**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.

1. **Install faasd with Bash**

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

cd faasd

./hack/install.sh

1. **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

1. **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

1. **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:



Try another function, e.g. “nslookuo”:

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]

1. **Create New Functions**

See documentation available on[Create functions - OpenFaaS](https://docs.openfaas.com/cli/templates/)