Biz Genie 1.0.0 deployment using AWS Marketplace AMI

Introduction

Biz Genie is a modular, LLM-based chatbot solution. It allows customers to query their enterprise data using English sentences instead of traditional database queries. Users can simply type questions—like asking for sales numbers or inventory levels—and the chatbot automatically translates these into SQL queries, fetches the relevant data, and presents the results back to the users in the form of text, charts and tables.

Overview

Biz Genie is designed to make data insights faster and more accessible, especially for users who are not technically proficient. It reduces the need for IT or analyst support, speeds up decision-making, and supports features like session history and context management, so users can ask follow-up questions naturally. The chatbot connects with most leading database platforms, ensuring flexibility and scalability as business needs grow.

Step 1: Sign up for Amazon Web Services (AWS)

At the end of this step, you will have signed up for the **Amazon Web Services free tier**. If you already have an Amazon Web Services account, you may skip this step.

You will need an existing amazon account to log in. To create it, follow these steps:

Step 1.1: Enter an email address, AWS account name and create your password

Open http://aws.amazon.com and click **Create Account** button at the top right.

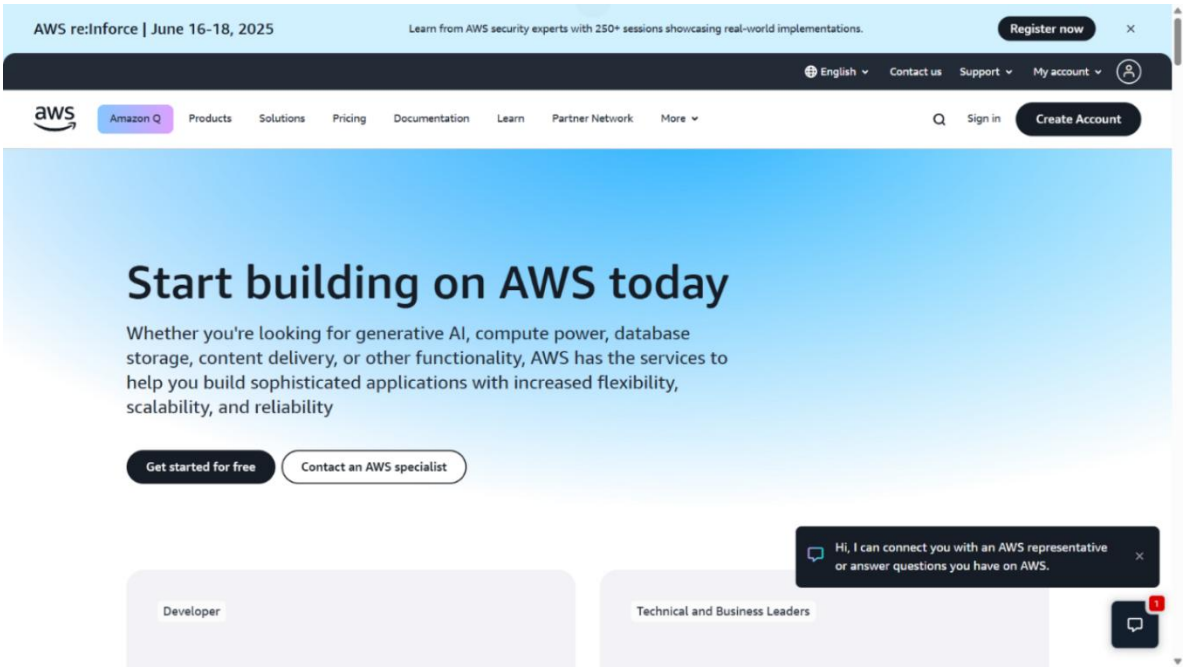

Image 1: AWS homepage with Create Account option

On the **Sign up for AWS** page:

- Enter your **Root user email address** (e.g., yourname@company.com)
- Choose an **AWS account name** (e.g., yourname_account)

Verify your email address

- Click **Verify email address**
- AWS will send a verification code to your provided email address
- Enter the **verification code** received in your email and click **Verify**

Create your password

- Once your email is verified, you will be prompted to create a password
- Enter a secure **Root user password** and **Confirm root user password**
- Click **Continue (step 1 of 5)** to proceed to the next stage of sign-up

