

AT FIRST WE NEED TO CREATE THE IAM USER AND GET THE SECRET KEY AND ACCESS KEY TO CONFIGURE THE AWS USING THE CLI (COMMAND LINE INTERFACE). AND GIVE THE DEFAULT KEYS AND REGION TO CONFIGURE LIKE BELOW.

The screenshot shows a web browser window displaying the AWS Management Console for the 'ap-south-1' region. The 'Key Pairs' section is selected in the left-hand navigation menu. Overlaid on the console is a Windows Command Prompt window where the 'aws configure' command has been executed. The command prompt shows the following steps: entering the AWS Access Key ID (AKIA4VGUUBMOQS7A3HDJ), the AWS Secret Access Key (z0...), the default region name (ap-south-1), and the default output format (cls). The Command Prompt window is titled 'Microsoft Windows [Version 10.0.18363.1082] (c) 2019 Microsoft Corporation. All rights reserved.' and the user is 'C:\Users\91998>'. The AWS console background shows the 'Create key pair' button and a list of key pairs.

```
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\91998>aws configure
AWS Access Key ID [*****GPXK]: AKIA4VGUUBMOQS7A3HDJ
AWS Secret Access Key [*****2yKV]: z0...
Default region name [ap-south-1]: ap-south-1
Default output format [cls]:
C:\Users\91998>
```

STEP :2 NOW WE NEED TO CREATE A KEY PAIR AND SECURITY GROUPS.

BELOW THERE ARE FOUR SECURITY GROUPS .

The screenshot shows the AWS Management Console interface for the 'ap-south-1' region. The main content area is titled 'Key pairs (4)' and contains a table listing four key pairs. The left sidebar shows the navigation menu with categories like Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

| <input type="checkbox"/> | Name | Fingerprint | ID |
|--------------------------|----------------|--|-----------------------|
| <input type="checkbox"/> | aws2020 | 19:b2:da:c7:65:d2:d8:c1:f5:06:be:58:b... | key-0b348c43ad4c8239c |
| <input type="checkbox"/> | awstrainingkey | 3a:d6:3d:74:8d:64:0b:59:1a:d0:90:04:0... | key-0e46deced680c3c75 |
| <input type="checkbox"/> | hadoopkey | 83:87:7d:54:e8:43:5a:b4:51:1a:ca:94:1... | key-0df8c169b604f4056 |
| <input type="checkbox"/> | windows os | 96:89:8a:e8:87:1e:a3:65:a3:58:ef:12:d... | key-07110df9b2b1a537b |

THESE ARE THE PARAMETERS AND SYNOPSIS THAT WE USE IN THE CREATION OF THE KEY PAIR.

