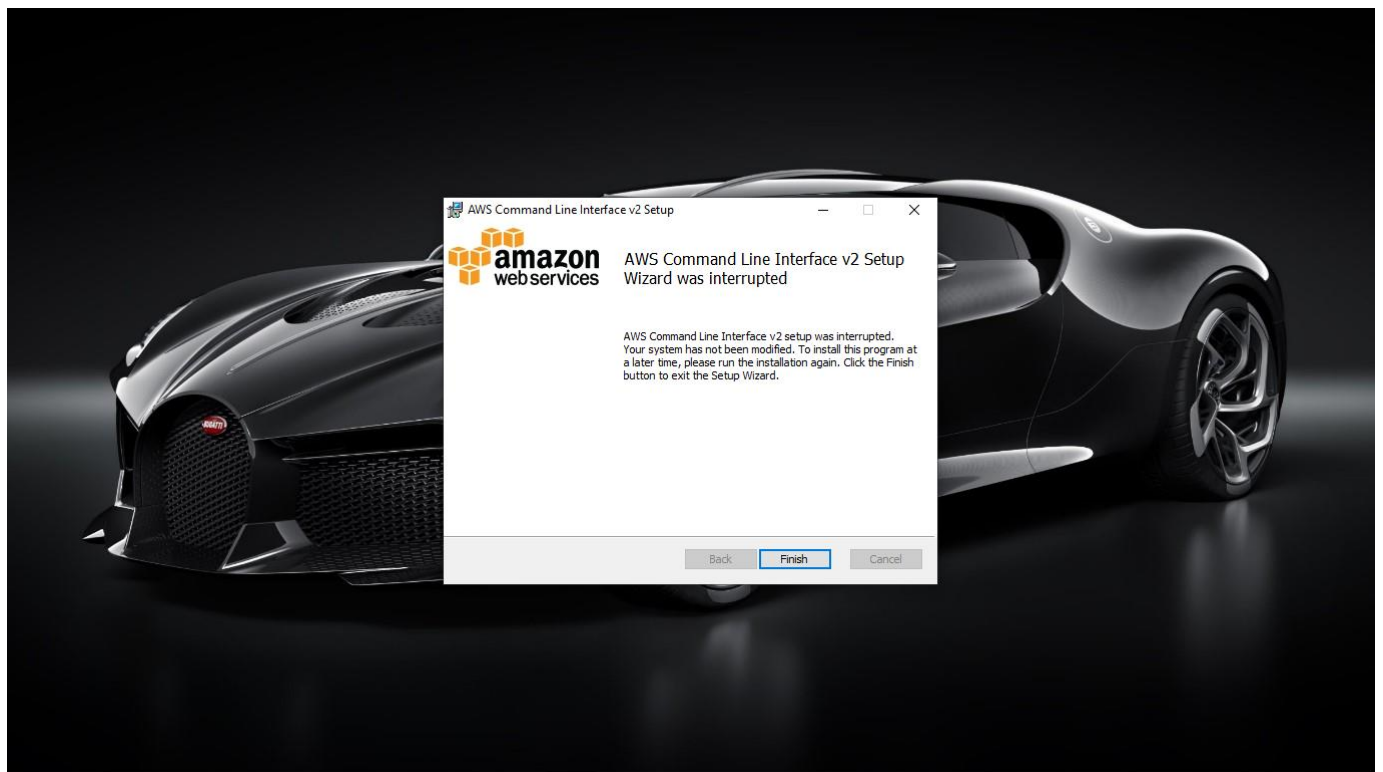


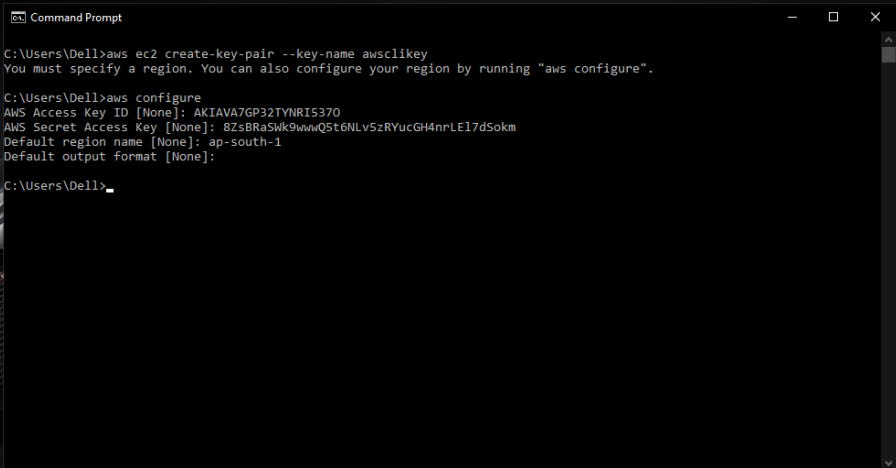
Hello everyone in the given task we are using AWS using CLI

Task Description:

- ⚙️ 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.

