

COEN 241 Assignment 2 Screenshots

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1. Invoking the figlet function

```
sanfer@sanfer--laptop:~$ echo "Hello, FaaS, world" | faas-cli invoke figlet
Hello, FaaS, world
```

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

```
sanfer@sanfer--laptop:~/functions$ sudo journalctl -u faasd --lines 40
Nov 01 15:41:33 sanfer--laptop faasd[4048]: 2022/11/01 15:41:33 - gateway
Nov 01 15:41:33 sanfer--laptop faasd[4048]: 2022/11/01 15:41:33 - queue-worker
Nov 01 15:41:33 sanfer--laptop faasd[4048]: Starting: nats
Nov 01 15:41:33 sanfer--laptop faasd[4048]: Creating local directory: /var/lib/fa
Nov 01 15:41:33 sanfer--laptop faasd[4048]: 2022/11/01 15:41:33 Running nats wi
Nov 01 15:41:35 sanfer--laptop faasd[4048]: 2022/11/01 15:41:35 Created contain
Nov 01 15:41:42 sanfer--laptop faasd[4048]: 2022/11/01 15:41:42 nats has IP: 10
Nov 01 15:41:42 sanfer--laptop faasd[4048]: 2022/11/01 15:41:42 Task: nats
Nov 01 15:41:42 sanfer--laptop faasd[4048]: Starting: prometheus
Nov 01 15:41:42 sanfer--laptop faasd[4048]: Creating local directory: /var/lib/fa
Nov 01 15:41:42 sanfer--laptop faasd[4048]: 2022/11/01 15:41:42 Running prometh
Nov 01 15:41:48 sanfer--laptop faasd[4048]: 2022/11/01 15:41:48 Created contain
Nov 01 15:41:49 sanfer--laptop faasd[4048]: 2022/11/01 15:41:49 prometheus has
Nov 01 15:41:49 sanfer--laptop faasd[4048]: 2022/11/01 15:41:49 Task: prometheu
Nov 01 15:41:49 sanfer--laptop faasd[4048]: Starting: basic-auth-plugin
Nov 01 15:41:53 sanfer--laptop faasd[4048]: 2022/11/01 15:41:53 Created contain
Nov 01 15:41:55 sanfer--laptop faasd[4048]: 2022/11/01 15:41:55 basic-auth-plug
Nov 01 15:41:55 sanfer--laptop faasd[4048]: 2022/11/01 15:41:55 Task: basic-aut
Nov 01 15:41:55 sanfer--laptop faasd[4048]: Starting: gateway
Nov 01 15:41:58 sanfer--laptop faasd[4048]: 2022/11/01 15:41:58 Created contain
Nov 01 15:41:58 sanfer--laptop faasd[4048]: 2022/11/01 15:41:58 gateway has IP:
Nov 01 15:41:58 sanfer--laptop faasd[4048]: 2022/11/01 15:41:58 Task: gateway
Nov 01 15:41:58 sanfer--laptop faasd[4048]: Starting: queue-worker
lines 1-23...skipping...
Nov 01 15:41:33 sanfer--laptop faasd[4048]: 2022/11/01 15:41:33 - gateway
Nov 01 15:41:33 sanfer--laptop faasd[4048]: 2022/11/01 15:41:33 - queue-worker
Nov 01 15:41:33 sanfer--laptop faasd[4048]: Starting: nats
Nov 01 15:41:33 sanfer--laptop faasd[4048]: Creating local directory: /var/lib/fa
Nov 01 15:41:33 sanfer--laptop faasd[4048]: 2022/11/01 15:41:33 Running nats with
Nov 01 15:41:35 sanfer--laptop faasd[4048]: 2022/11/01 15:41:35 Created container
Nov 01 15:41:42 sanfer--laptop faasd[4048]: 2022/11/01 15:41:42 nats has IP: 10.6
Nov 01 15:41:42 sanfer--laptop faasd[4048]: 2022/11/01 15:41:42 Task: nats
Nov 01 15:41:42 sanfer--laptop faasd[4048]: Starting: prometheus
Nov 01 15:41:42 sanfer--laptop faasd[4048]: Creating local directory: /var/lib/fa
```

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

The screenshot shows the OpenFaaS Gateway interface in a web browser at `localhost:8080/ui/`. The left sidebar contains the OpenFaaS logo, a 'Deploy New Function' button, a search bar, and a list of functions: 'slack-interactive', 'slack-request', and 'figlet'. The main panel displays details for the 'slack-interactive' function, including its status (Ready), replicas (1), invocation count, image (docker.io/sanfernonronha/slack-interactive:latest), URL (http://localhost:8080/function/slack-interactive), and function process (python index.py). Below this, the 'Invoke function' section features an 'INVOKE' button and radio buttons for 'Text' (selected), 'JSON', and 'Download'. A 'Request body' input field is present. At the bottom, there are fields for 'Response status' and 'Round-trip (s)'.

