AWS Website Deployment

❖ What We Are Doing

We will:

- Create a virtual server (EC2) on AWS
- Install a web server (Apache)
- Upload our website files
- Make the website publicly accessible

This is how real companies host websites on cloud servers.

STEP 1: AWS Account & Region Selection

What is AWS?

AWS (Amazon Web Services) is a cloud platform that provides servers, storage, databases, networking, and security on a pay-as-you-go model.

Create AWS Account

1. **Open browser → https://aws.amazon.com**
2. **Click "Create an AWS Account" (top-right)**

Enter Account Details

- **Root Email: your email (e.g., lakshman@example.com)**
- **Password: strong password**
- **AWS Account Name: e.g., LakshmanAWS**
- **Click "Continue"**

Account Type

- **Choose Personal or Professional**
- **Enter full name, phone number, country, and address**
- **Click "Create Account and Continue"**

Payment

- **Enter credit/debit card (required for verification)**
- **Verify and continue**

Identity Verification

- **Enter phone number, receive OTP, verify**

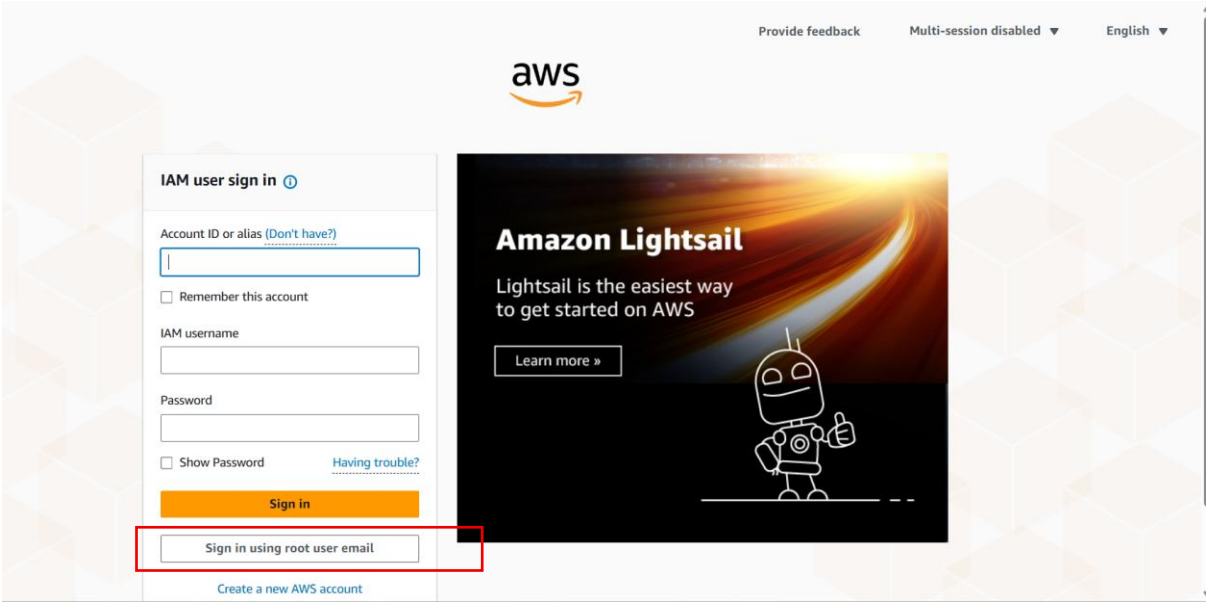
Support Plan

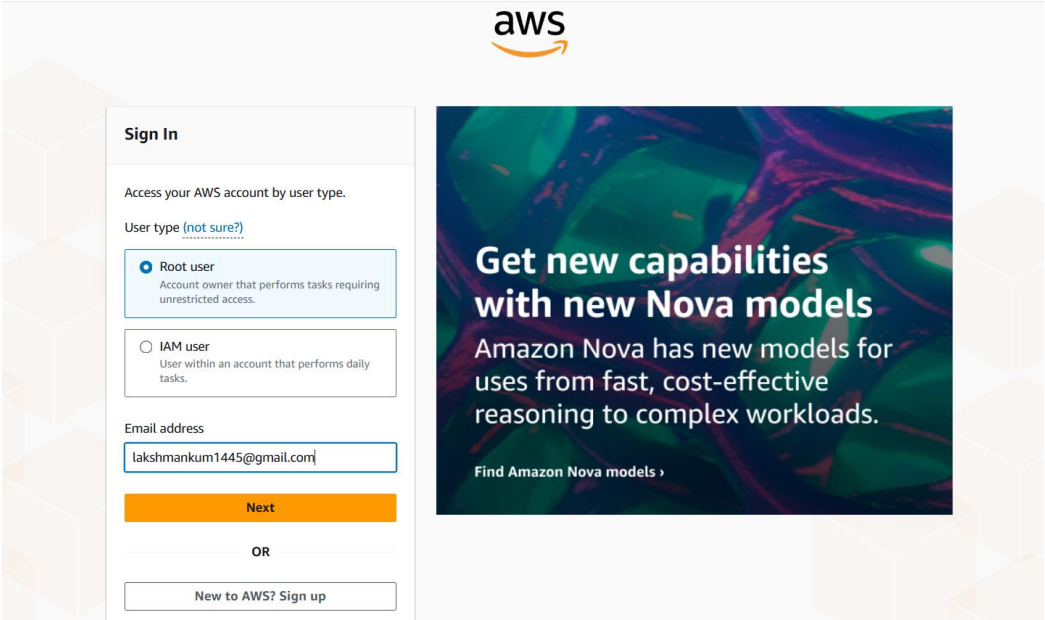
- **Select Basic (Free) → Complete Sign Up** ✅

STEP 2: Sign in to AWS Console

1. Go to https://aws.amazon.com/console/
2. Click **Sign In to Console** → Choose **Root User**
3. Enter **root email** → Next
4. Enter **password** → Sign In

Now you are inside **AWS Console**





STEP 3: Launch EC2 Instance (Virtual Server)

1. In AWS Console → Search **EC2** → Click **Launch Instance**

Instance Configuration

- **Name:** my-website-server
- **AMI:** Amazon Linux 2 (Free Tier)
- **Instance Type:** t2.micro (Free Tier)

Key Pair

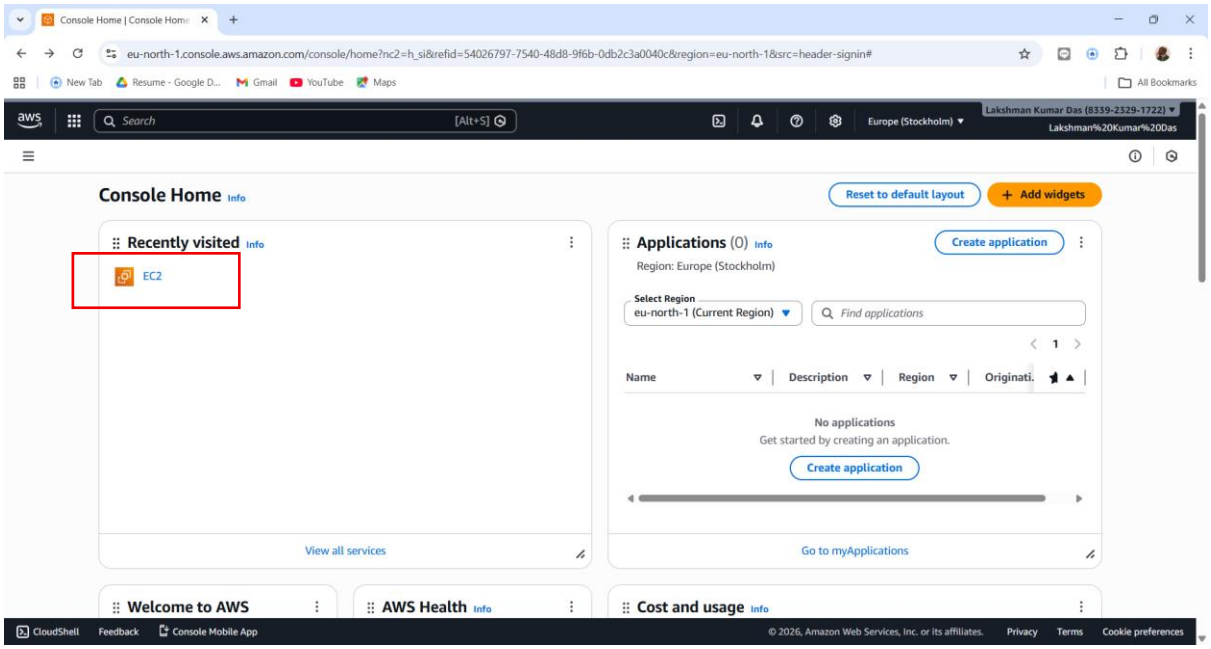
- **Create new key pair** → Name: website-key → Download .pem