At first we have to download and install the AWS CLI Tool in our OS





```
Command Prompt

C:\Users\Dell>aws ec2 create-key-pair --key-name awsclikey
You must specify a region. You can also configure your region by running "aws configure".

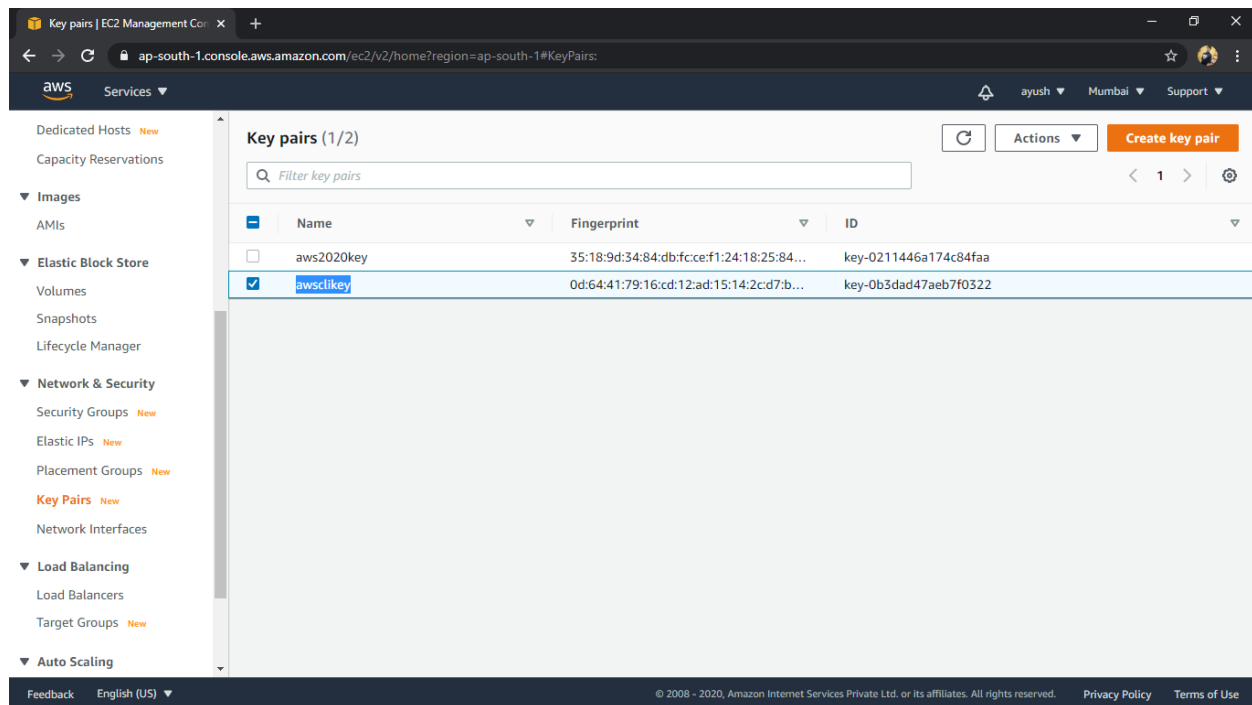
C:\Users\Dell>aws configure
AWS Access Key ID [None]: AKIAVA7GP32TYNRI5370
AWS Secret Access Key [None]: 8ZsBRa5Wk9wWmQ5t6NLv5zRYucGH4nrLEl7dSokm
Default region name [None]: ap-south-1
Default output format [None]:

C:\Users\Dell>
```

aws ec2 help

for creating a key pair we use the command :

