**Steps to deploy on AWS**

1. Create an EC2 instance with default configuration but choosing Instance type: t3.large
2. Download .pem file for then to stablish ssh connection from local machine
3. In security tab make sure to add the ports 5001 (MLflow), 8000 (fastapi), 8080(airflow) to access to the servers

A screenshot of a computer

AI-generated content may be incorrect.

1. Instance configuration through command line

Connect to the instance:

ssh -i "key-pair.pem" ec2-user@<EC2\_PUBLIC\_IP>

Install Docker and Docker Compose

# Update system

sudo dnf update -y

# Install Docker

sudo dnf install -y docker

# Start Docker

sudo systemctl enable docker

sudo systemctl start docker

# Add ec2-user to Docker group

sudo usermod -aG docker ec2-user

newgrp docker

# Install Docker Compose

sudo curl -L "https://github.com/docker/compose/releases/download/v2.25.0/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose

# Set permissions

sudo chmod +x /usr/local/bin/docker-compose

# Verify Docker and Docker Compose

docker --version

docker-compose --version

Copy project folder to EC2 (from local machine, not in the ssh connection, so using a different session)

scp -i "key-pair.pem" -r /path/to/your/recommender-system ec2-user@<EC2\_PUBLIC\_IP>:/home/ec2-user/

Back to ssh connection…

Navigate to your project directory:

Build and run the services:

docker-compose down -v # Optional: If anything is running already

docker-compose up -d --build

Verify Services

docker ps