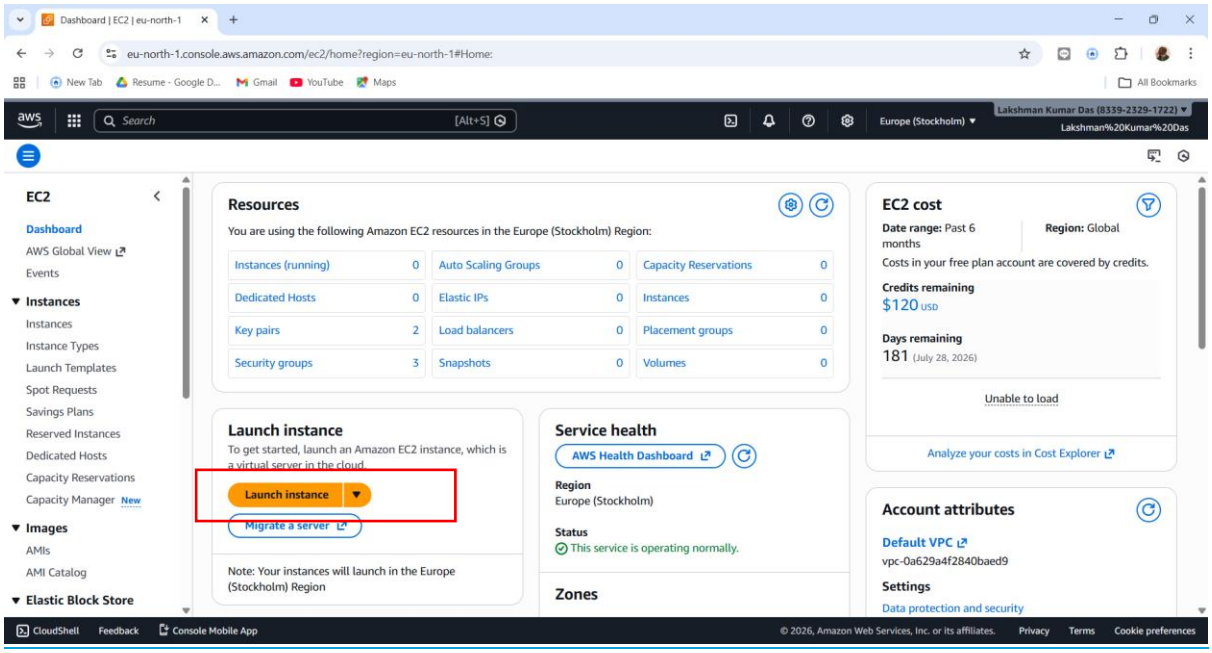
Keep .pem safe, needed for SSH

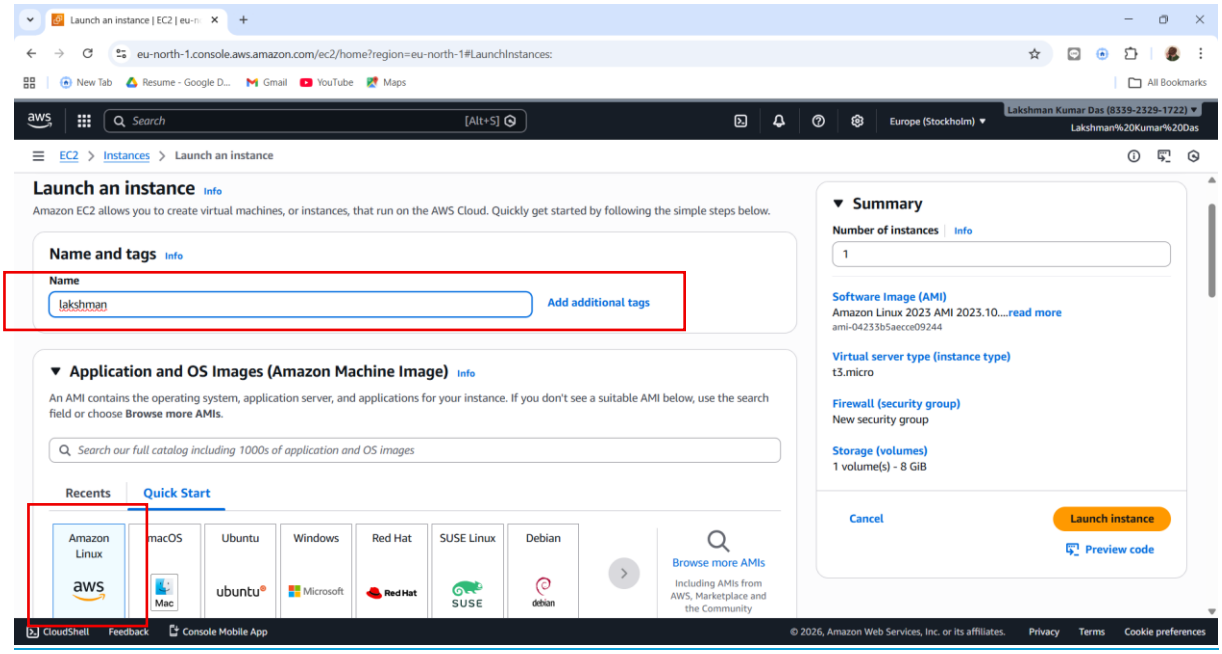
Security Group (Firewall)

- Allow:
    - **SSH (22)** → My IP
    - **HTTP (80)** → Anywhere
    - **HTTPS (443)** → Anywhere