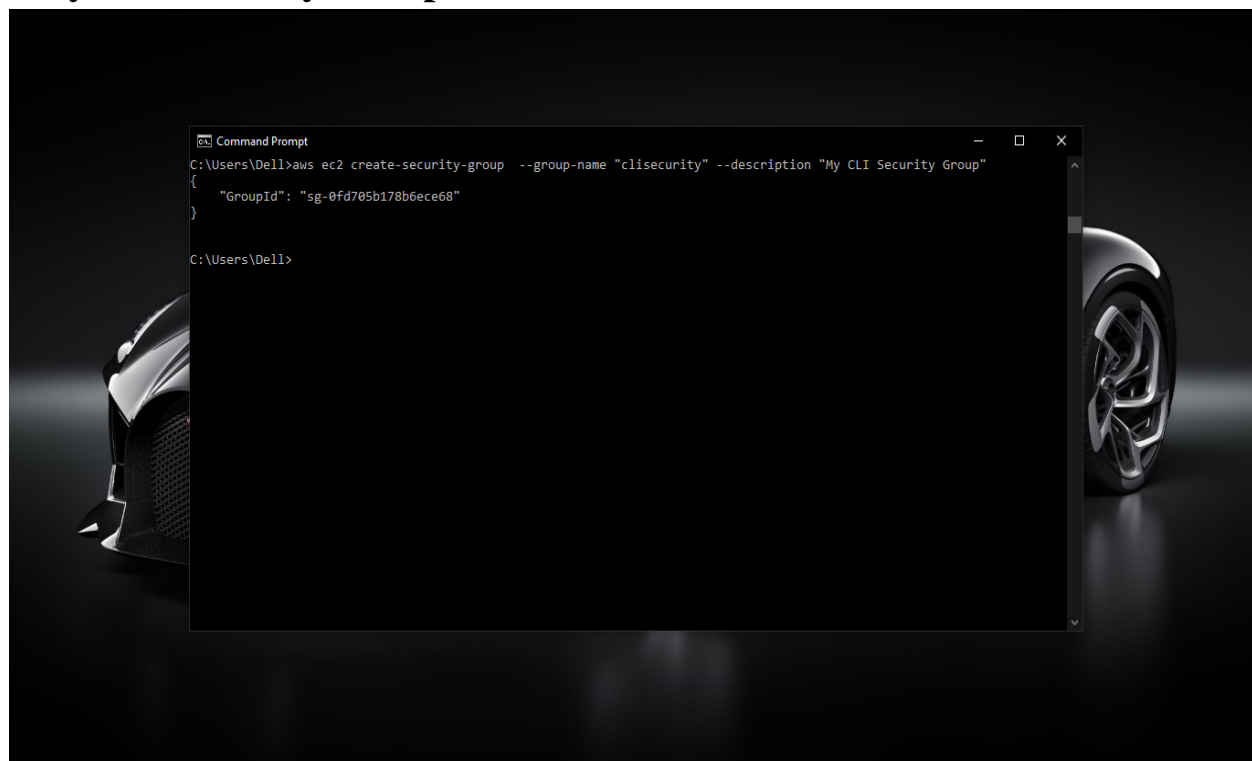
[illegible]

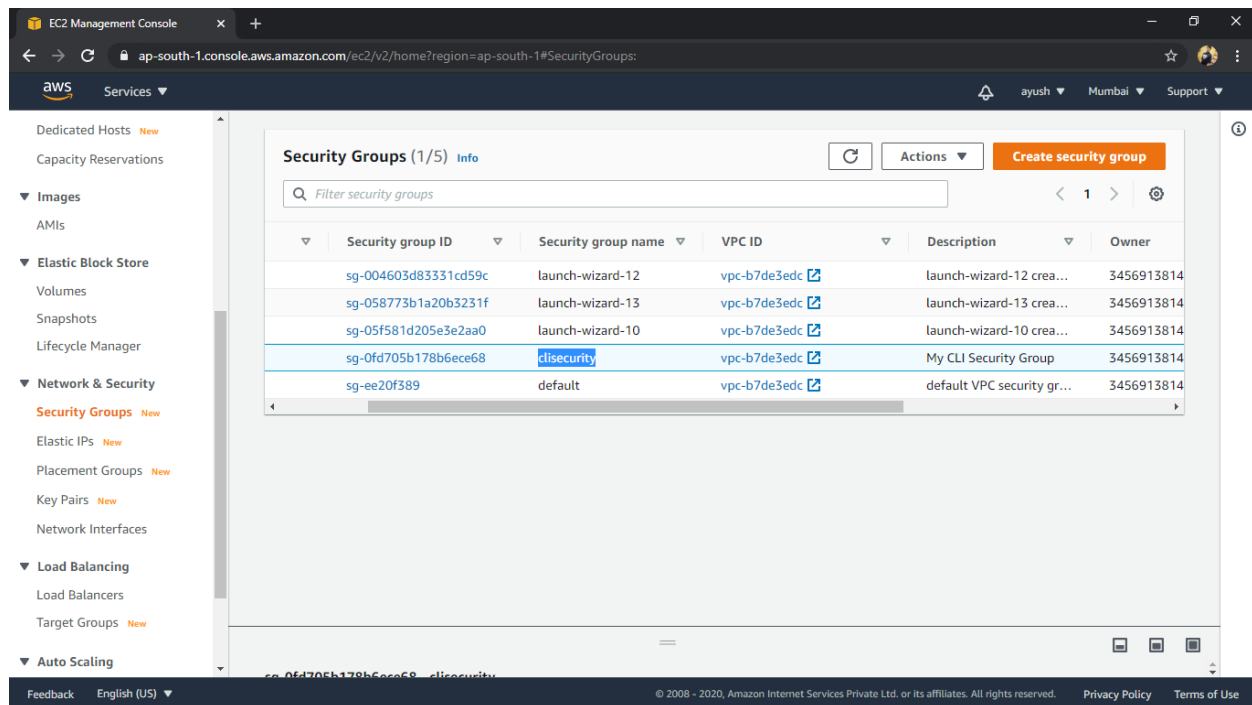


Now we have to create a security group

for creating a security group we use the command :

aws ec2 create-security-group --group-name "clisecurity" --description "My CLI Security Group"

