TASK 1 : AWS

- ☀ **CREATE A KEY PAIR**
- ☀ **CREATE A SECURITY GROUP**
- ☀ **LAUNCH AN INSTANCE USING THE ABOVE CREATED KEY PAIR AND SECURITY GROUP.**
- ☀ **CREATE AN EBS VOLUME OF 1 GB.**
- ☀ **THE FINAL STEP IS TO ATTACH THE ABOVE CREATED EBS VOLUME TO THE INSTANCE YOU CREATED IN THE PREVIOUS STEPS.**
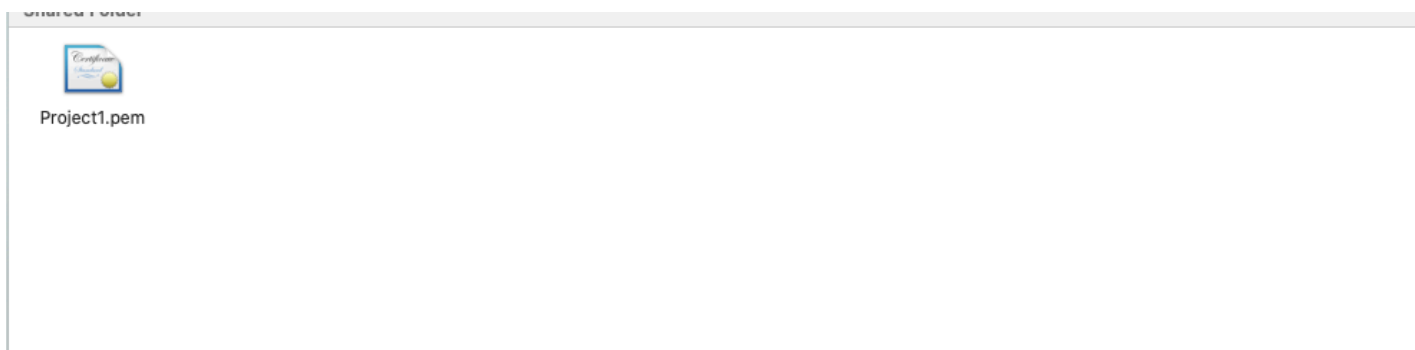
STEP 1:

First configure the AWS cli so that you can use AWS cli command, after this create a key pair by AWS command

```
nishantsingh@Nishants-MacBook-Air awsp % aws configure
AWS Access Key ID [****************3HG6]:
AWS Secret Access Key [****************OWu4]:
Default region name [ap-south-1]:
Default output format [None]:
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 describe-key-pairs
{
    "KeyPairs": []
}
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 delete-key-pair --key-name Project1.pem >> Project1.pem
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 create-key-pair --key-name Project1.pem >> Project1.pem
```

After this you can see key is created in console :

	Name	Fingerprint	ID	
	Project1.pem	e9:af:59:5a:a1:1f:32:64:e6:df:46:f7:04:...	key-07fb9cef0b71ad427	

Key pairs (1)   🔄   Actions ▼   **Create key pair**

And also key is saved in your system

Project1.pem

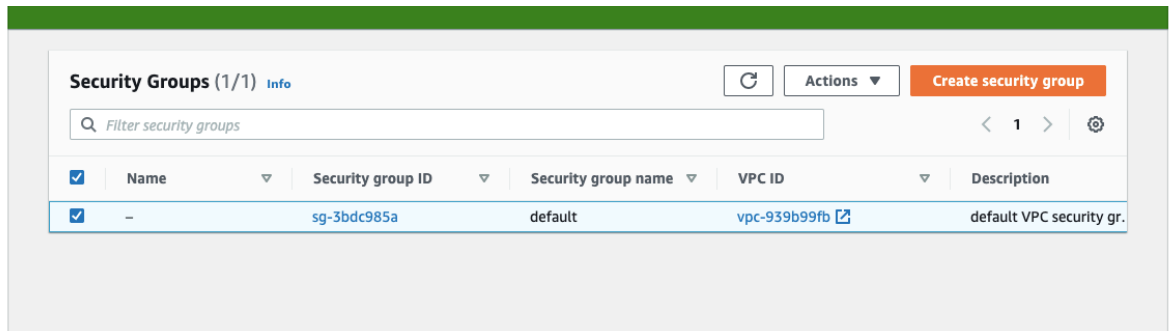# STEP 1 DONE

STEP 2 :

