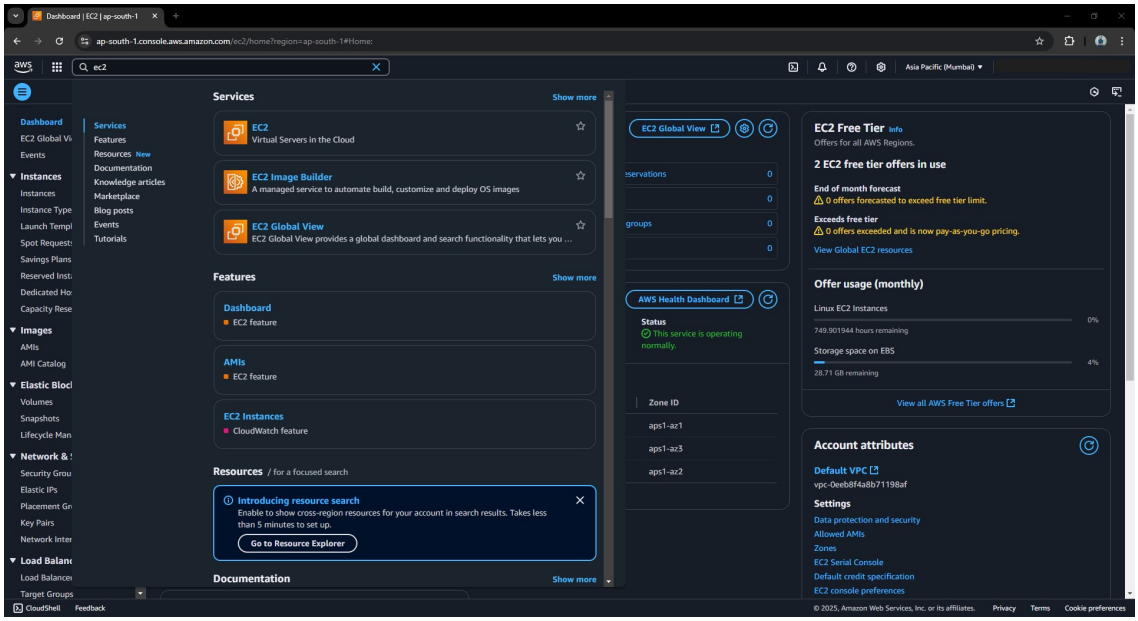
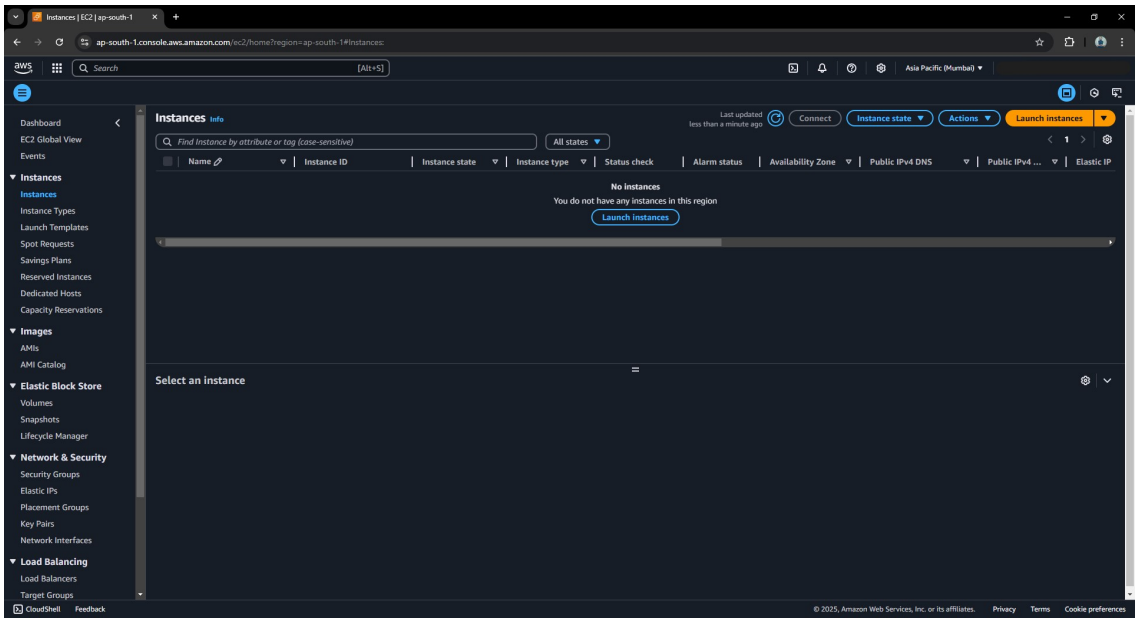
How to launch an EC2 Instance:

