

## CS677 Lab 3

### STEPS FOR AWS DEPLOYMENT

**1. Creating the instance.** We create the instance using AWS Console as shown in figure below. We choose t2.micro in us-east region with Ubuntu Linux.

**Launch an instance** [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags** [Info](#)

Name:  [Add additional tags](#)

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

**Quick Start**

Amazon Linux, macOS, **Ubuntu**, Windows, Red Hat

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type **Free tier eligible**  
ami-0a695f0d95cefc163 (64-bit (x86)) / ami-0af198159897e7a29 (64-bit (Ar...  
Virtualization: hvm ENA enabled: true Root device type: ebs

Description: Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-03-25

Architecture:  AMI ID: ami-0a695f0d95cefc163 **Verified provider**

**Instance type** [Info](#)

Instance type: **t2.micro** **Free tier eligible**  
Family: t2 1 vCPU 1 GiB Memory  
Current generation: true  
On-Demand Linux pricing: 0.0116 USD per Hour  
On-Demand SUSE pricing: 0.0116 USD per Hour  
On-Demand Windows pricing: 0.0162 USD per Hour  
On-Demand RHEL pricing: 0.0716 USD per Hour

☒ All generations [Compare instance types](#)

**Summary**

Number of instances [Info](#):

**Software Image (AMI)**  
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)  
ami-0a695f0d95cefc163

**Virtual server type (instance type)**  
t2.micro

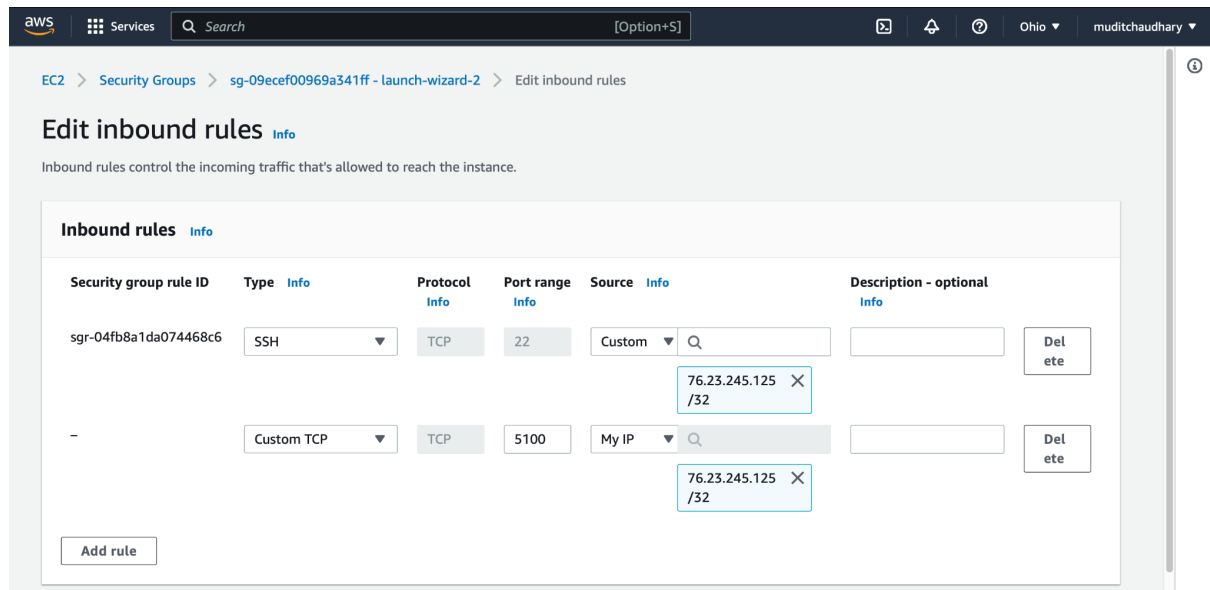
**Firewall (security group)**  
New security group

**Storage (volumes)**  
1 volume(s) - 8 GiB

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#) [Review commands](#)

**2. Modify the security group.** Then we modify the inbound rules in the security group so that we can access the service using the public DNS. We allow connections to port 5100 on our instance that can only be called using our local machine IP.



**3. Access using SSH.** Then we access the instance using SSH using the downloaded .pem file.

**4. Install Docker.** We install docker using the instructions provided here:  
<https://docs.docker.com/engine/install/ubuntu/>

**5. Clone repository.** We use GIT to clone the repository into the EC2 instance.

**6. Start service.** Then we start the trading application service using docker on the instance and access it through the public DNS.