

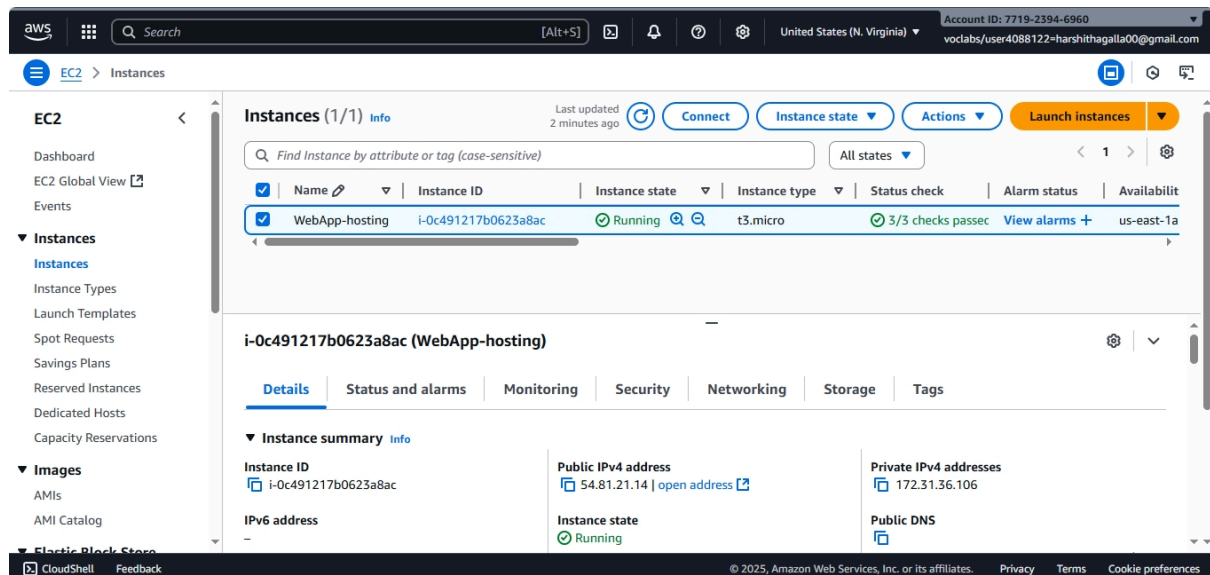
Project Documentation: Hosting a Static Website on AWS EC2

Objective

Host a professional static website (Bootstrap template) on AWS EC2 using Apache HTTP Server, following industry best practices like security groups, GitHub integration, and Elastic IP.

