

16 OCTOBER 2020

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:

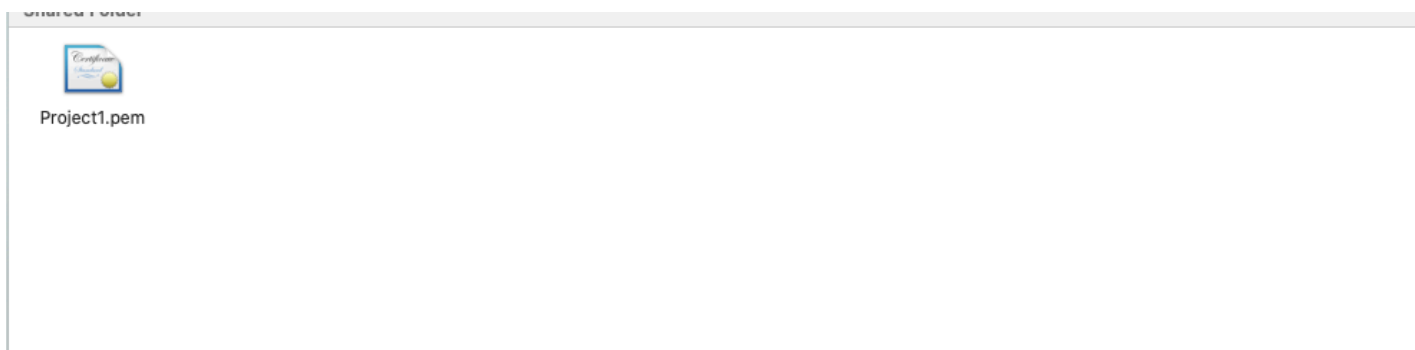
First configure the AWS cli so that you can use AWS cli command, after this create a key pair by AWS command

```
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 :

Key pairs (1)					Actions ▼	Create key pair
<input type="text" value="Filter key pairs"/>				< 1 > 		
<input type="checkbox"/>	Name ▼	Fingerprint ▼	ID ▼			
<input type="checkbox"/>	Project1.pem	e9:af:59:5a:a1:1f:32:64:e6:df:46:f7:04:...	key-07fb9cef0b71ad427			

And also key is saved in your system

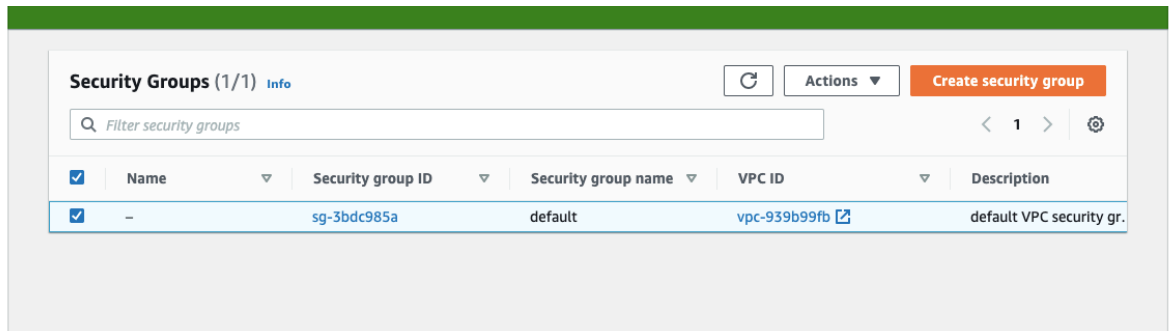


STEP 1 DONE

STEP 2:

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

Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts **New**
Capacity Reservations
▼ Images
AMIs
▼ Elastic Block Store



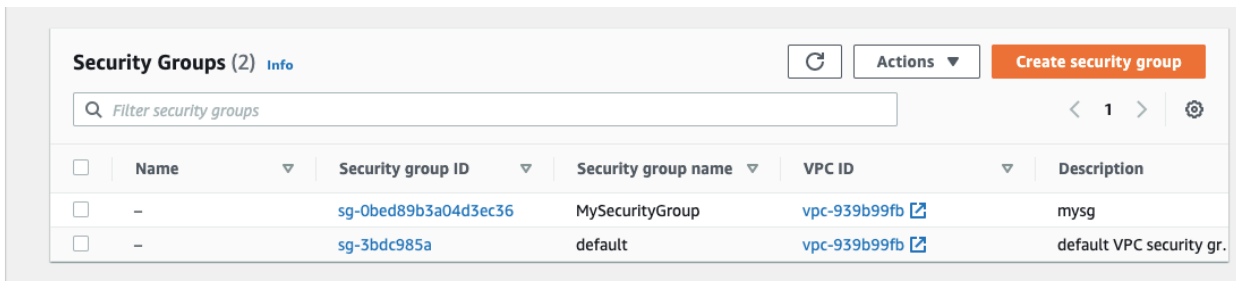
<input checked="" type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description
<input checked="" type="checkbox"/>	-	sg-3bdc985a	default	vpc-939b99fb	default VPC security gr.

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 msg
{
  "GroupId": "sg-0bed89b3a04d3ec36"
}
nishantsingh@Nishants-MacBook-Air awsp %
```

