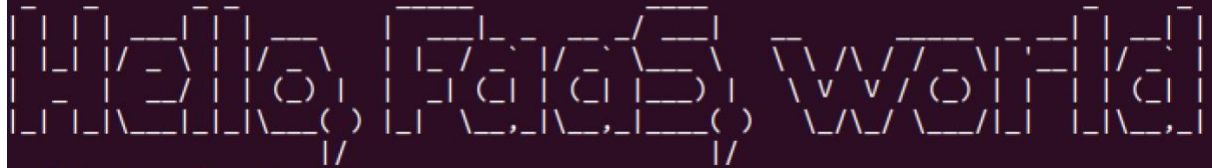


1. Invoking the Figlet Function

```
yash@yash:~/functions$ echo "Hello, FaaS, world" | faas-cli invoke figlet
```



```
yash@yash:~/functions$
```

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

Then, we find the URL for the function using *faas-cli store inspect figlet*

After that, we invoke figlet and print some ASCII characters.

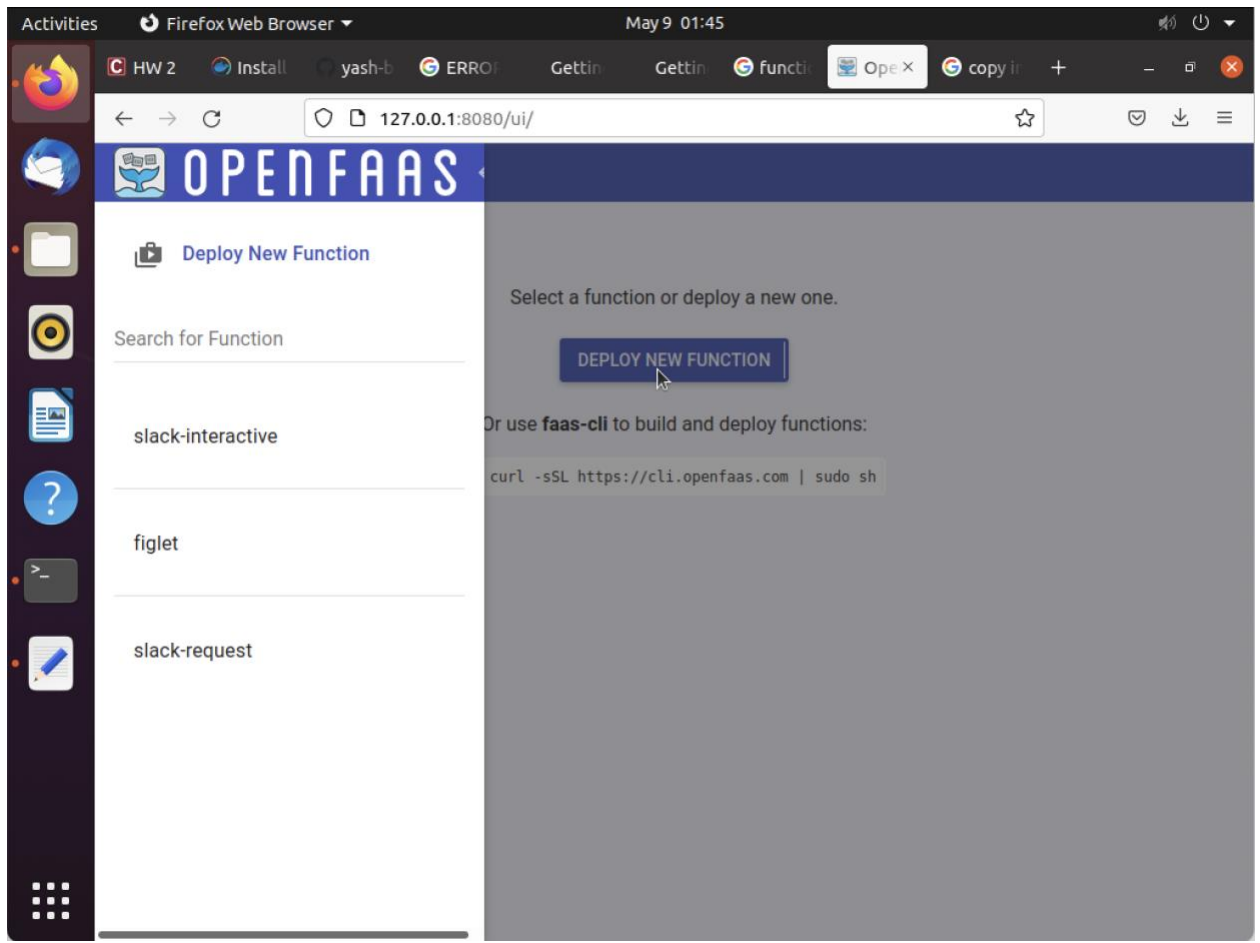
*echo "Hello, FaaS world" | faas-cli invoke figlet*

