Instagram Login Page Deployment on Amazon Linux EC2 (Amazon Linux + NGINX + Login Page)

Overview

This guide explains how to deploy a production-ready Instagram-style login page on an Amazon Linux EC2 instance. The deployment uses

- Amazon Linux 2023 – lightweight, secure Linux server
- Nginx – high-performance web server
- HTML/CSS – modern Instagram-inspired front-end design
- Systemd – ensures Nginx auto-starts on reboot
- AWS Security Groups – to allow HTTP/SSH access

Project: Instagram Login Page Deployment on Amazon Linux EC2

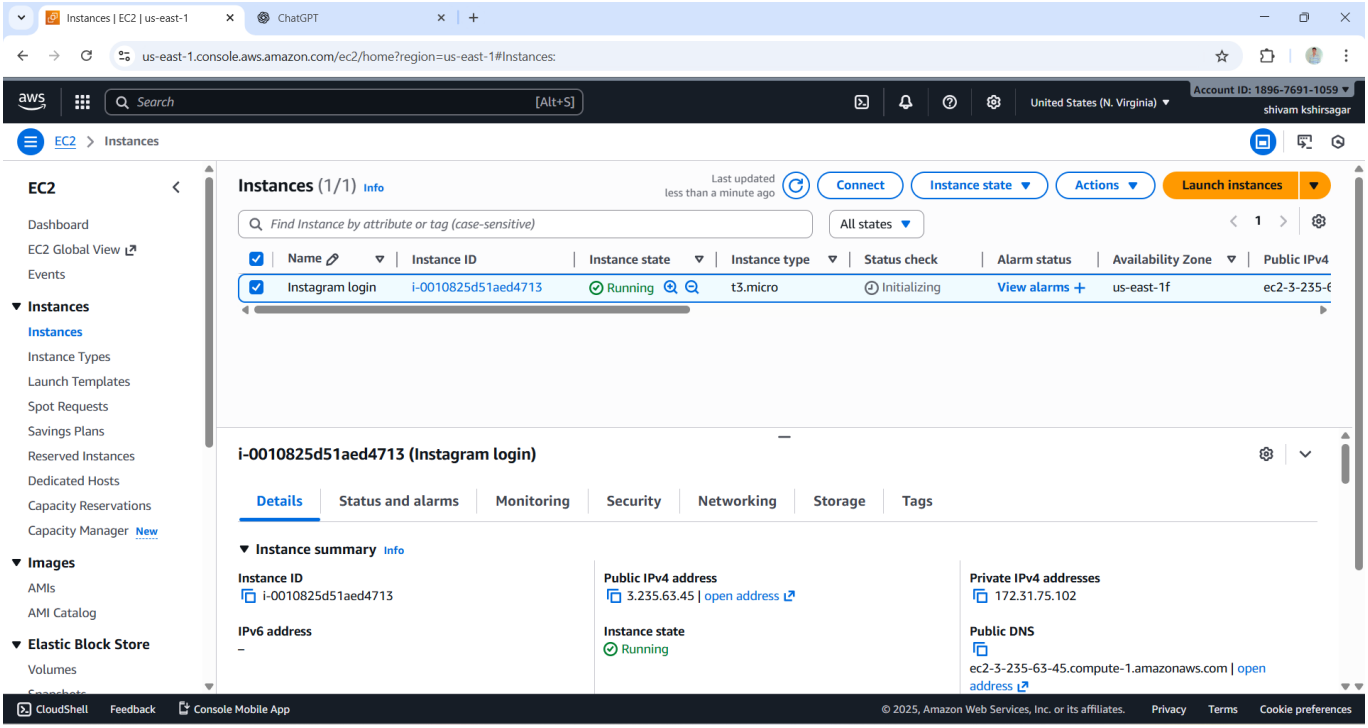
Step-by-Step Deployment Guide

- ## 1: Launch Amazon Linux EC2 Instance

Theory: We are creating a cloud server (EC2 instance) to host our login page and allow public access via browser.

- Go to AWS Console → EC2 → Launch Instance
- Select Amazon Linux 2023 AMI
- Choose t3.micro (Free Tier)
- Configure Key Pair (create new or use existing) for SSH access
- Configure Security Group:
    - SSH → Port 22 → Source: My IP
    - HTTP → Port 80 → Source: Anywhere

Screenshot



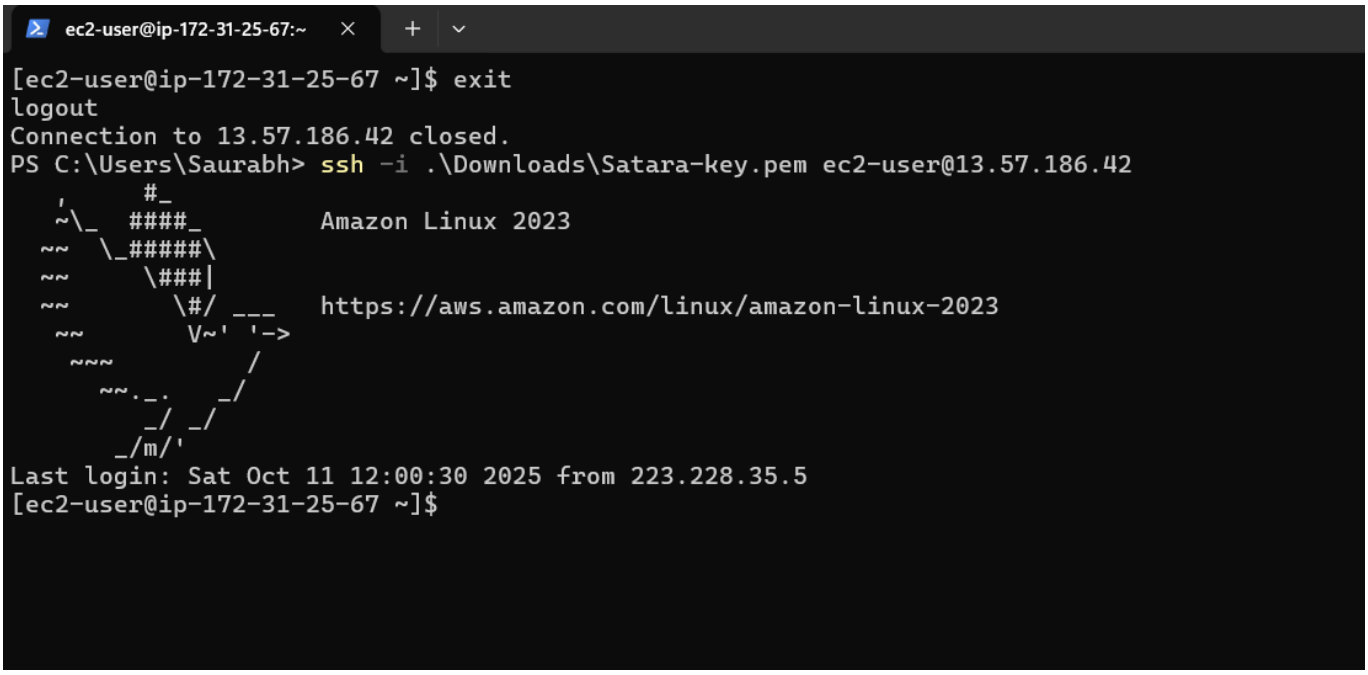
2: Connect to EC2 via SSH

Theory: SSH connection allows you to remotely manage the EC2 instance from your local machine.

Commands:

```
ssh -i "Your_key" ec2-user@<your-ec2-ip>
```

Screenshot



3: Install and Start NGINX

Theory: NGINX is a web server that serves our HTML/CSS login page; enabling it ensures it starts automatically on reboot.

Commands:

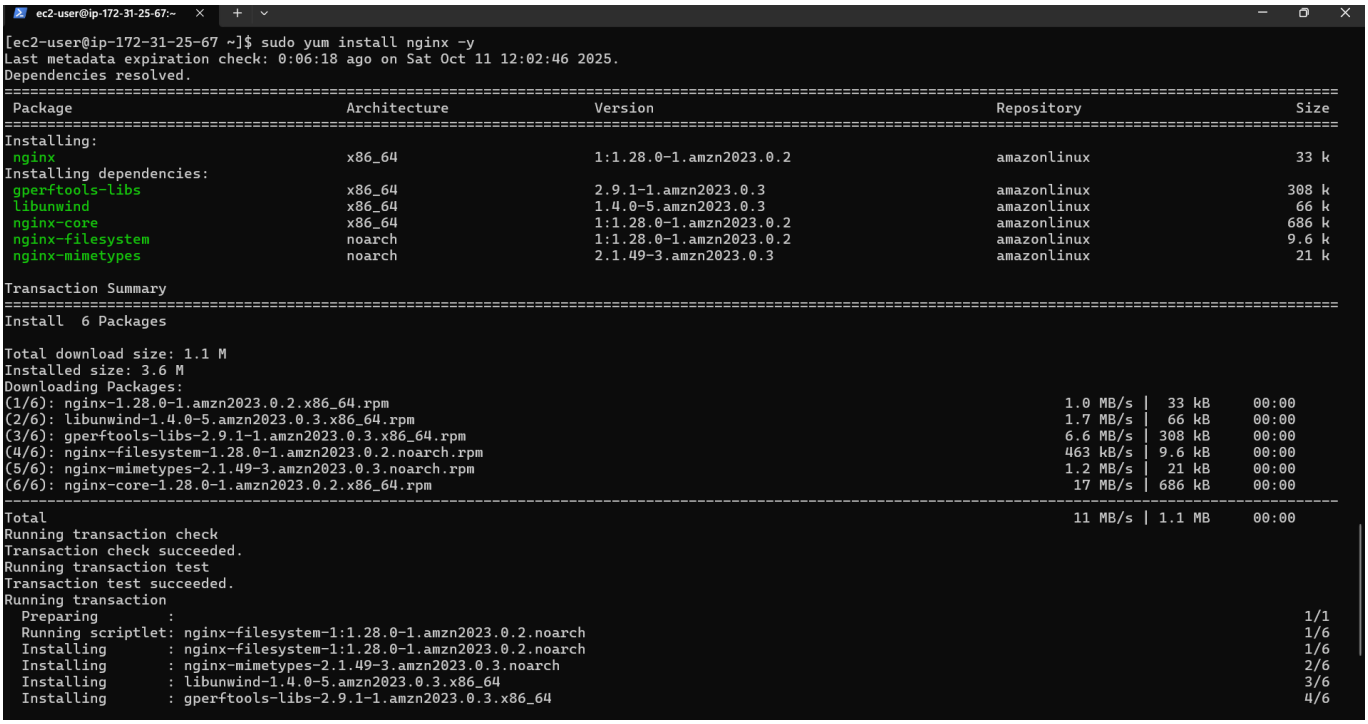
```
sudo yum update -y

sudo yum install nginx -y

sudo systemctl start nginx

sudo systemctl enable nginx
```

Screenshot



4: Deploy Instagram Login Page

Theory: We replace the default NGINX page with our custom Instagram login page so it can be accessed via browser.

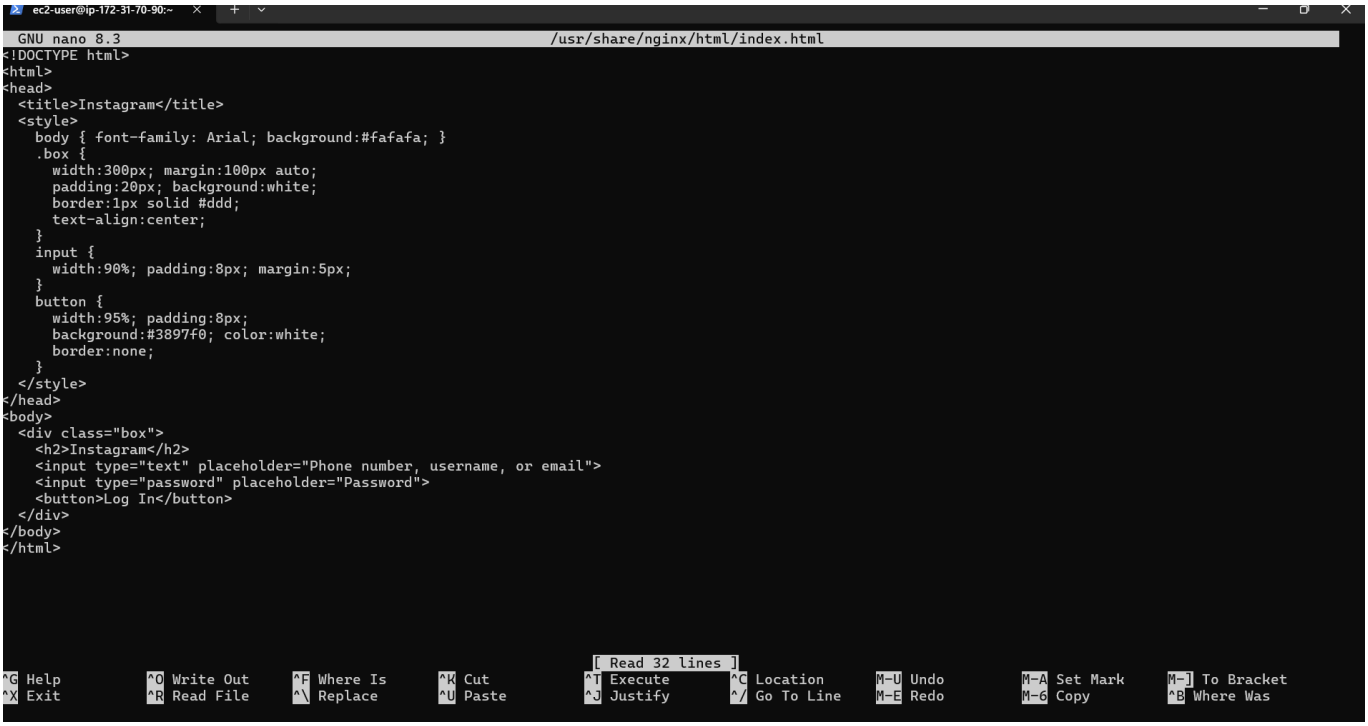
Commands:

```
sudo nano /usr/share/nginx/html/index.html

* Paste the Instagram HTML/CSS

* Save and exit.
```