Now my security group created :

Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts **New**
Capacity Reservations
Images
AMIs



<input type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description
<input type="checkbox"/>	-	sg-0bed89b3a04d3ec36	MySecurityGroup	vpc-939b99fb	msg
<input type="checkbox"/>	-	sg-3bdc985a	default	vpc-939b99fb	default VPC security gr.

STEP 2 DONE

STEP 3:

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

EC2 Dashboard **New**

Events **New**

Tags

Limits

▼ Instances

Instances **New**

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Welcome to the new Instances experience!

We're redesigning the EC2 console to make it easier to use. To switch between the old console and the new console, use the New EC2 Experience toggle above the navigation panel. We'll release updates continuously based on customer feedback.

Instances **Info**

Filter instances

Launch Instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
------	-------------	----------------	---------------	--------------	--------------	-------------------

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

EC2 Dashboard **New**

Events **New**

Tags

Limits

▼ Instances

Instances **New**

Instance Types

Launch Templates

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Savings Plans

Reserved Instances

Welcome to the new Instances experience!

We're redesigning the EC2 console to make it easier to use. To switch between the old console and the new console, use the New EC2 Experience toggle above the navigation panel. We'll release updates continuously based on customer feedback.

Instances (1) **Info**

Filter instances

Launch Instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
-	i-082058b0cfbb7f7b9	Running	t2.micro	Initializing	No alarms +	ap-south-1a

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

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

Create Volume

Actions ▼

Filter by tags and attributes or search by keyword

2

<<

<

1 to 2 of 2

>

>>

<input type="checkbox"/>	Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm
<input type="checkbox"/>		vol-01b025c...	2 GiB	gp2	100		October 14, 2020 at...	ap-south-1a	● available	None
<input checked="" type="checkbox"/>		vol-0d4a12f2...	8 GiB	gp2	100	snap-027b63b...	October 14, 2020 at...	ap-south-1a	● in-use	None

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 :

Tell us what you think ^

EC2 Dashboard New	Create Volume	Actions ▾								
Events New	Filter by tags and attributes or search by keyword									
Tags	Volume ID ▾	Size ▴	Volume Type ▾	IOPS ▾	Snapshot ▾	Created ▾	Availability Zone ▾	State ▾	Alarm Status	
Limits	lb025c64c7dd6b7f	2 GiB	gp2	100		October 14, 2020 at...	ap-south-1a	● in-use	None	
▼ Instances	f4a12f2e9974d909	8 GiB	gp2	100	snap-027b63b...	October 14, 2020 at...	ap-south-1a	● in-use	None	
Instances New										
Instance Types										
Launch Templates										
Spot Requests										
Savings Plans										

STEP 5 DONE: