

HW2

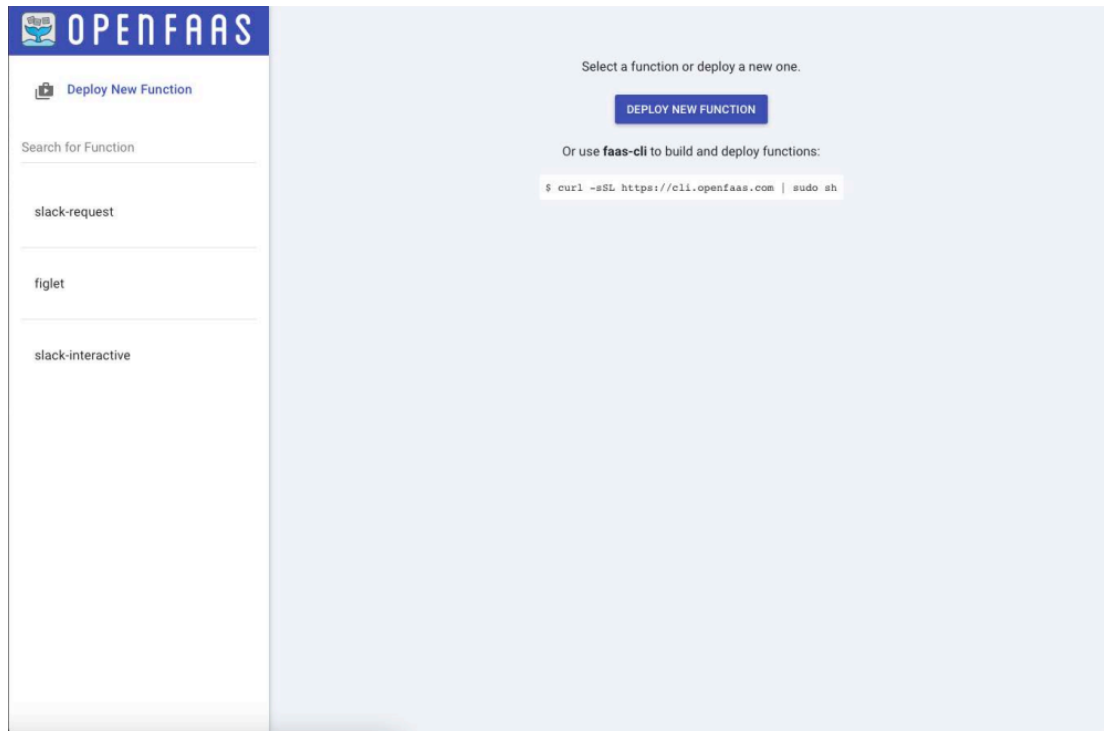
1. Screenshot of invoking the figlet function

```
jichen@jichen:~$ echo "Hello, Faas, world" | faas-cli invoke figlet
[Hello, Faas, world]
```

2. Screenshot of running sudo journalctl -u faasd -lines 40

```
jichen@jichen:~/functions$ sudo journalctl -u faasd --lines 40
-- Logs begin at Wed 2022-11-02 00:41:13 UTC, end at Wed 2022-11-02 06:20:50 UTC. --
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 - gateway
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 - queue-worker
Nov 02 00:46:01 jichen faasd[3374]: Starting: basic-auth-plugin
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Created container: basic-auth-plugin
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 basic-auth-plugin has IP: 10.62.0.2
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Task: basic-auth-plugin Container: basic-auth-plugin
Nov 02 00:46:01 jichen faasd[3374]: Starting: nats
Nov 02 00:46:01 jichen faasd[3374]: Creating local directory: /var/lib/faasd/nats
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Running nats with user: "65534"
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Created container: nats
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 nats has IP: 10.62.0.3
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Task: nats Container: nats
Nov 02 00:46:01 jichen faasd[3374]: Starting: prometheus
Nov 02 00:46:01 jichen faasd[3374]: Creating local directory: /var/lib/faasd/prometheus
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Running prometheus with user: "65534"
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Created container: prometheus
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 prometheus has IP: 10.62.0.4
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Task: prometheus Container: prometheus
Nov 02 00:46:01 jichen faasd[3374]: Starting: gateway
Nov 02 00:46:01 jichen faasd[3374]: 2022/11/02 00:46:01 Created container: gateway
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 gateway has IP: 10.62.0.5
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Task: gateway Container: gateway
Nov 02 00:46:02 jichen faasd[3374]: Starting: queue-worker
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Created container: queue-worker
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 queue-worker has IP: 10.62.0.6
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Task: queue-worker Container: queue-worker
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Supervisor init done in: 15 seconds
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Looking up IP for: "prometheus"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver rebuilding map
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Looking up IP for: "gateway"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 faasd: waiting for SIGTERM or SIGINT
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver: "localhost"="127.0.0.1"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver: "faasd-provider"="10.62.0.1"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver: "basic-auth-plugin"="10.62.0.2"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver: "nats"="10.62.0.3"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver: "prometheus"="10.62.0.4"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver: "gateway"="10.62.0.5"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Resolver: "queue-worker"="10.62.0.6"
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.5)
Nov 02 00:46:02 jichen faasd[3374]: 2022/11/02 00:46:02 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.4)
```

3. openFaas gateway after deploying



4. screenshot of invoking slack-request function using Faas CLI

```
jichen@jichen:~/functions$ echo 'hello' | faas-cli invoke slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_i": "COEN 241", "author_name": "COEN 241", "author_link": "https://github.com/dudu574/JichenDou_COEN241", "color": "#36a64f", "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", "title": "COEN 241", "text": "COEN 241 context", "type": "image"}, {"text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "COEN 241", "author_link": "https://github.com/dudu574/JichenDou_COEN241", "color": "#36a64f", "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": "Great choice!", "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/dudu574.png"}], "callback_id": "response123", "fallback": "would you recommend COEN 241 to your friend?", "attachment_type": "default"}]
```

5. screenshot of invoking slack-interactive function using Faas CLI

```
jichen@jichen:~/functions$ echo '{"text": "text"}' | faas-cli invoke slack-interactive
{"text": "text", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_i": "COEN 241", "author_name": "COEN 241", "author_link": "https://github.com/dudu574/JichenDou_COEN241", "color": "#36a64f", "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", "title": "COEN 241", "text": "COEN 241 context", "type": "image"}, {"text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "COEN 241", "author_link": "https://github.com/dudu574/JichenDou_COEN241", "color": "#36a64f", "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": "Great choice!", "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/dudu574.png"}], "callback_id": "response123", "fallback": "would you recommend COEN 241 to your friend?", "attachment_type": "default"}]
```