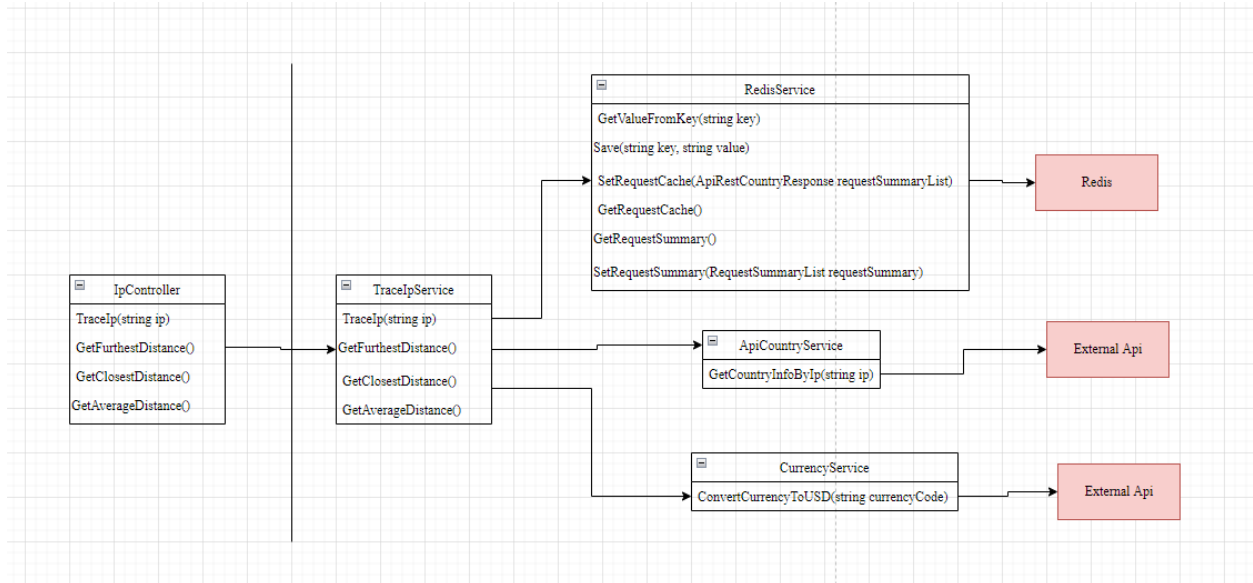


## Documentation

### Architecture



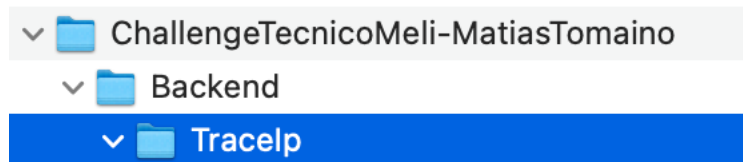
### Turn-on the server

Requirements:

Docker.

Steps:

1. Download the repository (<https://github.com/MatiiTomaino/ChallengeTecnicoMeli-MatiasTomaino>)
2. Move to ChallengeTecnicoMeli-MatiasTomaino/Backend/Tracelp



3. Open a terminal in this path
4. Execute `sudo ./trace_ip_linux.sh`, here, the docker container is created and the server and redis instance will be running when the process finished.
  - a. **Note: if command doesn't work, run `chmod +x trace_ip_linux.sh`.**
5. Check that server and redis instance are running.

Containers
[Give Feedback](#)

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

Showing 1 of 1

	NAME	STARTED	STATUS	
<input type="checkbox"/>	<div>traceip</div> <div>2 containers</div> <div> <a href="#">redis:6.2-alpine</a>  25444f8eeef08 (traceip_cache_1) </div> <div> <a href="#">traceip-backend</a>  611fd2df4c3a (traceip_traceip_1) </div>		running (2/2)	<a href="#">Open</a>
		1 minute ago	running	<a href="#">Open</a> <a href="#">Logs</a> <a href="#">Stop</a> <a href="#">Refresh</a>
		1 minute ago	running	<a href="#">Open</a> <a href="#">Logs</a> <a href="#">Stop</a> <a href="#">Refresh</a>

## Test API

### APIs Available

- TraceIp
  - Required param: Ip
- GetFurthestDistance
- GetClosestDistance
- GetAverageDistance

#### 1. Postman:

TraceIp : <http://localhost:5000/ip/traceip?ip=83.44.196.93>

GET TraceIp
+
...
No Environment

TraceIp / TraceIp
Save
...