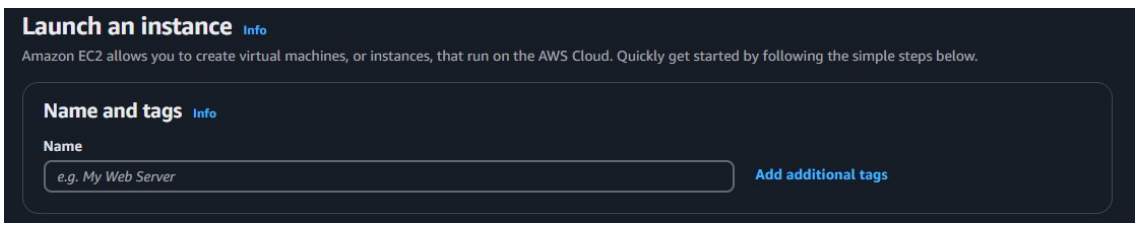
1. **Log in to AWS Management Console**:
   Search for "EC2" in the search bar and select **EC2** from the results



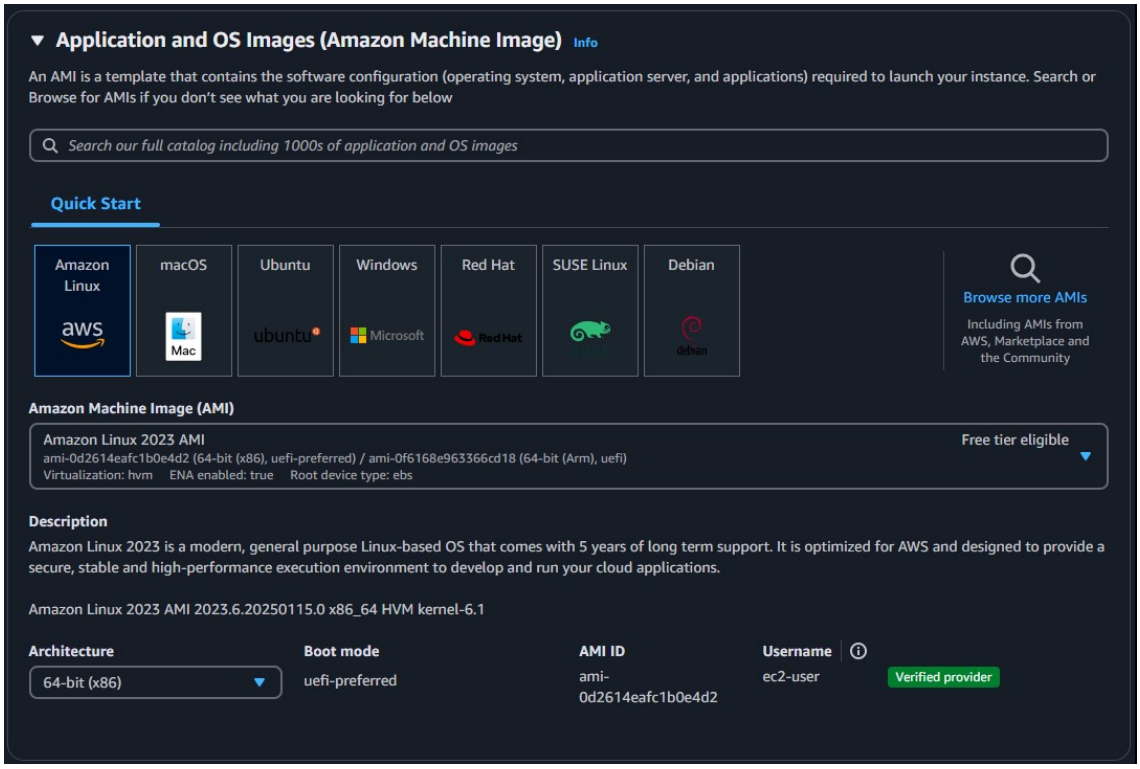
2. **Navigate to Instances**:
   Click on **Instances** from the menu options. To launch an EC2 instance, click on **Launch Instances**.



