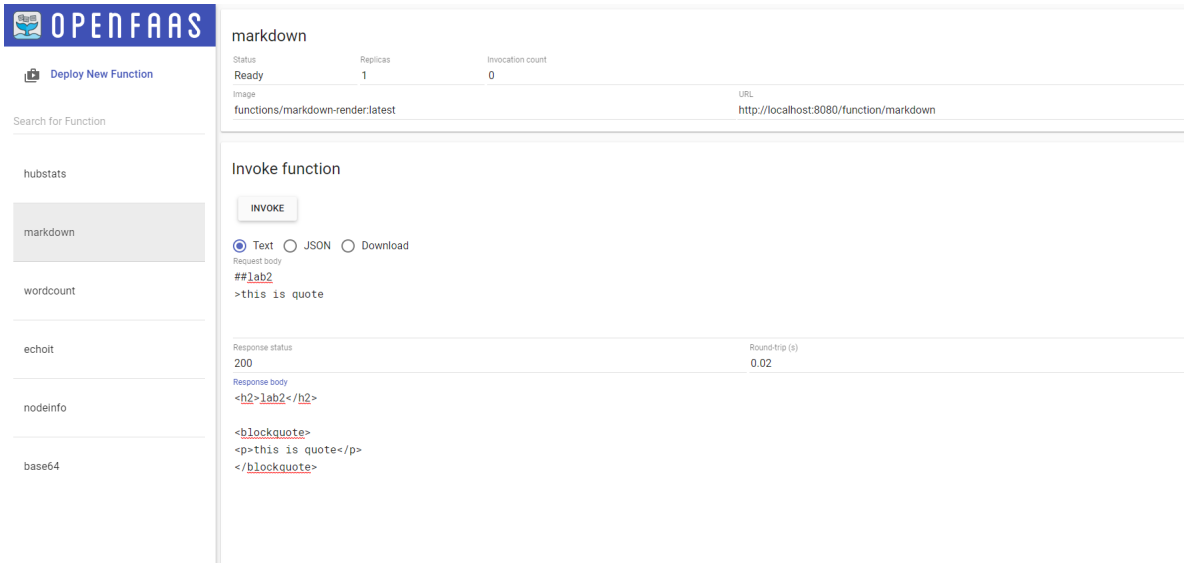
Lab2 测试一下

在实验2中，实际上是在官方OpenFaaS信息库中使用stack.yml部署了Function。

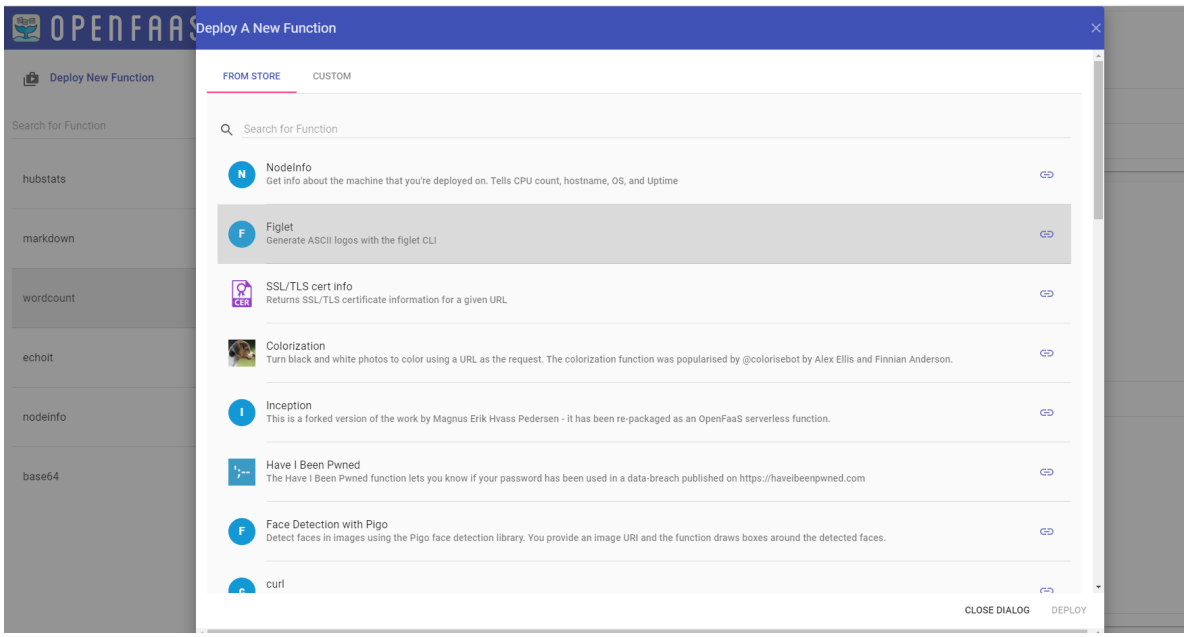
```
$ faas-cli deploy -f
https://raw.githubusercontent.com/openfaas/faas/master/stack.yml
Parsed: https://raw.githubusercontent.com/openfaas/faas/master/stack.yml
Deploying: hubstats.
WARNING! Communication is not secure, please consider using HTTPS.
Letsencrypt.org offers free SSL/TLS certificates.

Deployed. 202 Accepted.
URL: http://127.0.0.1:8080/function/hubstats

Deploying: nodeinfo.
WARNING! Communication is not secure, please consider using HTTPS.
Letsencrypt.org offers free SSL/TLS certificates.

Deployed. 202 Accepted.
URL: http://127.0.0.1:8080/function/nodeinfo

Deploying: echoit.
WARNING! Communication is not secure, please consider using HTTPS.
Letsencrypt.org offers free SSL/TLS certificates.

Deployed. 202 Accepted.
URL: http://127.0.0.1:8080/function/echoit

Deploying: wordcount.
WARNING! Communication is not secure, please consider using HTTPS.
Letsencrypt.org offers free SSL/TLS certificates.

Deployed. 202 Accepted.
URL: http://127.0.0.1:8080/function/wordcount

Deploying: base64.
WARNING! Communication is not secure, please consider using HTTPS.
Letsencrypt.org offers free SSL/TLS certificates.

Deployed. 202 Accepted.
URL: http://127.0.0.1:8080/function/base64

Deploying: markdown.
WARNING! Communication is not secure, please consider using HTTPS.
Letsencrypt.org offers free SSL/TLS certificates.

Deployed. 202 Accepted.
URL: http://127.0.0.1:8080/function/markdown
```

