

Your Own Serverless Infrastructure

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- **Figlet Function Invocation from command line -**

Figlet Function is a function that is already deployed and present in faas-cli store that can be invoked through faas-cli or curl command or using gateway UI through browser. The function generates ascii valued figures of given string input. For example, in the below screenshot the function takes input string - “Hello, FaaS, world” and generates the figure as shown in the screenshot.

[illegible]

- **Complete slack-request/handler.py -**

Complete slack-request can be found in this folder -

<https://github.com/panu2306/cloud-computing-course/tree/main/homeworks/hw2/slack-request>

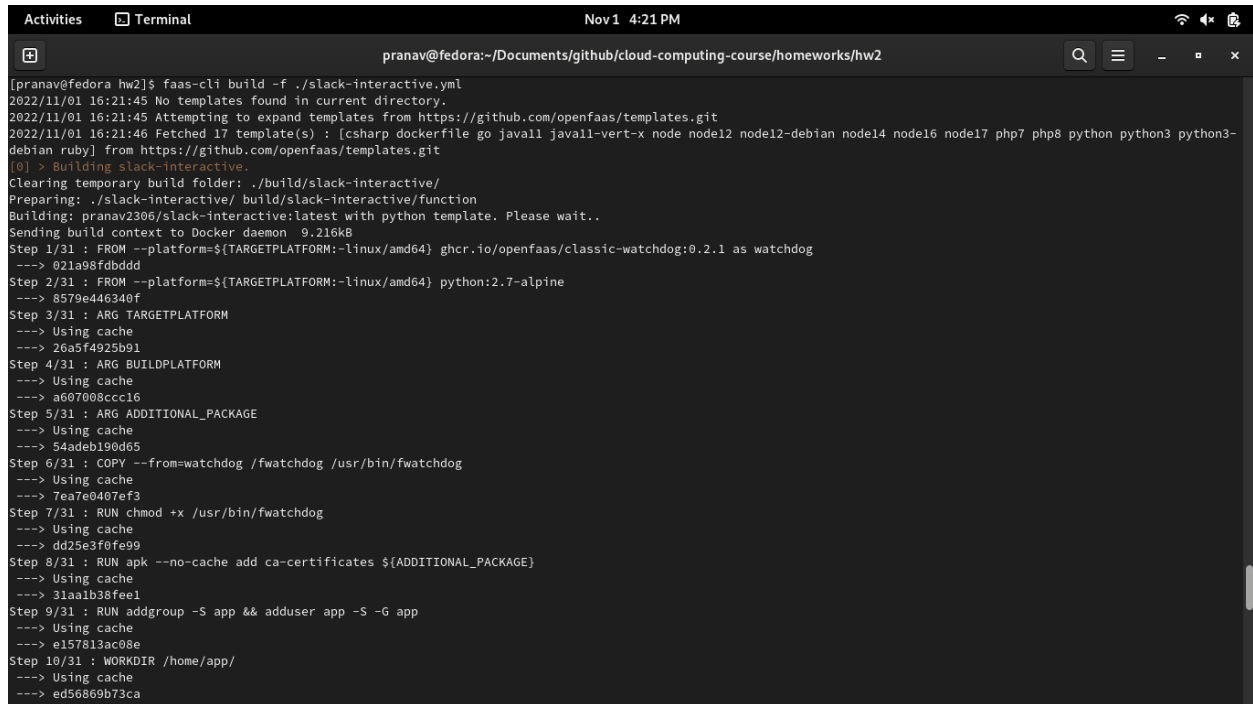
- **Complete slack-interactive/handler.py -**

Complete slack-request can be found in this folder -

<https://github.com/panu2306/cloud-computing-course/tree/main/homeworks/hw2/slack-interactive>

