Fig.1 figlet working

```
wuyuz99@wuyuz99:~/functions$ sudo journalctl -u faasd --lines 40
[sudo] password for wuyuz99:
  -- Journal begins at Thu 2021-10-07 10:12:44 PDT, ends at Wed 2021-11-10 20:24:17 PST. --
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 Start-up order:
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 - nats
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 - queue-worker
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 - basic-auth-plugin
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 - prometheus
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 - gateway
Nov 10 12:34:18 wuyuz99 faasd[857]: Starting: nats
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 Created container: nats
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 nats has IP: 10.62.0.2
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 Task: nats Conta
Nov 10 12:34:18 wuyuz99 faasd[857]: Starting: queue-worker
Nov 10 12:34:18 wuyuz99 faasd[857]: 2021/11/10 12:34:18 Created container: queue-worker
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 queue-worker has IP: 10.62.0.3
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Task: queue-worker
Nov 10 12:34:19 wuyuz99 faasd[857]: Starting: basic-auth-plugin
                                                                                                                                                                          Container: queue-worker
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Created container: basic-auth-plugin
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 basic-auth-plugin has IP: 10.62.0.4
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Task: basic-auth-plugin Conta
                                                                                                                                                                                    Container: basic-auth-plugin
Nov 10 12:34:19 wuyuz99 faasd[857]: Starting: prometheus
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Created container: prometheus
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 prometheus has IP: 10.62.0.5
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Task: prometheus Cont.
Nov 10 12:34:19 wuyuz99 faasd[857]: Starting: gateway
                                                                                                                                                                       Container: prometheus
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Created container: gateway
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 gateway has IP: 10.62.0.6
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Task: gateway Conta
                                                                                                                                                            Container: gateway
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Supervisor init done in: 1.884439842s
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Looking up IP for: "prometheus"
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Eooking up IP for: prometheus

Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver rebuilding map

Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Looking up IP for: "gateway"

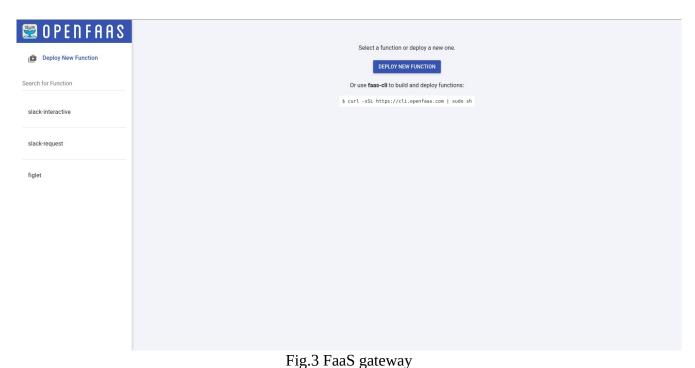
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver: "localhost"="127.0.0.1"

Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver: "faasd-provider"="10.62.0.1"

Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver: "nats"="10.62.0.2"

Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver: "queue-worker"="10.62.0.3"
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver: "basic-auth-plugin"="10.62.0.4"
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver: "prometheus"="10.62.0.5"
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Resolver: prometheus = 10:20:0.3
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 Proxy from: 0.0.0:8080, to: gateway:8080 (10.62.0.6)
Nov 10 12:34:19 wuyuz99 faasd[857]: 2021/11/10 12:34:19 faasd: waiting for SIGTERM or SIGINT
Nov 10 12:34:20 wuyuz99 faasd[857]: 2021/11/10 12:34:20 Proxy from: 127.0.0.1:9090, to: prometheus:9090 (10.62.0.5)
```

Fig.2 journalctl faasd



wuyuz99@wuyuz99:~/functions\$ echo "" | faas-cli invoke slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "", "image_url": "wuyuz9
9/slack-request", "author_name": "Yuzheng Wu", "title": "The Awesome world of C
loud 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": "butt
on", "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?", "at
tachment type": "default"}]}

Fig.4 slack-request in terminal

```
wuyuz99@wuyuz99:~/functions$ echo '{"HELLO": "COEN241"}' | faas-cli invoke slac
k-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "htt
ps://github.com/wuyuz99", "color": "#36a64f", "text": "Head over to COEN 241",
"title": "COEN 241", "ts": 123456789, "author_name": "Yuzheng Wu", "title_link"
: "https://www.scu.edu/engineering/academic-programs/department-of-computer-eng
ineering/graduate/course-descriptions/", "image_url": "https://www.scu.edu/medi
a/offices/umc/scu-brand-guidelines/visual-identity-amp-photography/visual-ident
ity-toolkit/logos-amp-seals/Mission-Dont3.png", "response_type": "ephemeral", "
replace_original": true, "footer_icon": "https://a.slack-edge.com/45901/marketi
ng/img/_rebrand/meta/slack_hash_256.png", "pretext": "Ahh yeah! Great choice, C
OEN 241 is absolutely amazing!", "fallback": "Required plain-text summary of th
e attachment.", "thumb_url": "https://www.scu.edu/engineering/academic-programs
/department-of-computer-engineering/graduate/course-descriptions/", "author_ico
n": "https://avatars.githubusercontent.com/u/49510556?s=400&v=4"}]}
```

Fig.5 slack-interactive in terminal

```
E Terminal ∨
                                                                                                                                                                        Nov 10 21:09
                                                                                                                                                                  wuyuz99@wuyuz99: ~
ngrok by @inconshreveable
Account
                                                    ywu4@scu.edu (Plan: Free)
Version
                                                    2.3.40
                                                    United States (us)
Region
                                                   http://127.0.0.1:4040
http://72fe-2601-647-4000-e6d0-5c66-5c9-38c7-a8b6.ngrok.io -> http://localhost:8080
https://72fe-2601-647-4000-e6d0-5c66-5c9-38c7-a8b6.ngrok.io -> http://localhost:8080
Web Interface
Forwarding
Forwarding
Connections
                                                                                                           p50
                                                                                                                        p90
                                                                                                                        61.45
                                                                              0.02
                                                                                            0.01
                                                                                                           25.93
HTTP Requests
POST /function/slack-interactive 200 OK
POST /function/slack-request 200 OK
POST /function/slack-interactive 200 OK
POST /function/slack-request 200 OK
POST /function/slack-request 200 OK
POST /function/slack-interactive 200 OK
POST /function/slack-interactive 200 OK
POST /function/slack-interactive 200 OK
POST /function/slack-request 200 OK
POST /function/slack-request
                                                         200 OK
```

Fig.6 ngrok running



Fig.7 slack-request in slack

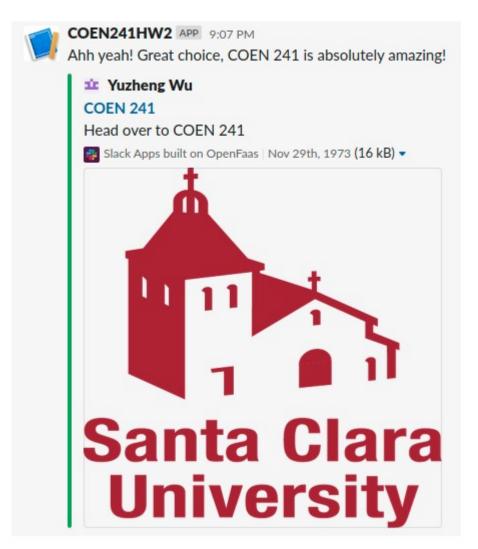


Fig8. slack-interactive in slack