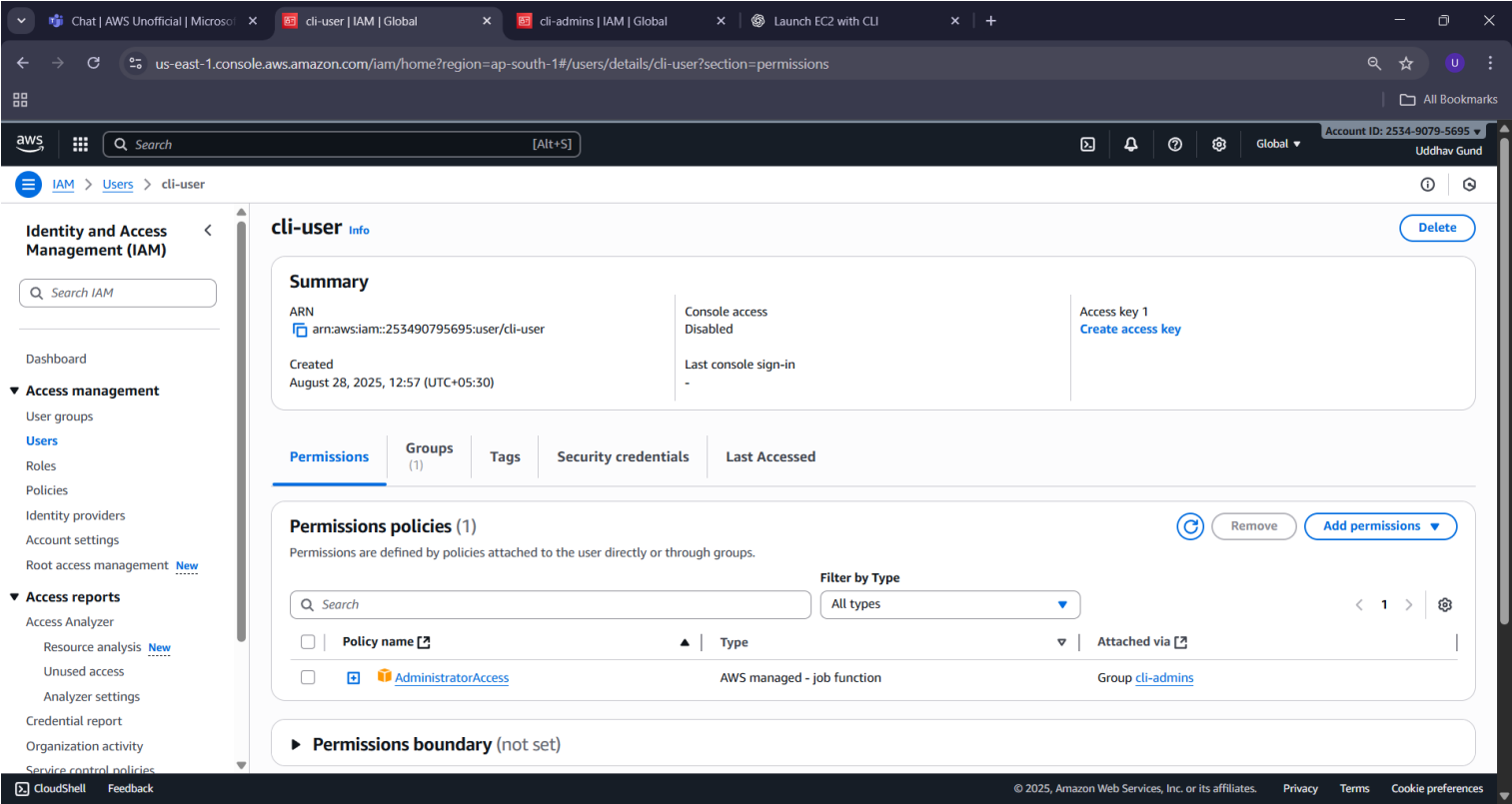


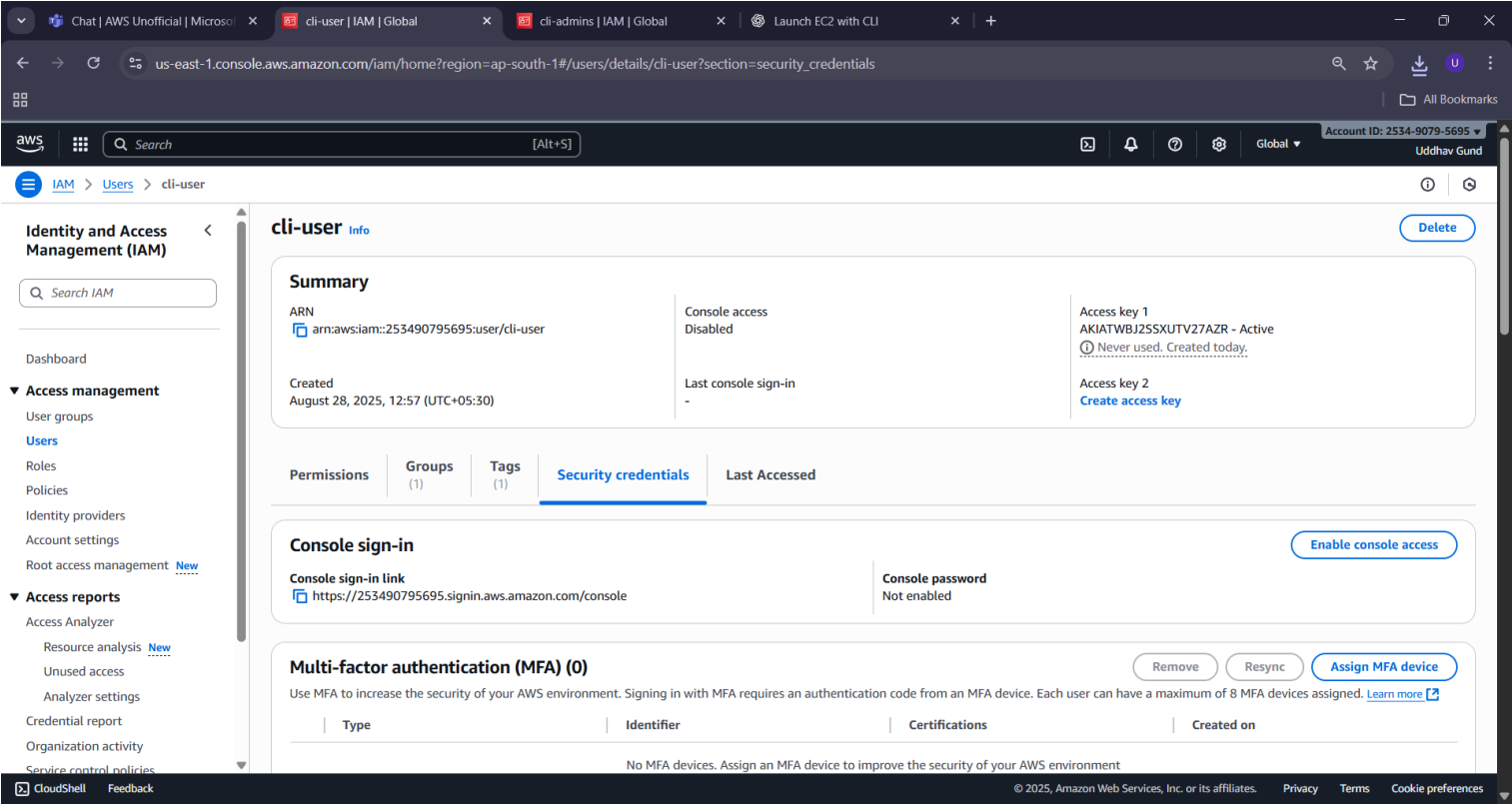
**STEP 1:**

(Root has full, unsafe access — So I use IAM users are safer for daily tasks.)

An IAM user named cli-user was created with programmatic access enabled. The user was added to the cli-admins group, which has AdministratorAccess.



Security credentials were generated for CLI authentication.