● Slack Interactive Build -

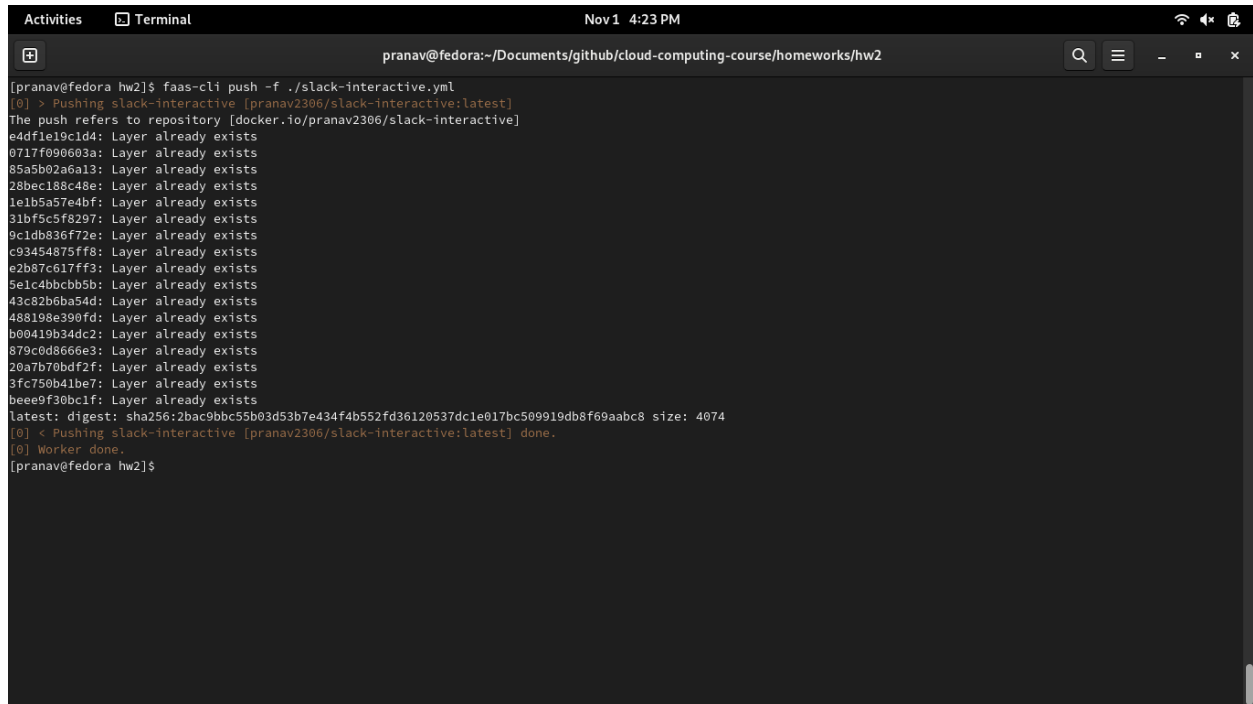
The slack build command builds a docker image for the function and its dependencies which is used for creating and running a container. Below screenshot shows the functionality of 'faas-cli push -f ./slack-interactive.yml' command -

A terminal window titled 'pranav@fedora:~/Documents/github/cloud-computing-course/homeworks/hw2' showing the output of the 'faas-cli build' command. The terminal output includes the command execution, template fetching, build preparation, and a series of steps (1/31 to 10/31) showing the building of the Docker image, including platform selection, cache usage, and package installation.

```
[pranav@fedora hw2]$ faas-cli build -f ./slack-interactive.yml
2022/11/01 16:21:45 No templates found in current directory.
2022/11/01 16:21:45 Attempting to expand templates from https://github.com/openfaas/templates.git
2022/11/01 16:21:46 Fetched 17 template(s) : [csharp dockerfile go javall javall-vert-x node node12 node12-debian node14 node16 node17 php7 php8 python python3 python3-debian ruby] from https://github.com/openfaas/templates.git
[0] > Building slack-interactive.
Clearing temporary build folder: ./build/slack-interactive/
Preparing: ./slack-interactive/ build/slack-interactive/function
Building: pranav2306/slack-interactive:latest with python template. Please wait..
Sending build context to Docker daemon 9.216kB
Step 1/31 : FROM --platform=${TARGETPLATFORM:-linux/amd64} ghcr.io/openfaas/classic-watchdog:0.2.1 as watchdog
--> 021a98fdbddd
Step 2/31 : FROM --platform=${TARGETPLATFORM:-linux/amd64} python:2.7-alpine
--> 8579e446340f
Step 3/31 : ARG TARGETPLATFORM
--> Using cache
--> 26a5f4925b91
Step 4/31 : ARG BUILDPLATFORM
--> Using cache
--> a607008cce16
Step 5/31 : ARG ADDITIONAL_PACKAGE
--> Using cache
--> 54adeb190d65
Step 6/31 : COPY --from=watchdog /fwatcdog /usr/bin/fwatcdog
--> Using cache
--> 7ea7e0407ef3
Step 7/31 : RUN chmod +x /usr/bin/fwatcdog
--> Using cache
--> dd25e3f0fe99
Step 8/31 : RUN apk --no-cache add ca-certificates ${ADDITIONAL_PACKAGE}
--> Using cache
--> 31aa1b38fee1
Step 9/31 : RUN addgroup -S app && adduser app -S -G app
--> Using cache
--> e157813ac08e
Step 10/31 : WORKDIR /home/app/
--> Using cache
--> ed56869b73ca
```

