

Subject: Cloud Architecture And Protocol

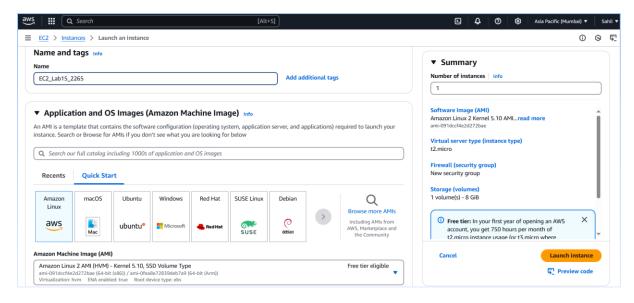
Name of the Student: Sahil S. Mandawgade PRN: 20220802265

Title of Practical: 15. Static Website Hosting on EC2 with Persistent

Access via Elastic IP.

Step 1: Launch an EC2 Instance with User Data.

- Open AWS Console.
- Go to EC2 Click on 'Launch instance'.
- Name the instance as 'EC2_Lab15_2265'.
- Choose Amazon Linux 2 AMI (Free Tier eligible).
- Choose **t2.micro**.
- Select **Key Pair**.
- Add a **Security Group** with following rules:
 - o **SSH** (Port 22) from Anywhere.
 - o **HTTP** (Port 80) from Anywhere.
 - o HTTPS (Port 443) from Anywhere.



• Under **Advanced Details**, paste the following in **User Data**:

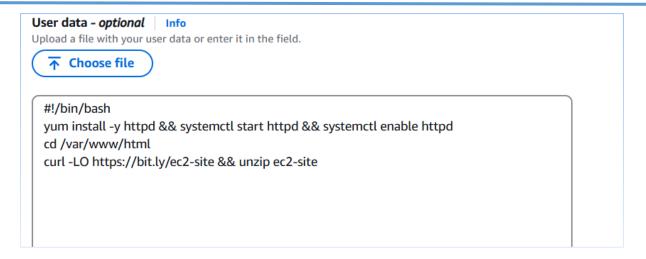


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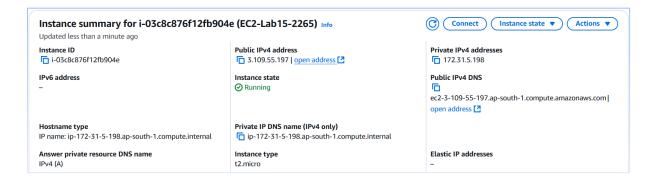
Access via Elastic IP.



• Launch the instance.

Step 2: Verify Static Website.

• Once running, copy the **Public IPv4 address** of the instance.



- Paste the **Public IPv4 address** in a new tab.
- You should see:

Apache Server is Running - Hosted from EC2

• The IP address here is: '3.109.55.197'

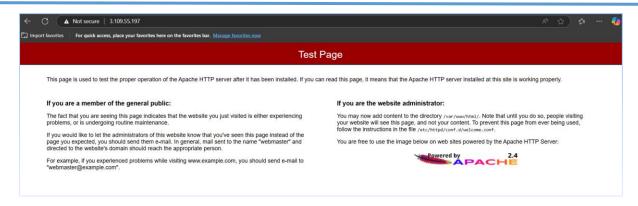


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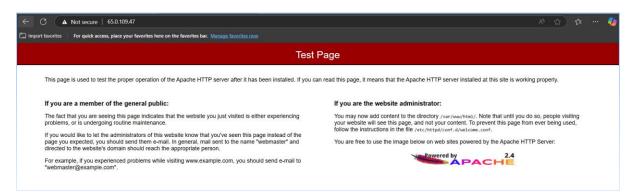
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Step 3: Stop and Start Instance to Observe IP Change

- Stop the instance.
- Start it again.
- Access the new IP in browser the page should still work, but the IP is different.
- The new IP address is: '65.0.109.47'.



Step 4: Allocate and Associate Elastic IP.

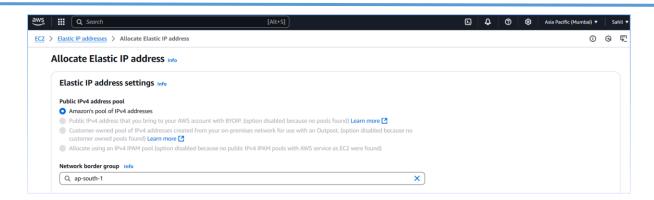
Go to Elastic IPs - Allocate Elastic IP address.



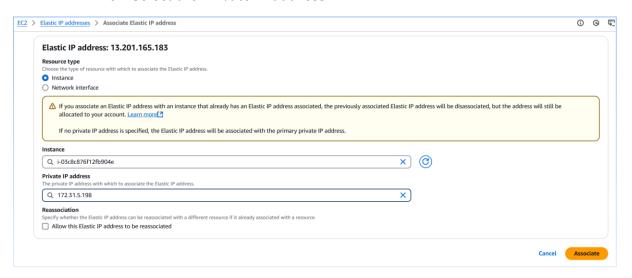
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- Click on **Associate Elastic IP** with the instance.
 - Select the instance we created.
 - Select the Private IP address.



• Open a new tab in the browser and paste the newly allocated IP address: '13.201.165.183'.

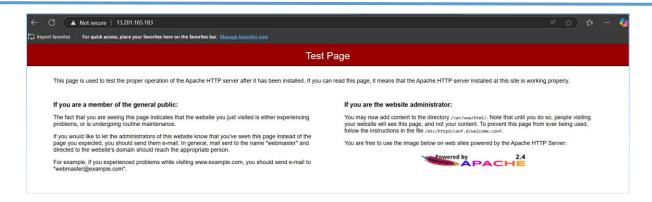


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Step 5: Stop/Start the EC2 Instance again to verify Elastic IP persistence.

- Stop and start the instance again.
- Visit the **Elastic IP** in browser.
- The website should still load IP remains unchanged.
- IP address is: '13.201.165.183'.

