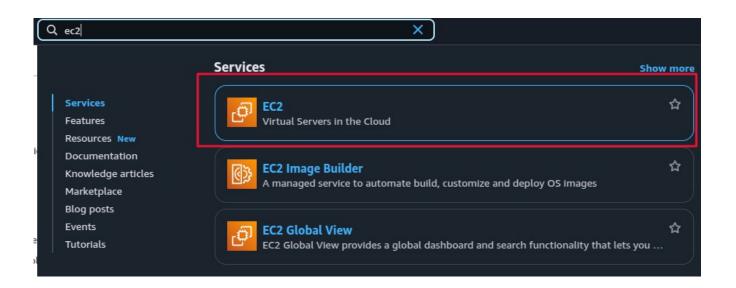
Stage 1: AWS Environment Setup

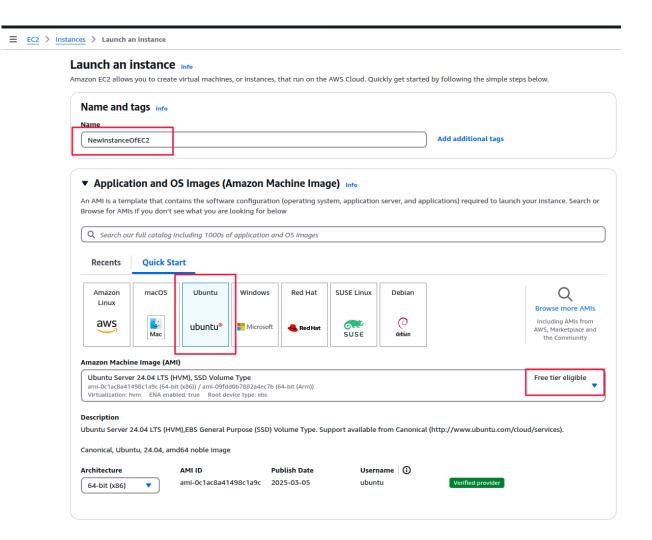
- 1. Navigate to https://aws.amazon.com/free/ and set a free account (credit card information must be provided on step 3 of 5-step-verification process please provide a valid credit card details)
- 2. Login to AWS with received credentials
- 3. Navigate to AWS > Services and search for EC2:

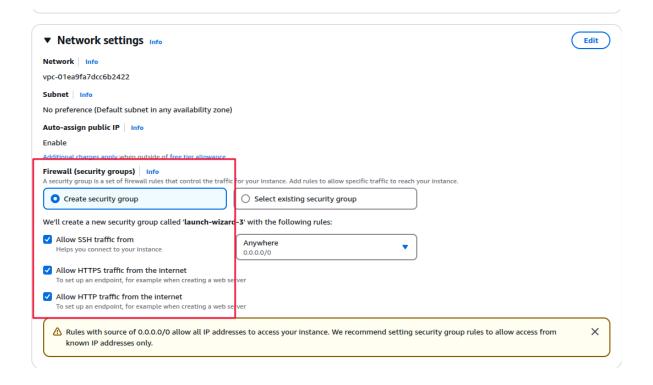


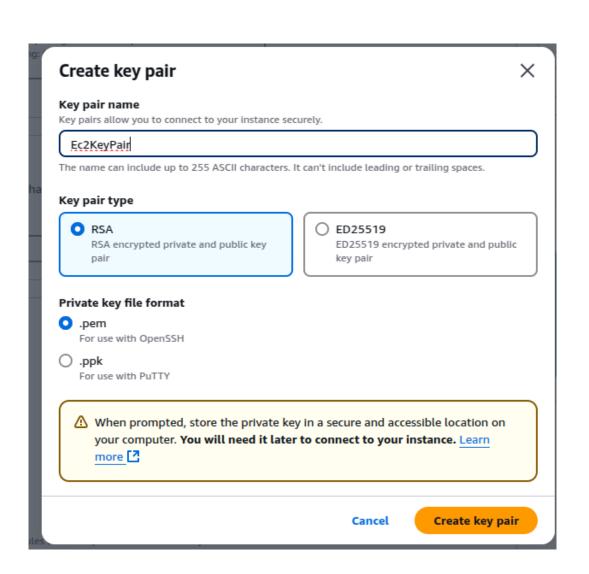
4. Choose EC2 instance:



- 5. Create EC2 instance with the following parameters:
 - a. Name: Choose a meaningful name.
 - b. Amazon Machine Image (AMI): Use Ubuntu 22.04 LTS or Amazon Linux 2.
 - c. Instance Type: Choose t3.micro (Free Tier eligible).
 - d. **Key Pair**: Create/download a key pair if you don't have one.
 - e. Security Group:
 - i. Allow **SSH (port 22)** for your IP.
 - ii. Allow HTTP (port 80) for public access.
 - iii. Allow HTTPS (port 443) if using SSL.
 - f. Click Launch.



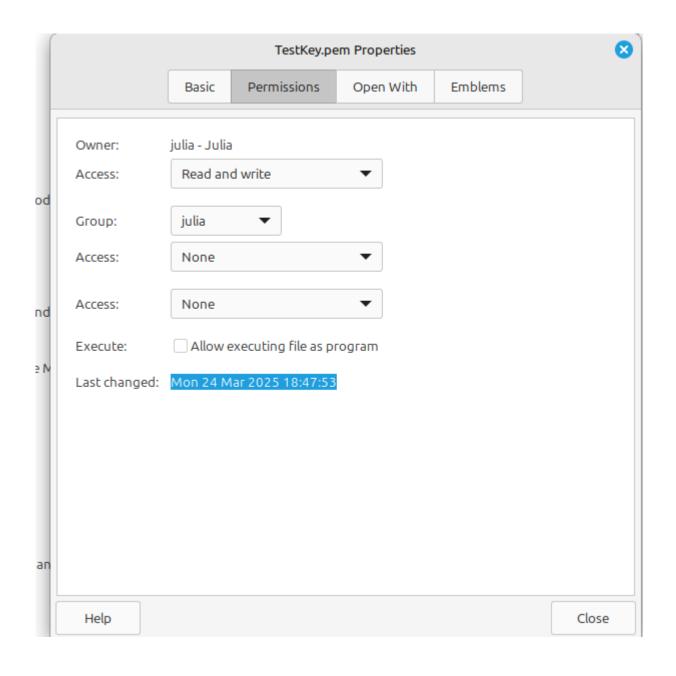




6. On your computer (Linux, terminal/Windows, Putty) run command to connect to AWS machine: ssh -i your-key.pem ubuntu@your-ec2-public-ip (you can pick up public address of your AWS instance in ECS > Dashboard > Instances):



Note: there maybe issues with using your .key file. If the file is not accepted, navigate to File>Properties>Permissions and set Group Access to None:



- 7. Install Apache server by running following sequence of commands on your AWS machine:
 - a. sudo apt update
 - b. sudo apt install apache2 -y
 - c. sudo systemctl enable apache2
 - d. sudo systemctl start apache2
- 8. Verify: Visit http://your-ec2-public-ip in a browser to see a public Apache landing page
- Create an index.html file:
 echo '<h1>Hello from Julia on EC2!</h1>' | sudo tee /var/www/html/index.html

Note: You may add any text with echo command:



Hello from Apache on EC2! For the mobile of the best Senior DevOps, send me an email!