The screenshot displays the AWS Management Console interface for the 'ap-south-1' region. The left-hand navigation pane shows various services, with 'Network & Security' expanded, highlighting 'Key Pairs'. The main content area shows the 'Key Pairs' page with a 'Create key pair' button. Overlaid on this is a 'Command Prompt' window showing the following text:

```
Synopsis
*****

    create-key-pair
    --key-name <value>
    [--dry-run | --no-dry-run]
    [--tag-specifications <value>]
    [--cli-input-json | --cli-input-yaml]
    [--generate-cli-skeleton <value>]
    [--cli-auto-prompt <value>]

Options
*****

C:\Users\91998>aws ec2 create-key-pair

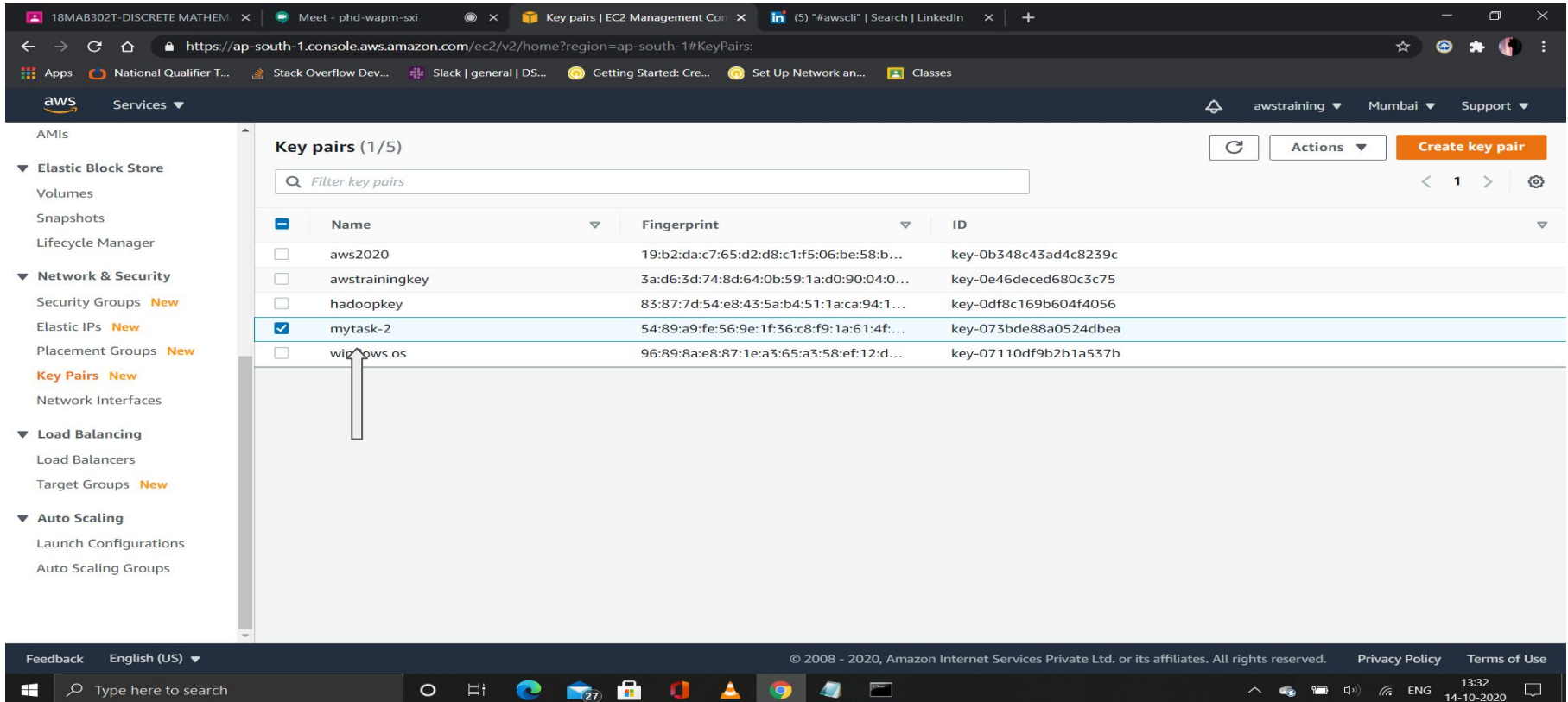
C:\Users\91998>aws ec2 create-key-pair --key-name mytask-2

Unknown output type: cls

C:\Users\91998>
```

The Windows taskbar at the bottom shows the system clock as 13:32 on 14-10-2020, with the language set to ENG.

NOW THE KEY FAIR IS CREATED BY THE NAME MYTASK-2



The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for various services: AMIs, Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Auto Scaling (Launch Configurations, Auto Scaling Groups). The main content area is titled 'Key pairs (1/5)' and includes a search bar, a refresh button, an 'Actions' dropdown, and a 'Create key pair' button. A table lists the existing key pairs:

| | Name | Fingerprint | ID |
|-------------------------------------|----------------|--|-----------------------|
| <input type="checkbox"/> | aws2020 | 19:b2:da:c7:65:d2:d8:c1:f5:06:be:58:b... | key-0b348c43ad4c8239c |
| <input type="checkbox"/> | awstrainingkey | 3a:d6:3d:74:8d:64:0b:59:1a:d0:90:04:0... | key-0e46deced680c3c75 |
| <input type="checkbox"/> | hadoopkey | 83:87:7d:54:e8:43:5a:b4:51:1a:ca:94:1... | key-0df8c169b604f4056 |
| <input checked="" type="checkbox"/> | mytask-2 | 54:89:a9:fe:56:9e:1f:36:c8:f9:1a:61:4f:... | key-073bde88a0524dbea |
| <input type="checkbox"/> | windows os | 96:89:8a:e8:87:1e:a3:65:a3:58:ef:12:d... | key-07110df9b2b1a537b |

The 'mytask-2' key pair is selected, and a white arrow points to it. The bottom of the screen shows the Windows taskbar with the search bar and system tray.

ANOTHER STEP IS TO CREATE THE SECURITY GROUP .

The screenshot displays the AWS Management Console for the 'ap-south-1' region, specifically the 'Security Groups' page. A Command Prompt window is overlaid on the console, showing the process of creating security groups. The first command, `aws ec2 create-security-group`, is followed by a second command: `aws ec2 create-security-group --group-name launch-wizard-4 --description "allow SSH"`. The console output shows an error: `An error occurred (InvalidGroup.Duplicate) when calling the CreateSecurityGroup operation: The security group 'launch-wizard-4' already exists for VPC 'vpc-8ec323e5'`. The third command shown is `aws ec2 create-security-group --group-name mysecurity-2 --description "allow SSH"`, which results in the message `Unknown output type: cls`. The background shows the AWS console interface with a sidebar menu on the left containing categories like Images, Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The top navigation bar includes the AWS logo, 'Services' dropdown, and user information. The bottom taskbar shows the Windows Start button, search bar, and various application icons.

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

Services ▼ awstraining ▼ Mumbai ▼ Support ▼

▼ Images
AMIs

▼ Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

▼ Network & Security
Security Groups New
Elastic IPs New
Placement Groups
Key Pairs New
Network Interfaces

▼ Load Balancing
Load Balancers
Target Groups New

▼ Auto Scaling
Launch Configuration

Command Prompt

A description for the security group. This is informational only.

Constraints: Up to 255 characters in length

C:\Users\91998>aws ec2 create-security-group

C:\Users\91998>aws ec2 create-security-group --group-name --description

C:\Users\91998>aws ec2 create-security-group --group-name launch-wizard-4 --description "allow SSH"

An error occurred (InvalidGroup.Duplicate) when calling the CreateSecurityGroup operation: The security group 'launch-wizard-4' already exists for VPC 'vpc-8ec323e5'

C:\Users\91998>aws ec2 create-security-group --group-name mysecurity-2 --description "allow SSH"