Click **Launch Instance** ✅







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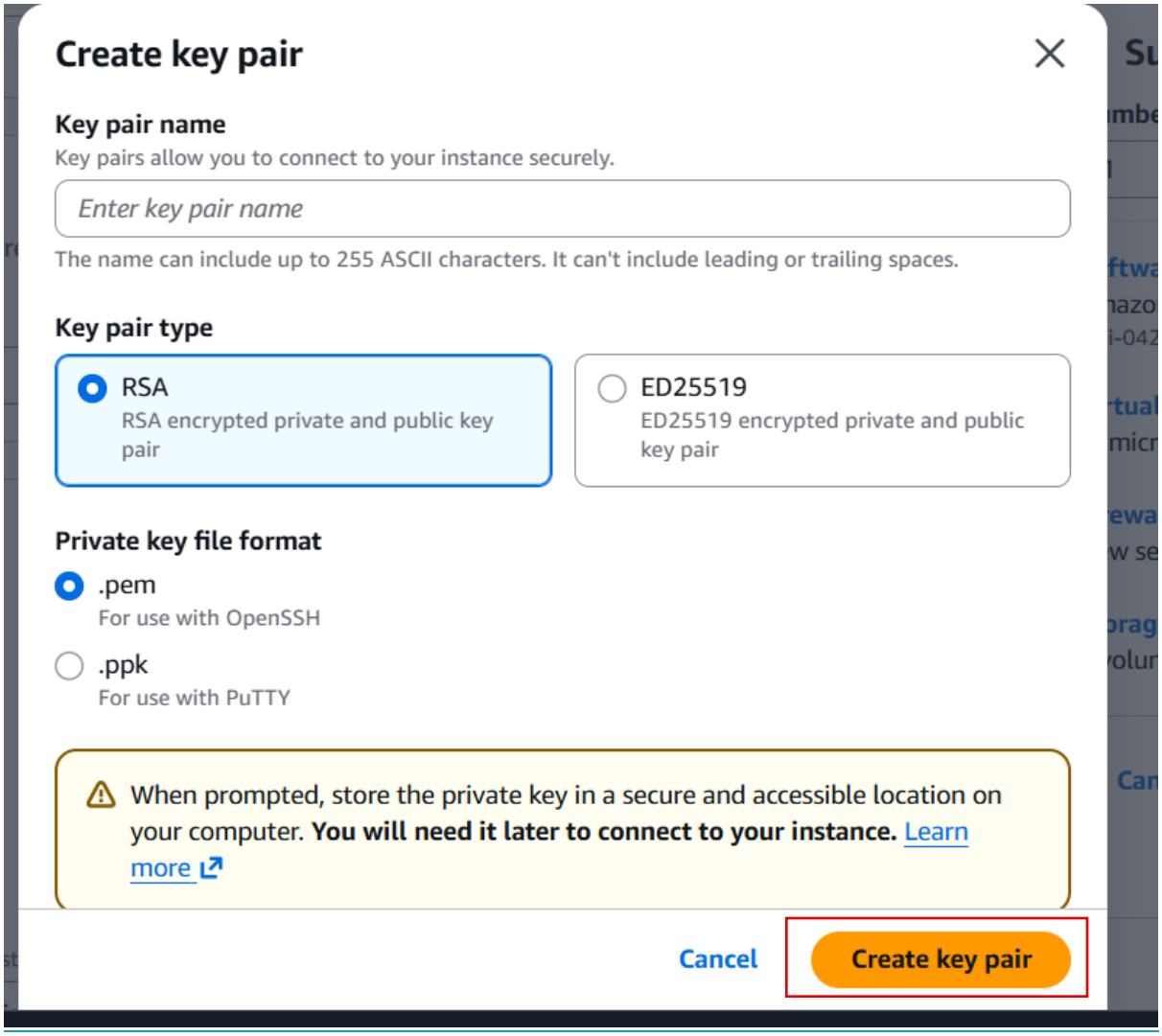

