```
GNU nano 5.8
from flask import Flask
from flask_restful import Resource, Api

app = Flask(_name_)
api=Api(app)

class sendMessage(Resource):
    def get(self):
        return {"message":"message from container 1"}

api.add_resource(sendMessage, '/')

if _name_ == "__main__":
    app.run(host="0.0.0.0", debug=True)
```

App.py file

```
GNU nano 5.8

FROM alpine:latest

RUN apk update

RUN apk add python3 py3-pip

RUN pip3 install flask flask-restful

RUN mkdir /app

COPY ./app.py /app/app.py

CMD python3 /app/app.py
```

Dockerfile

```
[ec2-user@ip-172-31-84-6 communicate]$ docker images
REPOSITORY TAG
                      IMAGE ID
                                    CREATED
                                                    SIZE
                     3fb2148d9fc9 5 minutes ago 87.8MB
container1 latest
alpine
                     9ed4aefc74f6 13 days ago
                                                    7.05MB
            latest
[ec2-user@ip-172-31-84-6 communicate]$ docker ps
CONTAINER ID IMAGE COMMAND
8760ea646764 container1 "/bin/sh -c 'python3..."
                                                   CREATED
                                                                   STATUS
                                                                                  PORTS
                                                                                            NAMES
                                                   2 minutes ago Up 2 minutes
                                                                                            wonderful grothendieck
[ec2-user@ip-172-31-84-6 communicate]$ docker images
REPOSITORY TAG
                      IMAGE ID
                                    CREATED
                                                    SIZE
container1 latest
                      3fb2148d9fc9 9 minutes ago 87.8MB
                     9ed4aefc74f6 13 days ago
                                                    7.05MB
alpine
            latest
[ec2-user@ip-172-31-84-6 communicate]$ docker run -d --rm --name container1 container1:latest
06add5f82275b259bb90a07415ba09d59c2db336654d2dc44b4db27b8de2bf2e
[ec2-user@ip-172-31-84-6 communicate]$ docker ps
CONTAINER ID IMAGE
                                 COMMAND
                                                          CREATED
                                                                          STATUS
                                                                                         PORTS
                                                                                                  NAMES
06add5f82275 container1:latest
                                 "/bin/sh -c 'python3..." 5 seconds ago Up 5 seconds
                                                                                                  container1
                                  "/bin/sh -c 'python3..." 8 minutes ago Up 8 minutes
8760ea646764 container1
                                                                                                  wonderful grothendieck
```

-docker run -d -rm -name container1

-docker inspect 06add5f82275

i-0b5931fcc6f9ef3f4 (docker2)

PublicIPs: 54.211.206.3 PrivateIPs: 172.31.84.6

```
"IPPrefixLen": 16,
"IPv6Gateway": "",
"MacAddress": "02:42:ac:11:00:03",
"Networks": {
    "bridge": {
        "IPAMConfig": null,
            "Aliases": null,
            "NetworkID": "93b07537df080a9cd129b514e6290cfadca3d9c376fce8e9b4cbddc2036c4c87",
            "EndpointID": "5c98dl8af92384ec62d3d50026flf0af7c2c2c2a3e8ba04b492239a50ae9le72",
            "Gateway": "172.17.0.1",
            "IPPAddress": "172.17.0.3",
            "IPPrefixLen": 16,
            "IPv6Gateway": "",
            "GlobalIPv6Address": "",
            "GlobalIPv6Address": "",
            "GlobalIPv6PrefixLen": 0,
            "MacAddress": "02:42:ac:11:00:03",
            "DriverOpts": null
            }
        }
    }
}
```

Now running other alpine container

-docker run -it alpine:latest

And using wget-Wget is a free utility for non-interactive download of files from the Web- we can access the content from container1 ,accessing it on IP address 172.17.0.3:5000, 5000 is default port for flask

```
[ec2-user@ip-172-31-84-6 communicate]$ docker run -it alpine:latest
/ # wget -q -o - 172.17.0.3:5000
/ # wget -q -0 - 172.17.0.3:5000
{
    "message": "message from container 1"
}
/ # 
i-0b5931fcc6f9ef3f4 (docker2)
PublicIPs: 54.211.206.3 PrivateIPs: 172.31.84.6
```

- Response from container1 can be seen