Unknown output type: cls

C:\Users\91998>

Security group

1 > ⚙

ed 2020-10-07T17

ed 2020-09-21T11

ed 2020-09-30T10

ed 2020-10-07T18

ed 2020-09-22T17

ed 2020-09-22T17

ed 2020-09-28T19

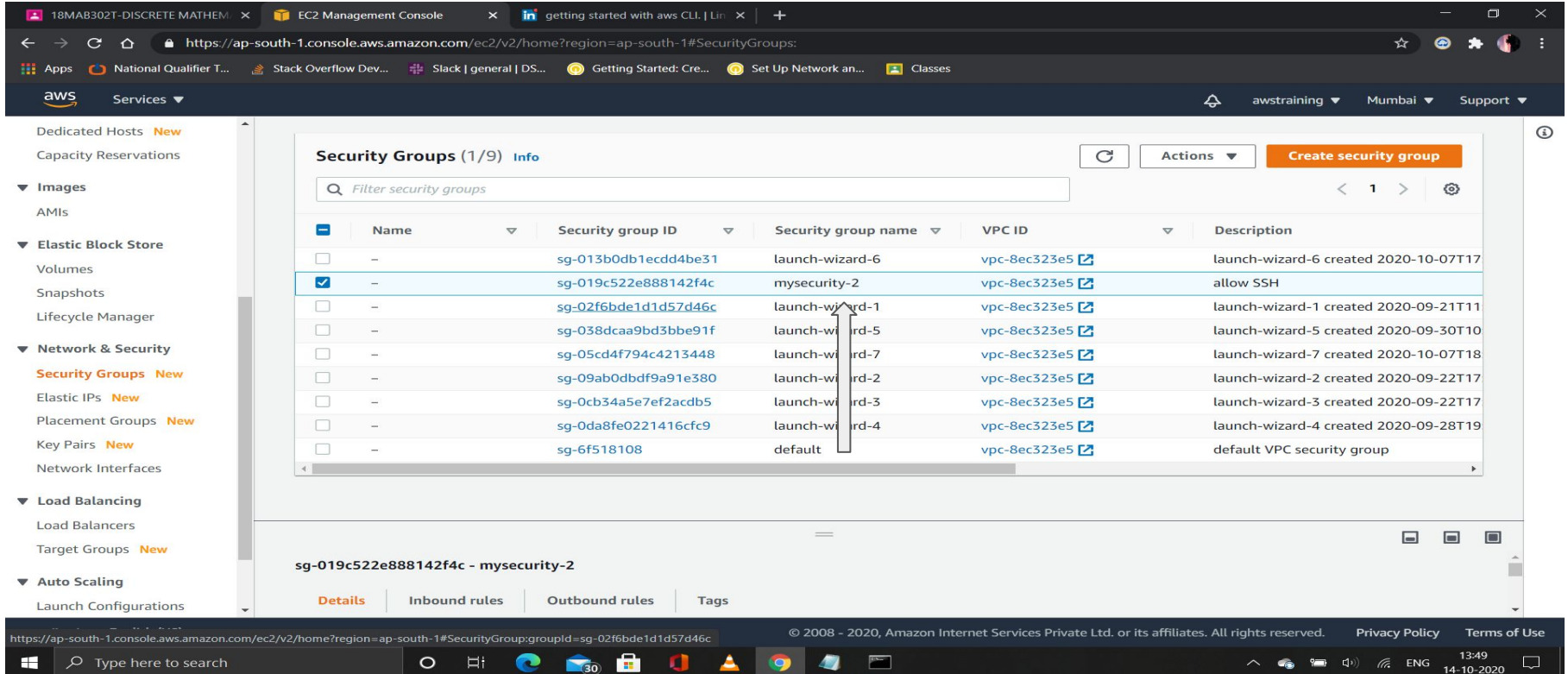
group

Feedback English (LC: \Users\91998>

Type here to search

ENG 13:49 14-10-2020

HERE THE SECURITY GROUP IS CREATED BY THE NAME **mysecurity-2**.



The screenshot displays the AWS Management Console interface for the 'ap-south-1' region. The left-hand navigation pane shows the 'Network & Security' section expanded, with 'Security Groups' selected. The main content area, titled 'Security Groups (1/9)', contains a table listing existing security groups. The group 'mysecurity-2' is highlighted with a blue selection bar. An arrow points to this row. Below the table, the details for 'sg-019c522e888142f4c - mysecurity-2' are visible, including tabs for 'Details', 'Inbound rules', 'Outbound rules', and 'Tags'.