2. Running `sudo journalctl -u faasd -lines 40` command

```
-- Logs begin at Sun 2022-05-08 20:50:43 UTC, end at Mon 2022-05-09 02:03:28 UTC. --
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 - gateway
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 - queue-worker
May 08 21:03:59 yash faasd[4006]: Starting: basic-auth-plugin
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Created container: basic-auth-plugin
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 basic-auth-plugin has IP: 10.62.0.2
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Task: basic-auth-plugin Container: basic-auth-plugin
May 08 21:03:59 yash faasd[4006]: Starting: nats
May 08 21:03:59 yash faasd[4006]: Creating local directory: /var/lib/faasd/nats
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Running nats with user: "65534"
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Created container: nats
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 nats has IP: 10.62.0.3
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Task: nats Container: nats
May 08 21:03:59 yash faasd[4006]: Starting: prometheus
May 08 21:03:59 yash faasd[4006]: Creating local directory: /var/lib/faasd/prometheus
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Running prometheus with user: "65534"
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Created container: prometheus
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 prometheus has IP: 10.62.0.4
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Task: prometheus Container: prometheus
May 08 21:03:59 yash faasd[4006]: Starting: gateway
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Created container: gateway
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 gateway has IP: 10.62.0.5
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Task: gateway Container: gateway
May 08 21:03:59 yash faasd[4006]: Starting: queue-worker
May 08 21:03:59 yash faasd[4006]: 2022/05/08 21:03:59 Created container: queue-worker
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 queue-worker has IP: 10.62.0.6
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Task: queue-worker Container: queue-worker
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Supervisor init done in: 15 seconds
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Looking up IP for: "gateway"
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Looking up IP for: "prometheus"
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Resolver rebuilding map
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Resolver: "localhost"="127.0.0.1"
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Resolver: "faasd-provider"="10.62.0.1"
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Resolver: "basic-auth-plugin"="10.62.0.2"
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Resolver: "nats"="10.62.0.3"
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Resolver: "prometheus"="10.62.0.4"
May 08 21:04:00 yash faasd[4006]: 2022/05/08 21:04:00 Resolver: "gateway"="10.62.0.5"
lines 1-37
```

The above command is used to print logs to check whether Faasd is running or not. We are printing 40 lines of the log.

### 3. OpenFaaS Gateway screenshot AFTER deploying Figlet,slack-handler and slack-interactive functions



The above screenshot verifies that the three functions have been deployed in the cluster.

#### 4. Invoking slack-request function via curl and faas-cli



```

adminyash@yash:~/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/yash-bhargava18.png", "author_name": "Yash Bhargava", "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"}]}
yash@yash:~/functions$ curl -d '{"Hello":"COEN 241"}' http://127.1.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/yash-bhargava18.png", "author_name": "Yash Bhargava", "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"}]}
yash@yash:~/functions$

```

## 5. Invoking slack-interactive using curl and faas-cli

```

yash@yash:~/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/yash-bhargava18/COEN241.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/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, "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/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.com/yash-bhargava18.png"}]}
yash@yash:~/functions$ curl -d '{"Hello":"COEN 241"}' http://127.1.0.1:8080/function/slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/yash-bhargava18/COEN241.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/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, "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/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.com/yash-bhargava18.png"}]}
yash@yash:~/functions$

```

Here, we invoke the slack-request and slack-interactive functions via both curl and faas-cli and get the output as shown above.