Installing OpenFaas CLI Brew install faas-cli

```
m wy9 - -zsh - 80×24
Last login: Tue Nov 1 16:16:16 on ttys000
wy9@Wenjies-MacBook-Pro ~ % brew install faas-cli
Running `brew update --auto-update`...
==> Auto-updated Homebrew!
Updated 2 taps (homebrew/core and homebrew/cask).
==> New Formulae
node@18
==> Downloading https://ghcr.io/v2/homebrew/core/faas-cli/manifests/0.14.11
################################ 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/faas-cli/blobs/sha256:2640b92dd
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sh
==> Pouring faas-cli--0.14.11.monterey.bottle.tar.gz
==> Caveats
zsh completions have been installed to:
  /usr/local/share/zsh/site-functions
==> Summary
🥦 /usr/local/Cellar/faas-cli/0.14.11: 9 files, 8.9MB
Running `brew cleanup faas-cli`...

Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.

Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).
wy9@Wenjies-MacBook-Pro ~ % 🗌
```

Deploy OpenFaas:

```
wv9 — -zsh — 80×24
==> Downloading https://ghcr.io/v2/homebrew/core/faas-cli/blobs/sha256:2640b92dd
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sh
==> Pouring faas-cli--0.14.11.monterey.bottle.tar.gz
==> Caveats
zsh completions have been installed to:
 /usr/local/share/zsh/site-functions
 Summary
🧊 /usr/local/Cellar/faas-cli/0.14.11: 9 files, 8.9MB
==> Running `brew cleanup faas-cli`...

Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).
wy9@Wenjies-MacBook-Pro ~ % git clone https://github.com/openfaas/faasd --depth=
Cloning into 'faasd'...
remote: Enumerating objects: 2640, done.
remote: Counting objects: 100% (2640/2640), done.
remote: Compressing objects: 100% (2201/2201), done.
remote: Total 2640 (delta 480), reused 1680 (delta 254), pack-reused 0
Receiving objects: 100% (2640/2640), 4.70 MiB | 12.46 MiB/s, done.
Resolving deltas: 100% (480/480), done.
Updating files: 100% (2228/2228), done.
wy9@Wenjies-MacBook-Pro ~ %
```

git clone https://github.com/openfaas/faasd --depth=1

```
Password for 'https://github.com':
remote: Repository not found.
fatal: Authentication failed for 'https://github.com/openfass/fassd/'
alex@alexyang:~$
alex@alexyang:~$
alex@alexyang:~$ git clone https://github.com/openfaas/faasd --depth=1
Cloning into 'faasd'...
remote: Enumerating objects: 2640, done.
remote: Counting objects: 100% (2640/2640), done.
remote: Compressing objects: 100% (2201/2201), done.
remote: Total 2640 (delta 480), reused 1701 (delta 254), pack-reused 0
Receiving objects: 100% (2640/2640), 4.71 MiB | 1.55 MiB/s, done.

App St
```

HW₂

Install faasd
\$./hack/install.sh

After the installation, you must obtain your username and password by running Password:

alex@alexyang:~/faasd\$ sudo cat /var/lib/faasd/secrets/basic–auth–password L4bsjtxAW4q8xLqXTSO5HyPTXXf9WOko1j8joGNzb7X9ECzPOKxavhQsRpcQWmPalex@alexyang:^ alex@alexyang:~/faasd\$

alex@alexyang:~/faasd\$ sudo cat /var/lib/faasd/secrets/basic–auth–password 9PaWYwV6Eu4CH4Zyr3bajycKAQSEPMQHiUm6rxohk4nSSj5DAGuK7TN2pNHZoXIalex@alexyang:~/faasd\$

Username:

oreachtato oayea for aanith hetpyrytelyvystyooo

alex@alexyang:~/faasd\$ sudo cat /var/lib/faasd/secrets/basic-auth-user adminalex@alexyang:~/faasd\$ sudo cat /var/lib/faasd/secrets/basic-auth-user adminalex@alexyang:~/faasd\$

You can use this information to log in to the OpenFaaS UI or pass the information to the faas-cli by running the following command.