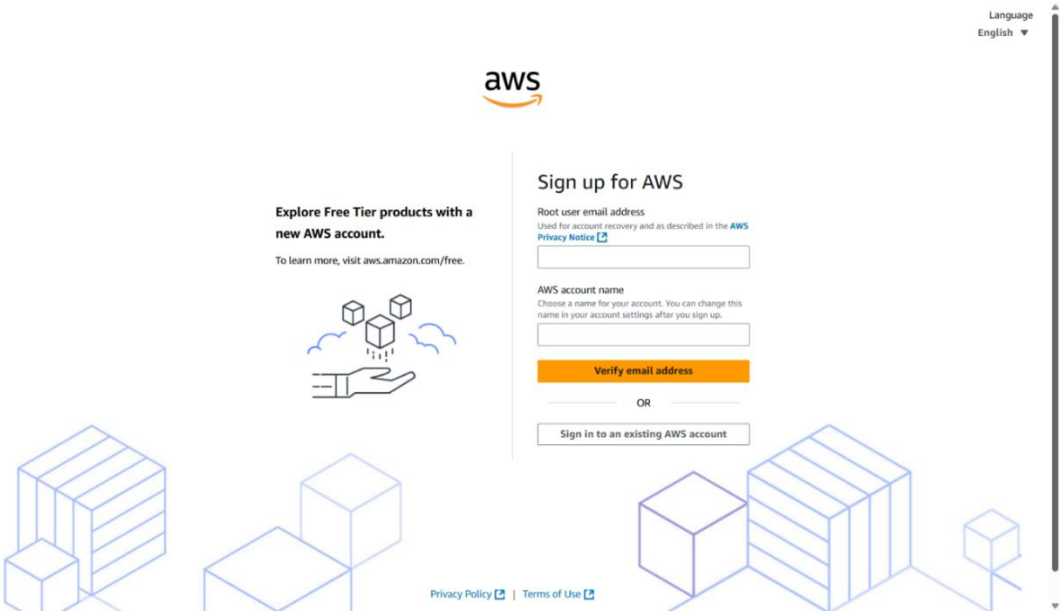

Image 2: Enter email and account name for AWS sign-up

Step 1.2: Contact Information

On the **Contact Information** page, select either **Business** or **Personal**, depending on how you plan to use AWS.

Fill in your name, phone number, address, and other required contact information.

Check the box to agree to the **AWS Customer Agreement.**

Click **Agree and Continue (step 2 of 5)** to go to the Billing Information step.

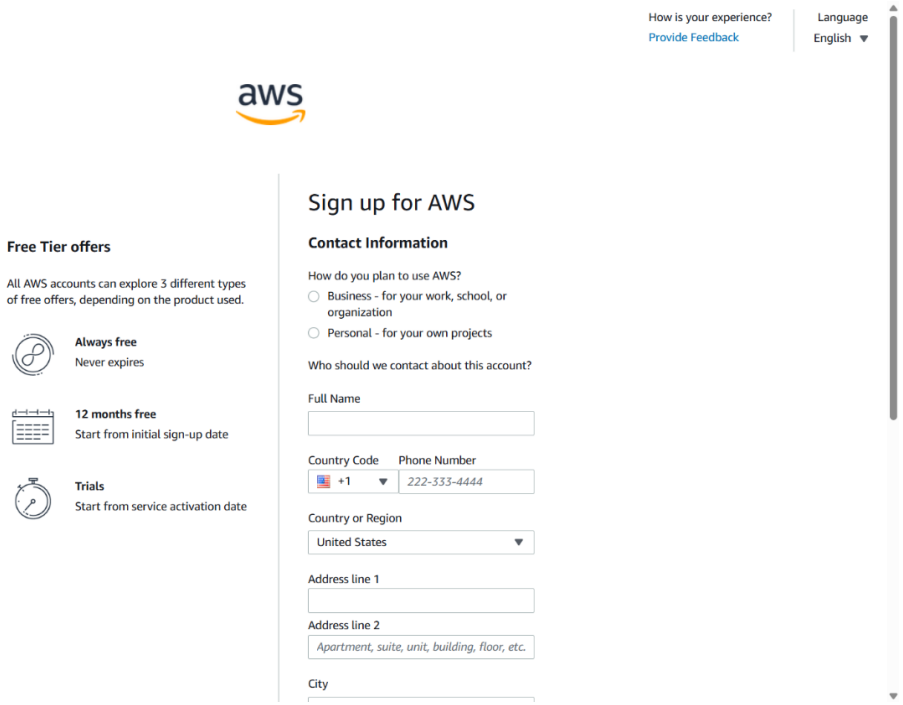

Image 3: Enter AWS contact information

Step 1.3: Billing Information

Enter billing details

- Select your **billing country**
- Enter your **credit or debit card details**
- Fill in your **billing address**

AWS will charge a small, temporary authorization amount (typically **$1 USD** or equivalent, e.g., **₹2 INR**) to verify your card. This charge will be removed within 3–5 business days.

If prompted, complete **OTP verification** or other security checks required by your bank.

After successful payment verification, you will automatically move to the **Confirm your Identity** step.

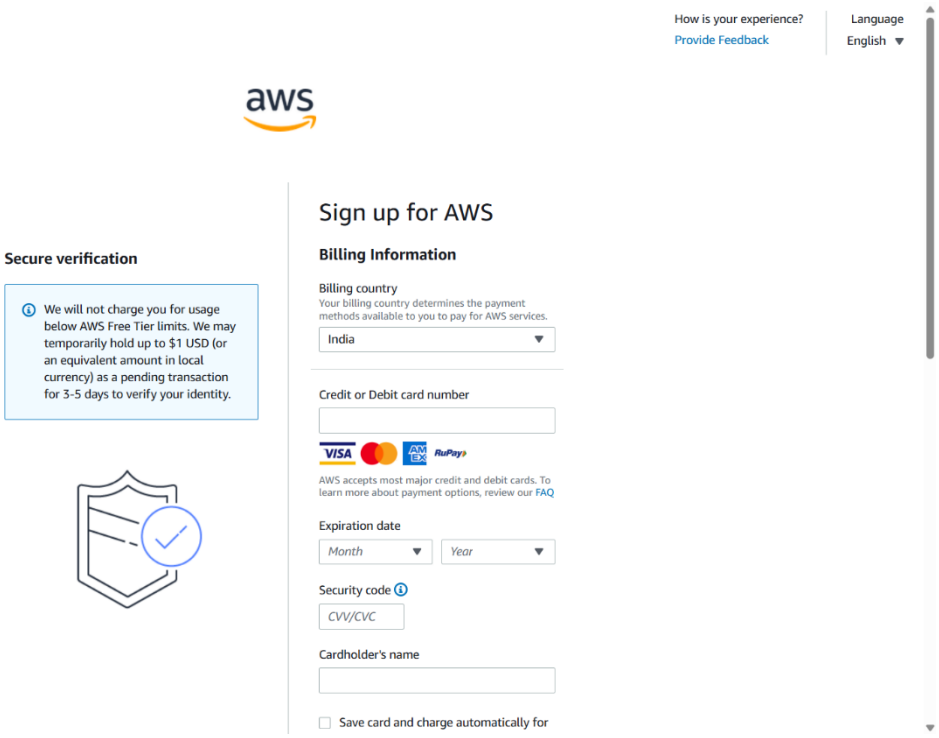

Image 4: Enter AWS billing information

Step 1.4: Confirm your Identity

Fill in identity details

- Select your **Primary purpose of account registration** and **Ownership type**
- Enter the required identity information and upload a valid ID document (e.g., Indian citizens can submit their *PAN card* front image)
- Check the box to allow AWS to verify your identity using the provided information
- Click **Continue (step 4 of 5)**

Phone number verification

- Choose **Text message (SMS)** or **Voice call** for verification
- Confirm your country code and enter your mobile number
- Complete the security CAPTCHA if prompted
- Enter the verification code sent to your phone and click **Continue** to proceed to the next step

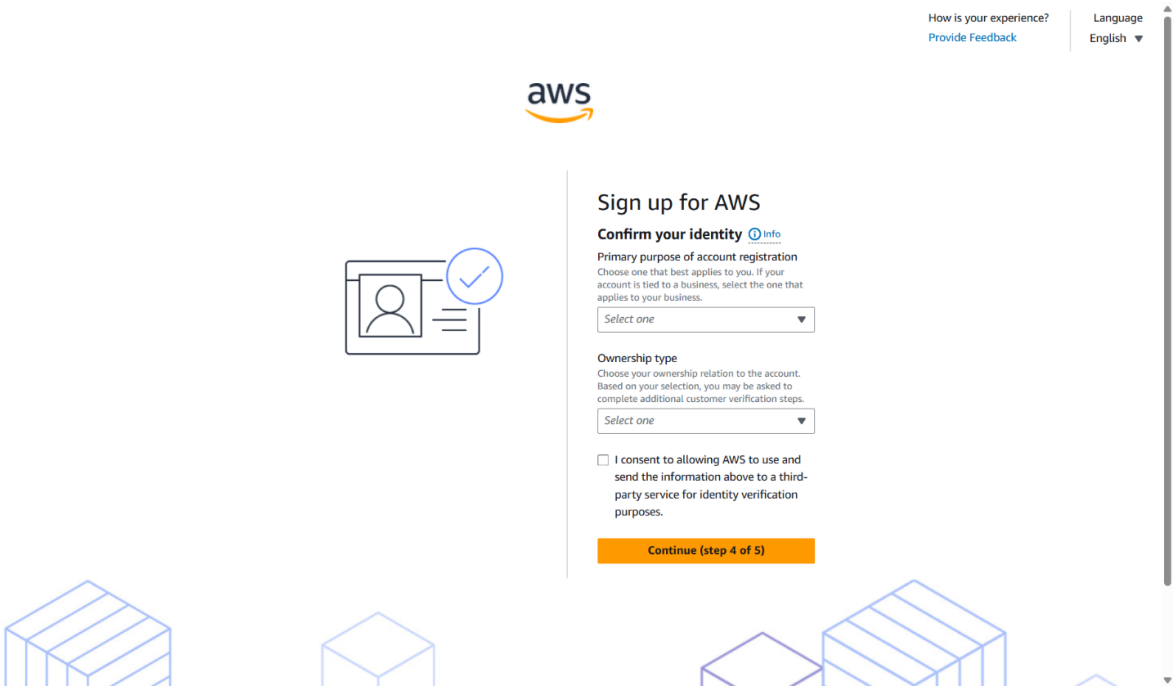

Image 5: Fill identity details for AWS account

Step 1.5: Select a support plan

Once your identity is verified, choose the **Basic support plan** (also free) and Complete sign up.

Note: At this point, make sure that you have subscribed a plan, even if you decide to register for the free tier or Basic support plan.

After a few minutes, you will be redirected to a welcome page, which includes a link to the AWS Management Console. You should also receive an account confirmation email, which tells you that your account is good to go.

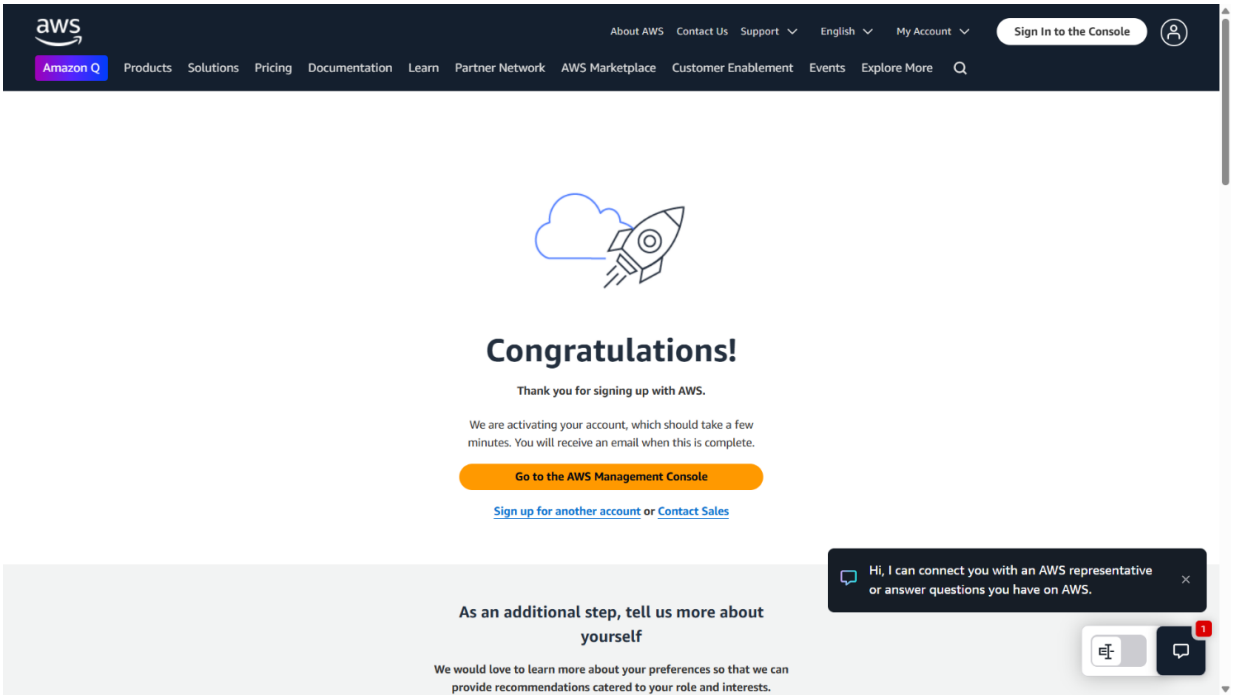

Image 6: AWS account sign-up confirmation

Step 2: Generate an AWS Key Pair

At the end of this step, you will have generated an SSH key pair to access your EC2 instances. If you already have an SSH key pair for the AWS region you are operating in, you can skip this step.