- **Slack Interactive Push -**

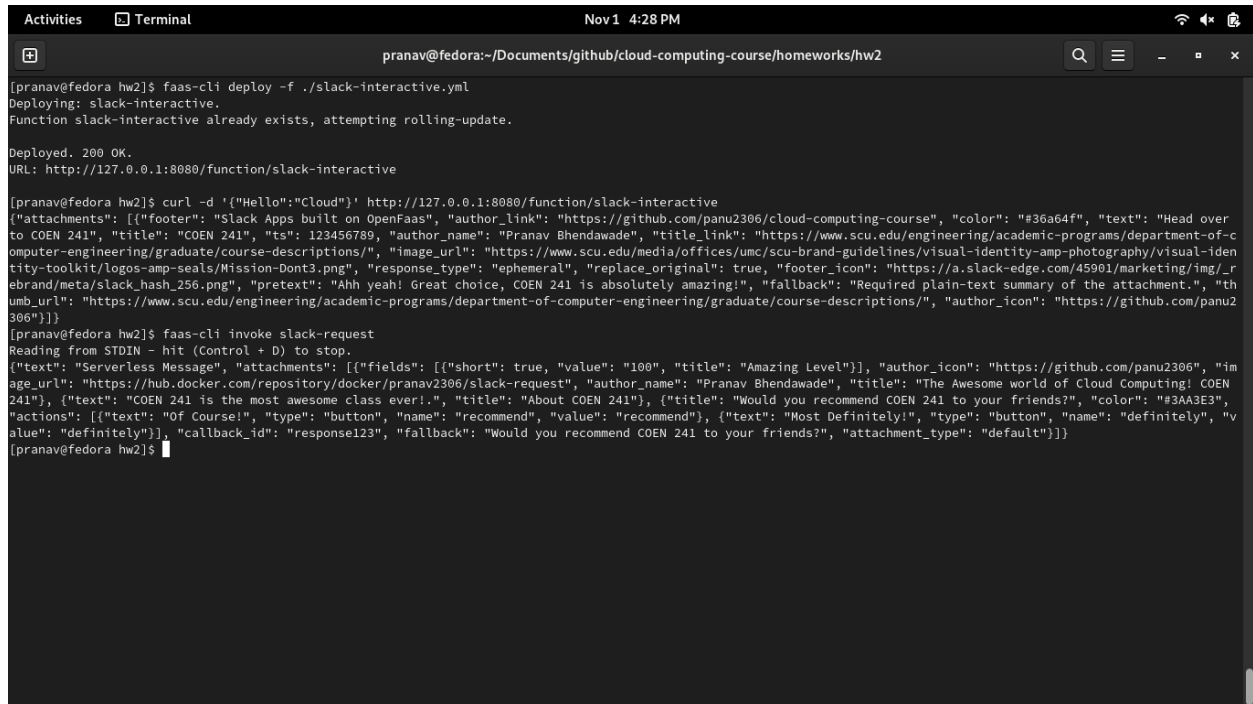
Slack Push command uploads the image of the functions with its runtime libraries and dependencies to the docker hub. Below screenshot shows the functionality of 'faas-cli push -f ./slack-interactive.yml' command -

A terminal window titled 'pranav@fedora: ~/Documents/github/cloud-computing-course/homeworks/hw2' showing the execution of the 'faas-cli push' command. The command 'faas-cli push -f ./slack-interactive.yml' is entered, and the output shows the image being pushed to Docker Hub. The output lists various layers and their status, indicating they are already exists. The final output shows the image being pushed successfully with a digest and size, and the worker is done.

```
[pranav@fedora hw2]$ faas-cli push -f ./slack-interactive.yml
[0] > Pushing slack-interactive [pranav2306/slack-interactive:latest]
The push refers to repository [docker.io/pranav2306/slack-interactive]
e4df1e19c1d4: Layer already exists
0717f090603a: Layer already exists
85a5b02a6a13: Layer already exists
28bec188c48e: Layer already exists
1e1b5a57e4bf: Layer already exists
31bf5c5f8297: Layer already exists
9c1db836f72e: Layer already exists
c93454875ff8: Layer already exists
e2b87c617ff3: Layer already exists
5e1c4bcbcb5b: Layer already exists
43c92b6ba54d: Layer already exists
488198e390fd: Layer already exists
b00419b34dc2: Layer already exists
879c0d866e3: Layer already exists
20a7b70bdf2f: Layer already exists
3fc750b41be7: Layer already exists
beee9f30bc1f: Layer already exists
latest: digest: sha256:2bac9bbc55b03d53b7e434f4b552fd36120537dc1e017bc509919db8f69aabc8 size: 4074
[0] < Pushing slack-interactive [pranav2306/slack-interactive:latest] done.
[0] Worker done.
[pranav@fedora hw2]$
```

