

Read me

To use Our application, you should start installing aws cli:

-Linux : <https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2-linux.html>

-Windows: <https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2-windows.html>

-MacOS: <https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2-mac.html>

Then you need to add your credentials information from your aws account:

- <https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-files.html>

Now from a terminal use the following commands:

```
>aws sqs create-queue --queue-name responseQueue --attributes VisibilityTimeout=0
```

```
>aws sqs create-queue --queue-name requestQueue --attributes VisibilityTimeout=0
```

```
> aws s3api create-bucket --bucket mybucket10 --region us-east-1
```

Now you need to run an instance; you need to create a security group with the following rules on aws console: Specify the rule type to be SSH and set the source to anywhere

Then on the terminal create the following key-pair with this commandline:

```
>aws ec2 create-key-pair --key-name Key1
```

Then we will create your instance:

```
>aws ec2 run-instances --image-id ami-0947d2ba12ee1ff75 --count 1 --instance-type t2.micro --key-name Key1 --security-group-ids YourSecurityID
```

You need to replace **YourSecurityID** with the ID of your group created above.

Now you need to connect to your instance using a ssh connection:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AccessingInstancesLinux.html>

From the console of your instance you need to run the following line:

```
> sudo yum install python3
```

```
> sudo yum install python3-pip
```

```
> sudo pip3 install statistics
```

```
> sudo pip3 install boto3
```

Now on your OS, you need to install python 3:

<https://realpython.com/installing-python/>

And now on a terminal use those command lines:

```
> pip3 install boto3
```

```
> pip3 install flask
```

You need to put the file mainaws.py on a directory of your instance, you can use FileZilla for example to make it.

There is a tutorial explain it : <https://www.youtube.com/watch?v=RST8XADoRpY>

On your instance console, go to the directory where you placed your file using the command `cd` and type:

```
> python mainaws.py
```

We are almost done; you just need to launch a terminal where is located the file website.py on your computer and type the command:

```
> python website.py
```

You are now able to connect to the home.html page in the folder templates.

Then you just need to write a list of integers like the following example:

1,2,3,4,5,6

Click on the button to send a request to your instance, the process will take a little time and send you back the minimum, maximum, mean and median of your list.

You will be able to consult all your requests in your previously created bucket.