To generate an SSH key pair, which you will need to log in to your EC2 instances, follow these steps:

- **Log in** to the AWS Management Console
- From the AWS menu, **select EC2 Service**
- In the left navigation pane, click **Key Pairs** under *Network & Security*
- Click **Create key pair** at the top right
- Enter a **Key pair name**
- Select the **Key pair type** (Select RSA)
- Choose the **Private key file format** (Select .pem for OpenSSH)
- Click **Create key pair**

You will see a confirmation message and your private key file will be downloaded automatically.

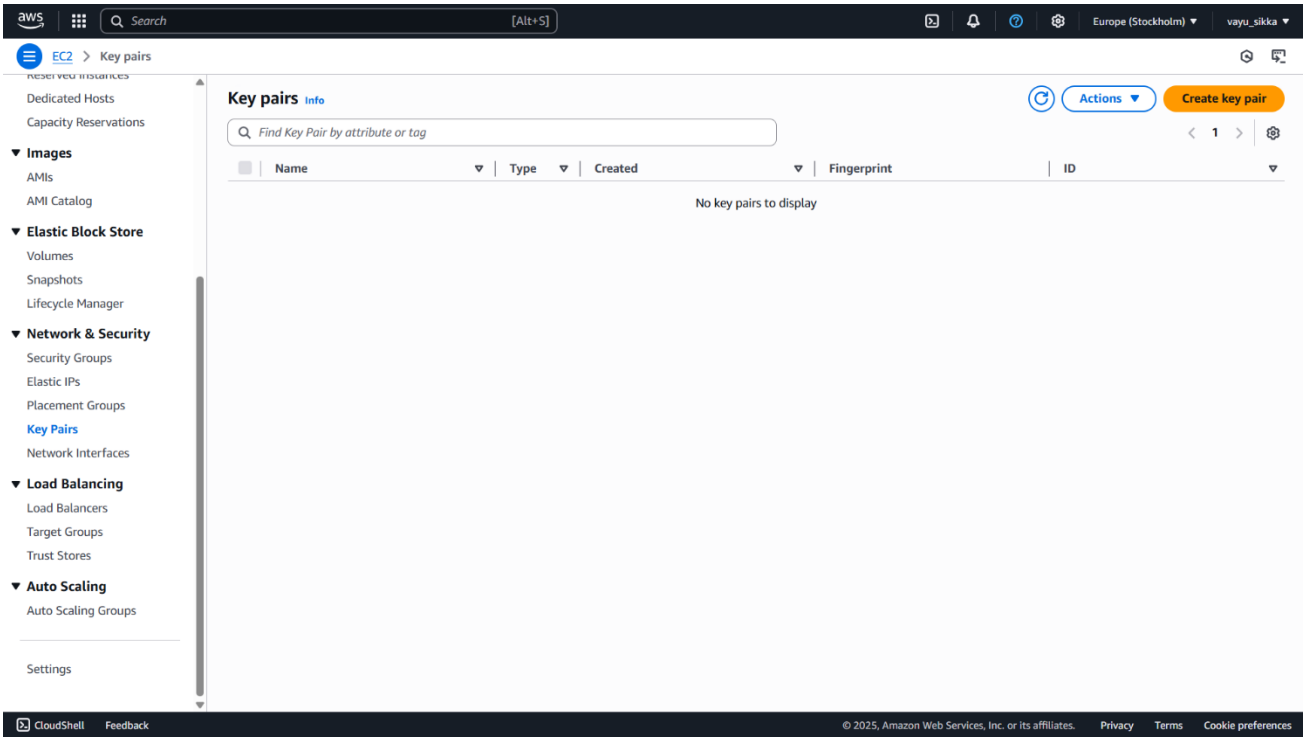

Image 7: EC2 Key Pairs page

Step 3: Create an AWS Security Group

At the end of this step, you will have created an AWS security group for your cloud server.