alex@alexyang:~/faasd\$ sudo cat /var/lib/faasd/secrets/basic=auth-password | faas=cli login =-username admin =-password=stdin Calling the OpenFaaS server to validate the credentials...
credentials saved for admin http://127.0.0.1:8080

Verify OpenFaas Installation

Check if faasd service is running

```
Skipping caddy installation as FAASD_DOMAIN.
alex@alexyang:"/faasd$ sudo cat /var/lib/faasd/secrets/basic-auth-password
9PaNYwW6Eu4CH4Zyr3bajycAdSEPMQHiUm6rxohk4nSSj5bAGuK7TN2pNHZoXIalex@alexyang:"/faasd$
alex@alexyang:"/faasd$
alex@alexyang:"/faasd$
alex@alexyang:"/faasd$ sudo cat /var/lin/faasd/secrets/basic-auth-user
cat: /var/lin/faasd/secrets/basic-auth-user: No such file or directory
alex@alexyang:"/faasd$ sudo cat /var/lib/faasd/secrets/basic-auth-password
9PaNYw6Eu4CH4Zyr3bajyc
alex@alexyang:"/faasd$ sudo cat /var/lib/faasd/secrets/basic-auth-password
9PaNYw6Eu4CH4Zyr3bajycsudo cat /var/lib/faasd/secrets/basic-auth-user
cat: /var/lin/faasd/secrets/basic-auth-user
cat: /var/lin/faasd/secrets/basic-auth-user
cat: /var/lin/faasd/secrets/basic-auth-user
PPAHYWNÉEULOHAYONDA SUND CAT /Van/IIn/faasd/secrets/basic-auth-user
cat: /van/IIn/faasd/secrets/basic-auth-user: No such file or directory
alex@alexyang: "faasd$
alex@alexyang: "faasd$ sudo cat /van/Iin/faasd/secrets/basic-auth-use
cat: /van/IIn/faasd/secrets/basic-auth-use
alex@alexyang: "faasd$
sudo cat /van/IIn/faasd/secrets/basic-auth-password | faas-cli login --username admin --password-stdin
Calling the OpenFaaS server to validate the credentials...
credentials saved for admin http://127.0.0.1:8080
alex@alexyang: "faasd$ sudo cat /van/Iib/faasd/secrets/basic-auth-user
adminalex@alexyang: "faasd$ sudo cat /van/Iib/faasd/secrets/basic-auth-user
adminalex@alexyang: "faasd$ sudo cat /van/Iib/faasd/secrets/basic-auth-user
adminalex@alexyang: "faasd$
alex@alexyang: "faasd$
alex@alexyang: "faasd$
alex@alexyang: "faasd$
sudo if faasd service is running
sudo: if: command not found
alex@alexyang: "faasd$ sudo systemctl status faasd

• faasd. service - faasd

Loaded: loaded (/lib/systemd/system/faasd.service; enabled; vendor preset: enabled)
                           faasd.service – faasd
Loaded: loaded (/lib/systemd/system/faasd.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2022–11–02 05:42:09 UTC; 21min ago
Main PID: 2345 (faasd)
Tasks: 6 (limit: 2271)
Memory: 13.4M (limit: 500.0M)
CGroup: /system.slice/faasd.service
__2345 /usr/local/bin/faasd up
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Resolver: "faasd-provider"="10.62.0.1"
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Looking up IP for: "gateway"
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 faasd: waiting for SIGTERM or SIGINT
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Resolver: "nats"="10.62.0.2"
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Resolver: "prometheus"="10.62.0.3"
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Resolver: "basic-auth-plugin"="10.62.0.4"
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Resolver: "gateway"="10.62.0.5"
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Resolver: "gueue-worker"="10.62.0.6"
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Proxy from: 0.0.0.0:8080, to: gateway:8080 (10.62.0.5)
Nov 02 05:44:42 alexyang faasd[2345]: 2022/11/02 05:44:42 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.5)
```

```
alex@alexyang:~/faasd$ sudo systemctl status faasd-provider
alexwalexyang: "/faasd$ Sudo systemctl status faasd-provider
faasd-provider.service - faasd-provider
Loaded: loaded (/lib/systemd/system/faasd-provider.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2022-11-02 05:42:08 UTC; 23min ago
Main PID: 2341 (faasd)
Tasks: 5 (limit: 2271)
Memory: 7.5M (limit: 500.0M)
               CGroup: /system.slice/faasd-provider.service
—2341 /usr/local/bin/faasd provider
Nov 02 05:42:08 alexyang systemd[1]: Started faasd-provider.

Nov 02 05:42:09 alexyang faasd[2341]: 2022/11/02 05:42:09 faasd-provider starting.. Service Timeout: 1m0s

Nov 02 05:42:09 alexyang faasd[2341]: faasd version: 0.16.7 commit: 282b05802cccd311678a73efaee78af0086cc

Nov 02 05:42:09 alexyang faasd[2341]: 2022/11/02 05:42:09 Writing network config...

Nov 02 05:42:10 alexyang faasd[2341]: 2022/11/02 05:42:10 Listening on TCP port: 8081
                                                                                                                                                                                                                                                                                                                                         Xcode
```

```
# Logs for faasd
sudo journalctl -u faasd --lines 40 d
```

```
CoreServices
```