## STEP 2: AWS CLI Configuration

C:\Users\Lenovo>aws --version

aws-cli/2.21.2 Python/3.12.6 Windows/11 exe/AMD64

C:\Users\Lenovo>aws configure

AWS Access Key ID [\*\*\*\*\*]: AKIATWBJ2SSXUTV27AZR

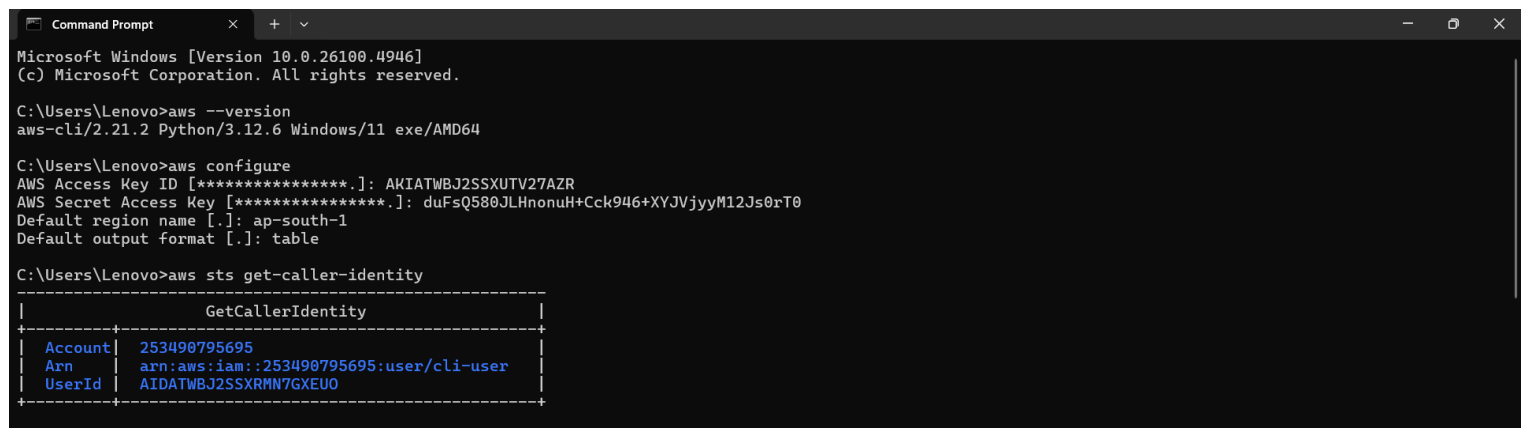
AWS Secret Access Key [\*\*\*\*\*]: duFsQ580JLHnonuH+Cck946+XYJVjyyM12Js0rT0

Default region name [.]: ap-south-1

Default output format [.]: table

C:\Users\Lenovo>aws sts get-caller-identity

```
-----
|           GetCallerIdentity           |
+-----+
| Account| 253490795695                    |
| Arn    | arn:aws:iam::253490795695:user/cli-user |
| UserId | AIDATWBJ2SSXRMN7GXEUO                |
+-----+
```



```
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Lenovo>aws --version
aws-cli/2.21.2 Python/3.12.6 Windows/11 exe/AMD64

C:\Users\Lenovo>aws configure
AWS Access Key ID [*****]: AKIATWBJ2SSXUTV27AZR
AWS Secret Access Key [*****]: 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
Default region name [.]: ap-south-1
Default output format [.]: table

C:\Users\Lenovo>aws sts get-caller-identity
-----
|           GetCallerIdentity           |
+-----+
| Account| 253490795695                    |
| Arn    | arn:aws:iam::253490795695:user/cli-user |
| UserId | AIDATWBJ2SSXRMN7GXEUO                |
+-----+
```

## STEP 3: EC2 Launch Process

Steps executed via AWS CLI:

- Created a key pair (cli-ec2-key) for SSH access.
- Created a security group (cli-sg) with SSH access allowed.
- Retrieved the latest Amazon Linux 2 AMI ID.
- Launched a t2.micro EC2 instance with tag Name=cli-ec2-demo.
- Verify Instance

### **a. Create Key Pair**

Command:

```
aws ec2 create-key-pair --key-name cli-ec2-key --key-type rsa --key-format pem --query "KeyMaterial" --output text > cli-ec2-key.pem
```

```
C:\Users\Lenovo>aws ec2 create-key-pair --key-name cli-ec2-key --key-type rsa --key-format pem --query "KeyMaterial" --output text > cli-ec2-key.pem
```

### **b. Create Security Group**

Command:

```
aws ec2 describe-vpcs --filters Name=isDefault,Values=true --region ap-south-1 --query "Vpcs[0].VpcId" --output text
Output: vpc-07c13630d129a6873
```

```
aws ec2 create-security-group --group-name cli-sg --description "Allow SSH from my IP" --vpc-id vpc-07c13630d129a6873 --region ap-south-1 --query "GroupId" --output text
```

