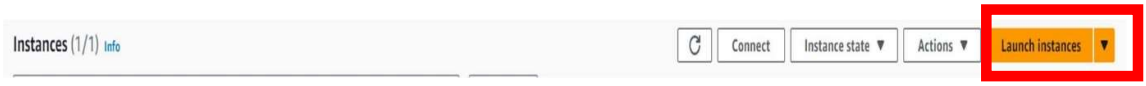
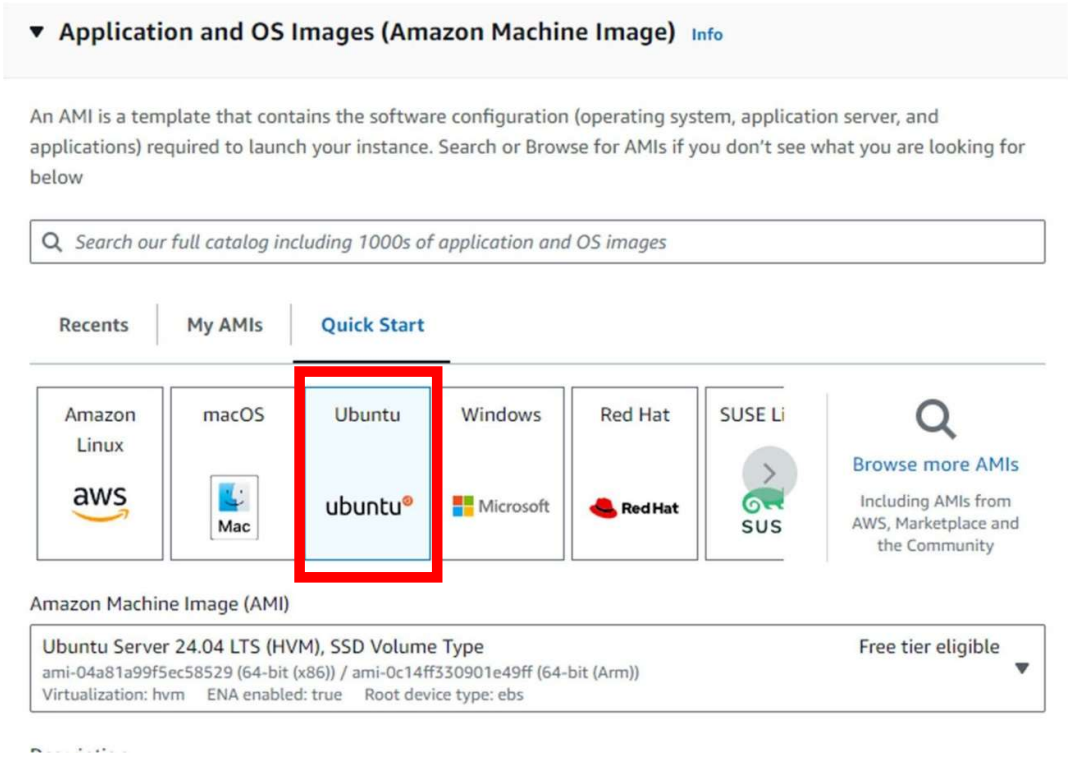
Step 1: Launch an EC2 Instance in the US-East-1 (N. Virginia) Region

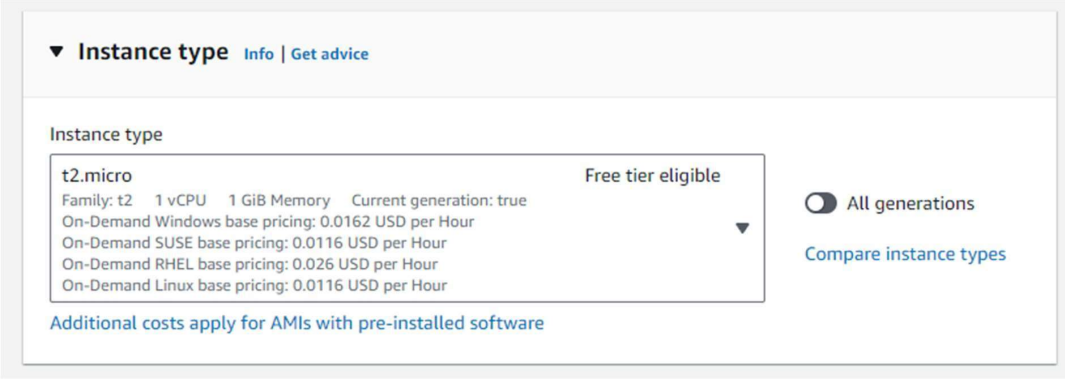
1. **Log in to AWS Management Console:**
    - Go to the AWS Management Console at AWS Console.
    - Sign in with your AWS credentials.
2. **Navigate to EC2 Dashboard:**
    - In the AWS Management Console, type "EC2" in the search bar and select EC2 to navigate to the EC2 Dashboard.
3. **Launch an Instance:**
    - Click on the "Launch Instance" button.



