COEN 241 Assignment 2

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Screenshots for the tasks(80 pts):
● Provide a screenshot of invoking the figlet function (10 pts)

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

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

```python
import json
import urllib
def handle(req):
    """handle a request to the function
    Args:
        req (str): request body
    """
    # 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": "#FFA500",
                "pretext": "Nice choice! Have fun with COEN 241!",
                "author_name": "Fanfang Lin",
                "author_link": "https://github.com/IsabellaLin325/COEN241",
                "author_icon": "https://avatars.githubusercontent.com/u/93758181?s=400&v=4",
                "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-identity-amp-photography/visual-identity-toolkit/logos-amp-seals/M
ission-Dont3.png",
                "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)
```

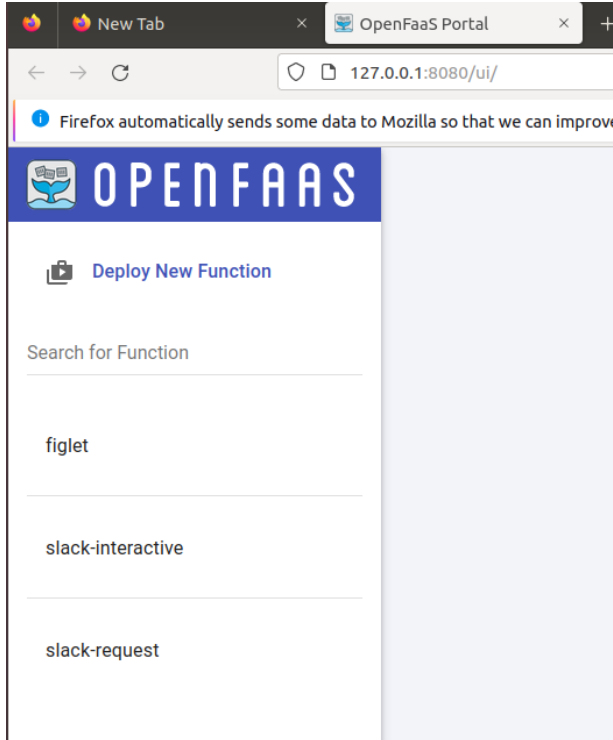● Provide a screenshot of running the following command (10 pts)
sudo journalctl -u faasd --lines 40

```
isabella@ubuntu:~/coen241/hw2/faasd$ sudo cat /var/lib/faasd/secrets/basic-auth-password
62LcbyvitkjHy0KdStpY680M7tFQExzjcTzSuG5guTMq7bjnVfKRDAr2LVyWjMnisabella@ubuntu:~/coen241/hw2/faasd$ sudo journalctl
-u faasd --lines 40
-- Logs begin at Mon 2023-02-13 18:58:58 PST, end at Fri 2023-02-17 15:59:11 PST
Feb 17 15:35:35 ubuntu faasd[1604]: 2023/02/17 15:35:35 - gateway
Feb 17 15:35:35 ubuntu faasd[1604]: 2023/02/17 15:35:35 - queue-worker
Feb 17 15:35:35 ubuntu faasd[1604]: Starting: basic-auth-plugin
Feb 17 15:35:36 ubuntu faasd[1604]: 2023/02/17 15:35:36 Created container: basic
Feb 17 15:36:16 ubuntu faasd[1604]: 2023/02/17 15:36:16 basic-auth-plugin has IP
Feb 17 15:36:16 ubuntu faasd[1604]: 2023/02/17 15:36:16 Task: basic-auth-plugin
Feb 17 15:36:17 ubuntu faasd[1604]: Starting: nats
Feb 17 15:36:17 ubuntu faasd[1604]: Creating local directory: /var/lib/faasd/nat
Feb 17 15:36:17 ubuntu faasd[1604]: 2023/02/17 15:36:17 Running nats with user:
Feb 17 15:36:17 ubuntu faasd[1604]: 2023/02/17 15:36:17 Created container: nats
Feb 17 15:36:28 ubuntu faasd[1604]: 2023/02/17 15:36:28 nats has IP: 10.62.0.3
Feb 17 15:36:28 ubuntu faasd[1604]: 2023/02/17 15:36:28 Task: nats        Contai
Feb 17 15:36:28 ubuntu faasd[1604]: Starting: prometheus
Feb 17 15:36:28 ubuntu faasd[1604]: Creating local directory: /var/lib/faasd/pro
Feb 17 15:36:28 ubuntu faasd[1604]: 2023/02/17 15:36:28 Running prometheus with
Feb 17 15:36:30 ubuntu faasd[1604]: 2023/02/17 15:36:30 Created container: prome
Feb 17 15:36:43 ubuntu faasd[1604]: 2023/02/17 15:36:43 prometheus has IP: 10.62
Feb 17 15:36:43 ubuntu faasd[1604]: 2023/02/17 15:36:43 Task: prometheus
Feb 17 15:36:44 ubuntu faasd[1604]: Starting: gateway
Feb 17 15:36:45 ubuntu faasd[1604]: 2023/02/17 15:36:45 Created container: gatew
Feb 17 15:36:52 ubuntu faasd[1604]: 2023/02/17 15:36:52 gateway has IP: 10.62.0.
Feb 17 15:36:52 ubuntu faasd[1604]: 2023/02/17 15:36:52 Task: gateway       Con
```

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

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

```
isabella@ubuntu:~/functions$ echo "Hello, FaaS, world" | faas-cli invoke slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "10000", "title": "Follower"}],
"author_icon": "", "image_url": "https://avatars.githubusercontent.com/u/93758181?s=400&v=4", "author_name": "Fangfa
ng Lin", "title": "Welcome to COEN 241"}, {"text": "It's a course about cloud computing", "title": "Details about CO
EN 241"}, {"title": "Would you recommend COEN 241 to your friends?", "color": "#FF0000", "actions": [{"text": "Of Co
urse!", "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"}]}
isabella@ubuntu:~/functions$ curl http://127.0.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "10000", "title": "Follower"}],
"author_icon": "", "image_url": "https://avatars.githubusercontent.com/u/93758181?s=400&v=4", "author_name": "Fangfa
ng Lin", "title": "Welcome to COEN 241"}, {"text": "It's a course about cloud computing", "title": "Details about CO
EN 241"}, {"title": "Would you recommend COEN 241 to your friends?", "color": "#FF0000", "actions": [{"text": "Of Co
urse!", "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"}]}
```

```
isabella@ubuntu:~/functions$ echo "Hello, FaaS, world" | faas-cli invoke slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/IsabellaLin325/COEN24
1", "color": "#FFA500", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "Fanfa
ng Lin", "title_link": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduat
e/course-descriptions/", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-am
p-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png", "response_type": "ephemeral", "replace_ori
ginal": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "prete
xt": "Nice choice! Have fun with COEN 241!", "fallback": "Required plain-text summary of the attachment.", "thumb_ur
l": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptio
ns/", "author_icon": "https://avatars.githubusercontent.com/u/93758181?s=400&v=4"}]}
isabella@ubuntu:~/functions$ curl http://127.0.0.1:8080/function/slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/IsabellaLin325/COEN24
1", "color": "#FFA500", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "Fanfa
ng Lin", "title_link": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduat
e/course-descriptions/", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-am
p-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png", "response_type": "ephemeral", "replace_ori
ginal": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "prete
xt": "Nice choice! Have fun with COEN 241!", "fallback": "Required plain-text summary of the attachment.", "thumb_ur
l": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptio
ns/", "author_icon": "https://avatars.githubusercontent.com/u/93758181?s=400&v=4"}]}
```