sudo journalctl -u faasd-provider --lines 40

HW₂

```
alexhalexyang:"/fasads sudo journalct1 -u fasad --lines 40
-- Logs begin at Tue 2022-11-01 2817729 UTC, and 1 Med 2022-11-02 06:06:22 UTC, --
NOV 02 05:4437 alexyang fasad(2346): 2022/11/02 06:448347 -gateway
NOV 02 05:4437 alexyang fasad(2346): 2022/11/02 06:448347
NOV 02 05:4437 alexyang fasad(2346): Starting: natalexyand fasad(2446): Starting: natalexyand fasad(2446): 2022/11/02 06:44847
NOV 02 05:4437 alexyang fasad(2346): 2022/11/02 06:4487 Numning nats with user: "65594"
NOV 02 05:4437 alexyang fasad(2346): 2022/11/02 06:4487 Numning nats with user: "65594"
NOV 02 05:4447 alexyang fasad(2346): 2022/11/02 06:4487 Numning nats with user: "65594"
NOV 02 05:4447 alexyang fasad(2346): 2022/11/02 06:4487 Numning nats with user: "65594"
NOV 02 05:44410 alexyang fasad(2346): 2022/11/02 06:4487 Numning nats with user: "65594"
NOV 02 05:44410 alexyang fasad(2346): 2022/11/02 05:4487 Numning nats with user: "65594"
NOV 02 05:44410 alexyang fasad(2346): 2022/11/02 05:4487 Numning nats with user: "65594"
NOV 02 05:44410 alexyang fasad(2346): 2022/11/02 05:44810 Numning nate Numning nats with user: "65594"
NOV 02 05:4410 alexyang fasad(2346): 2022/11/02 05:44810 Numning nate Numning nats Numning nats Numning nats Numning nats Numning Numning
```