GET
http://localhost:5000/ip/traceip?ip=83.44.196.93
Send

Params
Authorization
Headers (7)
Body
Pre-request Script
Tests
Settings
Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> ip	83.44.196.93			
Key	Value	Description		

Body
Cookies
Headers (4)
Test Results
Status: 200 OK Time: 3.87 s Size: 715 B Save Response

Pretty
Raw
Preview
Visualize
JSON

```

1 {
2   "name": "Spain",
3   "isoCode": "ES",
4   "languages": [
5     {
6       "code": "es",
7       "name": "Spanish",
8       "native": "Español"
9     },
10    {
11      "code": "eu",
12      "name": "Basque",
13      "native": "Euskara"
14    },
15    {
16      "code": "ca",
17      "name": "Catalan",
18      "native": "Català"
19    },
20    {
21      "code": "gl",
22      "name": "Galician",

```

## GetFurthestDistance: http://localhost:5000/lp/GetFurthestDistance

Tracelp / **GetFurthestDistance**

GET **http://localhost:5000/lp/GetFurthestDistance** **Send**

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	

Body Cookies Headers (4) Test Results Status: 200 OK Time: 63 ms Size: 188 B **Save Response**

Pretty Raw Preview Visualize JSON

```
1 {
2   "countryName": "Spain",
3   "value": 10807.47
4 }
```

## GetClosestDistance: http://localhost:5000/lp/GetClosestDistance

Tracelp / **GetClosestDistance**

GET **http://localhost:5000/lp/GetClosestDistance** **Send**

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	

Body Cookies Headers (4) Test Results Status: 200 OK Time: 17 ms Size: 188 B **Save Response**

Pretty Raw Preview Visualize JSON

```
1 {
2   "countryName": "Spain",
3   "value": 10807.47
4 }
```

## GetAverageDistance: http://localhost:5000/lp/GetAverageDistance

Tracelp / **GetAverageDistance**

GET **http://localhost:5000/lp/GetAverageDistance** **Send**

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

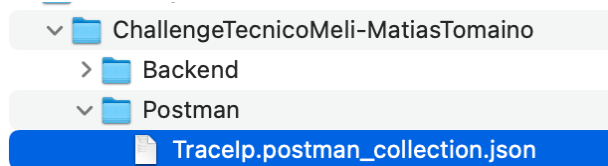
KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	

Body Cookies Headers (4) Test Results Status: 200 OK Time: 26 ms Size: 150 B **Save Response**

Pretty Raw Preview Visualize Text

```
1 10807.47
```

There is available a collection example in repository to import in another computer:



## 2. Curl

In a terminal execute:

```
curl --location --request GET 'http://localhost:5000/Ip/traceip?ip=128.201.132.0'
```

```
curl --location --request GET 'http://localhost:5000/Ip/GetFurthestDistance'
```

```
curl --location --request GET 'http://localhost:5000/Ip/GetClosestDistance'
```