By default, AWS cloud servers have their ports closed to secure them against external attacks. Since Biz Genie is a web application, it is necessary to open ports 80 for HTTP access, port 22 for SSH access and port 8088 for backend of the application. To do this:

- From the Amazon Web Services menu, select the EC2 service
- From the Amazon EC2 dashboard, select the **Security Groups** option in the **Network & Security** menu
- Click the **Create security group** button on top right

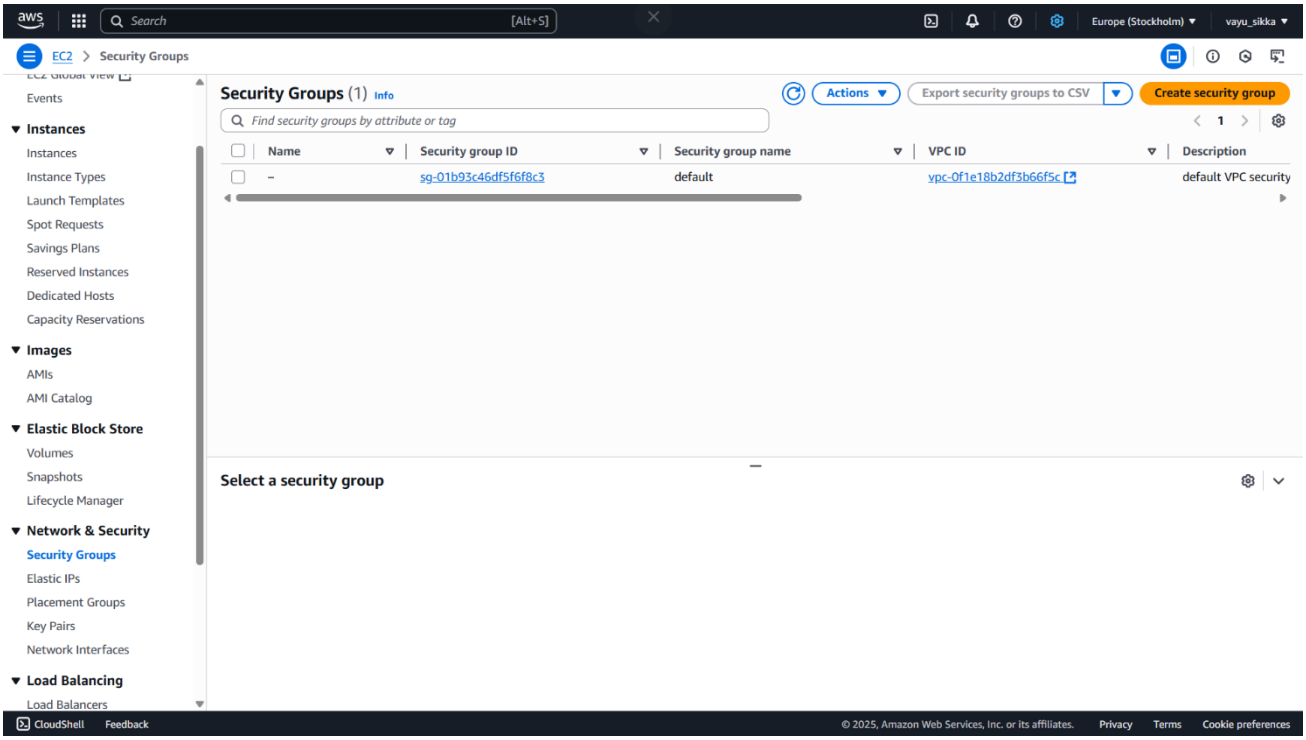

Image 8: EC2 Security Groups page

- In the resulting dialog box, enter a name and description for the new security group
- Click the **Add Rule** button and add rules for HTTP, Custom TCP & SSH
- Configure access to these rules using the following guidelines:
    - Use the pre-defined port range for **HTTP** and **SSH**
    - Provide **8088** as the port range for **Custom TCP**
    - **Source**: Use **Anywhere** to allow access from anywhere or use Custom IP and specify an IP address range

