CODE IQ HUB

AWS Cloud Services :

Day – 4 :

AWS CLI & Management Console Basics Install

Configure AWS CLI

Hands-on: Launch EC2 instance via CLI

AWS CLI & Management Console Basics :

1. AWS Management Console (Quick Overview) :

- The **AWS Management Console** is a web-based interface to access AWS services.
- It provides dashboards, wizards, and configuration options for resources.
- Best for: Beginners, one-time setups, visual monitoring.

Common Use Cases:

- Creating and managing resources quickly.
- Viewing service dashboards and metrics.
- Configuring IAM users and security settings.

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2. Install AWS CLI :

Youtube Video Link : https://youtu.be/Bc-k_xke6qs?si=aEPbDg-NDVxG1BKT

Reference Link : https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html

On Windows :

```
powershell

msiexec.exe /i https://awscli.amazonaws.com/AWSCLIV2.msi
```

Verify installation:

```
bash

aws --version
```

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3. Configure AWS CLI :

Run:

```
bash

aws configure
```

You'll be prompted for:

- **AWS Access Key ID**
- **AWS Secret Access Key**

- **Default region name** (example: ap-south-1)
- **Default output format** (json, table, or text

To confirm settings:

```bash
cat ~/.aws/credentials
cat ~/.aws/config
```

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4. Hands-on:

Youtube video link :

Hands-On Lab: How to Create an Amazon EC2 Instance using AWS Management Console & AWS CLI

https://youtu.be/THQBkLSREbs?si=CYsu_5mODzFM7lz3

Reference Link :

Launch an EC2 Instance via AWS Management Console:

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2GetStarted.html#ec2-launch-instance

Launch an EC2 Instance via AWS CLI:

https://docs.aws.amazon.com/cli/latest/userguide/cli-services-ec2-instances.html#launching-instances

Launch EC2 Instance via CLI :

Step 1: Create a Key Pair (for SSH access) :

bash

```
aws ec2 create-key-pair --key-name MyKeyPair --query "KeyMaterial" --output text > MyKeyPair.pem
chmod 400 MyKeyPair.pem
```

Step 2: Create a Security Group :

bash

```
aws ec2 create-security-group --group-name MySecGroup --description "My security group"
```

Step 3: Allow SSH Access :

bash

```
aws ec2 authorize-security-group-ingress \
    --group-name MySecGroup \
    --protocol tcp --port 22 --cidr 0.0.0.0/0
```

Step 4: Launch the EC2 Instance :

bash

```
aws ec2 run-instances \
    --image-id ami-0c02fb55956c7d316 \
    --count 1 \
    --instance-type t2.micro \
    --key-name MyKeyPair \
    --security-groups MySecGroup
```

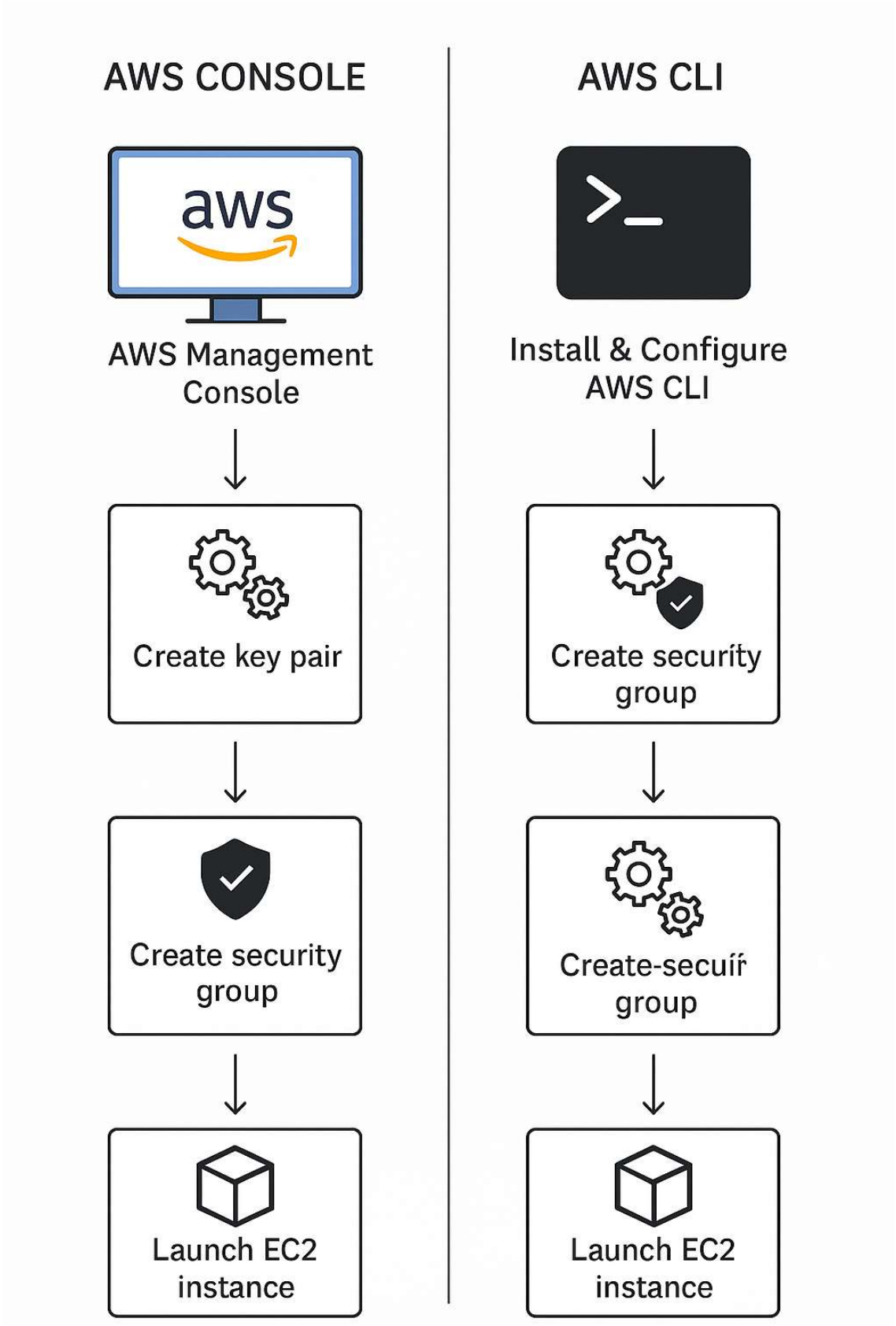
- --image-id: The AMI ID. The above is for Amazon Linux 2 in ap-south-1.
- --instance-type: Free-tier eligible (t2.micro).