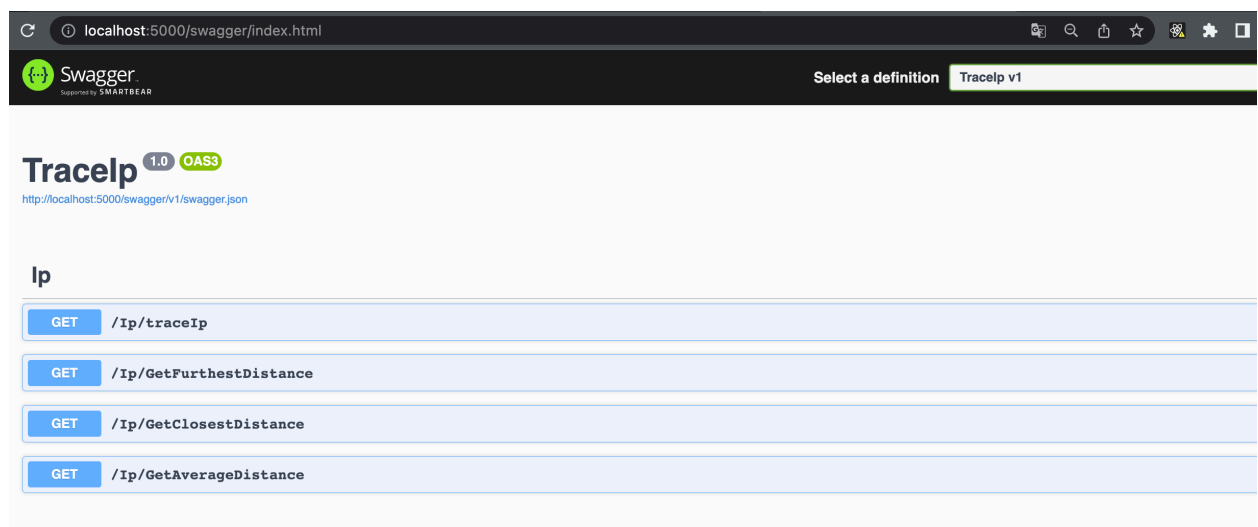
```
curl --location --request GET 'http://localhost:5000/Ip/GetAverageDistance'
```

```
MacBook-Pro-de-Matias-3:ChallengeTecnicoMeli-MatiasTomaino matii$ curl --location --request GET 'http://localhost:5000/Ip/traceip?ip=83.44.196.93'  
{  
  "name": "Spain",  
  "isoCode": "ES",  
  "languages": [  
    {  
      "code": "es",  
      "name": "Spanish",  
      "native": "Espa\u00f1ol",  
      "code": "eu",  
      "name": "Basque",  
      "native": "Euskara",  
      "code": "ca",  
      "name": "Catalan",  
      "native": "Catal\u00e0",  
      "code": "gl",  
      "name": "Galician",  
      "native": "Galego",  
      "code": "oc",  
      "name": "Occitan",  
      "native": "Occitan",  
      "actualTime": ["05:13 (UTC)", "06:13 (UTC+01:00)"],  
      "estimatedDistance": 10807.47,  
      "currency": {  
        "code": "EUR",  
        "name": "Euro",  
        "symbol": "\u20ac",  
        "quotation": null,  
        "currencyAndQuotation": "EUR (1 EUR = 1.05 USD)"  
      },  
      "dateTimeRequest": "2022-06-13T05:13:47.9793577+00:00",  
      "ip": "83.44.196.93"  
    }  
  ]  
}
```

## 3. Swagger

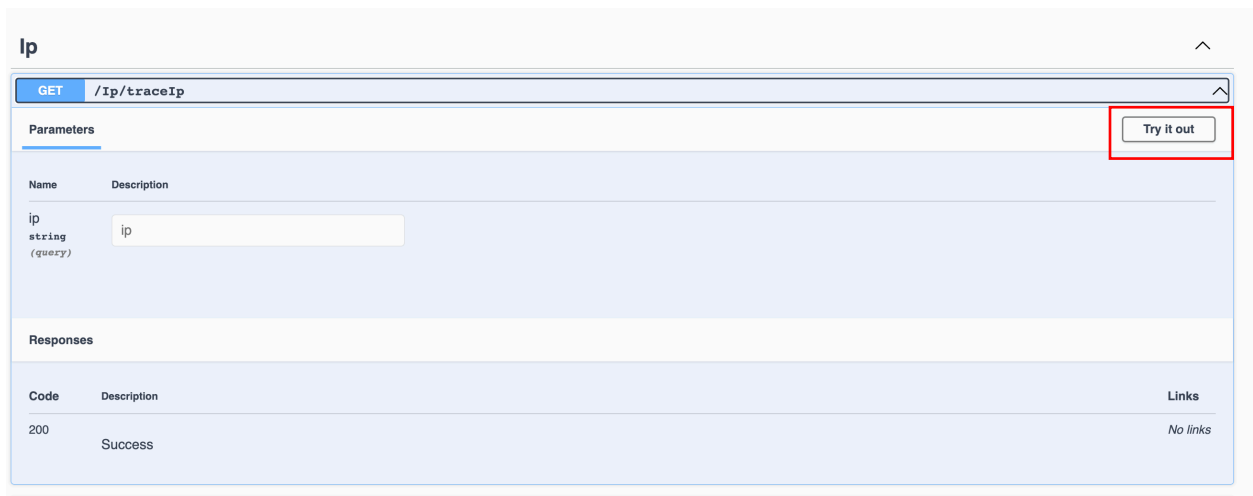
Swagger was enabled only for the challenge. Generally Swagger is available only for development environment, but I made an exception so that it can be tested more easily