| | Name | Security group ID | Security group name | VPC ID | Description |
|-------------------------------------|------|----------------------|---------------------|--------------|---------------------------------------|
| <input type="checkbox"/> | - | sg-013b0db1ecdd4be31 | launch-wizard-6 | vpc-8ec323e5 | launch-wizard-6 created 2020-10-07T17 |
| <input checked="" type="checkbox"/> | - | sg-019c522e888142f4c | mysecurity-2 | vpc-8ec323e5 | allow SSH |
| <input type="checkbox"/> | - | sg-02f6bde1d1d57d46c | launch-wizard-1 | vpc-8ec323e5 | launch-wizard-1 created 2020-09-21T11 |
| <input type="checkbox"/> | - | sg-038dcaa9bd3bbe91f | launch-wizard-5 | vpc-8ec323e5 | launch-wizard-5 created 2020-09-30T10 |
| <input type="checkbox"/> | - | sg-05cd4f794c4213448 | launch-wizard-7 | vpc-8ec323e5 | launch-wizard-7 created 2020-10-07T18 |
| <input type="checkbox"/> | - | sg-09ab0dbdf9a91e380 | launch-wizard-2 | vpc-8ec323e5 | launch-wizard-2 created 2020-09-22T17 |
| <input type="checkbox"/> | - | sg-0cb34a5e7ef2acdb5 | launch-wizard-3 | vpc-8ec323e5 | launch-wizard-3 created 2020-09-22T17 |
| <input type="checkbox"/> | - | sg-0da8fe0221416fc9 | launch-wizard-4 | vpc-8ec323e5 | launch-wizard-4 created 2020-09-28T19 |
| <input type="checkbox"/> | - | sg-6f518108 | default | vpc-8ec323e5 | default VPC security group |


Now we are launching the instance with the help of the cli

```
Command Prompt
C:\Users\91998>aws ec2 instances

C:\Users\91998>aws ec2 run-instances --image-id    ami-0e306788ff2473ccb --instance-type
t2.micro    --count 1 --subnet-id    subnet-160d047e --security-group-ids sg-019c522e88
8142f4c --key-name mytask-2

Unknown output type: cls

C:\Users\91998>
```

The image shows a Windows taskbar at the bottom of the screen. It includes a search bar on the left, followed by icons for the Start menu, Task View, File Explorer, Microsoft Edge, Mail, Photos, and a notification area on the right with icons for network, volume, and battery.

New instance is launched in the ap-south-1a AZ. And the instance state is running

The screenshot displays the AWS Management Console for the ap-south-1 region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area shows the 'Instances (1)' page with a table of running instances. A large white arrow points to the 'Running' status of the instance.

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm Status | Availability zone | Public IPv4 |
|--------------------------|------|---------------------|----------------|---------------|--------------|--------------|-------------------|-------------|
| <input type="checkbox"/> | - | i-00abef3f0b7942be9 | Running | t2.micro | Initializing | No alarms + | ap-south-1a | ec2-65-0-13 |

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Now the instance is launched and we need to create the volume to attach to the instance launched just now.

The screenshot shows the AWS Management Console interface for the 'Volumes' section in the 'ap-south-1' region. The console displays a table of volumes with the following columns: Name, Volume ID, Size, Volume Type, IOPS, Snapshot, Created, Availability Zone, State, and Alarm Status. A single volume is listed with the ID 'vol-00db582...', size '8 GiB', type 'gp2', and state 'in-use'. The left sidebar contains navigation links for various AWS services, including 'Images', 'Elastic Block Store', and 'Network & Security'. The bottom of the screen shows the Windows taskbar with the search bar and system tray.

| Name | Volume ID | Size | Volume Type | IOPS | Snapshot | Created | Availability Zone | State | Alarm Status |
|------|----------------|-------|-------------|------|-----------------|------------------------|-------------------|--------|--------------|
| | vol-00db582... | 8 GiB | gp2 | 100 | snap-027b63b... | October 14, 2020 at... | ap-south-1a | in-use | None |

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```
--image-id ami-0e306788ff2473ccb --instance-type t2.micro --count 1 --subnet-id subnet-160d047e --security-group-ids sg-019c522e888142f4c --key-name mytask-2
```



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


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```
C:\Users\aniket>aws ec2 create-volume --size 1 --volume-type gp2 --availability-zone ap-south-1a {
  "AvailabilityZone": "ap-south-1a",
  "CreateTime": "2020-10-14T14:48:27+05:30"
}
```