3. **Enter the Instance Name**:
   Provide a name for your EC2 instance.



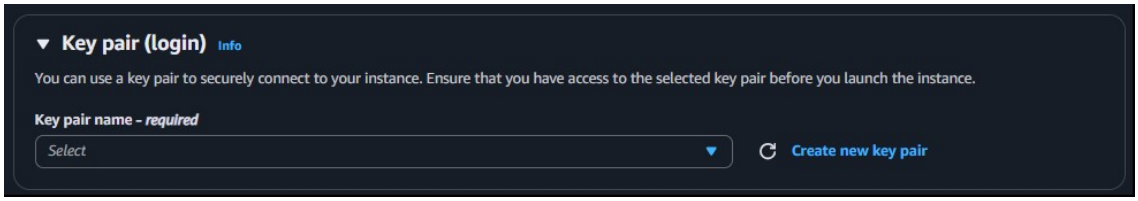
4. **Choose an AMI (Amazon Machine Image)**:
   Select the operating system (OS) for your instance.

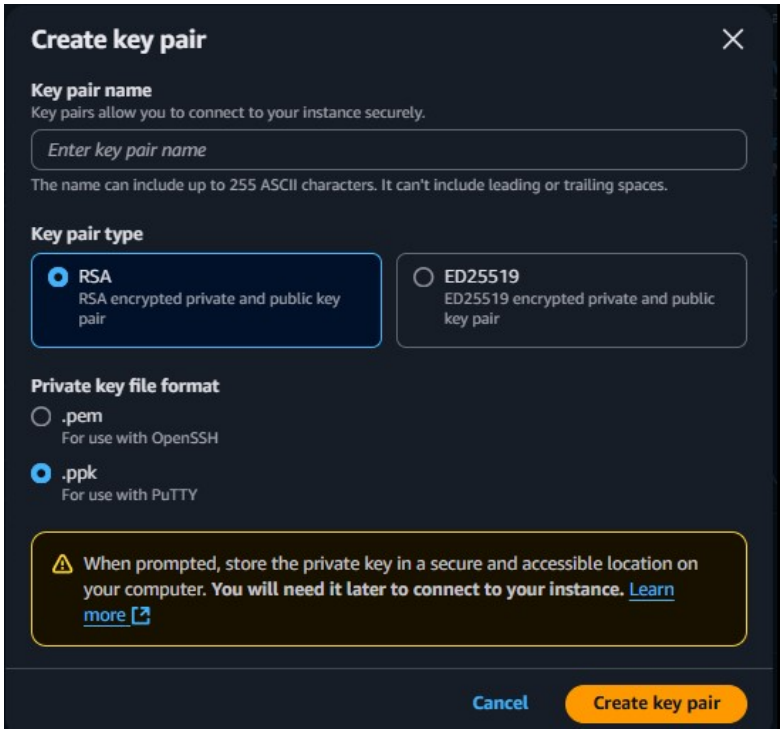


5. **Select the Instance Type**:
   Choose an instance type based on your required number of CPUs, storage needs, and budget.

6. **Create or Select a Key Pair**:

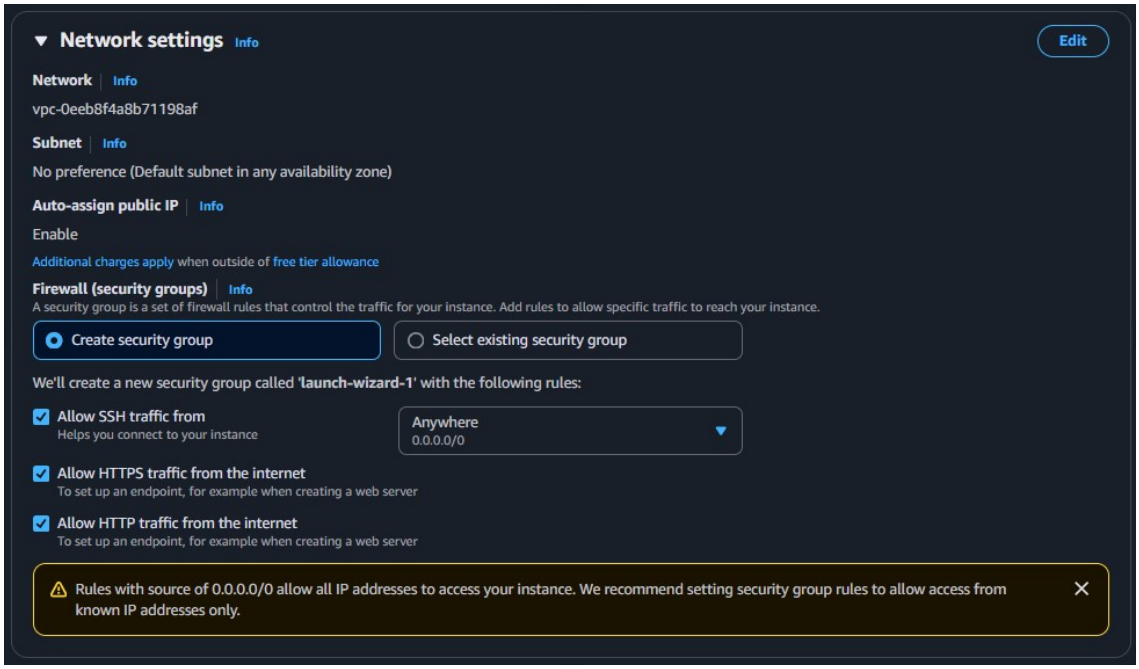
   - A key pair consists of security credentials used to securely log in to your EC2 instance.
   - **Private Key**: Stored locally on your computer and required to connect to the instance.
   - **Public Key**: Stored in the EC2 instance during its launch. AWS uses this key to verify the private key during authentication.
     Create a new key pair and save it to your computer, or select an existing key pair.



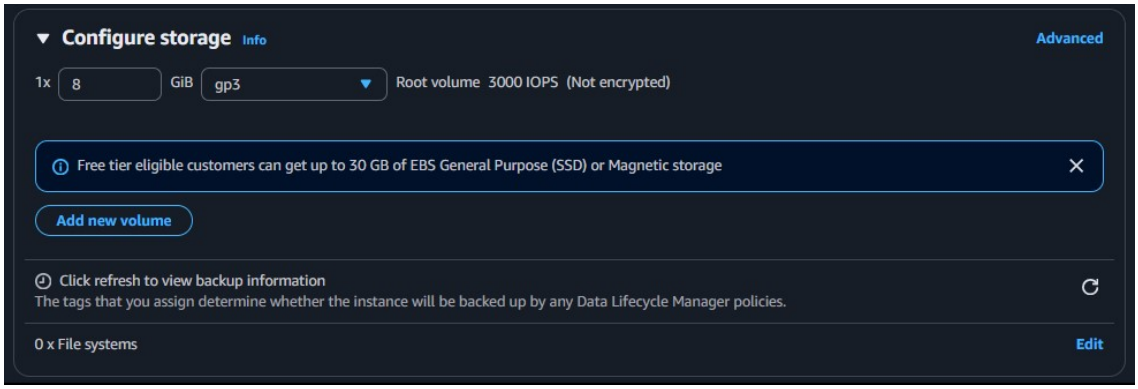


7. **Configure Network Settings**:

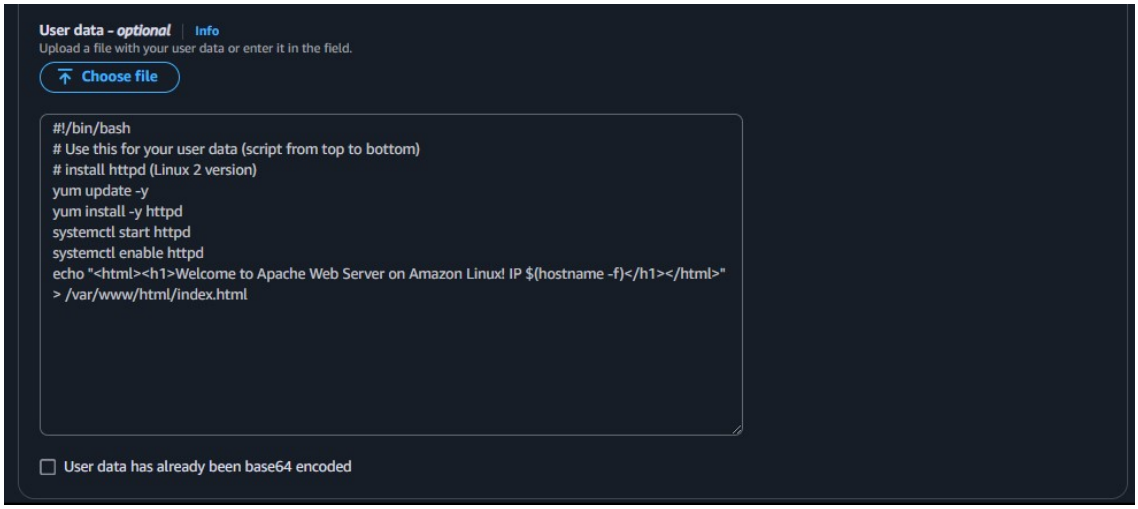
- **VPC (Virtual Private Cloud)**: Choose a VPC or use the default one provided.
- **Subnet**: Select or create a subnet.
- **Security Group**: Choose a security group. A security group is a set of firewall rules that control the inbound and outbound traffic for your instance.



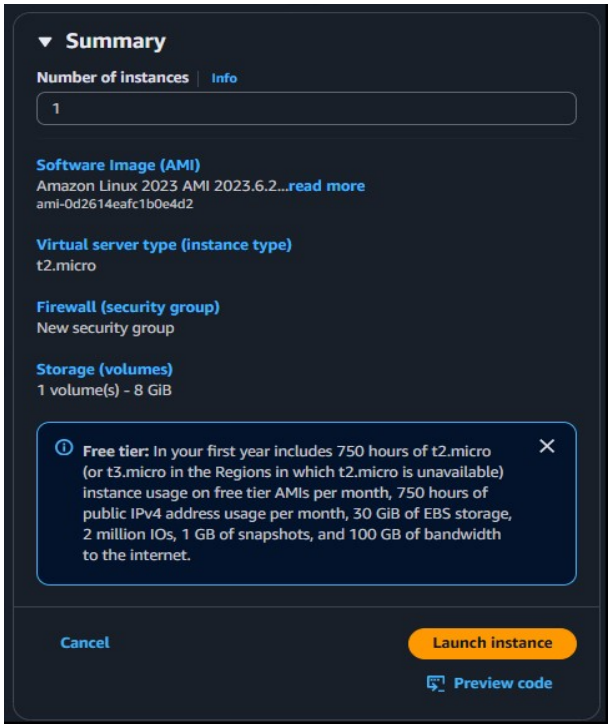
8. **Configure Storage**:
   Set up storage using EBS (Elastic Block Store). Choose the necessary volume and storage size.