Status	Replicas	Invocation count
Ready	1	

Image	URL
docker.io/sanfernonronha/slack-interactive:latest	http://localhost:8080/function/slack-interactive

Function process
python index.py

Invoke function

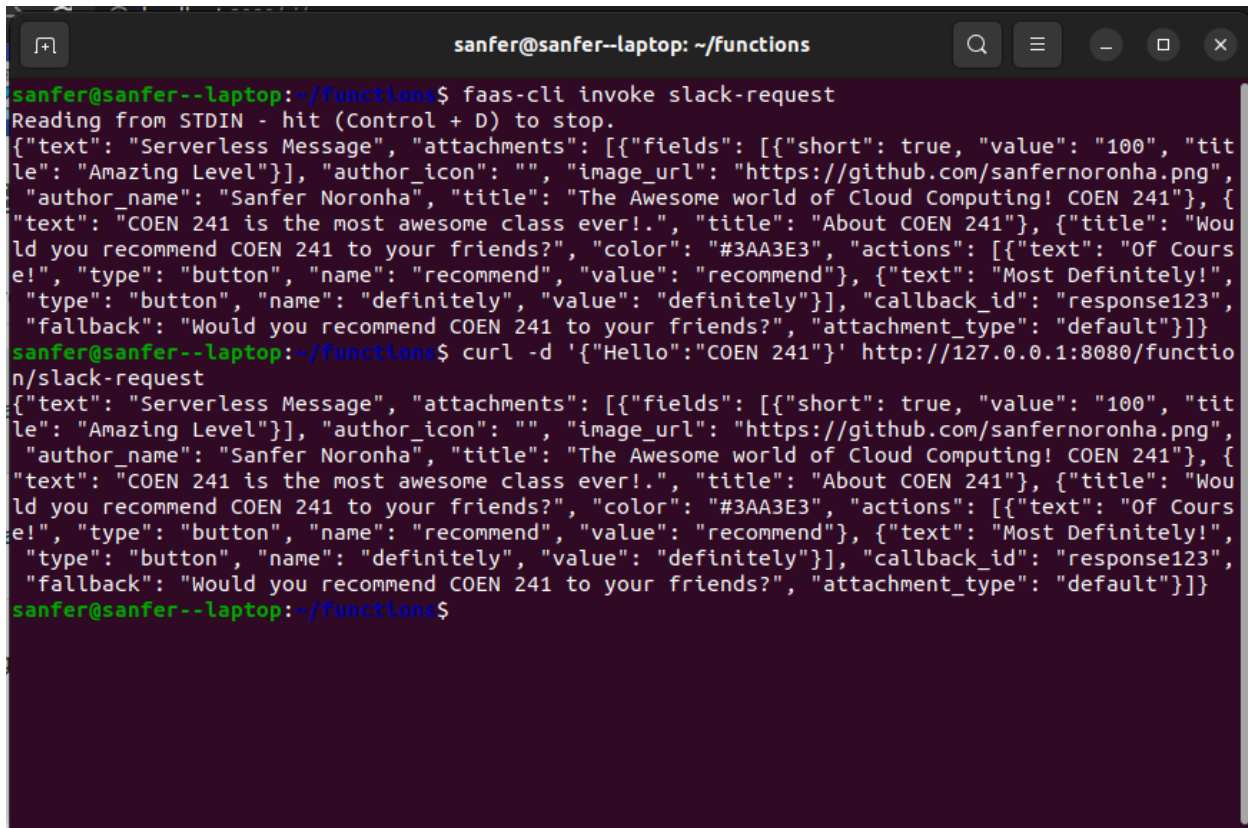
☒ Text ☐ JSON ☐ Download

Request body

Response status

Round-trip (s)

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



```
sanfer@sanfer--laptop: ~/functions
sanfer@sanfer--laptop:~/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/sanfernoronha.png", "author_name": "Sanfer Noronha", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!.", "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"}]}
sanfer@sanfer--laptop:~/functions$ curl -d '{"Hello":"COEN 241"}' http://127.0.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "https://github.com/sanfernoronha.png", "author_name": "Sanfer Noronha", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!.", "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"}]}
sanfer@sanfer--laptop:~/functions$
```

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

```
sanfer@sanfer--laptop: ~/functions
sanfer@sanfer--laptop:~/functions$ curl -d '{"Hello": "COEN 241"}' http://127.0.0.1:8080/function/slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/sanfernoronha/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/sanfernoronha.png"}]}
sanfer@sanfer--laptop:~/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/sanfernoronha/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/sanfernoronha.png"}]}
sanfer@sanfer--laptop:~/functions$
```