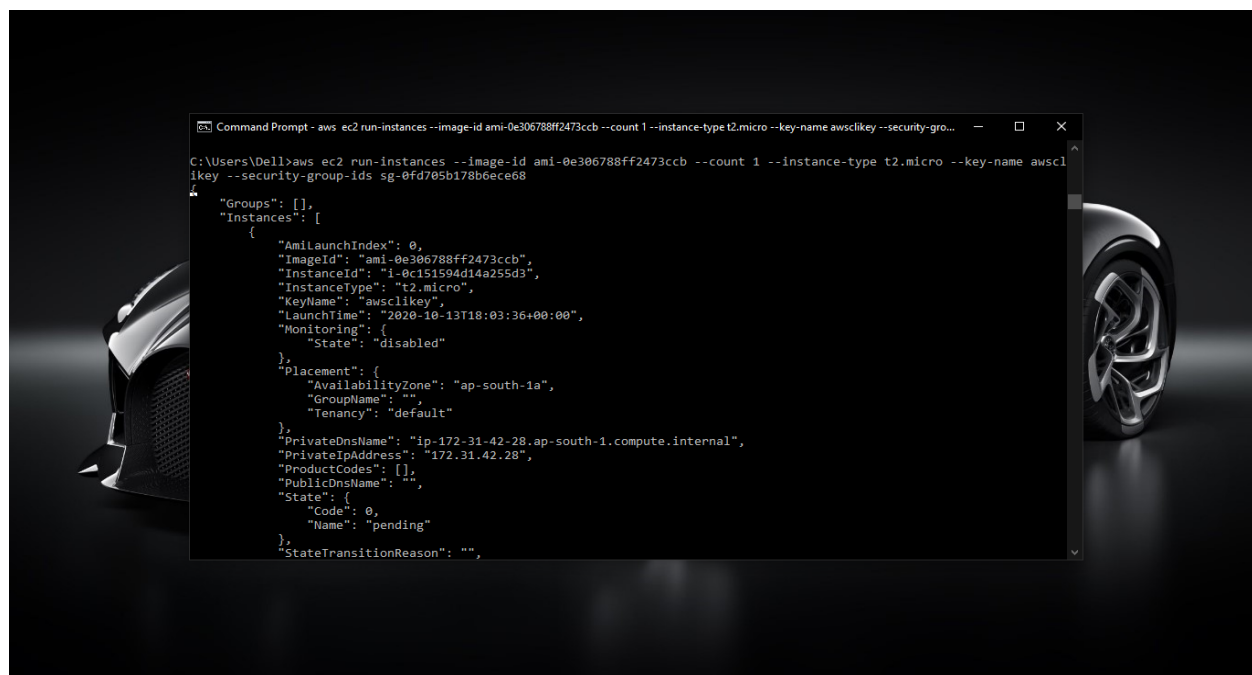




In the next step we have to launch an instance using the above created key pair and security group

for creating an instance we use the command :

```
aws ec2 run-instances --image-id ami-0e306788ff2473ccb --count 1 --instance-type t2.micro --key-name awsclikey --security-group-ids sg-0fd705b178b6ece68
```