Screenshot



5: Set File Permissions

Theory: Allows Nginx to read website files

Commands:

```
* sudo chown -R nginx:nginx /usr/share/nginx/html
```

6: Restart Nginx

Theory: Applies all changes by restarting Nginx.

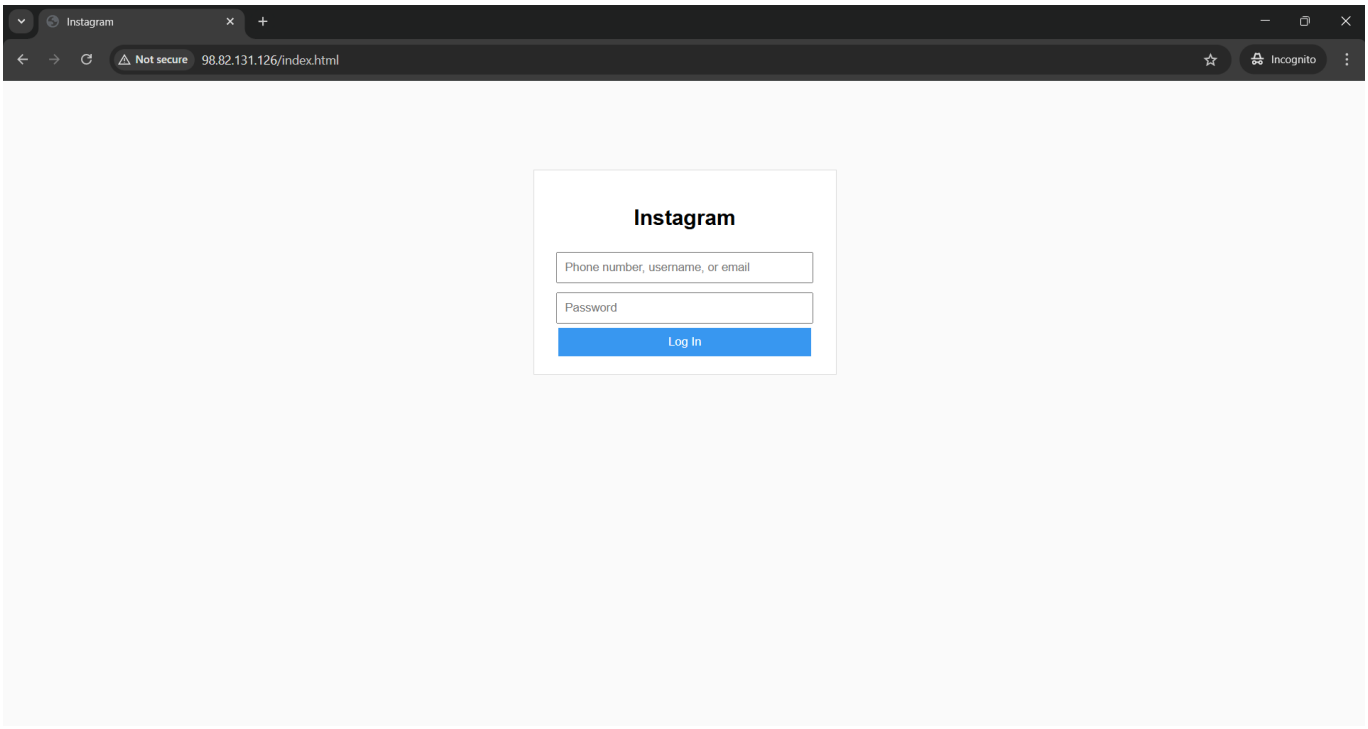
Commands:

```
* sudo systemctl restart nginx
```

7: Access Website

Theory: Access the deployed website using EC2 public IP.

```
 * http://EC2_PUBLIC_IP
```



Deployment Success

Theory: The Instagram login page is successfully displayed in the browser using the EC2 public IP address.