Access : <http://localhost:5000/swagger/index.html>



Test:

1. Enter to <http://localhost:5000/swagger/index.html>
2. Choice any Endpoint and click try it out

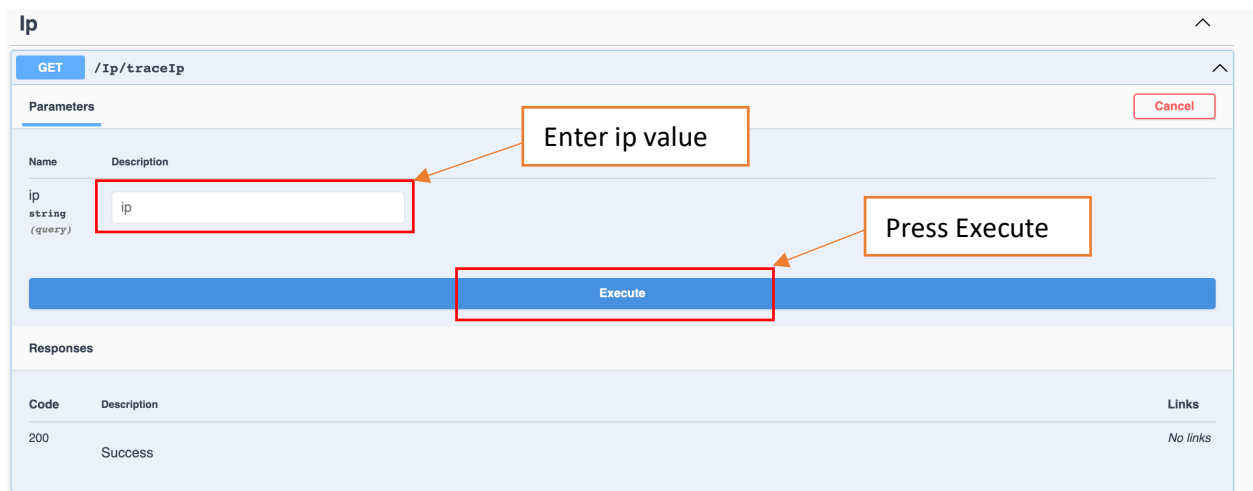


The image shows the Swagger UI for the endpoint `GET /Ip/traceIp`. The `Parameters` section contains a query parameter `ip` of type `string` with a text input field containing the value `ip`. The `Responses` section shows a `200` status code with a description of `Success`. A red box highlights the `Try it out` button in the top right corner of the `Parameters` section.