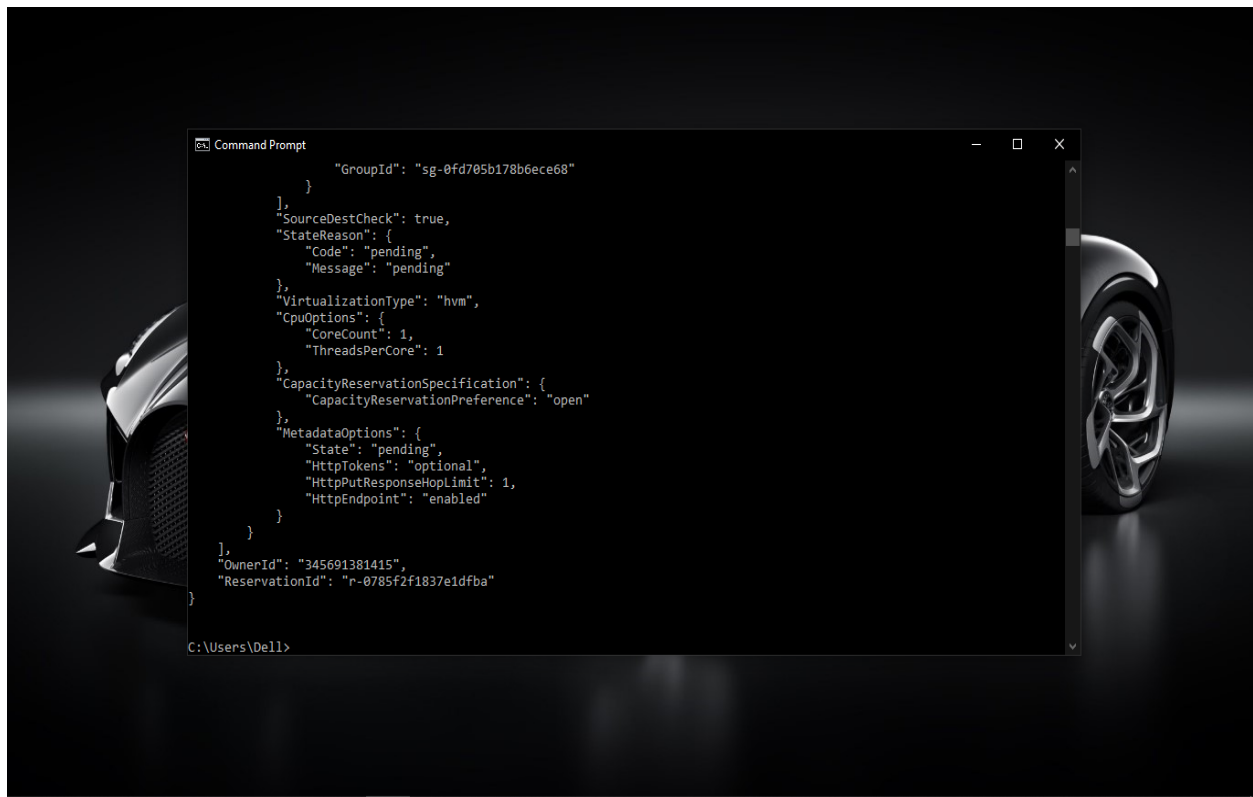


```
Command Prompt - aws ec2 run-instances --image-id ami-0e306788ff2473ccb --count 1 --instance-type t2.micro --key-name awsclikey --security-gro...

"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "022c4a69-0fda-4f64-97cc-cad093ad5e9e",
"EbsOptimized": false,
"Hypervisor": "xen",
"NetworkInterfaces": [
  {
    "Attachment": {
      "AttachTime": "2020-10-13T18:03:36+00:00",
      "AttachmentId": "eni-attach-003d038cdeb69dbc0",
      "DeleteOnTermination": true,
      "DeviceIndex": 0,
      "Status": "attaching"
    },
    "Description": "",
    "Groups": [
      {
        "GroupName": "clisecurity",
        "GroupId": "sg-0fd705b178b6ece68"
      }
    ],
    "Ipv6Addresses": [],
    "MacAddress": "02:8d:0a:dc:99:b6",
    "NetworkInterfaceId": "eni-0d572b86fcc76ed1",
    "OwnerId": "345691381415",
    "PrivateDnsName": "ip-172-31-42-28.ap-south-1.compute.internal",
    "PrivateIpAddress": "172.31.42.28",
    "PrivateIpAddresses": [
      {
        "Primary": true,
        "PrivateDnsName": "ip-172-31-42-28.ap-south-1.compute.internal",
        "PrivateIpAddress": "172.31.42.28"
      }
    ],
    "SourceDestCheck": true,
    "Status": "in-use",
    "SubnetId": "subnet-87757cef",
    "VpcId": "vpc-b7de3edc",
    "InterfaceType": "interface"
  }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "clisecurity",
    "GroupId": "sg-0fd705b178b6ece68"
  }
],
"SourceDestCheck": true,
"StateReason": {
  "Code": "pending",
  "Message": "pending"
},
"VirtualizationType": "hvm",
"CpuOptions": {
  "CoreCount": 1,
  "ThreadsPerCore": 1
}
```

