

Screenshots with Explanation

Invoking the figlet function after deploying the function in the faas, through CLI and print some ASCII characters.

```
[paddy@paddy:~$ echo "Hello, World" | faas-cli invoke figlet
```

In the below image, I am invoking the figlet function through UI, and passing some ASCII characters.

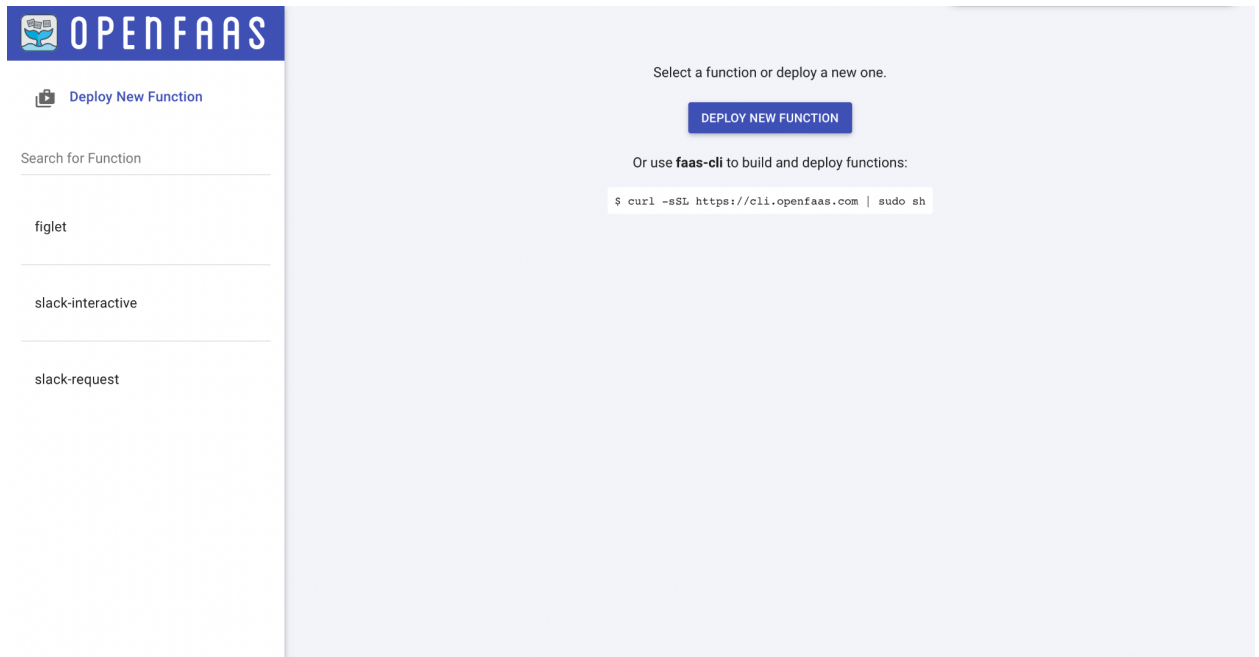
[illegible]

```

[paddy@paddy:~$ sudo journalctl -u faasd --lines 40
-- Logs begin at Mon 2022-10-17 04:27:50 UTC, end at Tue 2022-11-01 18:22:38 UT>
Oct 31 19:23:05 paddy faasd[634]: 2022/10/31 19:23:05 - prometheus
Oct 31 19:23:05 paddy faasd[634]: 2022/10/31 19:23:05 - gateway
Oct 31 19:23:05 paddy faasd[634]: Starting: nats
Oct 31 19:23:05 paddy faasd[634]: Creating local directory: /var/lib/faasd/nats
Oct 31 19:23:05 paddy faasd[634]: 2022/10/31 19:23:05 Running nats with user: ">
Oct 31 19:23:05 paddy faasd[634]: 2022/10/31 19:23:05 Created container: nats
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 nats has IP: 10.62.0.2
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Task: nats          Contain>
Oct 31 19:23:06 paddy faasd[634]: Starting: queue-worker
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Created container: queue->
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 queue-worker has IP: 10.6>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Task: queue-worker    >
Oct 31 19:23:06 paddy faasd[634]: Starting: basic-auth-plugin
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Created container: basic->
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 basic-auth-plugin has IP:>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Task: basic-auth-plugi>
Oct 31 19:23:06 paddy faasd[634]: Starting: prometheus
Oct 31 19:23:06 paddy faasd[634]: Creating local directory: /var/lib/faasd/prom>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Running prometheus with u>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Created container: prome>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 prometheus has IP: 10.62.>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Task: prometheus      C>
Oct 31 19:23:06 paddy faasd[634]: Starting: gateway
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Created container: gateway
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 gateway has IP: 10.62.0.6
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Task: gateway          Cont>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Supervisor init done in: >
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Looking up IP for: "gatew>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver rebuilding map
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver: "localhost"="12>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver: "faasd-provider>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver: "nats"="10.62.0>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver: "queue-worker"=>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver: "basic-auth-plu>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver: "prometheus"="1>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Resolver: "gateway"="10.6>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Looking up IP for: "prome>
Oct 31 19:23:06 paddy faasd[634]: 2022/10/31 19:23:06 Proxy from: 127.0.0.1:909>
lines 17-39

```

This image gives the first 40 lines of the logs, from which we can determine the status of the faasd. With this we can determine that faasd is running or not.