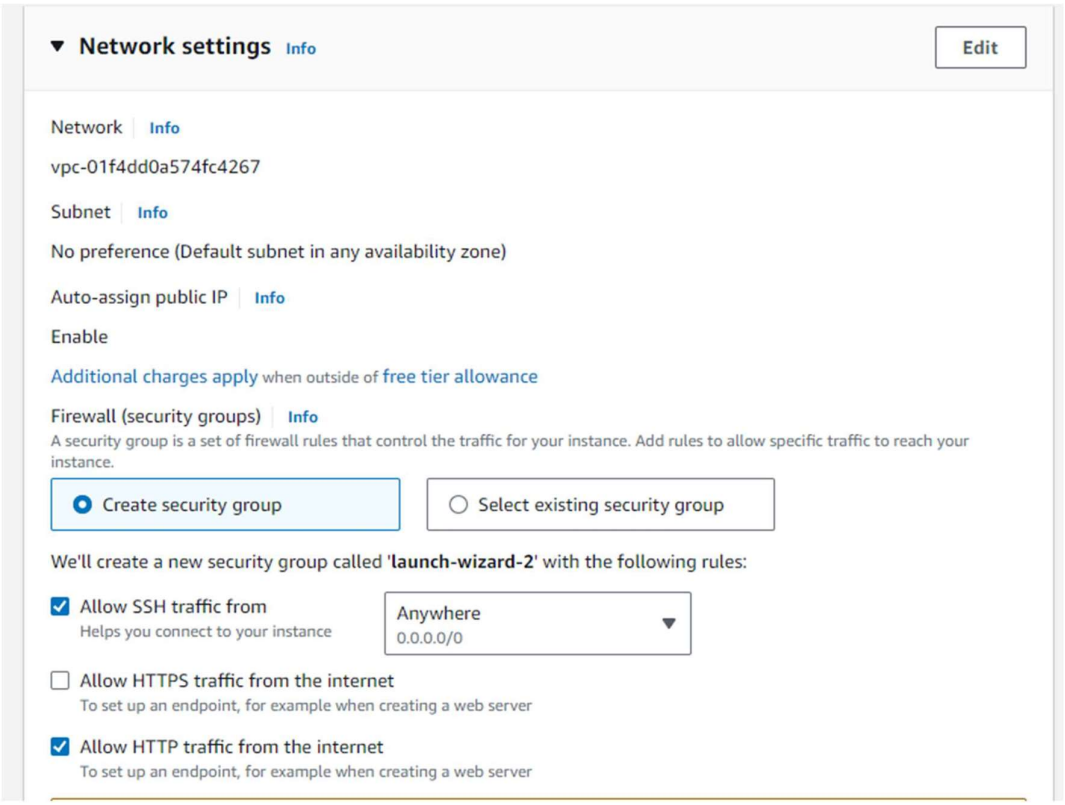
    - **Choose an Amazon Machine Image (AMI):**
        - Select "Ubuntu Server 20.04 LTS (HVM) SSD Volume Type" or a suitable Linux AMI for your use case.



    - **Choose an Instance Type:**
        - Select t2.micro (eligible for the free tier).