Output: sg-099e174de5e16db21

c. Get Latest Amazon Linux 2023 AMI

Command:

```
aws ssm get-parameters --names /aws/service/ami-amazon-linux-latest/al2023-ami-kernel-6.1-x86_64 --region ap-south-1 --query "Parameters[0].Value" --output text
```

Output: ami-0861f4e788f5069dd

d. Launch EC2 Instance

Command:

```
aws ec2 run-instances --image-id ami-0861f4e788f5069dd --instance-type t2.micro --key-name cli-ec2-key --security-group-ids sg-099e174de5e16db21 --region ap-south-1 --tag-specifications ResourceType=instance,Tags=[{Key=Name,Value=cli-ec2-demo}] --query "Instances[0].InstanceId" --output text
```

Output:

i-0a36793136d80ca74

e. Verify Instance

Command:

```
aws ec2 describe-instances --instance-ids i-0a36793136d80ca74 --region ap-south-1 --query "Reservations[0].Instances[0].{InstanceId:InstanceId,State:State.Name,PublicIP:PublicIpAddress,PublicDNS:PublicDnsName}" --output table
```

Output:

DescribeInstances	
InstanceId	i-0a36793136d80ca74
PublicDNS	ec2-43-205-138-194.ap-south-1.compute.amazonaws.com
PublicIP	43.205.138.194
State	running

```
C:\Users\Lenovo>aws ec2 describe-vpcs --filters Name=isDefault,Values=true --region ap-south-1 --query "Vpcs[0].VpcId" --output text
vpc-07c13630d129a6873

C:\Users\Lenovo>aws ec2 create-security-group --group-name cli-sg --description "Allow SSH from my IP" --vpc-id vpc-07c13630d129a6873 --region ap-south-1 --query "GroupId" --output text
sg-099e174de5e16db21

C:\Users\Lenovo>aws ssm get-parameters --names /aws/service/ami-amazon-linux-latest/al2023-ami-kernel-6.1-x86_64 --region ap-south-1 --query "Parameters[0].Value" --output text
ami-0861f4e788f5069dd

C:\Users\Lenovo>aws ec2 run-instances --image-id ami-0861f4e788f5069dd --instance-type t2.micro --key-name cli-ec2-key --security-group-ids sg-099e174de5e16db21 --region ap-south-1 --tag-specifications ResourceType=instance,Tags=[{Key=Name,Value=cli-ec2-demo}] --query "Instances[0].InstanceId" --output text
i-0a36793136d80ca74

C:\Users\Lenovo>aws ec2 describe-instances --instance-ids i-0a36793136d80ca74 --region ap-south-1 --query "Reservations[0].Instances[0].{InstanceId:InstanceId,State:State.Name,PublicIP:PublicIpAddress,PublicDNS:PublicDnsName}" --output table
-----
|                               DescribeInstances                               |
+-----+-----+-----+-----+
| InstanceId | i-0a36793136d80ca74 |
| PublicDNS  | ec2-43-205-138-194.ap-south-1.compute.amazonaws.com |
| PublicIP   | 43.205.138.194      |
| State      | running              |
+-----+-----+-----+-----+

C:\Users\Lenovo>
```

STEP4. EC2 CONSOLE VERIFICATION

The EC2 instance **cli-ec2-demo** is successfully running in the **ap-south-1a** Availability Zone, as seen in the AWS Management Console

Chat | AWS Unofficial | Microso... | OneDrive | Users | IAM | Global | Instances | EC2 | ap-south-1 | AdministratorAccess | IAM | Gl...

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:v=3,\$case=tags:true%5C,client:false,\$regex=tags:false%5C,client:false

aws Search [Alt+S]

Asia Pacific (Mumbai) Account ID: 2534-9079-5695 Uddhav Gund

EC2 > Instances

EC2

Dashboard

EC2 Global View

Events

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes

Instances (1/1) Info

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input checked="" type="checkbox"/>	cli-ec2-demo	i-0a36793136d80ca74	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	ec2-43-205

i-0a36793136d80ca74 (cli-ec2-demo)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary

CloudShell Feedback

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