- **Slack Interactive Deploy -**

Slack Push command takes the image from docker hub and runs a container/s for the provided function. Below screenshot shows the functionality of 'faas-cli deploy -f ./slack-interactive.yml' command -



```
[pranav@fedora hw2]$ faas-cli deploy -f ./slack-interactive.yml
Deploying: slack-interactive.
Function slack-interactive already exists, attempting rolling-update.

Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/slack-interactive

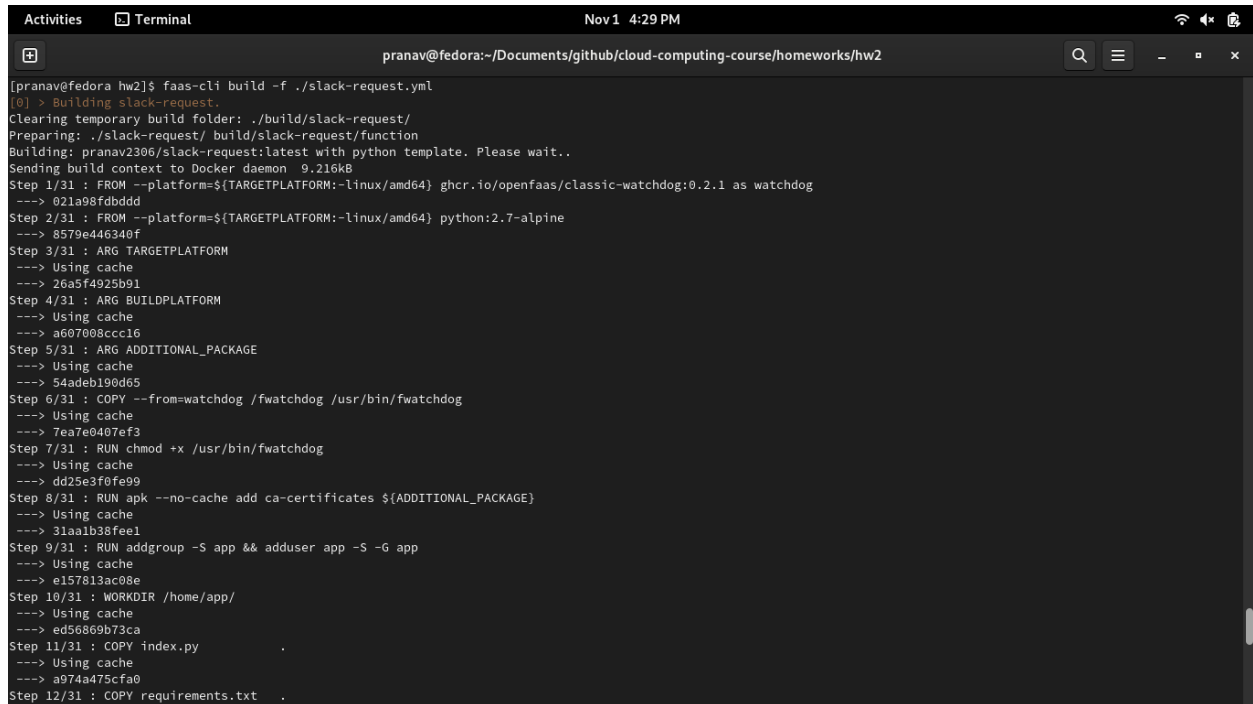
[pranav@fedora hw2]$ curl -d '{"Hello":"Cloud"}' http://127.0.0.1:8080/function/slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/panu2306/cloud-computing-course", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "Pranav Bhendawade", "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/panu2306"}]}

[pranav@fedora hw2]$ 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": "https://github.com/panu2306", "image_url": "https://hub.docker.com/repository/docker/pranav2306/slack-request", "author_name": "Pranav Bhendawade", "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"}]}

[pranav@fedora hw2]$
```

● Slack Request Build -

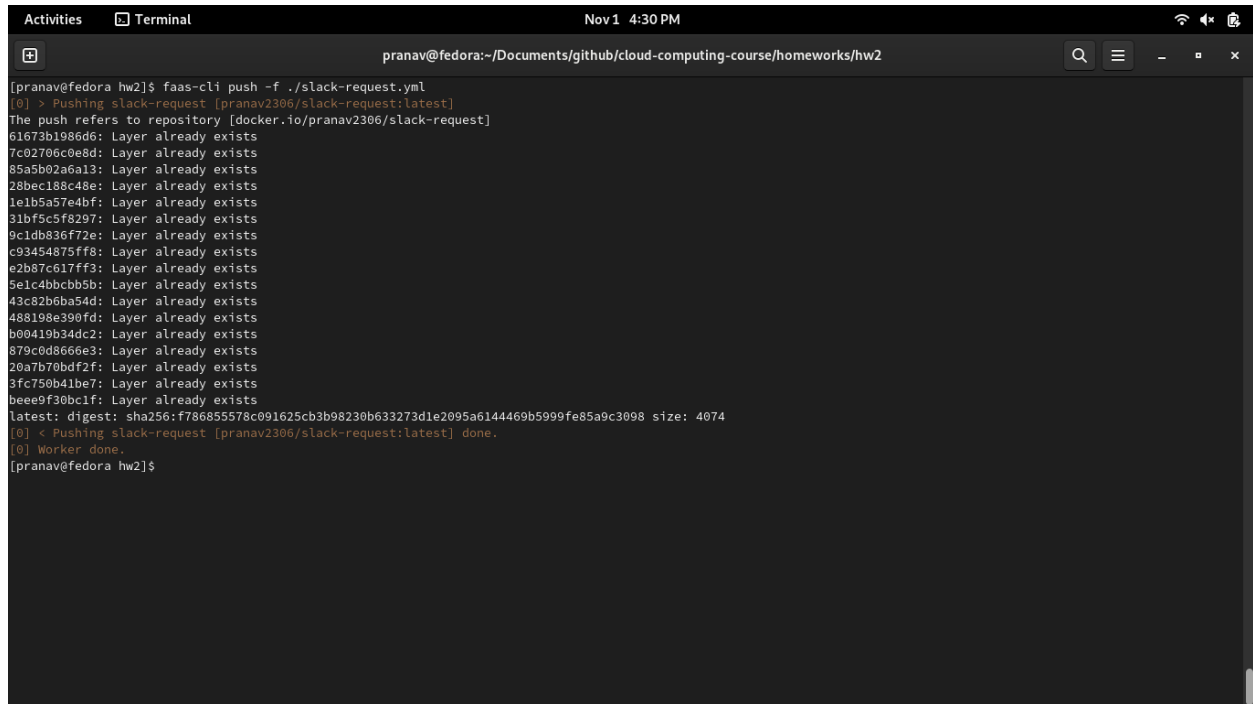
The slack build command builds a docker image for the function and its dependencies which is used for creating and running a container. Below screenshot shows the functionality of 'faas-cli push -f ./slack-request.yml' command -