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--image-id ami-0e306788ff2473ccb --instance-type t2.micro --count 1 --subnet-id subnet-160d047e --security-group-ids sg-019c522e888142f4c --key-name mytask-2

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Command Prompt

```
C:\Users\91998>awa ec2 create-volume --availability-zone ap-south-1a --volume-type  
e gp2 --size 1  
'awa' is not recognized as an internal or external command,  
operable program or batch file.
```

```
C:\Users\91998>aws ec2 create-volume --availability-zone ap-south-1a --volume-ty  
pe gp2 --size 1
```

Unknown output type: cls

```
C:\Users\91998>
```

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Right then the volume is created with the 1 gb and the volume type of gp2.

The screenshot displays the AWS Management Console's Volumes page. The table below lists the volumes:

| Name | Volume ID | Size | Volume Type | IOPS | Snapshot | Created | Availability Zone | State | Alarm Status |
|------|-----------------------|-------|-------------|------|-----------------|------------------------|-------------------|-----------|--------------|
| | vol-074368255863ff36a | 1 GiB | gp2 | 100 | | October 14, 2020 at... | ap-south-1a | available | None |
| | vol-00db582... | 1 GB | gp2 | 100 | snap-027b63b... | October 14, 2020 at... | ap-south-1a | in-use | None |

A white arrow points to the '1 GiB' size of the first volume. The left sidebar shows navigation options like Instance types, Images, Elastic Block Store, and Network & Security. The bottom of the console shows the volume ID and tabs for Description, Status Checks, Monitoring, and Tags.

Now we the volume is created and then we need to attach the volume to the instance.

The screenshot displays the AWS Management Console for the 'Instances' page in the 'ap-south-1' region. The console shows a single EC2 instance named 'i-00abef3f0b7942be9' in the 'Running' state, using the 't2.micro' instance type. The instance is located in the 'ap-south-1a' availability zone. The console also shows the root device details and a list of block devices, including a data volume 'vol-00db58254f6ef9967' that is attached to the instance.

Instances (1/1) Info

Filter instances

| Name | Instance ID | Instance state | Instance type | Status check | Alarm Status | Availability zone | Public IPv4 |
|------|---------------------|----------------|---------------|----------------|--------------|-------------------|-------------|
| - | i-00abef3f0b7942be9 | Running | t2.micro | 2/2 checks ... | No alarms | ap-south-1a | ec2-65-0-13 |

Root device details

| Root device name | Root device type | EBS optimization |
|------------------|------------------|------------------|
| /dev/xvda | EBS | disabled |

Block devices (1)

Filter block devices

| Volume ID | Device name | Volume size (GiB) | Attachment status | Attachment time | Encrypted | KMS key ID |
|-----------------------|-------------|-------------------|-------------------|------------------------------|-----------|------------|
| vol-00db58254f6ef9967 | /dev/xvda | 8 | Attached | Wed Oct 14 2020 14:12:29 ... | No | - |

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▼ Images
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▼ Elastic Block Store
Volumes
Snapshots

Feedback English (U...

Command Prompt

```
C:\Users\91998>aws ec2 attach-volume --device /dev/sdf --instance-id i-00abef3f0b7942be9 --volume-id vol-074368255863ff36a
```

