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Batch:71

-PRACTICAL 13-

Use AWS CLI and configure it.

Services to be configured through CLI:

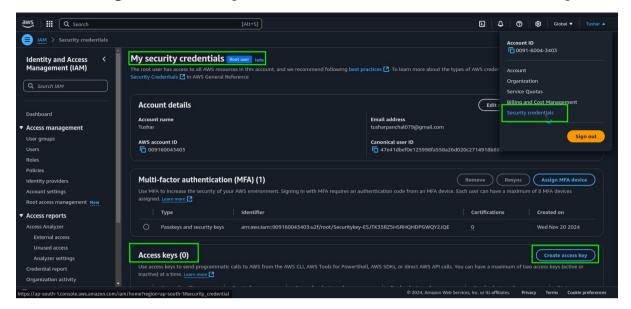
- 1) S3
- **2)** EC2
- **3)** IAM
- **4)** VPC

https://awscli.amazonaws.com/AWSCLIV2.msi

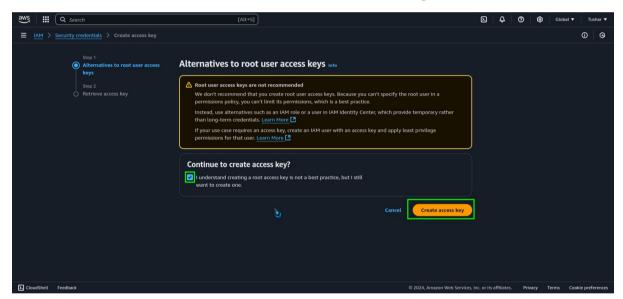
First you have to install the aws-cli using the above link.

And check for the version.

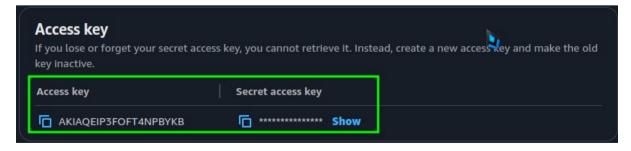
After that go to security credentials and create Access key



Hit the chceckbox and hit create access key button



Now copy that access key and secret key to use it in CMD



Now run below command to configure

• S3:

Run below command to create \$3 Bucket:

```
tushar@ROG in ~ on o (ap-south-1) took 3m22s

\[ \lambda \text{ aws s3 mb s3://tushar-s3-bucket-cli} \]

make_bucket: tushar-s3-bucket-cli

tushar@ROG in ~ on o (ap-south-1) took 3s
\[ \lambda \text{ aws s3 ls} \]

2024-11-21 09:40:36 tushar-s3-bucket-cli 2024-11-14 05:43:46 user-code-storage
```

Now let's upload an image file

```
tushar@ROG in ~ on ~ (ap-south-1) took 1s

cd Pictures/

tushar@ROG in ~/Pictures on ~ (ap-south-1)

ls

.rw-r-r- 115k tushar 19 Nov 00:11 © 2024-11-19_00-11.png

.rw-r-r- 15k tushar 20 Nov 10:37 © 2024-11-20_10-37.png

.rw-r-r- 1.9M tushar 21 Nov 09:44 © ghost-call-of-duty-modern-warfare-2-2022-4k-wallpaper-uhdpaper.com-447@1@h.jpg
```

Now run below command to upload your file

```
tushar@ROG in ~/Pictures on o (ap-south-1) took 0s

.rw-r--r-- 1.9M tushar 21 Nov 09:44  phost.jpg

tushar@ROG in ~/Pictures on o (ap-south-1) took 0s

aws s3 cp ghost.jpg s3://tushar-s3-bucket-cli

upload: ./ghost.jpg to s3://tushar-s3-bucket-cli/ghost.jpg
```

Now run below command to download file which we upload to our bucket in above command

```
tushar@ROG in ~/Pictures on o (ap-south-1) took 0s

tushar@ROG in ~/Pictures/images on o (ap-south-1)

tushar@ROG in ~/Pictures/images on o (ap-south-1) took 0s

tushar@ROG in ~/Pictures/images on o (ap-south-1) took 0s

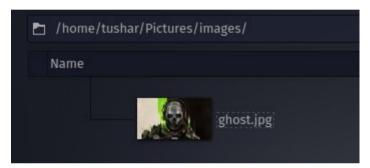
aws s3 cp s3://tushar-s3-bucket-cli/ghost.jpg .

download: s3://tushar-s3-bucket-cli/ghost.jpg to ./ghost.jpg

tushar@ROG in ~/Pictures/images on o (ap-south-1) took 3s

ls
.rw-r--r-- 1.9M tushar 21 Nov 09:58 
ghost.jpg
```

Here you can see that the file is copy to the other location



Now lets list our objects located in bucket using below scipt

```
tushar@ROG in ~/Pictures/images on ○ (ap-south-1) took 0s

\[ \aws s3 ls s3://tushar-s3-bucket-cli \]
2024-11-21 09:58:38 1923113 ghost.jpg
```

To remove object run below command

```
tushar@ROG in ~/Pictures/images on o (ap-south-1) took 2s
\[ \lambda \text{ aws s3 rm s3://tushar-s3-bucket-cli/ghost.jpg} \]
\[ \text{delete: s3://tushar-s3-bucket-cli/ghost.jpg} \]
\[ \text{tushar@ROG} in ~/Pictures/images on o (ap-south-1) took 1s} \]
\[ \lambda \text{ aws s3 ls s3://tushar-s3-bucket-cli} \]
```

As you can see above object is removed successfully.