A terminal window titled 'pranav@fedora:~/Documents/github/cloud-computing-course/homeworks/hw2' showing the output of the 'faas-cli build' command. The output details the steps of building a Docker image, including clearing the build folder, preparing the build context, and sending it to the Docker daemon. It lists 12 steps, each with a cache ID and a description of the action being performed, such as copying files, running commands, and adding packages.

```
[pranav@fedora hw2]$ faas-cli build -f ./slack-request.yml
[0] > Building slack-request.
Clearing temporary build folder: ./build/slack-request/
Preparing: ./slack-request/ build/slack-request/function
Building: pranav2306/slack-request:latest with python template. Please wait..
Sending build context to Docker daemon  9.216kB
Step 1/31 : FROM --platform=${TARGETPLATFORM:-linux/amd64} ghcr.io/openfaas/classic-watchdog:0.2.1 as watchdog
--> 021a98fdbddd
Step 2/31 : FROM --platform=${TARGETPLATFORM:-linux/amd64} python:2.7-alpine
--> 8579e446340f
Step 3/31 : ARG TARGETPLATFORM
--> Using cache
--> 26a5f4925b91
Step 4/31 : ARG BUILDPLATFORM
--> Using cache
--> a607008ccc16
Step 5/31 : ARG ADDITIONAL_PACKAGE
--> Using cache
--> 54adeb196d65
Step 6/31 : COPY --from=watchdog /fwatcdog /usr/bin/fwatcdog
--> Using cache
--> 7ea7e0407ef3
Step 7/31 : RUN chmod +x /usr/bin/fwatcdog
--> Using cache
--> dd25e3f0fe99
Step 8/31 : RUN apk --no-cache add ca-certificates ${ADDITIONAL_PACKAGE}
--> Using cache
--> 31aa1b38fee1
Step 9/31 : RUN addgroup -S app && adduser app -S -G app
--> Using cache
--> e157813ac08e
Step 10/31 : WORKDIR /home/app/
--> Using cache
--> ed56869b73ca
Step 11/31 : COPY index.py .
--> Using cache
--> a974a475cfa0
Step 12/31 : COPY requirements.txt .
```

- **Slack Request Push -**

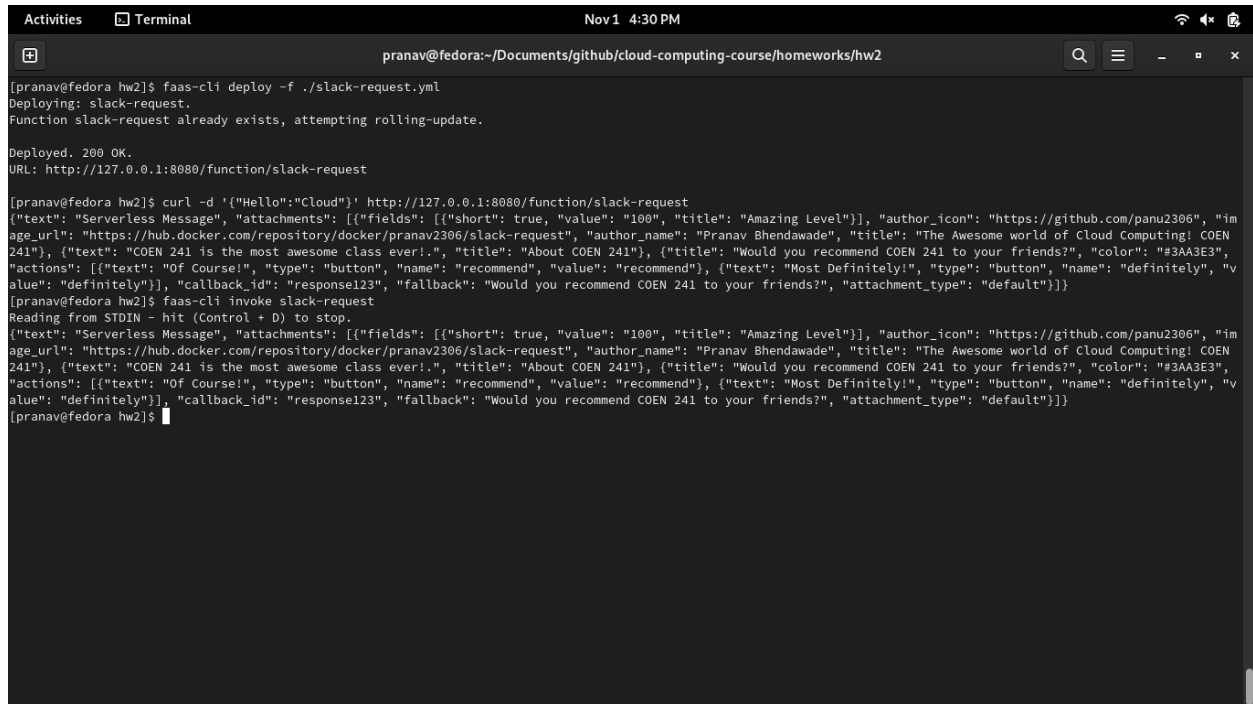
Slack Push command uploads the image of the functions with its runtime libraries and dependencies to the docker hub. Below screenshot shows the functionality of 'faas-cli push -f ./slack-interactive.yml' command -