Unknown output type: cls

C:\Users\91998>

KMS key ID

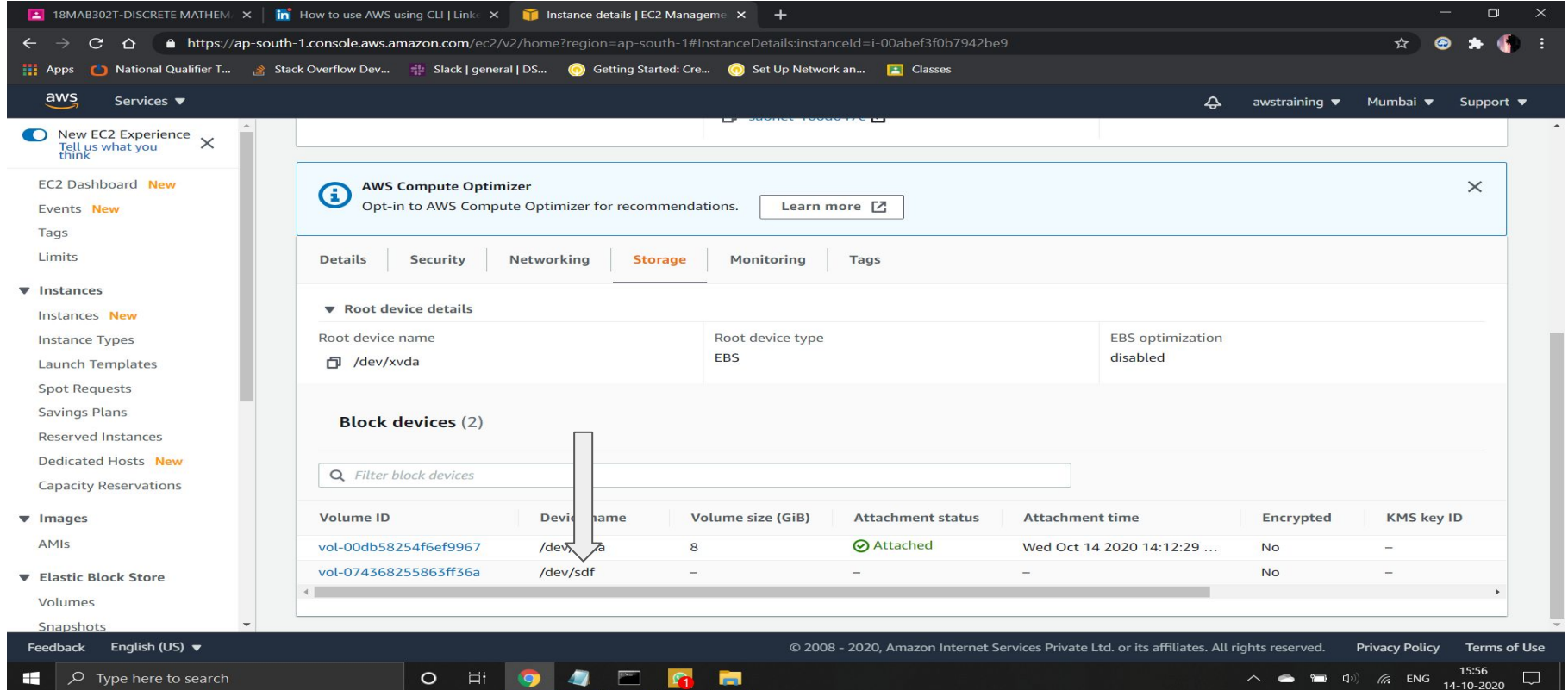
—

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The volume is attached to the instance .



The screenshot displays the AWS Management Console interface for an EC2 instance. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area shows the 'Storage' tab under the 'Root device details' section. A white arrow points to the 'Attached' status of the root volume.

AWS Compute Optimizer
Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

Storage

Root device details

| Volume ID | Device name | Volume size (GiB) | Attachment status | Attachment time | Encrypted | KMS key ID |
|-----------------------|-------------|-------------------|-------------------|------------------------------|-----------|------------|
| vol-00db58254f6ef9967 | /dev/xvda | 8 | Attached | Wed Oct 14 2020 14:12:29 ... | No | — |
| vol-074368255863ff36a | /dev/sdf | — | — | — | No | — |

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CREATING AN INSTANCE:

```
--image-id ami-0e306788ff2473ccb --instance-type t2.micro --count 1 --subnet-id subnet-160d047e --security-group-ids sg-019c522e888142f4c --key-name mytask-2
```

CREATING A VOLUME :

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

ATTACHING THE VOLUME:

```
attach-volume --device /dev/sdf --instance-id i-00abef3f0b7942be9 --volume-id vol-074368255863ff36a
```



THANK YOU...