To remove bucket run below command

```
tushar@ROG in ~/Pictures/images on o (ap-south-1) took 1s aws s3 rb s3://tushar-s3-bucket-cli
remove_bucket: tushar-s3-bucket-cli

tushar@ROG in ~/Pictures/images on o (ap-south-1) took 2s
aws s3 ls
2024-11-14 05:43:46 user-code-storage
```

As you can see our bucket has been removed successfully.

• EC2:

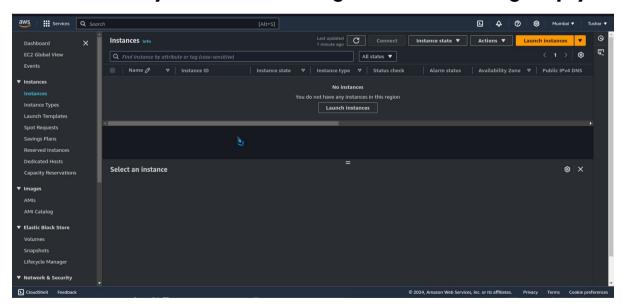
To list instances located in our aws run below command

```
tushar@ROG in ~ on o (ap-south-1) took Os

| A aws ec2 describe-instances

| Reservations": []
|
```

I don't have any instances running so above showing empty



This command is use to Create the instance take the image id, key name, security group from Lanuch instance and subents from vpc

Here's the general syntax

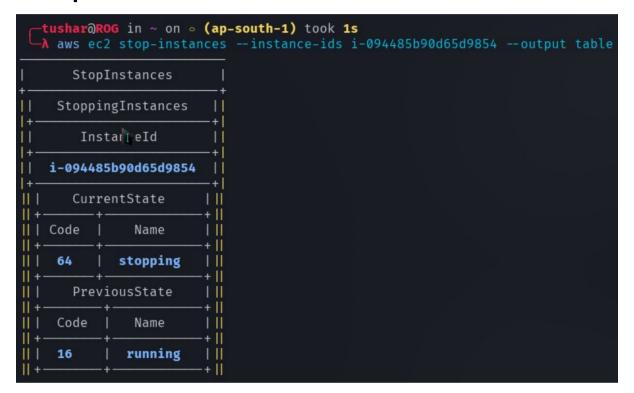
As you can see below running successfully

```
aws ec2 describe-instances --query
"Reservations[*].Instances[*].[InstanceId,InstanceType,Stat
e.Name,PublicIpAddress,PrivateIpAddress,Tags[?Key=='Name'].
Value | [0]]" --output table
```

Here you can see the instance is created



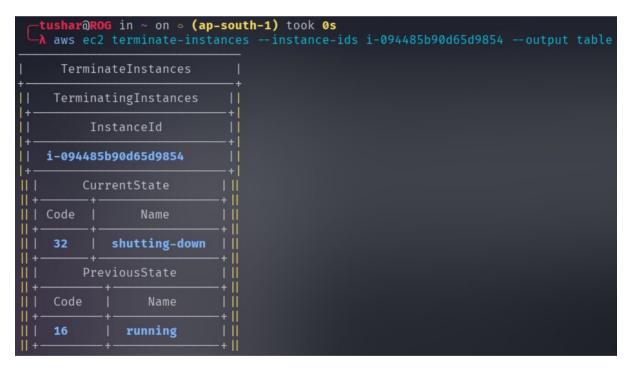
To stop an instance run below command



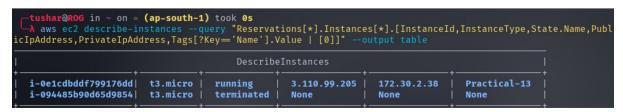
To start again that instance run below command

```
tushar@ROG in ~ on \circ (ap-south-1) took Os
  -A aws ec2 start-instances --instance-ids i-094485b90d65d9854 --output table
      StartInstances
     StartingInstances
        InstanceId
П
    i-094485b90d65d9854
\Pi I
       CurrentState
11 1
     Code
               Name
Ш
              pending
       PreviousState
     Code
     80
              stopped
```

To terminate the instance run below command



As you can see below instance has been temrinated



• IAM :

First of all let's list our iam users by running below command

```
tushar@ROG in ~ on ∘ (ap-south-1) took 0s

\[ \lambda \text{ aws iam list-users --output table} \]

|ListUsers|
+-----+
```

To create the IAM user run below command

As you can see below IAM user Tushar is created successfully

To delete IAM user run below command

```
tushar@ROG in ~ on ∘ (ap-south-1) took 0s

\[ \lambda \text{ aws iam delete-user --user-name Tushar --output table} \]

\[ \text{tushar@ROG} \text{ in ~ on ∘ (ap-south-1) took 3s} \]
\[ \lambda \text{ aws iam list-users --output table} \]

|ListUsers|
+-----+
```

• VPC:

To see VPC located in aws account run below command

```
aws ec2 describe-vpcs \
    --query "Vpcs[*].[VpcId,CidrBlock,State,IsDefault,Tags[?Key=='Name'].Value | [0]]" \
    --output table
```