A terminal window titled 'pranav@fedora: ~/Documents/github/cloud-computing-course/homeworks/hw2' showing the execution of the 'faas-cli push' command. The command is 'faas-cli push -f ./slack-request.yml'. The output shows the command pushing the 'slack-request' function to the 'pranav2306/slack-request:latest' repository. It lists 20 layers that already exist and shows the digest and size of the latest image. The command completes successfully, showing 'Worker done.' and returning to the prompt.

```
[pranav@fedora hw2]$ faas-cli push -f ./slack-request.yml
[0] > Pushing slack-request [pranav2306/slack-request:latest]
The push refers to repository [docker.io/pranav2306/slack-request]
61673b1986d6: Layer already exists
7c02706c0e8d: Layer already exists
85a5b02a6a13: Layer already exists
28bec188c48e: Layer already exists
1e1b5a57e4bf: Layer already exists
31bf5c5f8297: Layer already exists
9c1db836f72e: Layer already exists
c93454875ff8: Layer already exists
e2b87c617ff3: Layer already exists
5e1c4bcbcb5b: Layer already exists
43c92b6ba54d: Layer already exists
488198e390fd: Layer already exists
b00419b34dc2: Layer already exists
879c0d866e3: Layer already exists
20a7b70bdf2f: Layer already exists
3fc750b41be7: Layer already exists
beee9f30bc1f: Layer already exists
latest: digest: sha256:f786855578c091625cb3b98230b633273d1e2095a6144469b5999fe85a9c3098 size: 4074
[0] < Pushing slack-request [pranav2306/slack-request:latest] done.
[0] Worker done.
[pranav@fedora hw2]$
```

- **Slack Request Deploy -**

Slack Push command takes the image from docker hub and runs a container/s for the provided function. Below screenshot shows the functionality of 'faas-cli deploy -f ./slack-request.yml' command -



```
[pranav@fedora hw2]$ faas-cli deploy -f ./slack-request.yml
Deploying: slack-request.
Function slack-request already exists, attempting rolling-update.

Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/slack-request

[pranav@fedora hw2]$ curl -d '{"Hello":"Cloud"}' http://127.0.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "https://github.com/panu2306", "image_url": "https://hub.docker.com/repository/docker/pranav2306/slack-request", "author_name": "Pranav Bhendawade", "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"}]}
[pranav@fedora hw2]$ 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": "https://github.com/panu2306", "image_url": "https://hub.docker.com/repository/docker/pranav2306/slack-request", "author_name": "Pranav Bhendawade", "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"}]}
[pranav@fedora hw2]$
```