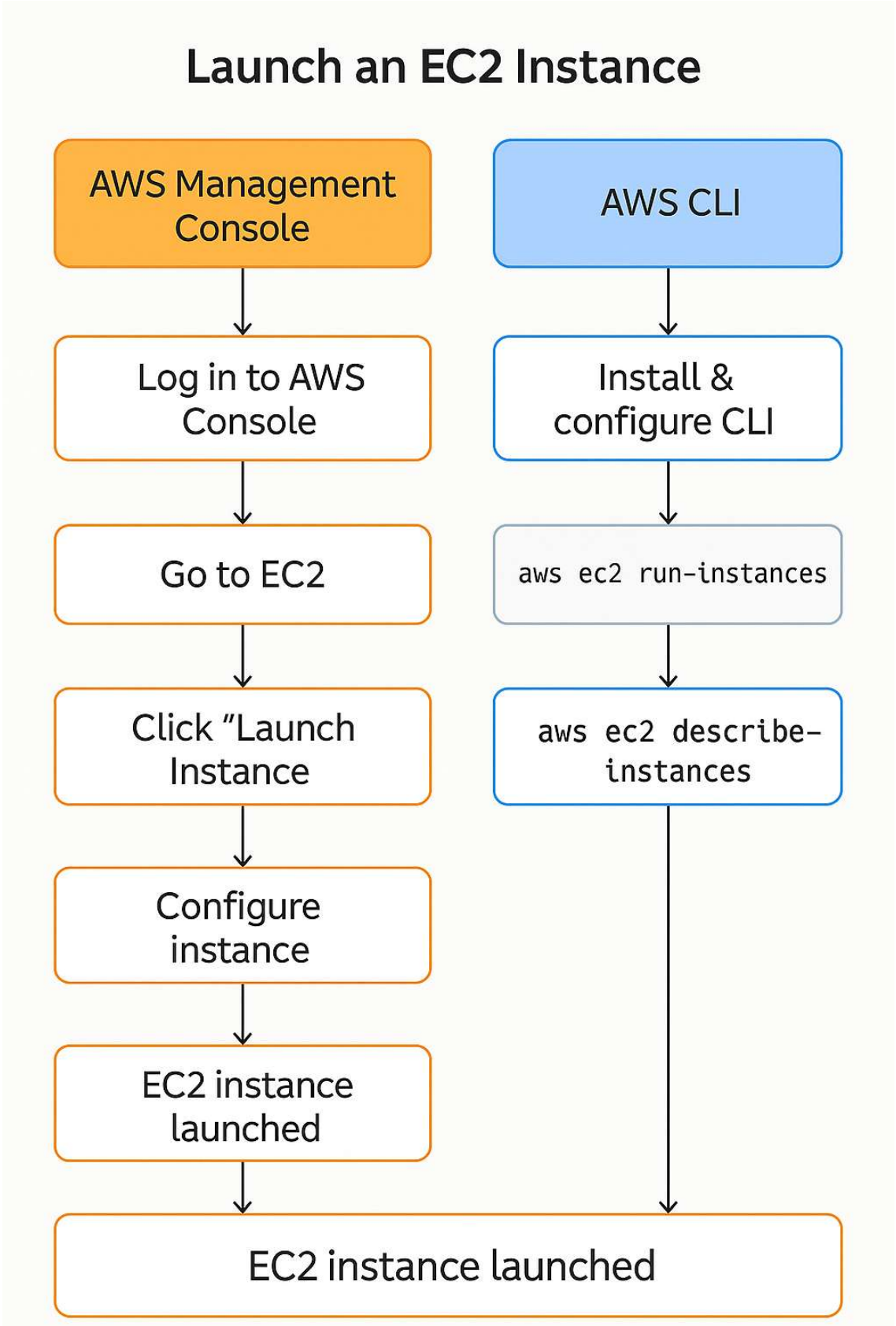
Step 5: Get Your Instance Public IP :

```bash
aws ec2 describe-instances \
    --query "Reservations[*].Instances[*].PublicIpAddress" \
    --output text
```

Step 6: Connect via SSH :

```bash
ssh -i MyKeyPair.pem ec2-user@<Public-IP>
```


AWS CONSOLE
AWS Management Console
Create key pair
Create security group
Launch EC2 instance
AWS CLI
Install & Configure AWS CLI
Create security group
Create-secuíŕ group
Launch EC2 instance


Launch an EC2 Instance
AWS Management Console
Log in to AWS Console
Go to EC2
Click "Launch Instance
Configure instance
EC2 instance launched
AWS CLI
Install & configure CLI
aws ec2 run-instances
aws ec2 describe-instances
EC2 instance launched