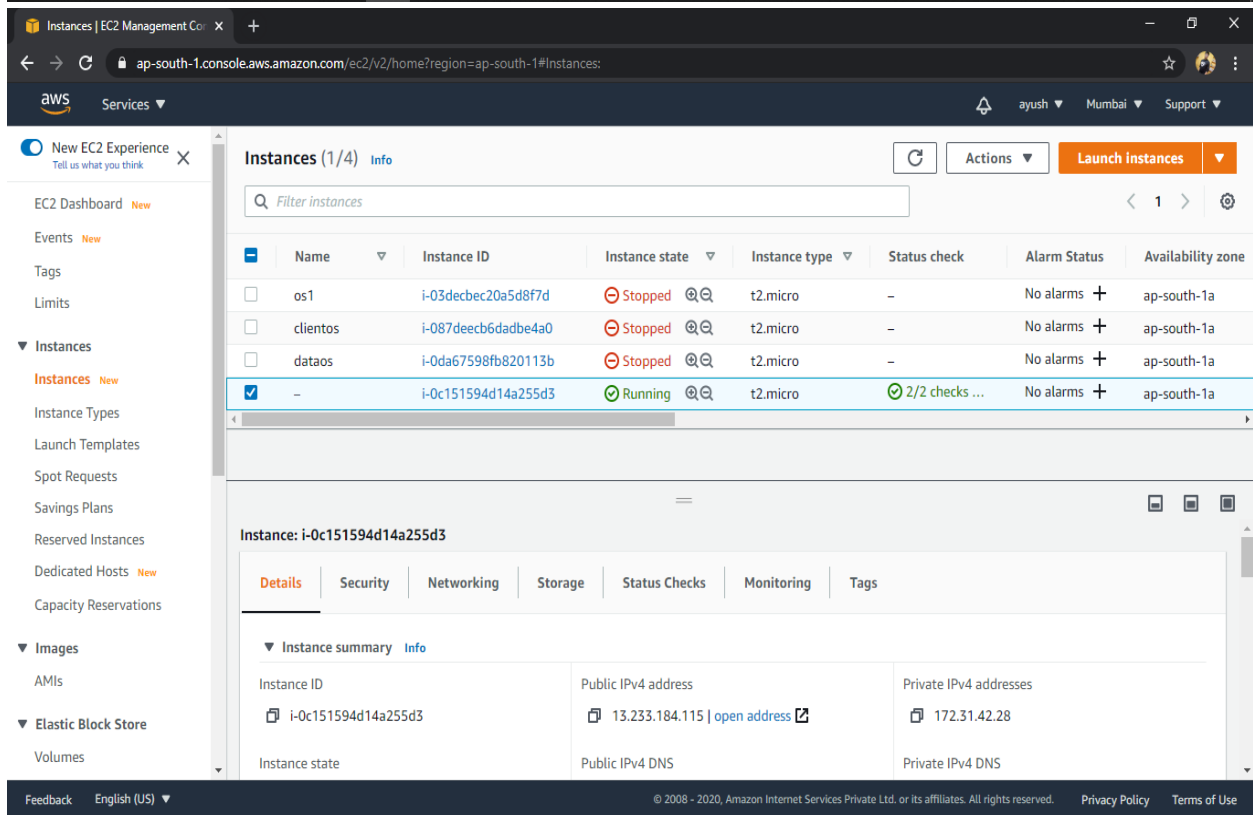
```
Command Prompt - aws ec2 run-instances --image-id ami-0e306788ff2473ccb --count 1 --instance-type t2.micro --key-name awsclikey --security-gro...

"Primary": true,
"PrivateDnsName": "ip-172-31-42-28.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.42.28"
  }
},
"SourceDestCheck": true,
"Status": "in-use",
"SubnetId": "subnet-87757cef",
"VpcId": "vpc-b7de3edc",
"InterfaceType": "interface"
  }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "clisecurity",
    "GroupId": "sg-0fd705b178b6ece68"
  }
],
"SourceDestCheck": true,
"StateReason": {
  "Code": "pending",
  "Message": "pending"
},
"VirtualizationType": "hvm",
"CpuOptions": {
  "CoreCount": 1,
  "ThreadsPerCore": 1
}
```



```
"GroupId": "sg-0fd705b178b6ece68"
    },
    "SourceDestCheck": true,
    "StateReason": {
      "Code": "pending",
      "Message": "pending"
    },
    "VirtualizationType": "hvm",
    "CpuOptions": {
      "CoreCount": 1,
      "ThreadsPerCore": 1
    },
    "CapacityReservationSpecification": {
      "CapacityReservationPreference": "open"
    },
    "MetadataOptions": {
      "State": "pending",
      "HttpTokens": "optional",
      "HttpPutResponseHopLimit": 1,
      "HttpEndpoint": "enabled"
    }
  },
  "OwnerId": "345691381415",
  "ReservationId": "r-0785f2f1837e1dfba"
}
```

C:\Users\ DELL>



Instances | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#instances:

Services

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Instances (1/4)

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
os1	i-03decbe20a5d8f7d	Stopped	t2.micro	-	No alarms	ap-south-1a
clientes	i-087deecb6dadbe4a0	Stopped	t2.micro	-	No alarms	ap-south-1a
dataos	i-0da67598fb820113b	Stopped	t2.micro	-	No alarms	ap-south-1a
-	i-0c151594d14a255d3	Running	t2.micro	2/2 checks ...	No alarms	ap-south-1a