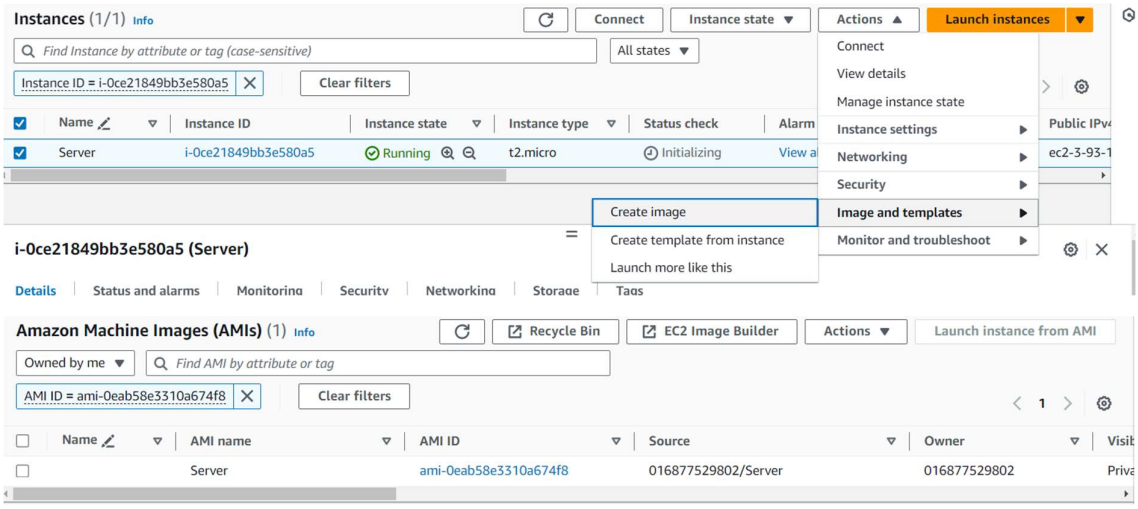


- **Configure Instance:**
  - Select an existing key pair or create a new one.
  - Network: Choose the default VPC.
  - Subnet: Choose a subnet in the US-East-1 (N. Virginia) region.
  - Enable Auto-assign Public IP.
- **Add Storage:** Keep the default settings.
- **Add Tags:** Add a tag to identify your instance (e.g., Key: Name, Value: Nginx).
- **Review and Launch:** Review your instance settings and click "Launch".