This image shows the list of the functions deployed in faasd.

The images below, we invoke the slack-request and slack-interactive both through the UI and through CLI.

1. Slack Interactive

The screenshot shows the OpenFaaS dashboard with the 'slack-interactive' function selected. The function details are shown in a table-like format: Status is 'Ready', Replicas is '1', and Invocation count is '16'. Below this, the Image is 'docker.io/apadmakshi/slack-interactive:latest' and the URL is 'http://localhost:8080/function/slack-interactive'. The Function process is 'python index.py'. Below the function details, there's an 'Invoke function' section with an 'INVOKE' button. Underneath, there are radio buttons for 'Text', 'JSON' (selected), and 'Download'. The Request body is shown as a JSON object: '{"Hello": "COEN"}'. Below the request, the Response status is '200' and the Round-trip (s) is '0.11'. The Response body is shown as a JSON object: '{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/APadmakshi/COEN-241---Fall-2022", "color": "#36a64f", "text": "Head over to COEN 241"}]}'.

Response status	Round-trip (s)
200	0.11

Response body

```
{
  "attachments": [
    {
      "footer": "Slack Apps built on OpenFaas",
      "author_link": "https://github.com/APadmakshi/COEN-241---Fall-2022",
      "color": "#36a64f",
      "text": "Head over to COEN 241",
      "title": "COEN 241",
      "ts": 123456789,
      "author_name": "Padmakshi Ashok Kumar",
      "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-and-photography/visual-identity-toolkit/logos-and-seals/Mission-Dont3.png",
      "response_type": "Testing interactive",
      "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 interactive testing - summary of the attachment",
      "thumb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/",
      "author_icon": "https://avatars.githubusercontent.com/apadmakshi"
    }
  ]
}
```

```
paddy@paddy:~/functions$ faas-cli invoke slack-interactive ]
```

```
Reading from STDIN - hit (Control + D) to stop.
```


```
[{"Hello": "Testing"} ]
```


```
{
  "attachments": [
    {
      "footer": "Slack Apps built on OpenFaas",
      "author_link": "https://github.com/APadmakshi/COEN-241---Fall-2022",
      "color": "#36a64f",
      "text": "Head over to COEN 241",
      "title": "COEN 241",
      "ts": 123456789,
      "author_name": "Padmakshi Ashok Kumar",
      "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-and-photography/visual-identity-toolkit/logos-and-seals/Mission-Dont3.png",
      "response_type": "Testing interactive",
      "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 interactive testing - summary of the attachment",
      "thumb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/",
      "author_icon": "https://avatars.githubusercontent.com/apadmakshi"
    }
  ]
}
```

```
paddy@paddy:~/functions$ █
```

2. Slack-request:

a. Thought UI we see the following

**OPENFAAS**

 [Deploy New Function](#)

Search for Function

figlet

slack-interactive

slack-request

slack-request

StatusReplicasInvocation count

Ready18

ImageURL

docker.io/apadmakshi/slack-request:latesthttp://localhost:8080/function/slack-request

Function process

python index.py

Invoke function

INVOKE

☐ Text ☒ JSON ☐ Download

Request body

{"Hello": "World"}

Response statusRound-trip (s)

2000.098

Response body

{
 "text": "Serverless Message",
 "attachments": [
 {
 "fields": [
 {
 "short": true,

```
    "value": "100",  
    "title": "Amazing Level"  
  },  
],  
"author_icon": "",  
"image_url": "https://avatars.githubusercontent.com/apadmakshi",  
"author_name": "Padmakshi Ashok Kumar",  
"title": "The Awesome world of Cloud Computing! COEN 241"  
},  
{  
  "text": "COEN 241 is the most awesome class ever!.",  
  "description": "Testing the slack-request",  
  "title": "About COEN 241"  
},  
{  
  "title": "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"
```

```

    {
      "text": "Most Definitely!",
      "type": "button",
      "name": "definitely",
      "value": "definitely"
    }
  ],
  "callback_id": "response123",
  "fallback": "Would you recommend COEN 241 to your friends?",
  "attachment_type": "default"
}
}
}

```

b. Through CLI we observe the following

```

'''
[paddy@paddy:~/functions$ faas-cli invoke slack-request
Reading from STDIN - hit (Control + D) to stop.
[{"Hello": "World"}
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://avatars.githubusercontent.com/padmakshi", "author_name": "Padmakshi Ashok Kumar", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!", "description": "Testing the slack-request", "title": "About COEN 241"}, {"title": "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"}]}
paddy@paddy:~/functions$

```