

# lab7 - 异步功能

在实验7中，我们学习了如何“同步”和“异步”执行功能。具体来说，faas-cli invoke命令具有--async选项，该选项可以异步执行。

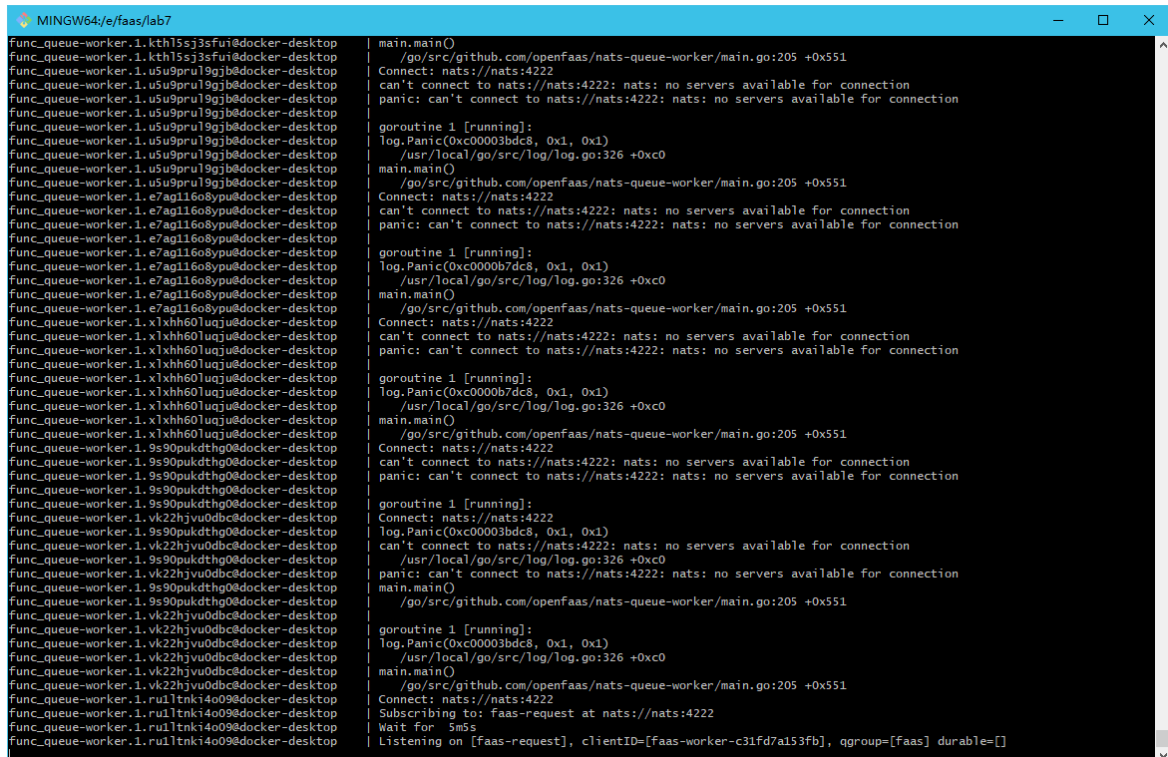
当异步执行时，功能从网关接收到“202 Accepted”响应。另外，通过在HTTP标头中设置X-Callback-Url，您可以在执行Function后收到回调。在某些情况下，根据功能的特性，可能需要异步执行。

```
$ faas-cli new --lang dockerfile long-task --prefix="gogobody"
$ nano long-task/Dockerfile #把fprocess 改成 sleep 1
$ faas-cli build -f long-task.yml
$ faas-cli deploy -f long-task.yml
$ echo -n "" | faas-cli invoke long-task
$ echo -n "" | faas-cli invoke long-task --async
```

结论：同步构建需要等1s，异步构建马上执行。

查看log：

```
$ docker service logs -f func_queue-worker
```



## 将X-Callback-Url与requestbin一起使用

如果需要异步调用函数的结果，则有两个选择：

- 更改其代码以将其结果通知端点或消息传递系统

此选项可能并不适合所有情况，并且涉及编写其他代码：

- 利用回调的内置行为

## 1. 创建一个requestbin

Your endpoint is  
**https://enlcmf3os1g9.x.pipedream.net** copy

**Generate Test Events**

Send requests to this endpoint to inspect [webhooks](#), [custom events](#) and more:

- Events appear instantly
- Endpoints don't expire
- Easily delete a single event, or all

**CURL** JAVASCRIPT NODE PYTHON 2 PYTHON 3 PHP GO RUBY

```
curl -d '{"name": "Luke Skywalker"}' \
-H "Content-Type: application/json" \
https://enlcmf3os1g9.x.pipedream.net/
```

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**Create Programmable Bin**

- Get a unique URL or email address, or configure a schedule
- Run code on each event using NodeJS and NPM, or use community-built actions
- Auth apps and APIs with a click and use keys and oauth tokens in code
- No servers or infrastructure to manage

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2. Administrator@Javascript MINGW64 /e/faas/lab7 (master)  
\$ echo -n "LaterIsBetter" | faas-cli invoke figlet --async --header "X-Callback-Url=https://enlcmf3os1g9.x.pipedream.net"  
Function submitted asynchronously.

异步执行函数，打印ascii：“LaterIsBetter”，然后通过回调函数传到request bin

The screenshot shows the Pipedream interface with an HTTP request to the endpoint `https://enlcmf3os1g9.x.pipedream.net/`. The request is a POST with a body of `LaterIsBetter`. The interface includes a sidebar with a list of requests, a main panel showing the request details (headers, body), and a right panel showing the response (body).

可以看到异步请求和回调函数执行成功！