Right now in my was account I have only one security group , that is by default and provided by AWS
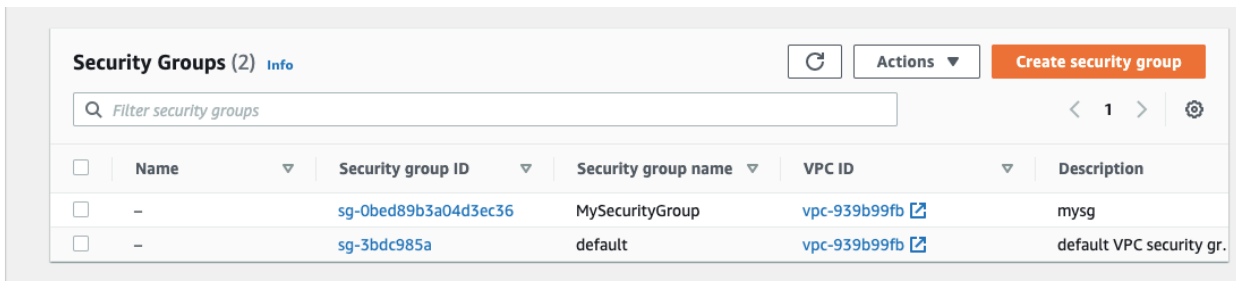
I want to create my security group with AWS cli

```
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 create-security-group help
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 create-security-group --group-name MySecurityGroup --description mysg
{
    "GroupId": "sg-0bed89b3a04d3ec36"
}
nishantsingh@Nishants-MacBook-Air awsp %
```

Now my security group created :

STEP 2 DONE

STEP 3:

Right now I don't have any instances in AWS console

Now I am creating instance with AWS cli and with the help of following command :

```
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 run-instances help
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 run-instances --image-id ami-0e306788ff2473ccb --count 1  --i
nstance-type t2.micro --key-name Project1.pem --security-group-ids sg-0bed89b3a04d3ec36 --subnet-id subnet-4bc
9e223
{
    "Groups": [],
    "Instances": [
        {
            "AmiLaunchIndex": 0,
            "ImageId": "ami-0e306788ff2473ccb",
            "InstanceId": "i-082058b0cfbb7f7b9",
            "InstanceType": "t2.micro",
            "KeyName": "Project1.pem",
            "LaunchTime": "2020-10-14T07:50:12+00:00",
            "Monitoring": {
                "State": "disabled"
            },
            "Placement": {
                "AvailabilityZone": "ap-south-1a",
                "GroupName": "",
                "Tenancy": "default"
            },
```

Now launched

STEP 3 DONE

STEP 4 :

Right now I don't have any volume so creating the volume

```
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 help
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 create-volume help
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 create-volume --volume-type gp2 --size 2 --availability-zone
ap-south-1a
{
    "AvailabilityZone": "ap-south-1a",
    "CreateTime": "2020-10-14T07:55:07+00:00",
    "Encrypted": false,
    "Size": 2,
    "SnapshotId": "",
    "State": "creating",
    "VolumeId": "vol-01b025c64c7dd6b7f",
    "Iops": 100,
    "Tags": [],
    "VolumeType": "gp2"
}
nishantsingh@Nishants-MacBook-Air awsp %
```

Now my volume is created and available

	Name		Volume ID		Size		Volume Type	IOPS		Snapshot		Created		Availability Zone	State		Alarm
☐			vol-01b025c...		2 GiB		gp2	100				October 14, 2020 at...		ap-south-1a	🔵 available		None
☑			vol-0d4a12f2...		8 GiB		gp2	100		snap-027b63b...		October 14, 2020 at...		ap-south-1a	🟢 in-use		None

Sidebar: Tags, Limits, ▼ Instances, Instances New, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts New, Capacity Reservations, ▼ Images, AMIs, ▼ Elastic Block Store. Buttons: Create Volume, Actions ⌄. Filter by tags and attributes or search by keyword. 1 to 2 of 2

STEP 4 DONE

STEP 5:

Right now I am attaching the EBS volume with above created instance

```
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 help
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 attach-volume help
nishantsingh@Nishants-MacBook-Air awsp % aws ec2 attach-volume --volume-id vol-01b025c64c7dd6b7f --instance-id
 i-082058b0cfbb7f7b9 --device /dev/sdf
{
    "AttachTime": "2020-10-14T07:58:48.661000+00:00",
    "Device": "/dev/sdf",
    "InstanceId": "i-082058b0cfbb7f7b9",
    "State": "attaching",
    "VolumeId": "vol-01b025c64c7dd6b7f"
}
nishantsingh@Nishants-MacBook-Air awsp % 
```

Now my volume in use :

	ne ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
	lb025c64c7dd6b7f	2 GiB	gp2	100		October 14, 2020 at…	ap-south-1a	🟢 in-use	None
	34a12f2e9974d909	8 GiB	gp2	100	snap-027b63b…	October 14, 2020 at…	ap-south-1a	🟢 in-use	None

Sidebar:
- Tell us what you think
- EC2 Dashboard New
- Events New
- Tags
- Limits
- ▼ Instances
- Instances New
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans

Create Volume | Actions ∨

Filter by tags and attributes or search by keyword | 1 to 2 of 2

STEP 5 DONE :