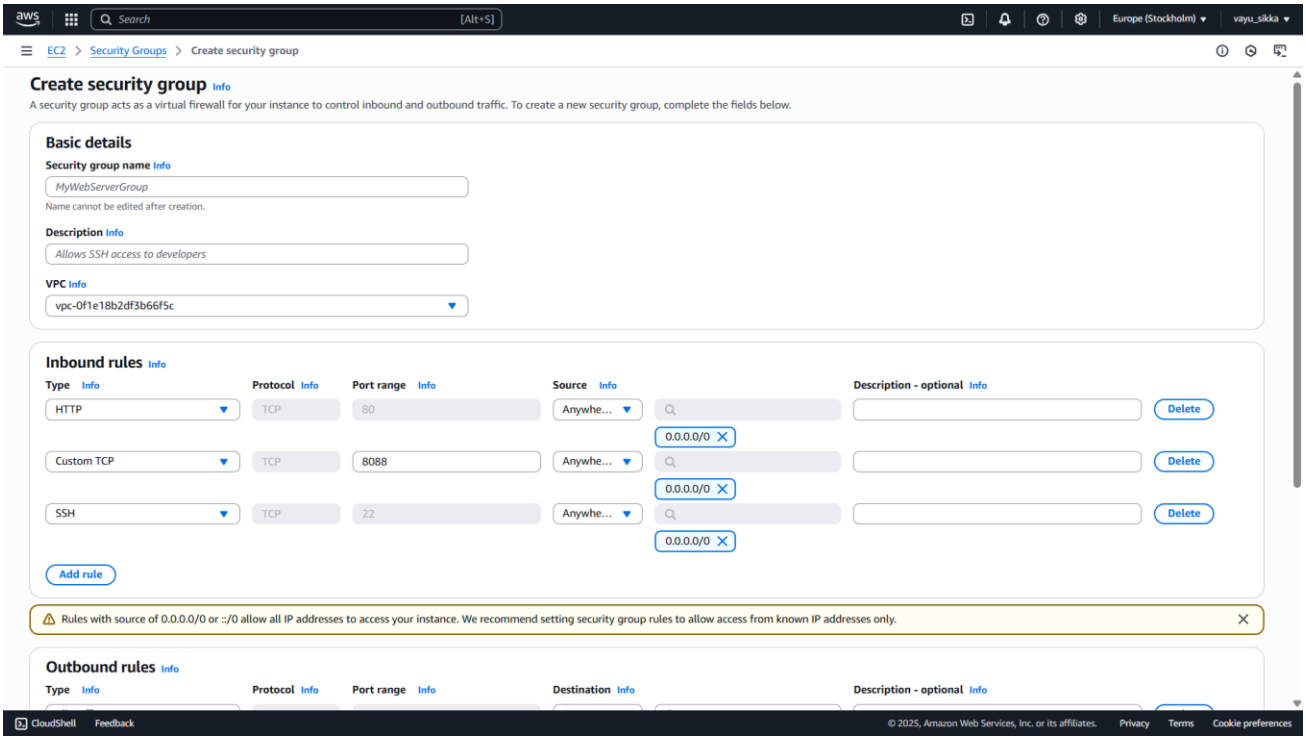

Image 9: Create security group with inbound rules

Click the **Create security group** button to your changes.

Step 4: Deploy Biz Genie on AWS Cloud Server

At the end of this step, your Biz Genie application will be running on an AWS cloud server.

The next step is to launch a cloud server with the Prescience Biz Genie Amazon Machine Image (AMI) running on it. The AWS Management Console lets you do this in just a couple of clicks. Follow these steps:

- From the Amazon Web Services menu, search for AWS Marketplace
- On the Marketplace page search **Biz Genie**
- On the landing page click on **Launch new instance** button
- Select the latest version of Biz Genie released and select the desired region for setting up the EC2 instance
- Give a name to EC2 instance of your choice
- For the key pair (login) from the dropdown list select the previously created pair for this purpose
- Inside the **Network settings** select the **security group** created in **Step 3**
- After reviewing and performing a final check on the settings click on **Launch Instance**

The process usually takes a few minutes, and you can use the EC2 Dashboard to check the status of the server. Once the server has deployed, you will be able to obtain its public IP address or public DNS name from the EC2 Dashboard to access the application. Application can be accessed using http://{PUBLIC_IP} or http://{PUBLIC_DNS_NAME} URLs.

Step 5: Use EC2 Key Pair for SSH Access

Follow these steps for SSH access your launched EC2 instance using PuTTY:

1. Launch **PuTTY**

2. In the **Session** section:
   - **Host Name (or IP address)**: ubuntu@<your-ec2-instance-public-ip>
     (Replace ubuntu with correct user depending on AMI: ec2-user, centos, etc.)
   - **Port**: 22
   - **Connection type**: SSH