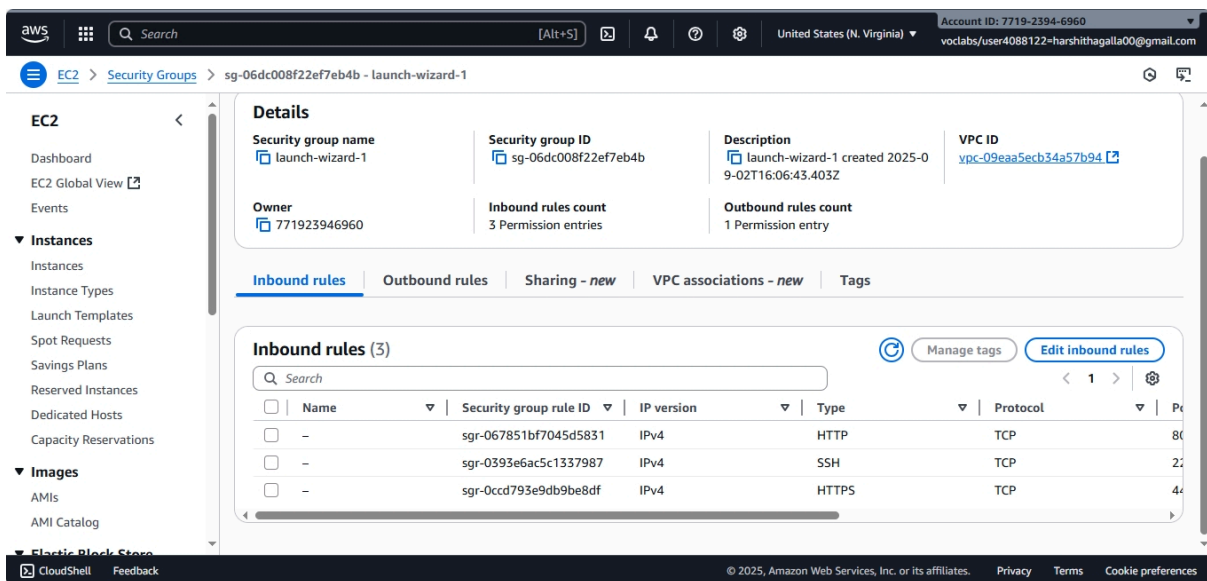
Step 1: Launch EC2 Instance

- **AMI:** Amazon Linux 2 (Free Tier eligible)
- **Instance Type:** t2.micro



- **Security Group:**

- Inbound → **22 (SSH)** only from My IP
- Inbound → **80 (HTTP)** from Anywhere (0.0.0.0/0)
- Outbound → All traffic (default configuration is fine)



Step 2: Connect to EC2

```
ssh -i <keypair.pem> ec2-user@<public-ip>
```

Step 3: Update & Install Apache

```
sudo yum update -y
sudo yum install -y httpd
sudo systemctl start httpd
sudo systemctl enable httpd
```

Test in browser: <http://<public-ip>> → you should see Apache test page.

Step 4: Install Git & Pull Website Code

```
sudo yum install -y git
cd /var/www/html
sudo rm -rf *
sudo git clone
https://github.com/<username>/<website-repo>.git .
```

In this case, we cloned the **startbootstrap-creative** template.

Step 5: Deploy Website Files

The cloned repository had files inside the **dist/** folder. Apache looks for **index.html** directly inside **/var/www/html**.

Move them:

```
cd /var/www/html/startbootstrap-creative
sudo mv dist/* /var/www/html/
cd /var/www/html
sudo rm -rf startbootstrap-creative
```

Step 6: Set Permissions

```
sudo chown -R apache:apache /var/www/html
sudo chmod -R 755 /var/www/html
sudo systemctl restart httpd
```

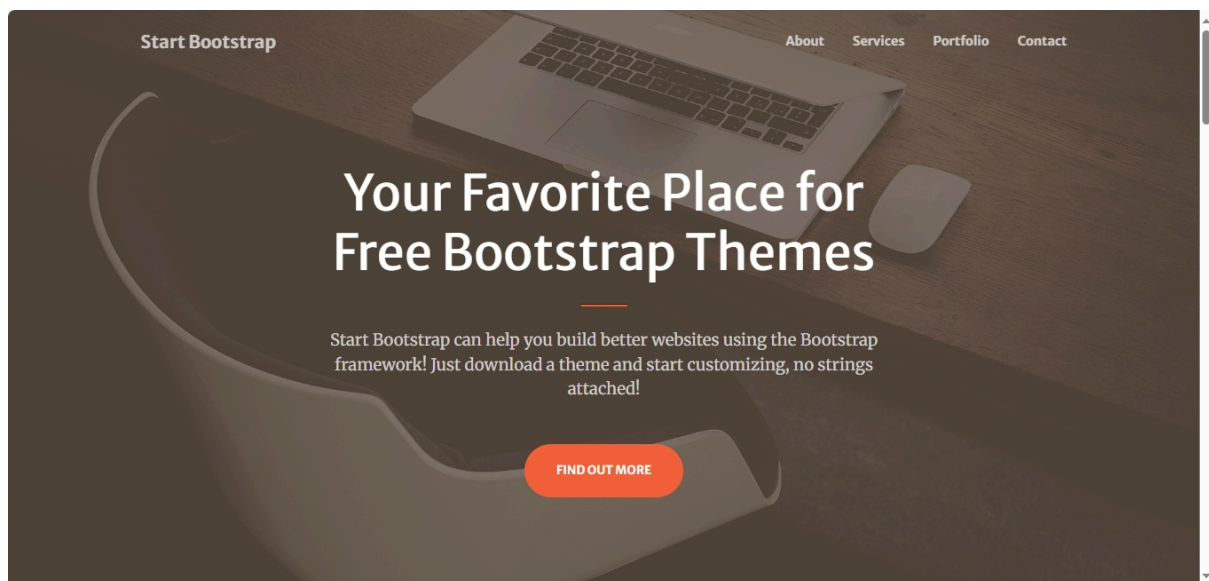
Step 7: Allocate Elastic IP (Optional but Recommended)

- Go to AWS Console → Elastic IP → Allocate → Associate with your EC2.
- This ensures your website has a stable public IP even after instance restarts.

Final Test

Open in browser:

`http://<Elastic-IP>`



The static Bootstrap website is now live on AWS EC2.