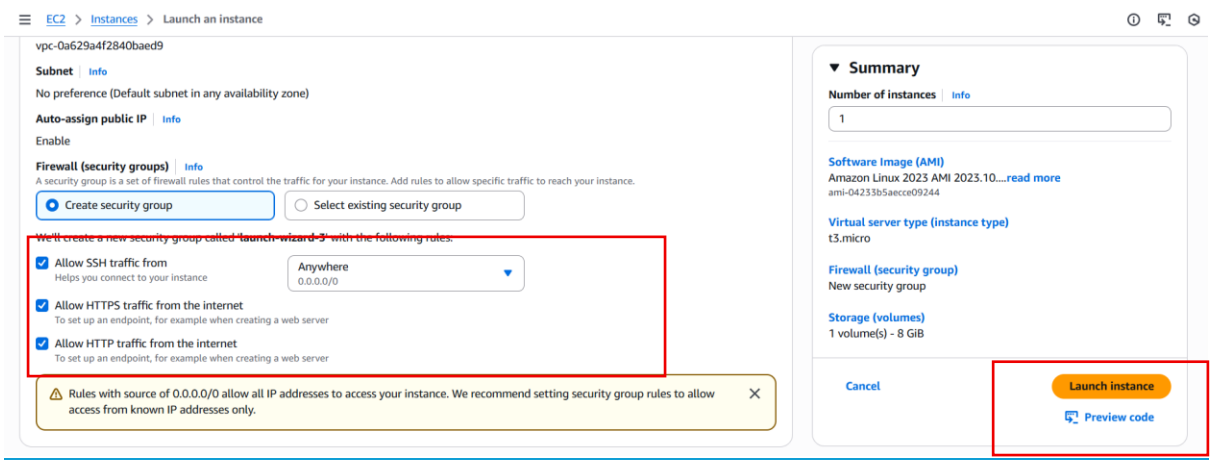

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