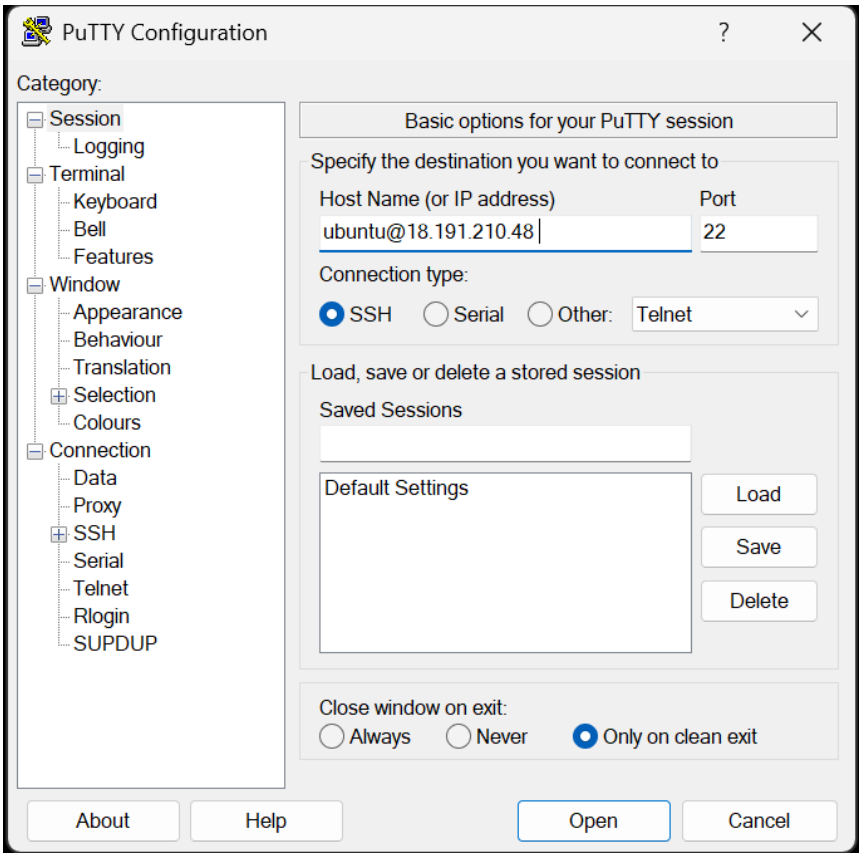

Image 10: Configure PuTTY session with EC2 public IP

3. **Load the .ppk Key**
   - In the **left pane**, go to: Connection → SSH → Auth→ Credentials
   - Click **Browse** next to "Private key file for authentication"
   - Select your .ppk file (e.g., keypair.ppk)

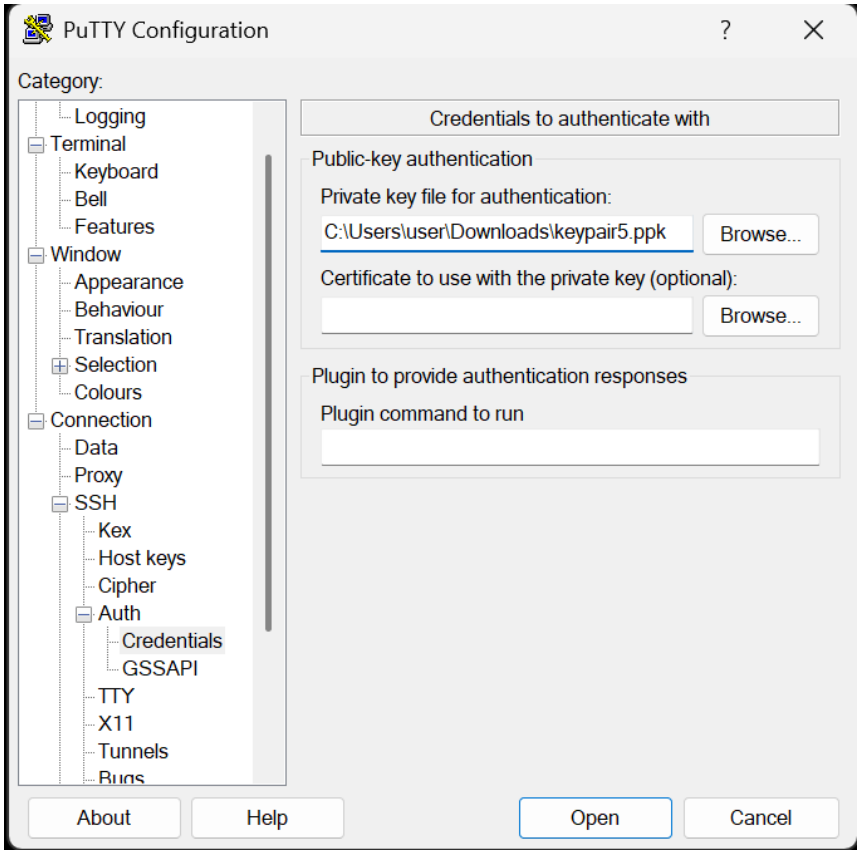

Image 11: Load the EC2 private key (.ppk) in PuTTY for SSH authentication

4. **Connect**
    - Click **Open**
    - **Accept** the connection
    - You should now be logged in to your EC2 instance

Note: This AMI does not use default or static passwords for login. Access is enabled only via EC2 key pair authentication.