- **sudo journalctl -u faasd --lines 40 -**

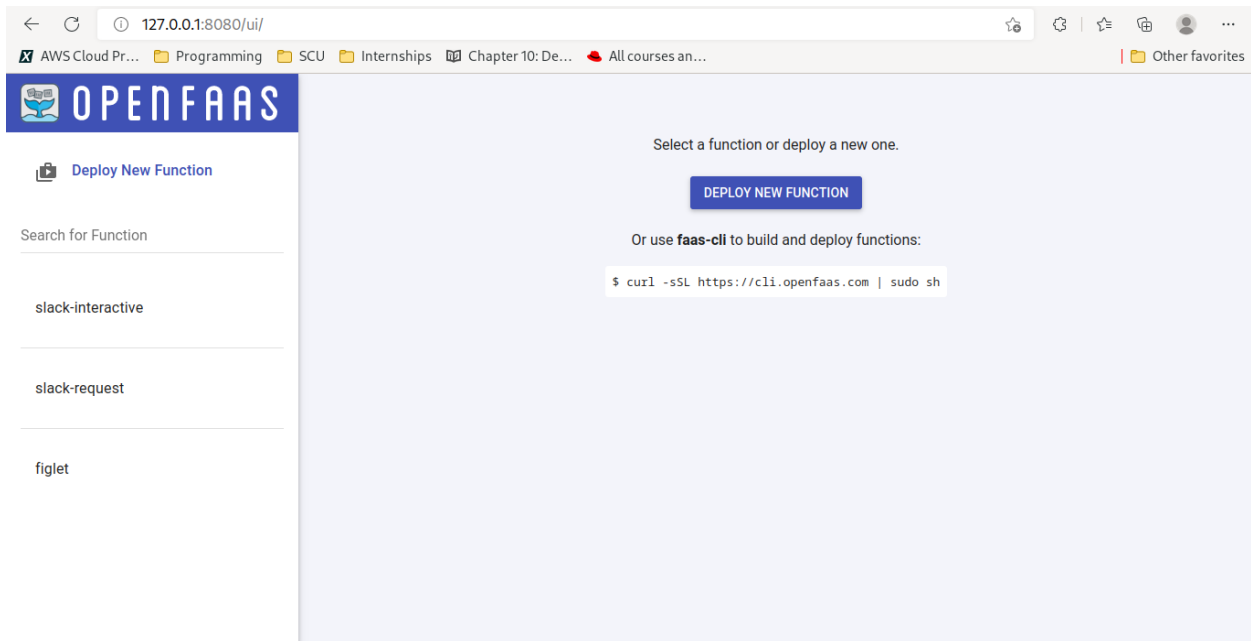
Journalctl command utility helps to collect the kernel space and user space logs of different processes. Above command is used to display the 40 lines of logs of faasd.service. Below is the screenshot of output of above command -

```
[pranav@fedora hw2]$ sudo journalctl -u faasd --lines 40
[sudo] password for pranav:
Nov 01 08:27:59 fedora faasd[779]: 2022/11/01 08:27:59 - gateway
Nov 01 08:27:59 fedora faasd[779]: 2022/11/01 08:27:59 - queue-worker
Nov 01 08:27:59 fedora faasd[779]: Starting: prometheus
Nov 01 08:27:59 fedora faasd[779]: Creating local directory: /var/lib/faasd/prometheus
Nov 01 08:27:59 fedora faasd[779]: 2022/11/01 08:27:59 Running prometheus with user: "65534"
Nov 01 08:27:59 fedora faasd[779]: 2022/11/01 08:27:59 Created container: prometheus
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 prometheus has IP: 10.62.0.2
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 Task: prometheus Container: prometheus
Nov 01 08:28:00 fedora faasd[779]: Starting: basic-auth-plugin
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 Created container: basic-auth-plugin
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 basic-auth-plugin has IP: 10.62.0.3
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 Task: basic-auth-plugin Container: basic-auth-plugin
Nov 01 08:28:00 fedora faasd[779]: Starting: nats
Nov 01 08:28:00 fedora faasd[779]: Creating local directory: /var/lib/faasd/nats
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 Running nats with user: "65534"
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 Created container: nats
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 nats has IP: 10.62.0.4
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 Task: nats Container: nats
Nov 01 08:28:00 fedora faasd[779]: Starting: gateway
Nov 01 08:28:00 fedora faasd[779]: 2022/11/01 08:28:00 Created container: gateway
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 gateway has IP: 10.62.0.5
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Task: gateway Container: gateway
Nov 01 08:28:01 fedora faasd[779]: Starting: queue-worker
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Created container: queue-worker
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 queue-worker has IP: 10.62.0.6
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Task: queue-worker Container: queue-worker
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Supervisor init done in: 2 seconds
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Looking up IP for: "gateway"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver rebuilding map
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Looking up IP for: "prometheus"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver: "localhost"="127.0.0.1"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver: "faasd-provider"="10.62.0.1"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver: "prometheus"="10.62.0.2"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver: "basic-auth-plugin"="10.62.0.3"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver: "nats"="10.62.0.4"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver: "gateway"="10.62.0.5"
Nov 01 08:28:01 fedora faasd[779]: 2022/11/01 08:28:01 Resolver: "queue-worker"="10.62.0.6"
lines 1-37...skipping...
Nov 01 08:27:59 fedora faasd[779]: 2022/11/01 08:27:59 - gateway
Nov 01 08:27:59 fedora faasd[779]: 2022/11/01 08:27:59 - queue-worker
```

- **OpenFaaS Gateway Screenshots -**

OpenFaaS Gateway is the API gateway that accepts and processes the commands from faas-cli, REST APIs or programs and passes it over to other components like Prometheus, NATFS, Containerd, Kubernetes etc. to perform their tasks. OpenFaaS gateway UI can be launched at <http://127.0.0.1:8080/ui/> to check the list of functions that are deployed. Using UI, we can also invoke functions that are deployed.


1. **All Function Display -**




2. Figlet Function -

[illegible]

3. Slack Request Function -

 **OPENFAAS**

 **Deploy New Function**

Search for Function

slack-interactive

slack-request

figlet

slack-request

Status

Ready

Replicas

1

Invocation count

4

Image

docker.io/pranav2306/slack-request:latest

URL

http://127.0.0.1:8080/function/slack-request

Function process

python index.py

Invoke function

INVOKE

☒ Text ☐ JSON ☐ Download

Request body

"Hi"

Response status

200


Round-trip (s)


0.115

Response body

```
{
  "text": "Serverless Message",
  "attachments": [
    {
      "fields": [
```

4. Slack Interactive Function -

 **OPENFAAS**

 [Deploy New Function](#)

Search for Function

slack-interactive

slack-request

figlet

slack-interactive

Status

Ready

Replicas

1

Invocation count

21

Image

docker.io/pranav2306/slack-interactive:latest

URL

<http://127.0.0.1:8080/function/slack-interactive>

Function process

python index.py

Invoke function

INVOKE

☒ Text ☐ JSON ☐ Download

Request body

"Hi"

Response status

200

Round-trip (s)