Logs for OpenFaaS services

Step 4: Trying out a Function from the Store

\$ faas-cli store list

```
alex@alexyang:~/faasd$ sudo journalctl -t default:gateway --lines 40
-- Logs begin at Tue 2022-11-01 23:17:23 UTC, end at Wed 2022-11-02 06:10:32 UTC. --
-- No entries --
alex@alexyang:~/faasd$ sudo journalctl -t default:nats --lines 40
-- Logs begin at Tue 2022-11-01 23:17:23 UTC, end at Wed 2022-11-02 06:10:45 UTC. --
-- No entries -
alex@alexyang:~/faasd$ sudo journalctl -t default:queue-worker --lines 40
-- Logs begin at Tue 2022-11-01 23:17:23 UTC, end at Wed 2022-11-02 06:11:04 UTC. --
-- No entries --
alex@alexyang:~/faasd$ sudo journalctl -t default:queue-prometheus --lines 40
-- Logs begin at Tue 2022-11-01 23:17:23 UTC, end at Wed 2022-11-02 06:11:42 UTC. --
-- No entries
alex@alexyang:~/faasd$ faas-cli store list
FUNCTION
NodeInfo
alpine
                                                      Get info about the machine that you'r...
An Alpine Linux shell, set the "fproc...
Print the environment variables prese...
env
                                                       Simulate a 2s duration or pass an X–S...
sleep
                                                      Generate a shasum for the given input
Generate ASCII logos with the figlet CLI
shasum
Figlet
                                                      Use curl for network diagnostics, pas...
curl
                                                      Python function provides a rating on ...
SentimentAnalysis
                                                      HTTP load generator, ApacheBench (ab)...
Query the nameserver for the IP addre...
Returns SSL/TLS certificate informati...
hey
nslookup
SSL/TLS cert info
Colorization
                                                       Turn black and white photos to color ...
                                                       This is a forked version of the work ...
The Have I Been Pwned function lets y...
Inception
Have I Been Pwned
Face Detection with Pigo
                                                      Detect faces in images using the Pigo...
Tesseract OCR
                                                       This function brings OCR – Optical Ch...
Dockerhub Stats
                                                      Golang function gives the count of re...
QR Code generator using Go
Tool for network discovery and securi...
QR Code Generator – Go
Nmap Security Scanner
ASCII Cows
                                                      Generate a random ASCII cow
YouTube Video Downloader
OpenFaaS Text–to–Speech
Docker Image Manifest Query
                                                      Download YouTube videos as a function
Generate an MP3 of text using Google'...
Query an image on the Docker Hub for ...
                                                      Detect faces in images. Send a URL as...
Blur out faces detected in JPEGs. Inv...
face-detect with OpenCV
Face blur by Endre Simo
Left-Pad
                                                       left-pad on OpenFaaS
                                                      Automatically fix white-balance in ph...
normalisecolor
mememachine
                                                       Turn any image into a meme.
Business Strategy Generator Generates a Business Strategy (using ...
Line Drawing Generator from a photograph Automatically generates a sketch like...
Image EXIF Reader Reads EXIF information from an URL or...
Open NSFW Model
                                                       Score images for NSFW (nudity) content.
Identicon Generator
                                                      Create an identicon from a provided s...
```

Deploy figlet

```
-- No entries --
alex@alexyang:~/faasd$ faas-cli store list
FUNCTION
                                                             DESCRIPTION
NodeInfo
                                                             Get info about the machine that you'r...
An Alpine Linux shell, set the "fproc...
alpine
                                                             Print the environment variables prese...
env
                                                             Simulate a 2s duration or pass an X–S...
Generate a shasum for the given input
Generate ASCII logos with the figlet CLI
sleep
shasum
Figlet
                                                             Use curl for network diagnostics, pas...
                                                             Python function provides a rating on ...
HTTP load generator, ApacheBench (ab)...
Query the nameserver for the IP addre...
SentimentAnalysis
hey
nslookup
                                                             Returns SSL/TLS certificate informati...
SSL/TLS cert info
Colorization
                                                             Turn black and white photos to color ...
This is a forked version of the work ...
The Have I Been Pwned function lets y...
Inception
Have I Been Pwned
                                                             Detect faces in images using the Pigo...
This function brings OCR – Optical Ch...
Golang function gives the count of re...
Face Detection with Pigo
Tesseract OCR
Dockerhub Stats
QR Code Generator – Go
                                                             QR Code generator using Go
                                                            Tool for network discovery and securi...
Generate a random ASCII cow
Download YouTube videos as a function
Nmap Security Scanner
ASCII Cows
YouTube Video Downloader
OpenFaaS Text-to-Speech
                                                             Generate an MP3 of text using Google'...
                                                             Query an image on the Docker Hub for ...
Detect faces in images. Send a URL as...
Blur out faces detected in JPEGs. Inv...
Docker Image Manifest Query
face-detect with OpenCV
Face blur by Endre Simo
Left–Pad
normalisecolor
                                                             left-pad on OpenFaaS
Automatically fix white-balance in ph...
                                                             Turn any image into a meme.
mememachine
Business Strategy Generator
                                                             Generates a Business Strategy (using ...
Line Drawing Generator from a photograph Automatically generates a sketch like...

Image EXIF Reader Reads EXIF information from an URL or...
Open NSFW Model
                                                             Score images for NSFW (nudity) content.
                                                             Create an identicon from a provided s...
Identicon Generator
alex@alexyang:~/faasd$ faas-cli store deploy figlet
Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/figlet
```

