COEN 241: HW - 2
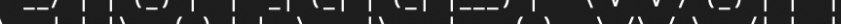
1. Screenshot of invoking the figlet function

```
[ubuntu@ubuntu:~/faasd$ echo "Hello, FaaS, world" | faas-cli invoke figlet
  _   _      _ _          _____           ____                     _     _
 | | | | ___| | | ___    |  ___|_ _  __ _/ ___|   __      _____  _ __| | __| |
 | |_| |/ _ \ | |/ _ \   | |_ / _` |/ _` \___ \   \ \ /\ / / _ \| '__| |/ _` |
 |  _  |  __/ | | (_) |  |  _| (_| | (_| |___) |   \ V  V / (_) | |  | | (_| |
 |_| |_|\___|_|_|\___/   |_|  \__,_|\__,_|____(_)   \_/\_/ \___/|_|  |_|\__,_|
                                          |/                |/
```
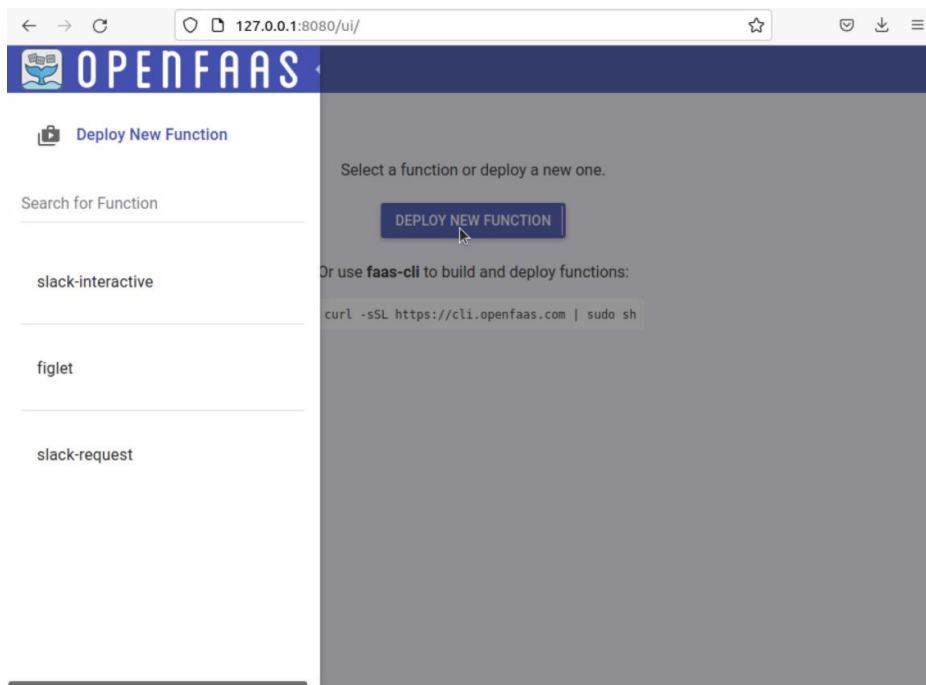
2. sudo journalctl -u faasd --lines 40

```
[ubuntu@ubuntu:~/functions$ sudo journalctl -u faasd --lines 40
-- Logs begin at Mon 2023-02-13 08:32:46 UTC, end at Mon 2023-02-13 08:54:19 UT>
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 - gateway
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 - queue-worker
Feb 13 08:34:40 ubuntu faasd[2591]: Starting: nats
Feb 13 08:34:40 ubuntu faasd[2591]: Creating local directory: /var/lib/faasd/na>
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 Running nats with user:>
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 Created container: nats
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 nats has IP: 10.62.0.2
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 Task: nats        Conta>
Feb 13 08:34:40 ubuntu faasd[2591]: Starting: prometheus
Feb 13 08:34:40 ubuntu faasd[2591]: Creating local directory: /var/lib/faasd/pr>
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 Running prometheus with>
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 Created container: prom>
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 prometheus has IP: 10.6>
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 Task: prometheus       >
Feb 13 08:34:40 ubuntu faasd[2591]: Starting: basic-auth-plugin
Feb 13 08:34:40 ubuntu faasd[2591]: 2023/02/13 08:34:40 Created container: basi>
Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 basic-auth-plugin has I>
Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Task: basic-auth-plugin>
Feb 13 08:34:41 ubuntu faasd[2591]: Starting: gateway
Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Created container: gate>
Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 gateway has IP: 10.62.0>
Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Task: gateway        Co>
[Feb 13 08:34:41 ubuntu faasd[2591]: Starting: queue-worker
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Created container: queu>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 queue-worker has IP: 10>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Task: queue-worker    >
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Supervisor init done in>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Looking up IP for: "gat>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver rebuilding map
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver: "localhost"=>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver: "faasd-provid>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver: "nats"="10.62>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver: "prometheus"=>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver: "basic-auth-p>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver: "gateway"="10>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Resolver: "queue-worker>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Looking up IP for: "pro>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Proxy from: 127.0.0.1:9>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 faasd: waiting for SIGT>
[Feb 13 08:34:41 ubuntu faasd[2591]: 2023/02/13 08:34:41 Proxy from: 0.0.0.0:808>
```