0.201

Response body

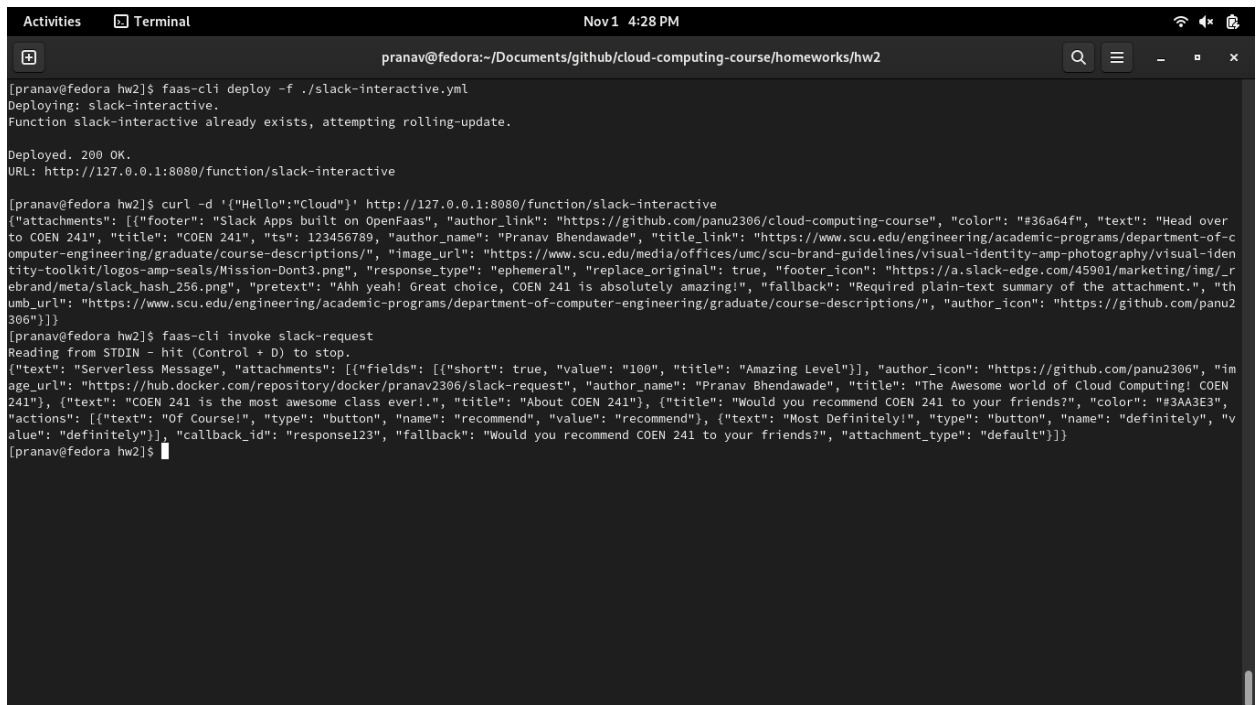
```
{
  "attachments": [
    {
      "footer": "Slack Apps built on OpenFaas",
      "author_link": "https://github.com/panu2306/cloud-computing-course",

```

- **Screenshots of invoking Slack Request and Slack Interactive Functions -**

OpenFaaS functions can be invoked using multiple ways. Two of the ways are using faas-cli invoke command and curl command. Below are the screenshot of invoking both - slack interactive and slack request - functions using these two options.

1. **Invoke Slack Interactive using 'faas-cli invoke' and 'curl' command -**



```
pranav@fedora: ~/Documents/github/cloud-computing-course/homeworks/hw2
[pranav@fedora hw2]$ faas-cli deploy -f ./slack-interactive.yml
Deploying: slack-interactive.
Function slack-interactive already exists, attempting rolling-update.

Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/slack-interactive

[pranav@fedora hw2]$ curl -d '{"Hello":"Cloud"}' http://127.0.0.1:8080/function/slack-interactive
{"attachments": [{"footer": "Slack Apps built on OpenFaas", "author_link": "https://github.com/panu2306/cloud-computing-course", "color": "#36a64f", "text": "Head over to COEN 241", "title": "COEN 241", "ts": 123456789, "author_name": "Pranav Bhendawade", "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/panu2306"}]}

[pranav@fedora hw2]$ 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": "https://github.com/panu2306", "image_url": "https://hub.docker.com/repository/docker/pranav2306/slack-request", "author_name": "Pranav Bhendawade", "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"}]}
[pranav@fedora hw2]$
```

2. Invoke Slack Request using 'faas-cli invoke' and 'curl' command -

```
Activities Terminal Nov 1 4:30 PM
pranav@fedora:~/Documents/github/cloud-computing-course/homeworks/hw2

[pranav@fedora hw2]$ faas-cli deploy -f ./slack-request.yml
Deploying: slack-request.
Function slack-request already exists, attempting rolling-update.

Deployed. 200 OK.
URL: http://127.0.0.1:8080/function/slack-request

[pranav@fedora hw2]$ curl -d '{"Hello":"Cloud"}' http://127.0.0.1:8080/function/slack-request
{"text": "Serverless Message", "attachments": [{"fields": [{"short": true, "value": "100", "title": "Amazing Level"}], "author_icon": "https://github.com/panu2306", "image_url": "https://hub.docker.com/repository/docker/pranav2306/slack-request", "author_name": "Pranav Bhendawade", "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"}]}
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[pranav@fedora hw2]$
```

