Ec2+mobaxterm

AWS is a cloud computing platform provided by Amazon. It offers a wide range of services you can access over the internet, like:

Storing data,Running applications, Hosting websites, Setting up virtual servers

Databases, AI tools, security services, etc.

You can rent what you need, use it, and pay for it based on your usage — instead of owning physical servers.

EC2 (Elastic Compute Cloud):

EC2 is one of the most popular services on AWS. It allows you to create virtual servers in the cloud called instances.

Instances = Virtual Machines (VMs) that you can run in the cloud.

What You Wanted to Do:  
You wanted to create a virtual server (EC2 instance) on AWS and securely connect to it using MobaXterm from your local Windows machine. After following steps You are now connected to your own cloud-based Linux server from your Windows machine using secure authentication.

Things You Can Do with Your EC2 Instance:

🖥️ 1. Host a Website

2.Install Any Software(git, python, nodejs)

3.Run Your Own Applications or Projects

What is PuTTY?  
PuTTY is a free and open-source SSH (Secure Shell) and telnet client. It lets you securely connect to remote servers (like your AWS EC2 instance). PuTTYgen is a companion tool used to convert key files (.pem to .ppk).

* PuTTY is a lightweight, free terminal emulator for Windows.
* It allows you to securely connect to remote servers using SSH, Telnet, SCP, etc.
* It comes with tools like PuTTYgen (for key conversion)
* Use it when you want You want a minimal, fast SSH client. You only need terminal access

**Steps:**

Step 1: Log in to AWS Management Console

What you’re doing:  
Accessing your AWS account to use EC2 services.

How:

1. Visit <https://aws.amazon.com/>
2. Click “Sign In” → select “Root user” --🡪Enter your credentials.

Step 2: Launch an EC2 Instance

What you’re doing:  
Creating a virtual machine (Linux or Windows) that will live in the cloud.

How:

1. In the AWS console, search for EC2 in the top search bar and open it.
2. On the EC2 dashboard, click “Launch instance”.

A. Name:

* Name your instance, e.g., “MyFirstEC2”

B. OS Image:

* Choose “Amazon Linux 2”

C. Instance Type:

* Choose t2.micro (free tier eligible)

D. Key Pair (for secure login):

🔐 This is important: You’re generating a secure “private key” that you’ll use later to connect to your EC2.

* Under Key pair name, click “Create new key pair”
  + Name: my-ec2-key
  + Type: RSA
  + Format: .pem
* Download the .pem file and save it safely (we’ll use this in MobaXterm)

E. Network Settings:

* Click “Edit” → Allow SSH (port 22)
* This is so MobaXterm can connect.

F. Leave everything else default → Click “Launch instance”

✅ You’ve now launched a cloud server.

Step 3: Get Your Public IP Address

What you’re doing:  
Getting the “address” of your cloud machine so MobaXterm knows where to connect.

How:

1. In the EC2 dashboard → Instances → Click on your instance
2. Copy the “Public IPv4 address”

Example: 3.90.117.25 (yours will be different)

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Step 4: Connect Using MobaXterm

What you’re doing:  
Using MobaXterm (a terminal tool for Windows) to connect to your cloud machine using SSH (Secure Shell).

Steps:

1. Open MobaXterm
2. Click “Session” → SSH
3. In Remote host: paste your EC2 public IP
4. Username: For Amazon Linux, use ec2-user (for Ubuntu, use ubuntu)
5. Under Advanced SSH settings:
   * Check “Use private key”
   * Browse and select your .pem key file
6. Click OK → It will connect!

🟢 You’re now logged in to your cloud Linux machine.

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step 1: Download MobaXterm

1.  
👉 https://mobaxterm.mobatek.net

1. Click on the green “Download” button.
2. Choose:
   * “Home Edition”
   * Then pick “Installer edition” (recommended) or “Portable edition” if you don’t want to install.

🔹 Step 2: Install MobaXterm (Skip this if using portable version)

1. Open the downloaded installer (e.g., MobaXterm\_installer\_vXX.X.exe)
2. Follow the prompts to install it on your system (default options are fine)

🔹 Step 3: Open MobaXterm  
Once installed:

* Go to your desktop or Start Menu
* Search “MobaXterm”
* Click to open it

✅ Optional: Understand How Authentication Works

* You created a key pair (public + private key).
* AWS keeps the public key inside the EC2 instance.
* You keep the private key (.pem) locally.
* When you try to log in, AWS verifies that your key matches — this is secure and safer than passwords.