Instance: i-0c151594d14a255d3

Details | Security | Networking | Storage | Status Checks | Monitoring | Tags

Instance summary

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0c151594d14a255d3	13.233.184.115 open address	172.31.42.28
Instance state	Public IPv4 DNS	Private IPv4 DNS

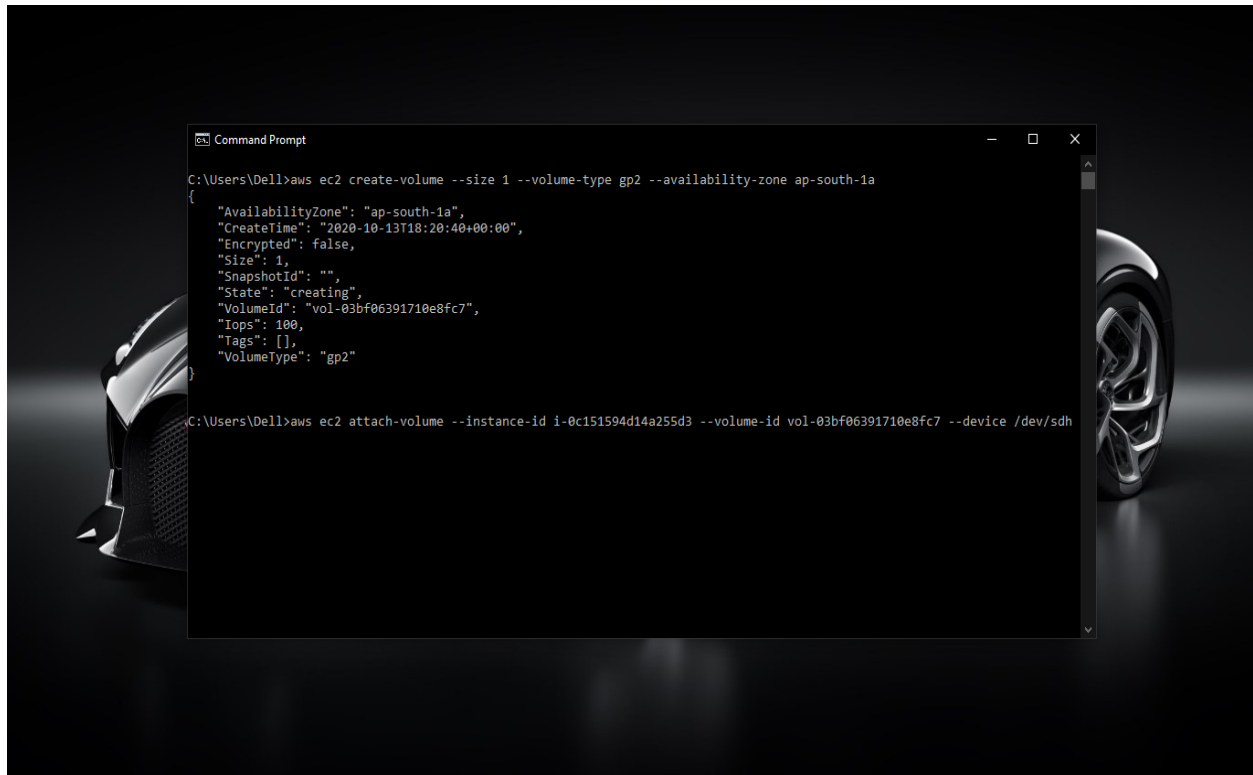
Feedback English (US)

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Now we have to create an EBS volume of 1 GB.

for creating a volume we use the command :