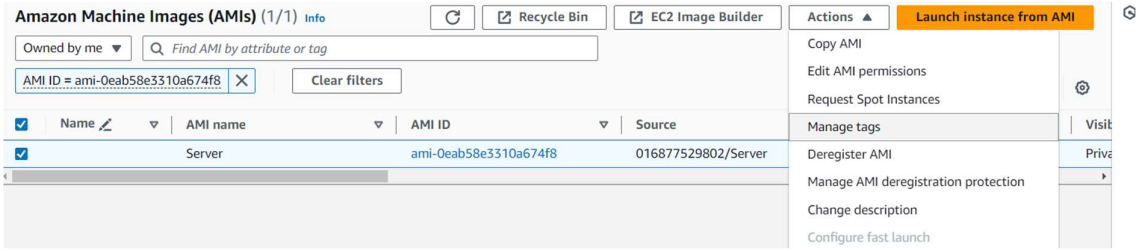


Step 2: Replicate the Instance in the US-West-2 (Oregon) Region

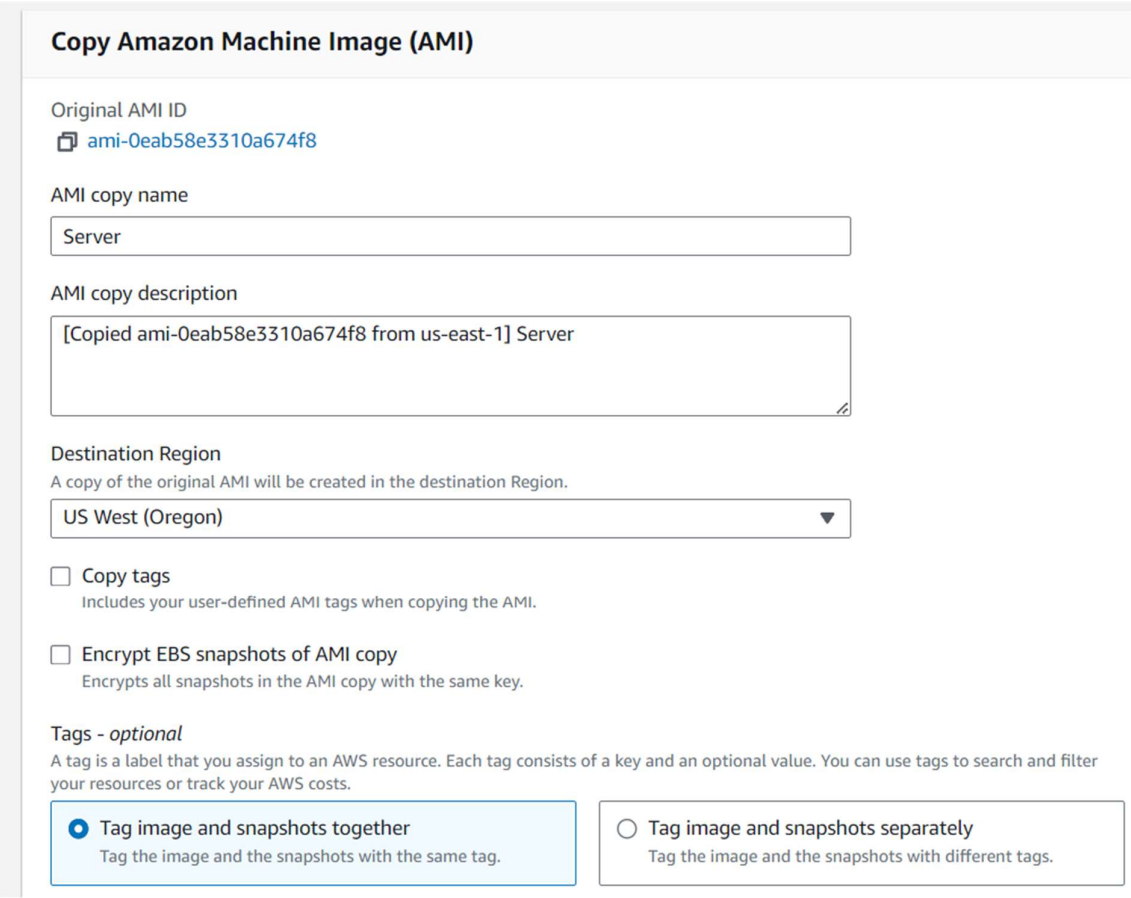
1. **Create an AMI:**
    - After your instance is up and running in US-East-1, go to the EC2 Dashboard, right-click on the instance, and select "Create Image".
    - Specify details and create the AMI.



2. **Copy the AMI to US-West-2:**
    - In the AMI section, select the newly created AMI.



    - Right-click the AMI, select "Copy AMI," and choose US-West-2 (Oregon).



3. **Launch a New Instance:**
    - Once the AMI is copied to the US-West-2 region, navigate to the EC2 Dashboard in that region.
    - Launch a new instance using the copied AMI.

Step 3: Create and Attach Two EBS Volumes in US-East-1

1. **Create EBS Volumes:**
    - In the EC2 Dashboard for US-East-1, navigate to the "Volumes" section under "Elastic Block Store."
    - Click "Create Volume" and specify the size, type, and availability zone (make sure it matches your instance's availability zone).
    - Create two EBS volumes.
2. **Attach Volumes:**
    - After creation, right-click each volume and select "Attach Volume."
    - Attach both volumes to your EC2 instance.

Step 4: Delete One Volume and Extend the Size of the Other

1. **Detach and Delete a Volume:**

- In the EC2 Dashboard, right-click the volume, select "Detach Volume," and then "Delete Volume."

2. **Extend the Remaining Volume:**
    - Right-click the remaining volume, select "Modify Volume," and specify the new size.
    - Confirm the modification.

Step 5: Backup the EBS Volume

1. **Create a Snapshot:**
    - Go to the "Volumes" section under "Elastic Block Store."
    - Right-click the volume you wish to back up and select "Create Snapshot."
    - Provide a name and description for the snapshot and click "Create Snapshot."