可以从控制台执行功能。例如，将Markdown转换为HTML的函数markdown函数。

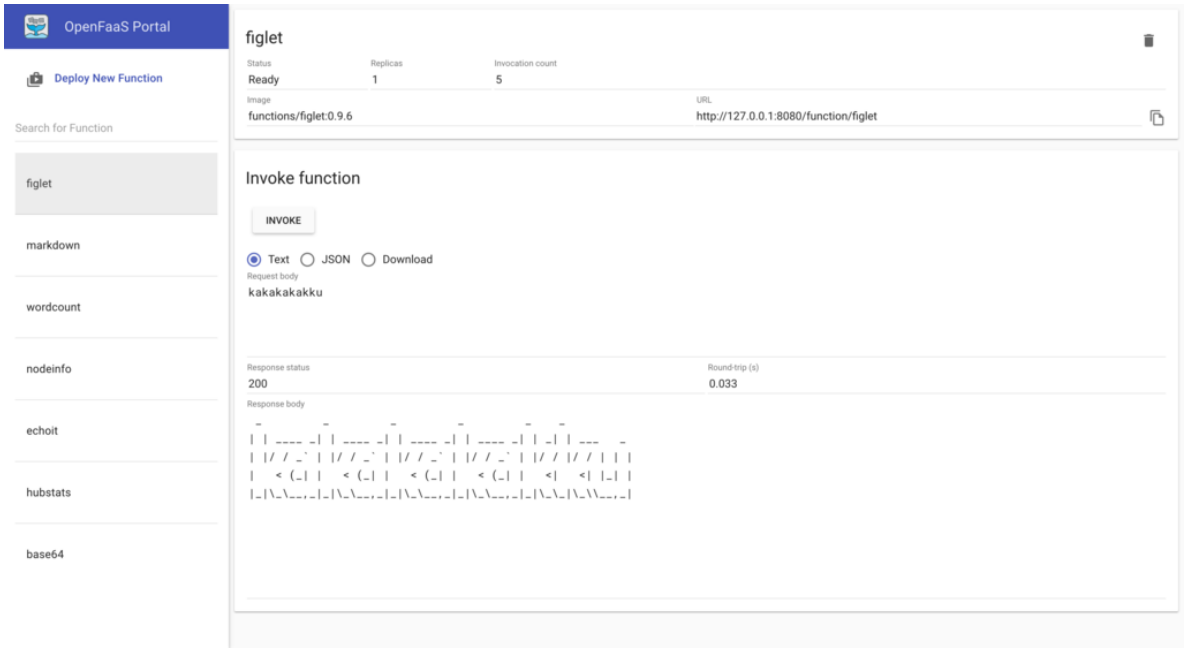


共有六个其他功能，例如 wordcount Function，它可以计算输入文本中的字符数。

另外它还有一个应用商店，用户可以自己在里面找到自己所需要的应用，也可以部署用户自己的应用。



以figlet功能为例，它可以字符串转化为优美的ascii码。



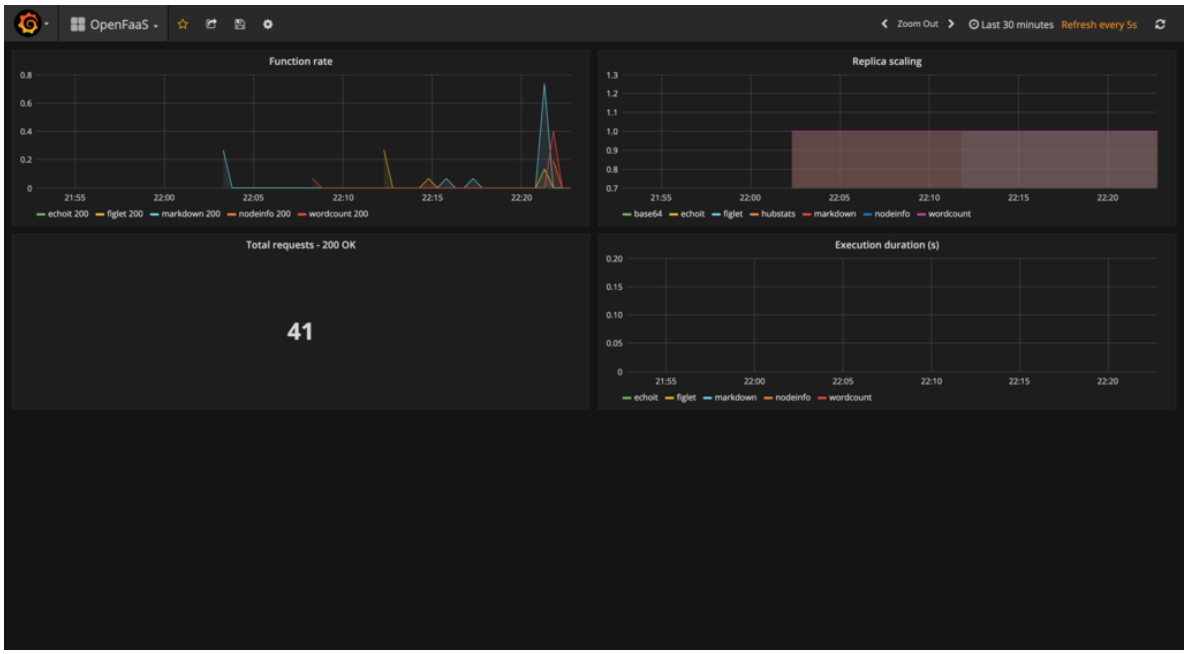
通过命令行也可以查看每个函数的调用次数。

```
$ faas-cli list --verbose
Function                        Image
Invocations     Replicas
figlet                          functions/figlet:0.9.6                  01
nodeinfo                        functions/nodeinfo:latest               01
wordcount                       functions/alpine:latest                 01
echoit                          functions/alpine:latest                 01
hubstats                        functions/hubstats:latest               01
markdown                        functions/markdown-render:latest        01
base64                          functions/alpine:latest                 01
```

最后，它可以通过Prometheus和Grafana来进行监控，当OpenFaaS部署在Docker Swarm上时，Prometheus实际上是由Docker Compose启动的，并且获取了OpenFaaS的指标。启动Grafana以可视化Prometheus。用户也可以自己尝试写metrix接口。

```
$ docker service create -d\
--name=grafana \
--publish=3000:3000\
--network=func_functions \
stefanprodan/faas-grafana:4.6.3
```

打开http://127.0.0.1:3000/dashboard/db/openfaas，可以查看Grafana可视化OpenFaaS指标。



关于Prometheus、node Exporters、grafana 的安装与使用可以查看我之前写的博文，https://www.jianshu.com/p/7f586b482c44