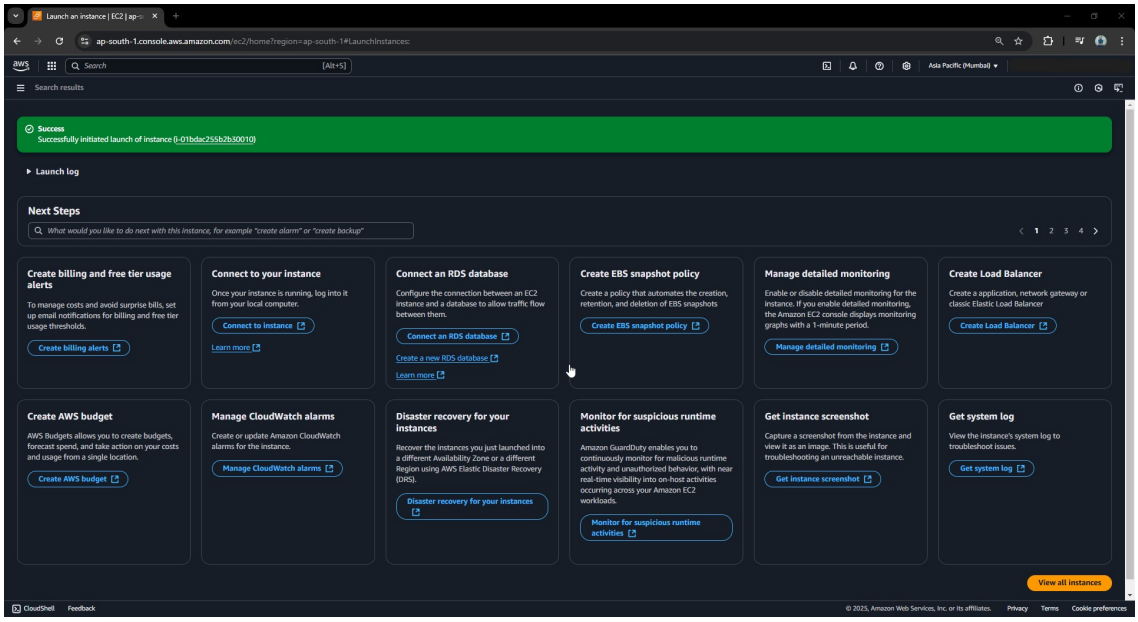


9. **Add User Data (Optional)**:
   User data is a script that runs when the EC2 instance is first launched. It is executed as the root user.

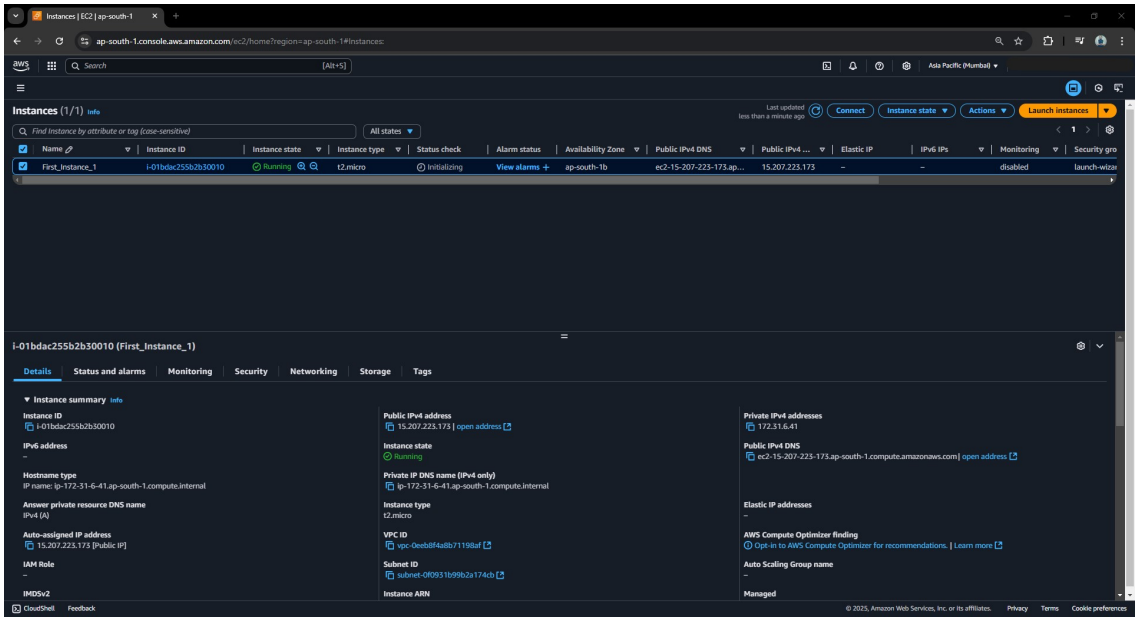


10. **Review and Launch**:
    Verify all the configurations to ensure they meet your requirements. Once satisfied, click on **Launch Instance**.





11. **Verify Instance Status**:
    After launching, confirm that your instance is running. To check if the web server is running, open the public IP address of the instance in your browser.



Welcome to Apache Web Server on Amazon Linux! IP ip-172-31-6-41.ap-south-1.compute.internal