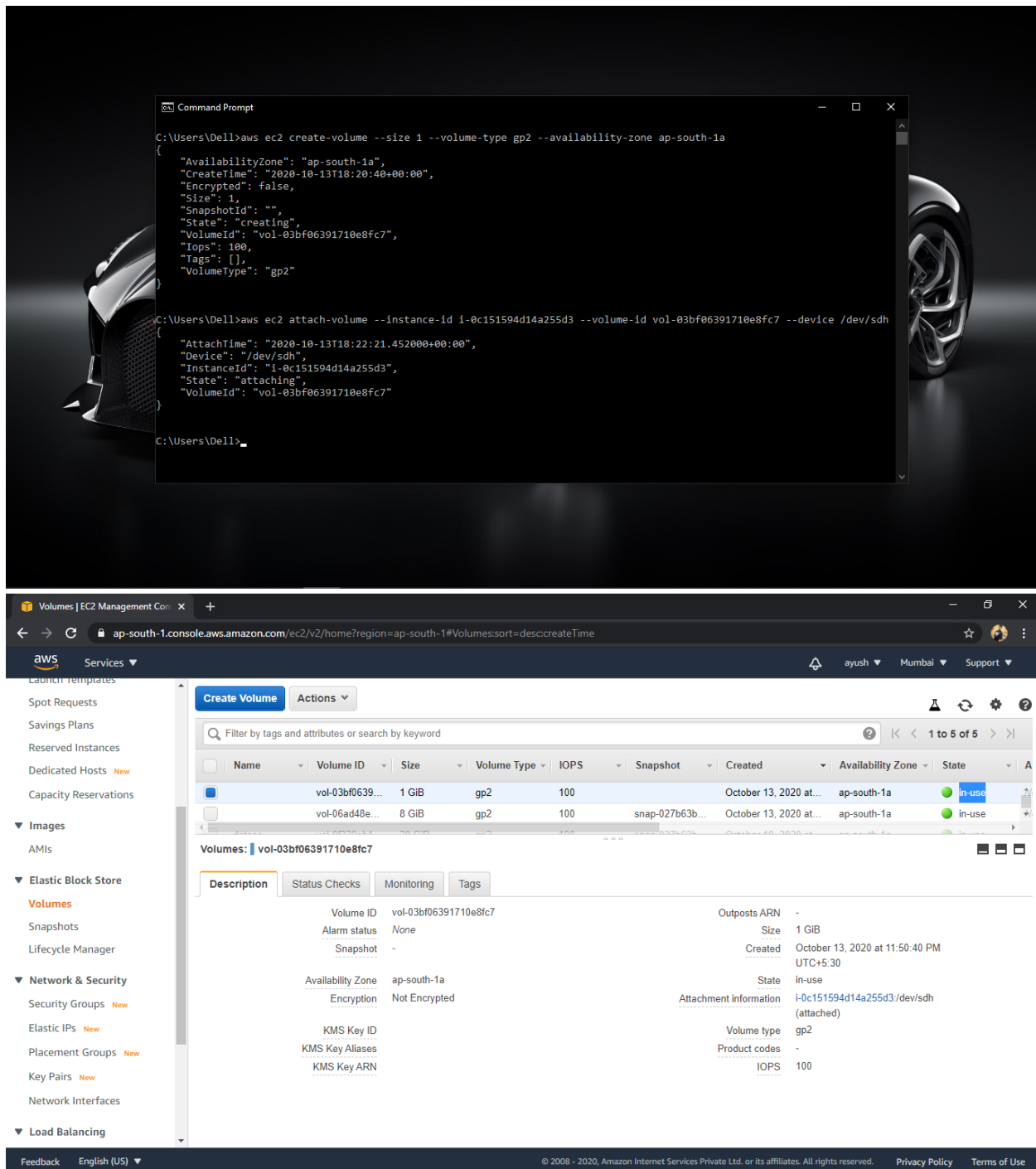
aws ec2 create-volume --size 1 --volume-type gp2 --availability-zone ap-south-1a



At last we have to attach the above created EBS volume to the instance

for attaching we use the command :

aws ec2 attach-volume --instance-id i-0c151594d14a255d3 --volume-id vol-03bf06391710e8fc7 --device /dev/sdh



The image shows a Windows Command Prompt window and the AWS Management Console. The Command Prompt displays the execution of two AWS CLI commands: `aws ec2 create-volume` and `aws ec2 attach-volume`. The first command creates a 1 GiB gp2 volume in the ap-south-1a availability zone. The second command attaches this volume to an EC2 instance (i-0c151594d14a255d3) at the device path `/dev/sdh`.

The AWS Management Console screenshot shows the 'Volumes' page for the 'ap-south-1' region. It lists two volumes: `vol-03bf06391710e8fc7` (1 GiB gp2, 100 IOPS) and `vol-06ad48e...` (8 GiB gp2, 100 IOPS). The first volume is in the 'in-use' state. Below the list, the details for `vol-03bf06391710e8fc7` are shown, including its description, status checks, monitoring, and tags.

Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
vol-03bf06391710e8fc7	1 GiB	gp2	100	-	October 13, 2020 at 11:50:40 PM UTC+5:30	ap-south-1a	in-use
vol-06ad48e...	8 GiB	gp2	100	snap-027b63b...	October 13, 2020 at 11:50:40 PM UTC+5:30	ap-south-1a	in-use

Volumes: vol-03bf06391710e8fc7

Property	Value
Volume ID	vol-03bf06391710e8fc7
Alarm status	None
Snapshot	-
Availability Zone	ap-south-1a
Encryption	Not Encrypted
KMS Key ID	-
KMS Key Aliases	-
KMS Key ARN	-
Outposts ARN	-
Size	1 GiB
Created	October 13, 2020 at 11:50:40 PM UTC+5:30
State	in-use
Attachment information	i-0c151594d14a255d3/dev/sdh (attached)
Volume type	gp2
Product codes	-
IOPS	100

So, in this task i done the above mentioned task and shows its details

Thanks to Vimal Daga sir