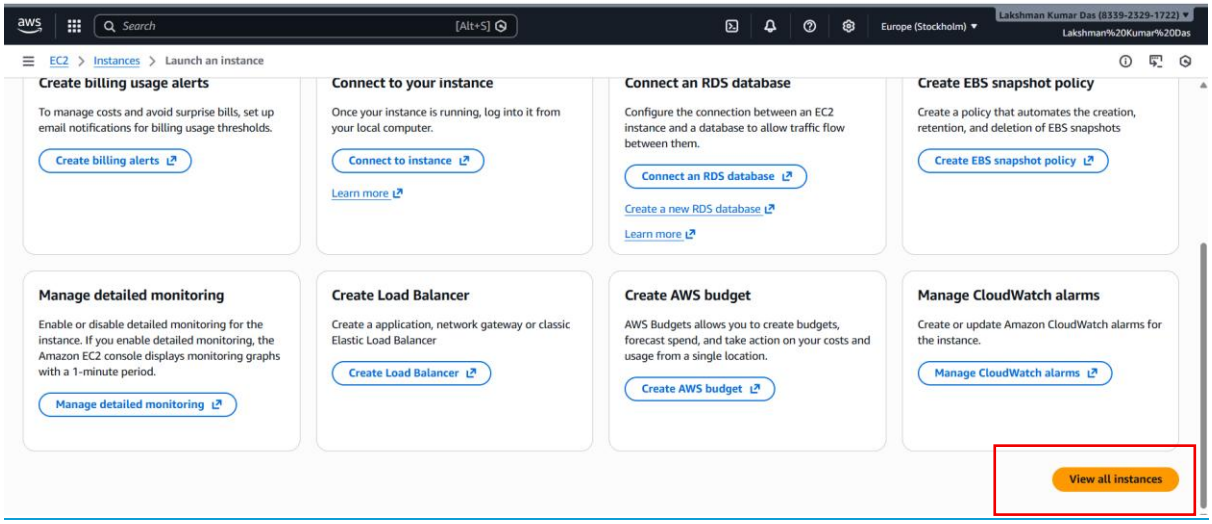
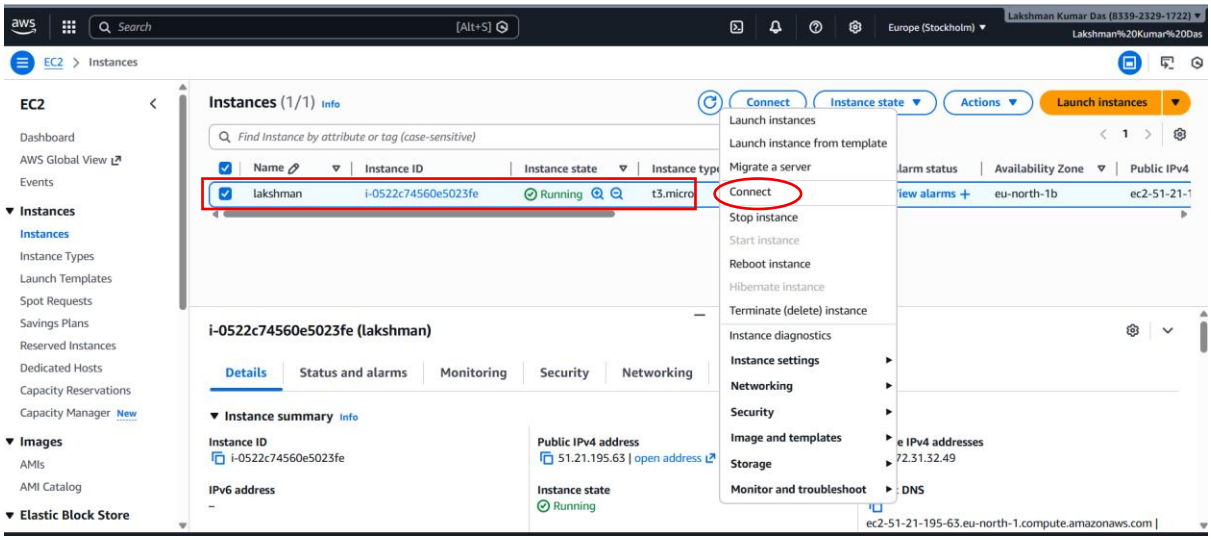
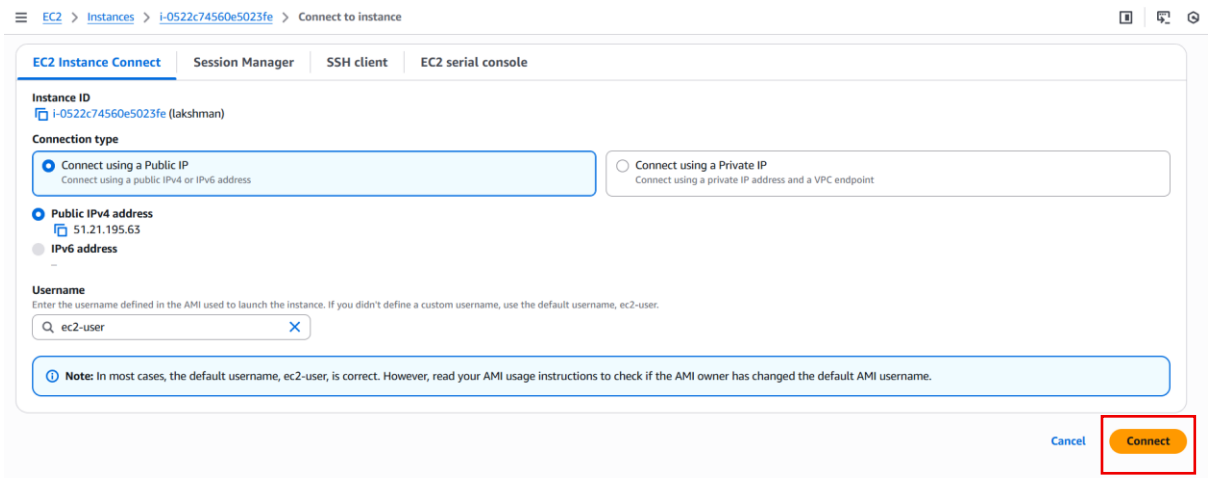


