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# The PWD team. #
#####
[node1] (local) root@192.168.0.18 ~
$ apt-get install docker-compose-plugin
bash: apt-get: command not found
[node1] (local) root@192.168.0.18 ~
$ docker-compose version
Docker Compose version v2.23.0
[node1] (local) root@192.168.0.18 ~
$ mkdir dockerComposeProject
[node1] (local) root@192.168.0.18 ~
$ cd dockerComposeProject/
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ mkdir product
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ cd product/
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ nano api.py
bash: nano: command not found
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ vi api.py
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
```

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[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ cat api.py
from flask import Flask
from flask_restful import Resource, Api

# create a flask object
app = Flask(__name__)
api = Api(app)

# creating a class for Fruits that will hold
# the accessors
class Fruits(Resource):
    def get(self):
        # returns a dictionary with fruits
        return {
            'fruits': ['Mango',
                       'Pomegranate',
                       'Orange',
                       'Litchi']
        }

# adds the resources at the root route
api.add_resource(Fruits, '/')

# if this file is being executed then run the service
if __name__ == '__main__':
    # run the service
    app.run(host='0.0.0.0', port=80, debug=True)
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ vi Dockerfile
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ cat Dockerfile
```

```
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ vi Dockerfile
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ cat Dockerfile
FROM python:3-onbuild
COPY . /usr/src/app
CMD ["python", "api.py"]
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ cd..
bash: cd..: command not found
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ cd ..
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ mkdir website
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ cd website
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/website
$ vi index.php
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/website
$ cd ..
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ vi docker-compose.yaml
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ ls -l
total 4
-rw-r--r--    1 root    root          263 Nov 16 23:51 docker-compose.yaml
drwxr-xr-x    2 root    root          38 Nov 16 23:44 product
drwxr-xr-x    2 root    root          23 Nov 16 23:48 website
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ cd product
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
```

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[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ ls -l
total 8
-rw-r--r--    1 root    root           67 Nov 16 23:44 Dockerfile
-rw-r--r--    1 root    root        663 Nov 16 23:43 api.py
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/product
$ cd ..
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ cd website
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/website
$ ls -l
total 4
-rw-r--r--    1 root    root        414 Nov 16 23:48 index.php
[node1] (local) root@192.168.0.18 ~/dockerComposeProject/website
$ cd ..
[node1] (local) root@192.168.0.18 ~/dockerComposeProject
$ docker-compose up -d
[+] Running 0/1
[+] Running 14/14ers [          ]      0B/0B      Pulling
✓ website 13 layers [██████████]      0B/0B      Pulled
  ✓ 578acb154839 Pull complete
  ✓ c053f6f43c12 Pull complete
  ✓ 65cebbbf4d847 Pull complete
  ✓ 34045bc93960 Pull complete
  ✓ da31f94fbeeef Pull complete
  ✓ c755cb948935 Pull complete
  ✓ 47863fce0cd3 Pull complete
  ✓ f2a5ef80cfbe Pull complete
  ✓ 53d0b71510d8 Pull complete
  ✓ 8fbb724fde85 Pull complete
  ✓ 43bf0df49962 Pull complete
  ✓ 4393adcb5639 Pull complete

```