# **Create an AWS**

* **Go to AWS Signup Page**
* Visit [AWS Signup Page](https://aws.amazon.com/) and click **Sign Up**.
* **Enter Account Information**
* Provide your email address.
* Choose a strong password.
* Enter your AWS account name.
* **Provide Contact Details**
* Select **Personal** or **Business** account type.
* Enter your name, phone number, and address.
* **Enter Payment Information**
* Add a valid credit or debit card (AWS requires this for identity verification, even for the free tier).

1. **Verify Your Identity**

* Enter the OTP received via SMS or phone call.
* **Choose a Support Plan**
* Select **Basic Support (Free)** or a paid support plan.
* **Complete the Signup Process**
* After verification, log in to the **AWS Management Console**.
* AWS may take a few minutes to activate your account.

# **Set up a basic EC2 instance**

To set up a basic EC2 instance on AWS, follow these steps:

* **Step 1: Sign in to AWS Management Console**
* Go to the [AWS Management Console](https://aws.amazon.com/).
* Log in with your AWS account credentials.
* In the **Search Bar**, type **EC2** and select **EC2**.
* **Step 2: Launch a New EC2 Instance**
* Click **Launch Instance**.
* **Enter an instance name** (e.g., MyEC2Instance).
* **Step 3: Choose an Amazon Machine Image (AMI)**
* Select **Amazon Linux 2** or **Ubuntu** (recommended for beginners).
* Ensure it’s **Free Tier Eligible** if using the AWS Free Tier.
* **Step 4: Choose an Instance Type**
* Select **t2.micro** (Free Tier eligible).
* Click **Next: Configure Instance Details** (leave default settings).
* **Step 5: Configure Key Pair for SSH Access**
* Click **Create a new key pair** (or use an existing one).
* Name the key pair and choose **RSA** as the key type.
* Click **Download Key Pair** (store it securely; you will need it to connect via SSH).
* **Step 6: Configure Security Group**
* Create a new security group.
* Add the following inbound rules:
  + **SSH (port 22)** → **Your IP** (for remote access).
  + **HTTP (port 80)** → **Anywhere** (if hosting a web app).
* Click **Review and Launch**.
* **Step 7: Launch the Instance**
* Click **Launch**.
* Select the downloaded key pair and acknowledge.
* Click **Launch Instances** and wait for it to start.
* **Step 8: Connect to Your EC2 Instance**
* Find the instance’s **Public IPv4 Address** under **EC2 Instances**.
* Open a terminal and navigate to the folder where the key pair is stored.
* Run the SSH command to connect:
* ssh -i your-key.pem ec2-user@your-ec2-public-ip
* Replace your-key.pem with your actual key file.
* Replace your-ec2-public-ip with the instance’s public IP. A computer screen with a message

  AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

# **Deploy a sample Python script**

To deploy a sample Python script on your EC2 instance, follow these steps:

**Step 1: Connect to Your EC2 Instance**

1. Open a terminal and navigate to the location where your key pair (your-key.pem) is stored.
2. Connect to your EC2 instance using SSH

ssh -i your-key.pem ec2-user@your-ec2-public-ip

**Step 2: Install Python (if not installed)**

1. Check if Python is installed:

**Step 3: Create a Python Script**

1. Create a new Python script using the nano text editor:
2. .Add the following code to the script

def add\_numbers(a, b):

return a + b

if \_\_name\_\_ == "\_\_main\_\_":

result = add\_numbers(5, 3)

print(f"Sum: {result}")

1. .Save the file

**Step 4: Run the Python Script**

1.Execute the script using Python

python3 add\_numbers.py

2.The output should be:

Sum: 8

**Step 5: Exit and Stop the EC2 Instance**