Name	Description
ip string (query)	ip

Code	Description	Links
200	Success	No links

3. If is necessary, enter the params and press Execute



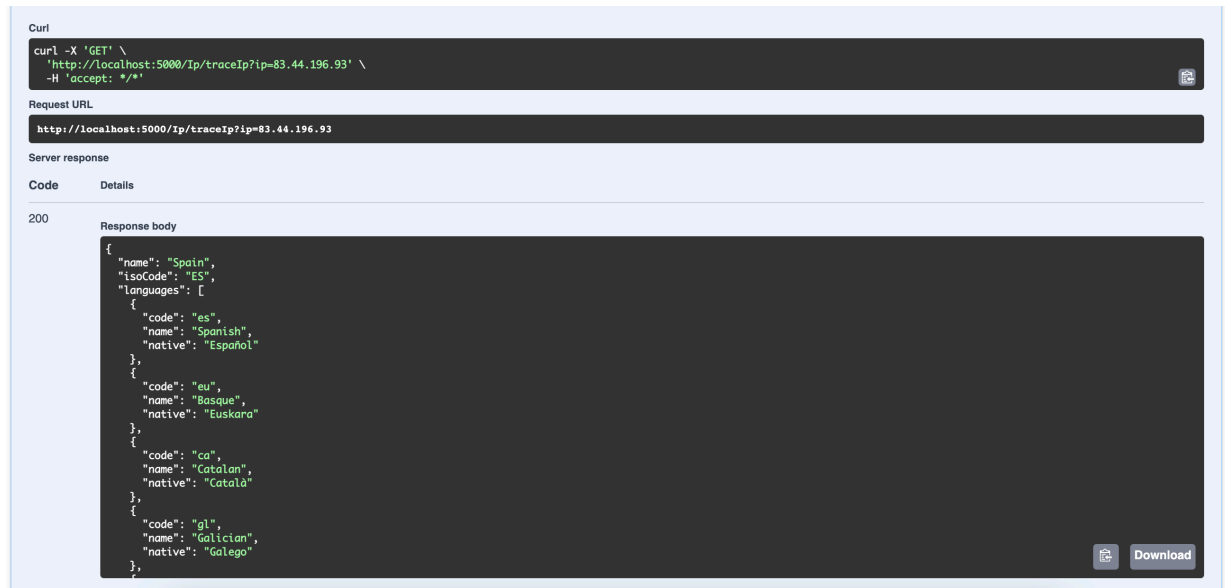
The image shows the Swagger UI for the endpoint `GET /Ip/traceIp` with annotations. A red box highlights the `ip` input field, with an orange box labeled `Enter ip value` and an arrow pointing to it. Another red box highlights the `Execute` button, with an orange box labeled `Press Execute` and an arrow pointing to it. A `Cancel` button is also visible in the top right corner of the `Parameters` section.

Name	Description
ip string (query)	ip

Execute

Code	Description	Links
200	Success	No links

#### 4. View Result



Curl

```
curl -X 'GET' \
'http://localhost:5000/ip/traceIp?ip=83.44.196.93' \
-H 'accept: */*'
```

Request URL

<http://localhost:5000/ip/traceIp?ip=83.44.196.93>

Server response

Code Details

200

Response body

```
{
  "name": "Spain",
  "isoCode": "ES",
  "languages": [
    {
      "code": "es",
      "name": "Spanish",
      "native": "Español"
    },
    {
      "code": "eu",
      "name": "Basque",
      "native": "Euskara"
    },
    {
      "code": "ca",
      "name": "Catalan",
      "native": "Català"
    },
    {
      "code": "gl",
      "name": "Galician",
      "native": "galego"
    }
  ]
}
```

Download

#### 4. HTML

The last mode to test the apis is with a HTML file, it's in [Repository]/Frontend/index.html

Open the file:

---

# Challenge Técnico - Tomaino Matias

## Trace Ip

Get

Name  
Iso Code  
Languages  
Currency  
Hours  
Distance to Buenos Aires

## Application stats

Update stats

Average distance  
Cocest distance  
Furthest distance

Press buttons:

# Challenge Técnico - Tomaino Matias

## Trace Ip

Get

Name  
Iso Code  
Languages  
Currency  
Hours  
Distance to Buenos Aires

Argentina  
AR  
Spanish, Guaraní,  
ARS (1 ARS = 0.01 USD)  
13:58 (UTC-03:00)  
362.11 KM

## Application stats

Update stats

Average distance  
Cocest distance  
Furthest distance

2011.38 KM  
362.11 KM (Argentina)  
10807.47 KM (Spain)