
            "author_name": "Manasi Bendale",
```

```
            "author_icon": "",
```

```
            "image_url": "https://github.com/ManasiBendale.png"
```

```
        },
```

```
        {
```

```
            "title": "About COEN 241",
```

```
            "text": "COEN 241 is the most awesome class ever!."
```

```
    },
```

```

{
    "fallback": "Would you recommend COEN 241 to your friends?",
    "title": "Would you recommend COEN 241 to your friends?",
    "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)

```

3. Complete slack-interactive/handler.py (20 pt)

```

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": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!",
        "author_name": "",
        "author_link": "https://github.com/ManasiBendale/cloud-computing.git",
        "author_icon": "https://github.com/ManasiBendale.png",
        "title": "COEN 241",
        "title_link":
"https://www.scu.edu/engineering/academic-programs/department-of-computer-enginee
ring/graduate/course-descriptions/",
        "text": "Head over to COEN 241",
        "image_url":
"https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-phot
ography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png",
        "thumb_url":
"https://www.scu.edu/engineering/academic-programs/department-of-computer-enginee
ring/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)

```

4. Provide a screenshot of running the following command (10 pts)

```
sudo journalctl -u faasd --lines 40
```

```
manasibendale@manasibendale-VirtualBox: ~/functions
URL: http://127.0.0.1:8080/function/slack-request

manasibendale@manasibendale-VirtualBox:~/functions$ sudo journalctl -u faasd --
lines 40
-- Logs begin at Sat 2023-02-18 12:38:07 PST, end at Sat 2023-02-18 15:35:47 P
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:13:59 - ga
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:13:59 - qu
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: Starting: basic-auth-plu
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:13:59 Crea
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 basi
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 Task
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: Starting: nats
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: Creating local directory
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 Runn
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 Crea
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 nats
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 Task
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: Starting: prometheus
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: Creating local directory
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 Runn
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 Crea
Feb 18 13:14:02 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:02 prom
Feb 18 13:14:02 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:02 Task
Feb 18 13:14:02 manasibendale-VirtualBox faasd[6566]: Starting: gateway
Feb 18 13:14:02 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:02 Crea
Feb 18 13:14:03 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:03 gate
lines 1-22...skipping...
-- Logs begin at Sat 2023-02-18 12:38:07 PST, end at Sat 2023-02-18 15:35:47 P
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:13:59 - ga
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:13:59 - qu
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: Starting: basic-auth-plu
Feb 18 13:13:59 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:13:59 Crea
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 basi
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 Task
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: Starting: nats
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: Creating local directory
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 Runn
Feb 18 13:14:00 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:00 Crea
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 nats
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 Task
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: Starting: prometheus
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: Creating local directory
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 Runn
Feb 18 13:14:01 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:01 Crea
Feb 18 13:14:02 manasibendale-VirtualBox faasd[6566]: 2023/02/18 13:14:02 prom
```

5. Provide a screenshot of your OpenFaaS gateway AFTER deploying figlet, slack-handler and slack-interactive functions (10 pts)

Activities Firefox Web Browser Feb 18 16:01

OpenFaaS Portal

127.0.0.1:8080/ui/

OPENFAAS

Deploy New Function

Search for Function

- slack-interactive
- slack-request
- figlet

figlet

Status	Replicas	Invocation count
Ready	1	1

Image: ghcr.io/openfaas/figlet:latest URL: http://127.0.0.1:8080/function/figlet

Function process: figlet

Invoke function

INVOKE

☒ Text ☐ JSON ☐ Download

Request body

Response status Round-trip (s)

Response body

Activities Firefox Web Browser Feb 18 16:15

OpenFaaS Portal

127.0.0.1:8080/ui/

OPENFAAS

Deploy New Function

Search for Function

- slack-request
- figlet
- slack-interactive

slack-interactive

Status	Replicas	Invocation count
Ready	1	2

Image: docker.io/manasibendale/slack-interactive:latest URL: http://127.0.0.1:8080/function/slack-interactive

Function process: python index.py

Invoke function

INVOKE

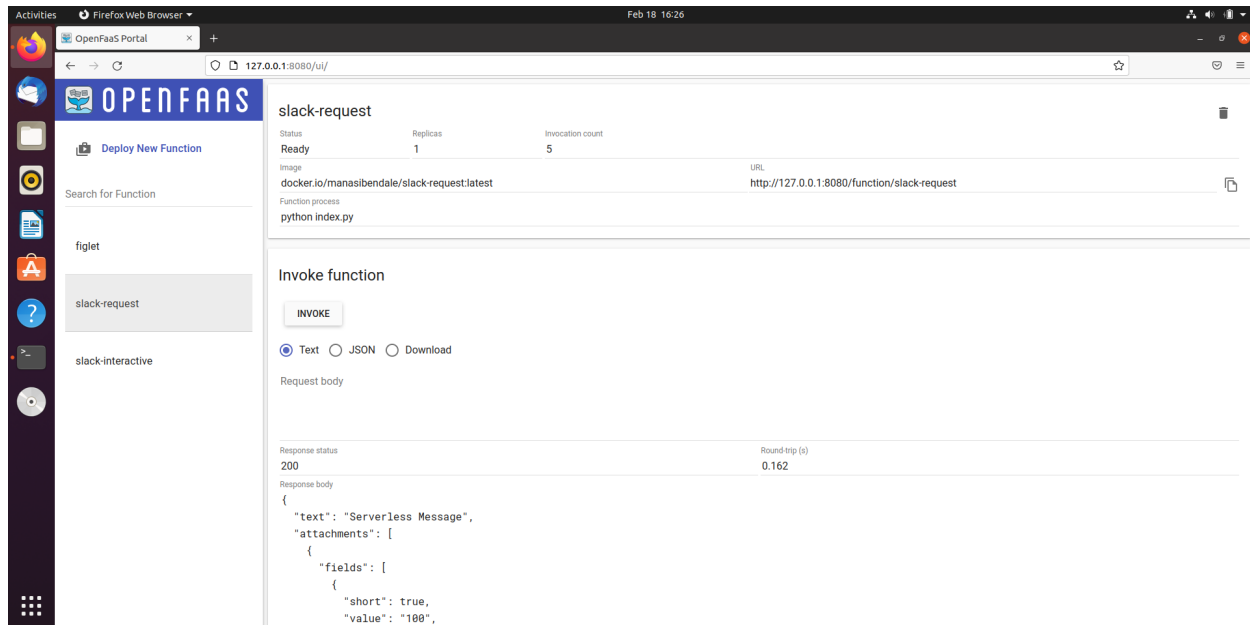
☒ Text ☐ JSON ☐ Download

Request body: "Hi"

Response status: 200 Round-trip (s): 0.347

Response body:

```
{
  "attachments": [
    {
      "footer": "Slack Apps built on OpenFaas",
      "author_link": "https://github.com/ManasiBendale/Cloud_Computing.git",
      "color": "#36a64f",
      "text": "Head over to COEN 241",
      "title": "COEN 241",
    }
  ]
}
```



6. Provide a screenshot of invoking slack-request and slack-interactive functions (10 pts)

```
manasibendale@manasibendale-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": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/ManasiBendale.png", "author_name": "Manasi Bendale", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!", "title": "About COEN 241"}, {"text": "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"}]}
manasibendale@manasibendale-VirtualBox:~/functions$
```

```
manasibendale@manasibendale-VirtualBox: ~/functions
File "/usr/local/lib/python2.7/json/decoder.py", line 364, in decode
obj, end = self.raw_decode(s, idx=_w(s, 0).end())
File "/usr/local/lib/python2.7/json/decoder.py", line 382, in raw_decode
raise ValueError("No JSON object could be decoded")
ValueError: No JSON object could be decoded

manasibendale@manasibendale-VirtualBox:~/functions$ faas-cli invoke slack-interactive
Reading from STDIN - hit (Control + D) to stop.
"Hi"
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/ManasiBendale/Cloud-Computing.git", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineering/academic-programs/departments-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/departments-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.com/ManasiBendale.png"}]}
manasibendale@manasibendale-VirtualBox:~/functions$
```

