

Programming Assignment 1

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Step 1 : Setting up Cloud Environment

Create an AWS Educate Account. Login to the Console from labs.voracum.com and open the AWS Management console which contains AWS Services like (EC2, S3 and SQS).

Step 2 : Create an EC2 instance.

- Launch instance, select a Amazon Linux AMI (HVM), SSD Volume Type - 64- bit (x86)
- Select instance Type as - t2.micro (free tier) EBS Only
- Click on Next with pre-default settings, till Step 6.
- In Step 6, configure security groups - Add SSH, HTTP and HTTPS and select Source as "Anywhere"
- Click on Review and Launch

Step 3 : Create a SQS Service

- Select the SQS service from Services.
- Select the FIFO queue and name the queue.

Step 4: Generate Key Pair.

Create ".pem" type file, Enter your file-name. Click on Create.

Step 5 : To connect your Instance in your terminal as an EC2 Instance

- Select the EC2 instance and click on Actions -> Instance State -> Start
- Once the EC2 is in Running State, Click on Connect.
- Open the terminal and run the given ssh command in the folder where .pem file is stored.

Step 6 : Create a file using command `vim ~/.aws/config`

- Replace the empty file with the session credentials to access all services available.
- Add it as [default] with `aws_access_key_id`, `aws_secret_access_key`, and `aws_session_token`.
- Save it.
- Region should be set and it is "US_EAST_1"

Step 7 : Check the Java version by - `java -version`.

if Java is missing from the Instance, add it using the "wget" command.

Step 8 : Upload the java .jar files of the program on the S3

- Run "aws s3 cp <PATH_NAME>" command to load these jar files to your EC2 instance.
- Run the .jar file (Runnable Java Application) using - java -jar TextRecognition.jar in one instance.
- Run the .jar file (Runnable Java Application) using - java -jar CarRecognition.jar in another instance.