Find the URLs for the function alex@alexyang:~/faasd\$ faas—cli store inspect figlet Info for: Figlet Name figlet Description Generate ASCII logos with the figlet CLI Image ghcr.io/openfaas/figlet:latest Process figlet Repo URL https://github.com/openfaas/store—functions

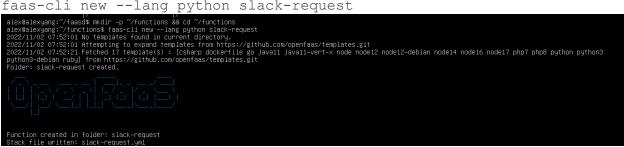
Create some ASCII



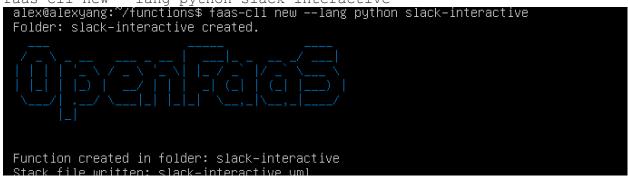
My docker account



mkdir -p ~/functions && cd ~/functions
faas-cli new --lang python slack-request



faas-cli new --lang python slack-interactive



faas-cli build -f ./slack-interactive.yml

Buccessfully built 5022ea769f26

Buccessfully tagged wjy3/slack-interactive:latest

Image: wjy3/slack-interactive:latest built.

[O] < Building slack-interactive done in 278.95s.

[O] Worker done.

Total build time: 279.02s

faas-cli push -f ./slack-interactive.yml

peee9f30bc1f: Mounted from library/python latest: digest: sha256:f61bc2721bcdc93f8248fa799f8201ab0f05b5e13d7fc72bbfc3680e34b19f36 size: 4074 [0] < Pushing slack–interactive [wjy3/slack–interactive:latest] done. [0] Worker done.

faas-cli deploy -f ./slack-interactive.yml

```
Told worker done.

alex@alexyang:~$ faas—cli deploy —f ./slack—interactive.yml

Deploying: slack—interactive.

Deployed. 200 OK.

URL: http://127.0.0.1:8080/function/slack—interactive
```

faas-cli build -f ./slack-request.yml

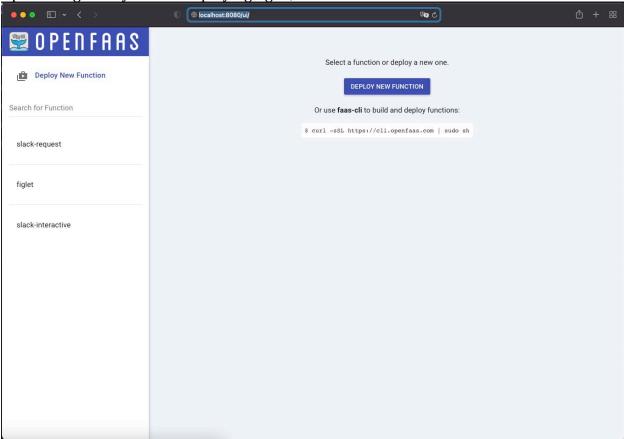
```
---> 2bfdce17391b
Successfully built 2bfdce17391b
Successfully tagged wjy3/slack-request:latest
Image: wjy3/slack-request:latest built.
[0] < Building slack-request done in 34.12s.
[0] Worker done.
```

faas—cli push —f ./slack—request.yml
3fc750b41be7: Mounted from wjy3/slack—interactive
beee9f30bc1f: Mounted from wjy3/slack—interactive
latest: digest: sha256:bd143a9810b210ba20e5dc1ef019495ad752e7d94b91228a1451d20bbd3f93c6 size: 4074
[0] < Pushing slack—request [wjy3/slack—request:latest] done.
[0] Worker done.