3. Screenshot of your OpenFaaS gateway AFTER deploying figlet, slack-handler and slack-interactive functions

4. Screenshot of invoking slack-request and slack-interactive functions
   a. $faas-cli invoke slack-request

```
ubuntu@ubuntu:~/functions$ echo "Running" | sudo faas-cli invoke slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazi
ng Level"}], "author_icon": "", "image_url": "https://github.com/benitarego.png", "author_name": "Benita R
ego", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is my favourite class
 and I enjoy it!.", "title": "About COEN 241"}, {"title": "Would you recommend COEN 241 to your friends?",
 "color": "#3AA3E3", "actions": [{"text": "Of Course!", "type": "button", "name": "recommend", "value": "r
ecommend"}, {"text": "Most Definitely!", "type": "button", "name": "definitely", "value": "definitely"}],
"callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_typ
e": "default"}]}
```

   b. $curl -d '{"Hello":"COEN 241"}' http://127.1.0.1:8080/function/slack-request

```
                                                        buntu@ubuntu:~/functions$8080/function/slack-request N 241
"}' http://127.1.0.1:  241"}' http://127.1.0.1
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "
image_url": "https://github.com/benitarego.png", "author_name": "Benita Rego", "title": "The Awesome world of Cloud Computing! COEN 241"},
{"text": "COEN 241 is my favourite class and I enjoy it!.", "title": "About COEN 241"}, {"title": "Would you recommend COEN 241 to your fri
ends?", "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 recomm
end COEN 241 to your friends?", "attachment_type": "default"}]}
```

c. $faas-cli invoke slack-interactive

```
[ubuntu@ubuntu:~/functions$ faas-cli invoke slack-interactive                                          ]
Reading from STDIN — hit (Control + D) to stop.
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/benitarego/COEN-241-CC.git", "color": "#36a6
4f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineeri
ng/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": "ephemer
al", "replace_original": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "pretext": "
Yes! That's an amazing choice, COEN 241 is amazing!", "fallback": "Required plain-text summary of the attachment.", "thumb_url": "https://w
ww.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.
com/benitarego.png"}]}
```

d. $curl -d '{"Hello":"COEN 241"}' http://127.0.0.1:8080/function/slack-interactive

```
[8080/function/slack-interactive curl -d '{"Hello":"COEN 241"}' http://127.0.0.1:                        ]
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/benitarego/COEN-241-CC.git", "color": "#36a6
4f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "", "title_link": "https://www.scu.edu/engineeri
ng/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": "ephemer
al", "replace_original": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/img/_rebrand/meta/slack_hash_256.png", "pretext": "
Yes! That's an amazing choice, COEN 241 is amazing!", "fallback": "Required plain-text summary of the attachment.", "thumb_url": "https://w
ww.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.
com/benitarego.png"}]}
```