Step 4.

Right-click on your instance → You will see a menu with options like:

And then select connect





STEP 5: Install Apache Web Server

1. sudo yum update -y
2. sudo yum install httpd -y
3. sudo systemctl start httpd
4. sudo systemctl enable httpd

Step 6: Deploy Your Website

1. **Install Git**:

   sudo yum install -y git

2. **Clone your GitHub repository**:

   git clone https://github.com/thebugbounter/preet-watches.git /var/www/html/

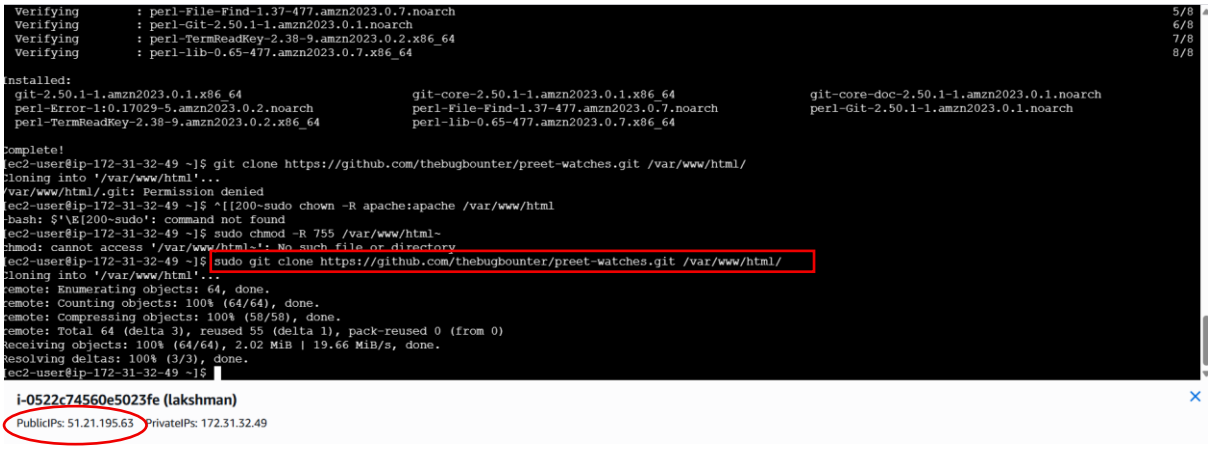
3. **Adjust ownership and permissions**:

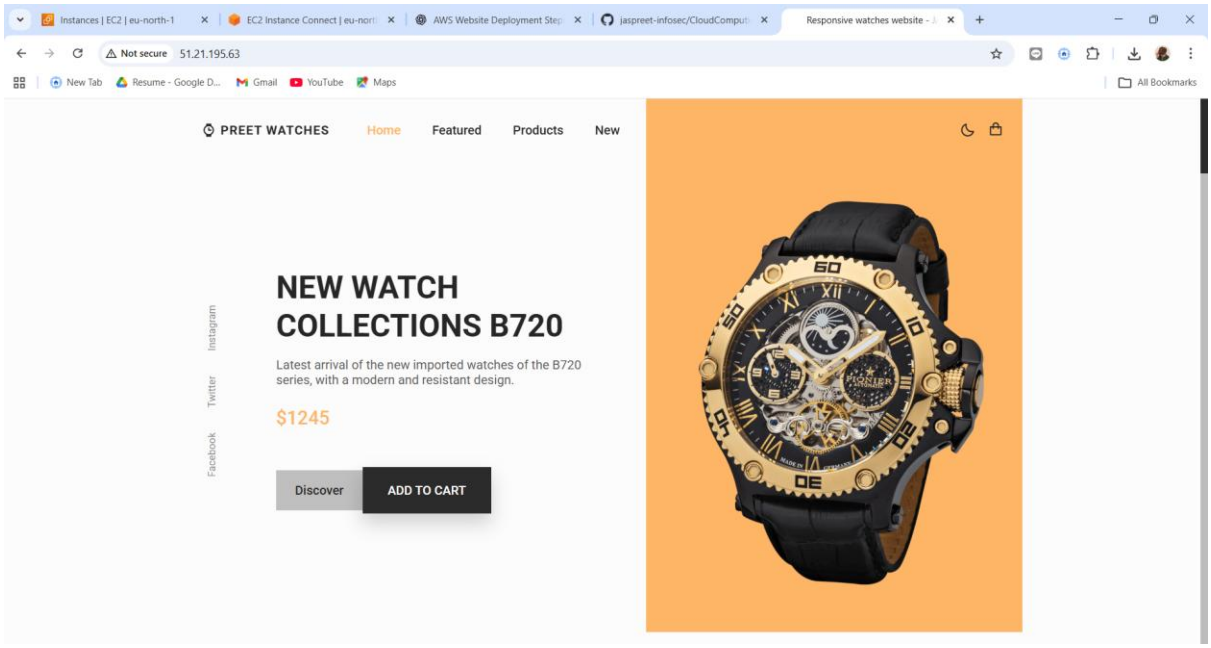
4. sudo chown -R apache:apache /var/www/html

   sudo chmod -R 755 /var/www/html

Step 8: Access Your Web Server

Open your web browser: Go to the public DNS address of your instance. You should see the content of your website deployed from the GitHub repository.





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