faas-cli deploy -f ./slack-request.yml

```
[0] < Pushing slack-request [wjy3/slack-request:latest] done.
[0] Worker done.
alex@alexyang:~$ faas-cli deploy -f ./slack-request.yml
Deploying: slack-request.
Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/slack-request
```

OpenFaaS gateway AFTER deploying figlet, slack-handler and slack-interactive functions



screenshot of invoking slack-request function using FaaS CLI

alex@alexyang:~\$ echo 'hello' | faas-cli invoke slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "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", "author_name": "W
enjie Yang", "title": "The Awesome world of Cloud Computing! COEN 241"], {"text": "DOEN 241 is the most awesome class ever!.", "title": "About COEN 241"], !"tit
e": "Mould you recommend COEN 241 to your friends?", "colorn: "MsAABSE", "actions: {{"text": "Of Course!", "type": "button", "name": "recommend", {"text": "Most Definitely!", "type": "button", "name": "recommend", {"text": "Most Definitely!", "type": "button", "name": "recommend", "type": "definitely", "value": "definitely"]], "callback_id": "response123", "fallback": "Would you re
commend COEN 241 to your friends?", "attachment_type": "default"]]

screenshot of invoking slack-interactive function using FaaS CLI

alex@alexyang: "\$ echo '{"text", "text"} | faas-cli invoke slack-interactive
{"attachments": [{"tootcher": "slack Apps built on OpenFaas", "author_link": "https://github.com/YCoder099", "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/gra
duate/course-descriptions/", 'limage_url': "https://www.scu.edu/medla/Offices/umc/scu-brand-guidellnes/visual-identity-amp-photography/visual-identity-toolk/log
gos-amp-seals/Mission-Dont3.png", "response.type": "ephemeral", "replace_original": true, "footer_icon": "https://a.slack-edge.com/4590/Jmarketing/img/_rebrand/
meta/slack_hash_256.png", "pretext": "Bhh yeah! Great choice, COEN 241 is absolutely amazing!", "fallback": "Required plain-text summary of the attachment.", "t
humb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.
com/YCoder099.png"]]

screenshot of invoking slack-request function using Curl

screenshot of invoking slack-interactive function using Curl

Task:

Provide a screenshot of invoking the figlet function

```
alex@alexyang:~/faasd$ echo "Hello, Faas, World" | faas–cli invoke figlet
```

Screenshot of running \$sudo journalctl -u faasd --lines 40

```
Screenshot of running $sudo journalctl -u faasd --lines 40

alex@alexplang: "faasds sudo journalctl -u faasd --lines 40

-- Logs begin at Tue 2022-11-01 23:17:23 UTO, end at Med 2022-11-02 06:06:22 UTC. --

NOV 02 05:43:47 alexplang faasd (2346): 2022/11/02 05:43:47 - queue-worker

NOV 02 05:43:47 alexplang faasd (2346): 2022/11/02 05:43:47 - queue-worker

NOV 02 05:43:47 alexplang faasd (2346): 2022/11/02 05:43:47 - queue-worker

NOV 02 05:43:47 alexplang faasd (2346): 2022/11/02 05:43:47 - queue-worker

NOV 02 05:43:47 alexplang faasd (2346): 2022/11/02 05:43:47 muning nats with user: "65534"

NOV 02 05:43:48 alexplang faasd (2346): 2022/11/02 05:43:48 Dreated container: nats

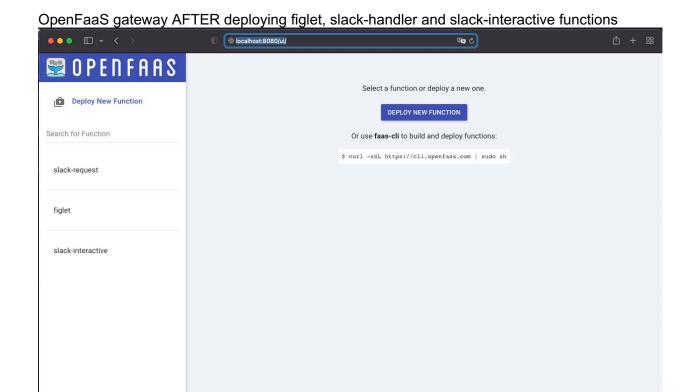
NOV 02 05:43:48 alexplang faasd (2346): 2022/11/02 05:44:01 Task: nats

Container: nats

NOV 02 05:44:01 alexplang faasd (2346): 2022/11/02 05:44:01 Task: nats

Container: nats

NOV 02 05:44:02 alexplang faasd (2345): 2022/11/02 05:44:02 favore favore
```



