AWS Command Line Interface (cli) is a command line tool to build and configure any AWS resource

***Configuration:***

aws configure

Requires: Access key ID and Secret access key

Those items are provided when an new IAM user is created in the AWS IAM console

***S3 Maintenance:***

The creation/update/upload on S3 bucket can be done with the command line:

**🡪aws s3**

|  |  |
| --- | --- |
| Command | Description |
| **aws s3 ls** | List all existing bucking in the account |
| **aws s3 ls** *s3://bucket-name* | List the content inside bucket ‘*bucket-name’* |
| **aws s3 rb** *s3://bucket-name*  **aws s3 rb** *s3://bucket-name* **--force** | Delete the bucket ‘*bucket-name’*  Delete also, even if bucket not empty |
|  |  |

See other simple commands here:

<https://docs.aws.amazon.com/cli/latest/userguide/cli-services-s3-commands.html>

***Create DB:***

The command for DB creation is aws rds create-db-instance

See the following page for the details on the parameters

<https://docs.aws.amazon.com/cli/latest/reference/rds/create-db-instance.html>

***Example for MySQL (working dec 2020)***

~~aws rds create-db-instance --db-instance-identifier mysql-db --db-instance-class db.t2.micro --engine mysql --allocated-storage 20 --master-username mysql\_admin --master-user-password mysql2020 --vpc-security-group-ids psg-event-development --publicly-accessible --no-enable-iam-database-authentication~~

aws rds create-db-instance --db-instance-identifier passage --db-instance-class db.t2.micro --engine mysql --allocated-storage 20 --db-subnet-group-name mobiletradev-db-sub-grp --master-username mysql\_admin --master-user-password mysql2020 --vpc-security-group-ids sg-01d1f8ea315ebcb58 --publicly-accessible --no-enable-iam-database-authentication --backup-retention-period 0

Notes:

1 - the free tier requires only a db.t2.micro –engine

2 - The DB subnet ***mobiletradev-db-sub-grp*** is required (Dec 2020)

3 – The VPC security group id ***sg-01d1f8ea315ebcb58*** exists on MCOE Account (Dec 2020)

***Delete DB:***

This command will delete the DB instance, created in the previous command:

***Example for MySQL (working)***

aws rds delete-db-instance --db-instance-identifier passage --skip-final-snapshot

***Add VPS Security Groups:***

By default, the DB won’t allow outside access, unless you specify a security groups that let inbound and outbound communication access/exit the DB

aws rds modify-db-instance --db-instance-identifier mysql-db --vpc-security-group-ids sg-0ccf2a81ff4485cb6

Warning: The Name and the ID are 2 distinct things! To find the id of a security group check in the EC2 security group (not accessible inside the RDS)

***Create EC2 Instance:***

To create an new instance, you need the following to be already defined in your account:

* a key-pairs
* a Security group

a Subnet ID

If you have none of the above, ***they need to be created*** before continuing the rest of the steps of this section.

***Key-Pairs***

You need a key-pairs first, in order to access the EC2 instance you are about to create in this section:

|  |  |
| --- | --- |
| Command | Description |
| ***EC2*** | |
| aws ec2 describe-instances | Identify and describe existing EC2 instance in your account |
| aws ec2 start-instances --instance-ids i-XYZ | Start an existing EC2 instance, having the instance id  i.e: aws ec2 start-instances --instance-ids i-0371a1f3fdf5010ee |
|  | |
| ***Key-Pairs*** | |
| aws ec2 describe-key-pairs | Describe existing key-pairs (if any existing) |
|  |  |
| ***Security-Groups*** |  |
| aws ec2 describe-security-groups | Find and describe all the security groups defined in the AWS account |
| ***Create an instance:*** | |
| aws ec2 run-instances --image-id ami-013d1df4bcea6ba95 --count 1 --instance-type t2.micro --key-name MCOE\_KeyPair --security-group-ids sg-0a8481c723a26c3c4  --subnet-id **subnet-08ab0c95f4080a478** | |

# 

This page can help in the process of creating/launching EC2 instance:

<https://docs.aws.amazon.com/cli/latest/userguide/cli-services-ec2-instances.html>

***Install Tools***

There may be extra tools/programming languages you want to install on the new EC2 instance. Here are few hints:

NodeJS:

<https://docs.aws.amazon.com/sdk-for-javascript/v2/developer-guide/setting-up-node-on-ec2-instance.html>