

OpenFaaS – Installation and Function Deployment

For OpenFaaS documentation, see <https://www.openfaas.com/>

1. Assumption

A Virtual Machine running on Microsoft Azure Cloud. Ubuntu is the preferred OS.

2. Install faasd with Bash

```
git clone https://github.com/openfaas/faasd --depth=1
cd faasd
./hack/install.sh
```

3. Install faas-cli

For information, see [GitHub - openfaas/faas-cli: Official CLI for OpenFaaS](https://github.com/openfaas/faas-cli)

Install the CLI with a `curl` utility script:

```
curl -sSL https://cli.openfaas.com | sudo sh
```

4. Log into faasd with the CLI and UI

Whenever you run `faas-cli`, it will be remotely, using the OpenFaaS REST API exposed by the `faasd` instance. Log into your `faasd` host with `ssh` and find the password for the admin user:

```
sudo cat /var/lib/faasd/secrets/basic-auth-password ;echo
```

This will input something like this:

```
f16a68c8e731214ce388c07af314e6266b70b964
```

Save the result in a text file as `faasd.txt`

Next configure your `OPENFAAS_URL` variable, use

```
export OPENFAAS_URL=http://vm-ip:8080
```

where `vm-ip` is the IP address of your VM running on Azure. You may want to save the above line to your `.bashrc` profile to make it permanent.

Next log into your `faasd` instance:

```
cat faasd.txt | faas-cli login --username admin --password-stdin
```

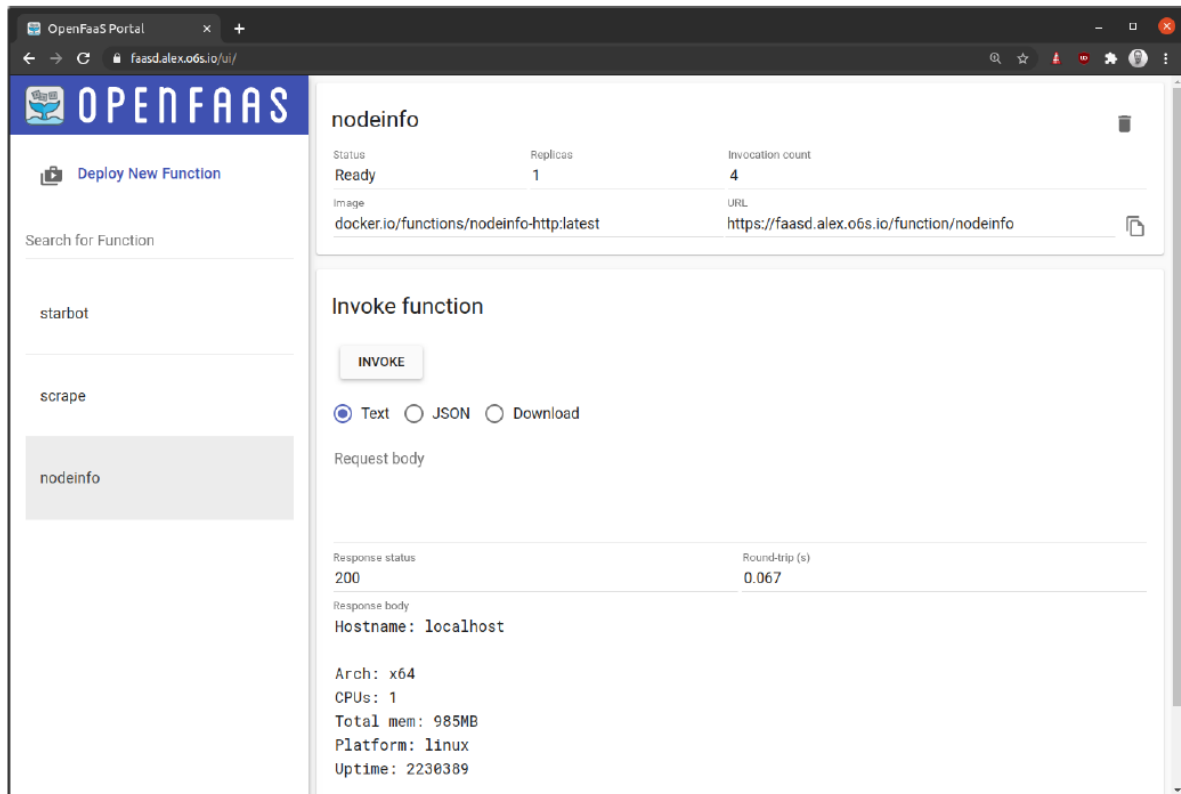
Open the `OPENFAAS_URL` in a browser and enter the credentials from above. The username is `admin`.

```
echo $OPENFAAS_URL
```

5. Invoking a function after deploying it from the Function Store

You can deploy a pre-packaged function from the Function Store. You may also use the UI to deploy containers you've already packaged and push into a container registry.

You can view available functions in the store using the UI by clicking "Deploy Function". See the function "nodeinfo".



Deploy a function from the store

You can deploy a function to your faasd instance. Browse the Function Store:

```
faas-cli store list
```

Example with a custom toy function that generates ASCII cows:

Deploy A New Function

FROM STORE

CUSTOM

Use this form to test a function or the [faas-cli](#) for more options.
Define the function below:

Docker image: *

alexellis2/ascii-cows-openfaas:0.1

Function name: *

cows

Function process (optional):

node show_cow.js

Network (Swarm):

Environment Variables ^

Key:

Value:

write_timeout

10s

Secrets v

Labels v

Annotations v

CLOSE DIALOG

DEPLOY

Try another function, e.g. "nslookup":

```
faas-cli store deploy nslookup
```

```
faas-cli store describe nslookup -v
```

Try out a few of the other commands, you'll find them via

```
faas-cli -help
```

```
faas-cli list [-v]
```

6. Create New Functions

See documentation available on [Create functions - OpenFaaS](#)