screenshot of invoking slack-request function using FaaS CLI

```
alex@alexyang:~$ echo 'hello' | faas-cli invoke slack-request {"text": "Serverless Message", "attachments": {{"fields": {{"short": true, "value": "100", "title": "Amazing Level"}}, "author_icon": "", "image_url": "https://www.scu.edv/media/orfices/um/scu-brand-guidelines/visual-identity-amo-photography/visual-identity-toolkit/logos-amp-seals/Mission-Dont3.png", "author_name": "Wenjie Yang", "title": "The Awesome world of Cloud Computing! COEN 241"}, {"text": "COEN 241 is the most awesome class ever!.", "title": "About COEN 241"}, {"title": "About COEN 241 to your friends?", "color': "#3AA3E3", "actions": {{"text": "0f Course!", 'type": "button", "name": "recommend", "value": "recommend", {"text": "Gefinitely"}, "value": "definitely"}], "callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default"}}}
```

screenshot of invoking slack-interactive function using FaaS CLI

```
alex@alexyang:"$ echo '["text", 'text")' | faas-cli invoke slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/YCoder099", "color": "#36a64f", "text": "Head over to COEN 241",
"title": "OGEN 241", "ts": 123456789, "author_name': "", "title_link': "https://www.scu.edu/englneering/academic-programs/department-of-computer-engineering/gra
duate/course-descriptions", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-identity-toolkit/lo
gos-amp-seals/wission-Don013.png", "response_type': "ephemeral", "replace_orignal": true, "footer_icon": "https://a.slack-edge.com/45901/marketing/ing/_repland/
meta/slack_hash_256.png", "pretext": "Ahh yeah! Great choice, COEN 241 is absolutely amazing!", "fallback": "Required plain-text summary of the attachment.", "t
humb_url": "https://www.scu.edu/engineering/academic-programs/department-of-computer-engineering/graduate/course-descriptions/", "author_icon": "https://github.
com/YCoder099.png"]]

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screenshot of invoking slack-request function using Curl

wey page Not Young wy Curl http://localhost:8888/function/slack-request --data *hello" (*toxt: "Serverless Mesage", "Attachments": [*ficids": [*short": true, "value": "190", "title": "Amazing Level"]), "author_icon": "", "image_url": "https://www.scu.edu/media/offices/umc/scu-brand-guid elines/visual-identity-amp-photography/visual-identity-amp-in-toolkit/logos-amp-seals/Rhission-Dont3.png", "author_name": "Wenjie Yang", "title": "The Amesome world of Cloud Computing! COEN 241"), ("text:" 'COEN 241 is the most amesome class ever!", "title": "About COEN 241"), ("title": "Mould you recommend COEN 241 to your friends?", "color:" "#3AASE3", "actions": [{"text": "Yor Course!", "type": "button", "name": "definitely", "value": "definitely"}], "callback_id": "response123", "fallback": "Would you recommend COEN 241 to your friends?", "attachment_type": "default"})}
wy@wemenieyang - X []

screenshot of invoking slack-interactive function using Curl

[wyöennisyng = N curl http://localhosite8889/inclion/alsex-interactive —data ('toxi: 'text).

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[wyöennisyng = N curl http://coalhosite8899/inclion/alsex-interactive —data ('toxi: 'text).

[wyöennisyng = N curl http://coalhosite8899/inclion/alsex-interactive —data ('toxi: 'text).

[wyöennisyng = N curl http://coalhosite899/inclion/alsex-interactive —data ('toxi: 'text).

[wyöennisyng = N curl http://coalhosite899/inclion/alsex-interactive —data ('toxi: 'text).

[wyöennisyng = N curl http://co