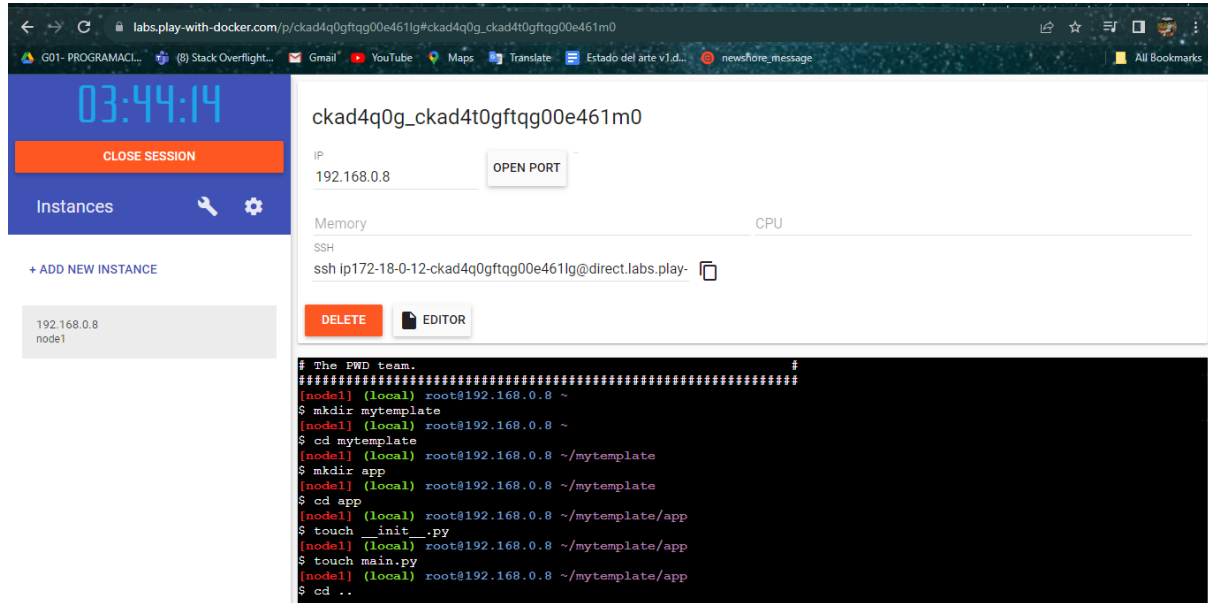


Deyner Solano Tafur

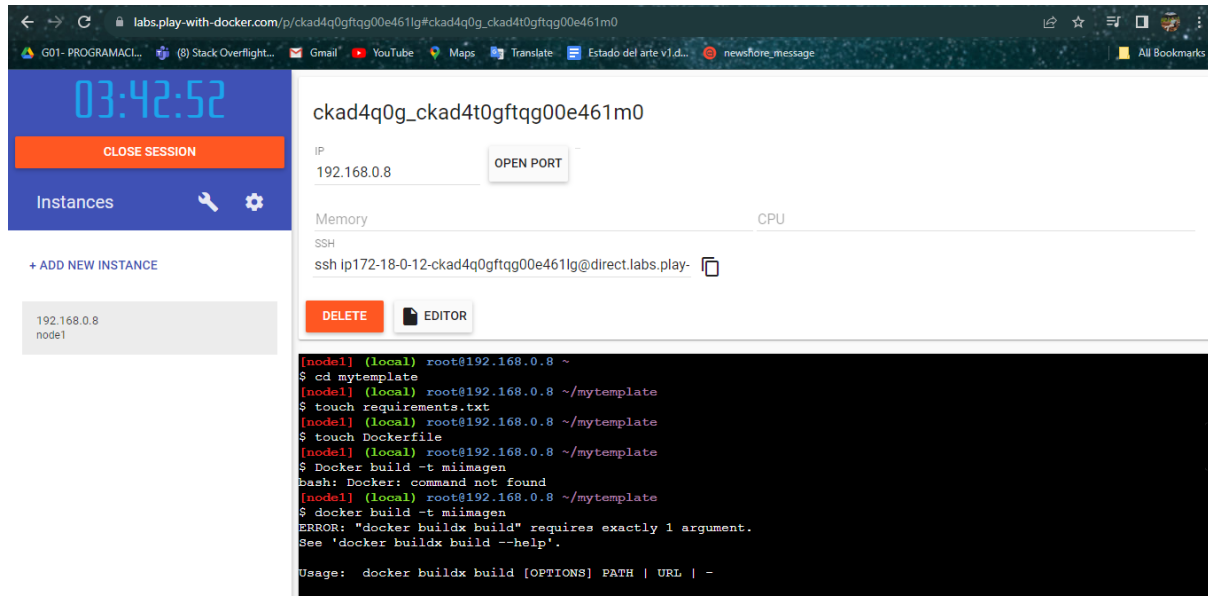
Crear Carpetas “mytemplate” y “app” y archivos touch \_\_init\_\_.py



The screenshot shows the labs.play-with-docker.com interface. On the left, there's a sidebar with a timer at 03:44:14, a 'CLOSE SESSION' button, and a list of instances including '192.168.0.8 node1'. The main panel displays details for the instance 'ckad4q0g\_ckad4t0gftqg00e461m0', including its IP (192.168.0.8), memory, CPU, and an SSH command. Below this, a terminal window shows the following commands and output:

```
# The PWD team.#####
[node1] (local) root@192.168.0.8 ~
$ mkdir mytemplate
[node1] (local) root@192.168.0.8 ~
$ cd mytemplate
[node1] (local) root@192.168.0.8 ~/mytemplate
$ mkdir app
[node1] (local) root@192.168.0.8 ~/mytemplate
$ cd app
[node1] (local) root@192.168.0.8 ~/mytemplate/app
$ touch __init__.py
[node1] (local) root@192.168.0.8 ~/mytemplate/app
$ touch main.py
[node1] (local) root@192.168.0.8 ~/mytemplate/app
$ cd ..
```

Crear archivos Dockerfile, requirements.txt y build imagen



The screenshot shows the labs.play-with-docker.com interface. On the left, there's a sidebar with a timer at 03:42:52, a 'CLOSE SESSION' button, and a list of instances including '192.168.0.8 node1'. The main panel displays details for the instance 'ckad4q0g\_ckad4t0gftqg00e461m0', including its IP (192.168.0.8), memory, CPU, and an SSH command. Below this, a terminal window shows the following commands and output:

```
[node1] (local) root@192.168.0.8 ~
$ cd mytemplate
[node1] (local) root@192.168.0.8 ~/mytemplate
$ touch requirements.txt
[node1] (local) root@192.168.0.8 ~/mytemplate
$ touch Dockerfile
[node1] (local) root@192.168.0.8 ~/mytemplate
$ docker build -t miimagen
bash: docker: command not found
[node1] (local) root@192.168.0.8 ~/mytemplate
$ docker build -t miimagen
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage: docker buildx build [OPTIONS] PATH | URL | -
```

## Revisar estructura del proyecto

Editor - Google Chrome

labs.play-with-docker.com/sessions/ckad4q0gftqg00e461lg/instances/ckad4q0g\_ckad4t0gftqg00e461m0/editor

Create or upload files in the session terminal and then refresh

🔄

📁 /root

- 📁 mytemplate
  - 📄 Dockerfile
  - 📁 app
    - 📄 \_\_init\_\_.py
    - 📄 main.py
    - 📄 requirements.txt

main.py x Dockerfile x

Save Reload

```
1 from typing import Union
2
3 from fastapi import FastAPI
4
5 app = FastAPI()
6
7
8 @app.get("/")
9 def read_root():
10     return {"Hello": "World"}
11
12
13 @app.get("/items/{item_id}")
14 def read_item(item_id: int, q: Union[str, None] = None):
15     return {"item_id": item_id, "q": q}
16
```

main.py x Dockerfile x

Save Reload

```
1 FROM python:3.9
2
3 WORKDIR /code
4
5 COPY ./requirements.txt /code/requirements.txt
6
7 RUN pip install --no-cache-dir --upgrade -r /code/requirements.txt
8
9 COPY ./app /code/app
10
11 CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "80"]
12
```

## Docker run

labs.play-with-docker.com/p/ckad4q0gftqg00e461lg#ckad4q0g\_ckad4t0gftqg00e461m0

03:34:39

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8  
node1

ckad4q0g\_ckad4t0gftqg00e461m0

IP  
192.168.0.8

OPEN PORT

Memory CPU

SSH  
ssh ip172-18-0-12-ckad4q0gftqg00e461lg@direct.labs.play-with-docker.com

DELETE EDITOR

```
=> => transferring context: 497B 0.0s
=> [2/5] WORKDIR /code 0.1s
=> [3/5] COPY ./requirements.txt /code/requirements.txt 0.1s
=> [4/5] RUN pip install --no-cache-dir --upgrade -r /code/requirements.txt 4.9s
=> [5/5] COPY ./app /code/app 0.0s
=> exporting to image 0.3s
=> exporting layers 0.3s
=> writing image sha256:61ab2cbl16a87eef000e9846a3fca775bdf3ealf55b204bbac847e8ac616c70b 0.0s
=> naming to docker.io/library/miimagen 0.0s
(node1) (local) root@192.168.0.8 ~/mytemplate
$ docker run -d --name micontenedor -p 80:80 miimagen
1d38b2789d5c365cb162eebaa07c32007a5a4dc6e4f88d495543845ca2c01299
(node1) (local) root@192.168.0.8 ~/mytemplate
$ ^C
(node1) (local) root@192.168.0.8 ~/mytemplate
$
```

Pretty-print

["Hello": "World"]

# FastAPI

0.1.0 OAS3

/openapi.json

## default

GET	/	Read Root	▼
GET	/items/{item_id}	Read Item	▼

Schemas	^
HTTPValidationError >	
ValidationError >	