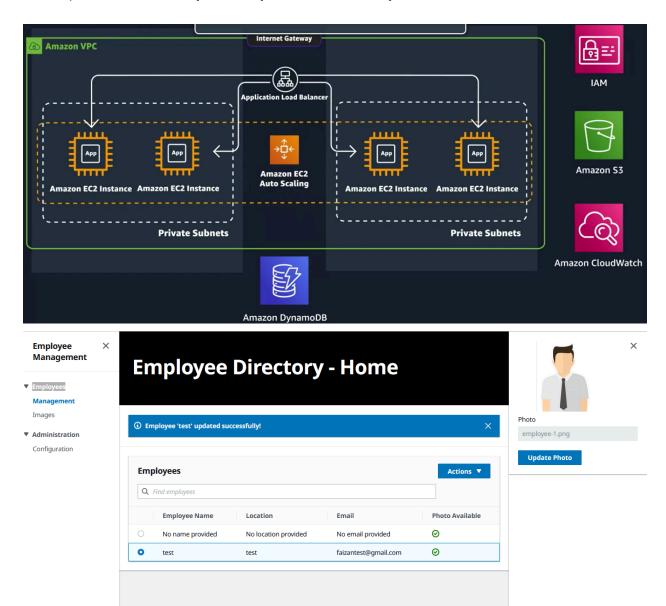
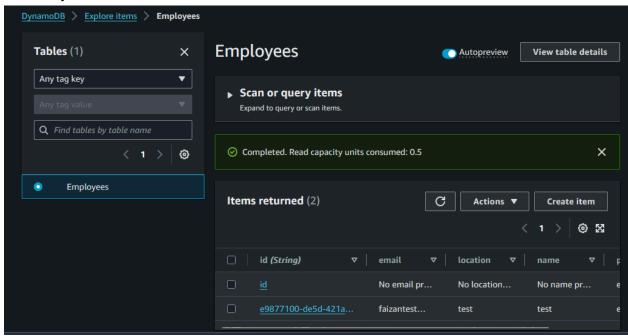
Project Outlook

In this project, I designed and implemented a highly available and scalable three-tier web application architecture using various AWS services. The architecture follows best practices for security, reliability, and cost-efficiency.

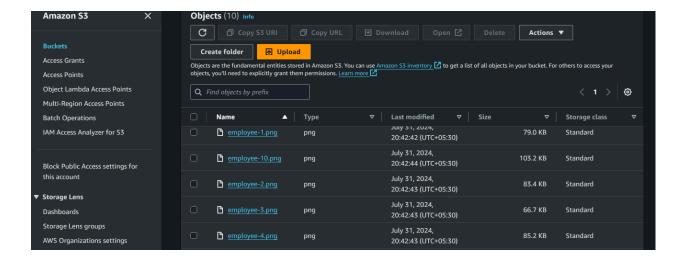


DynamoDB



S3-Bucket

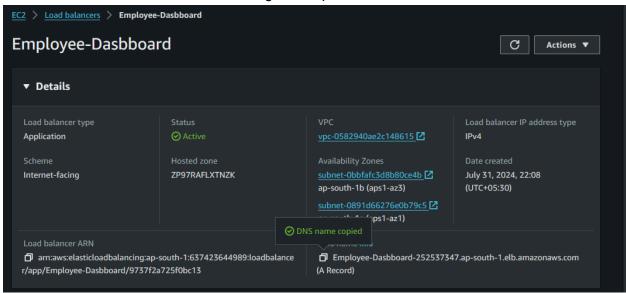




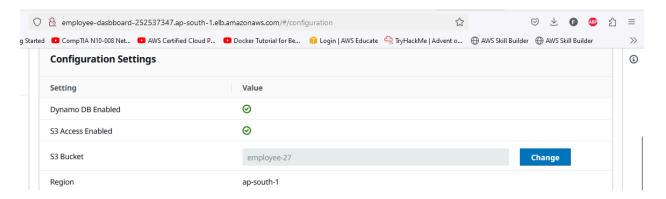
Both S3 and DynamoDB are enabled



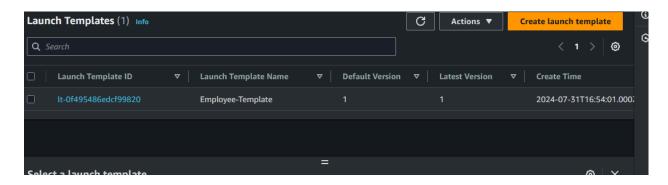
Created a Load Balancer and Target Group



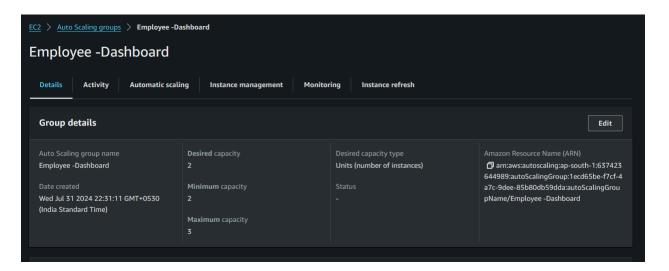
We can see the application has been opened in from Load balancer



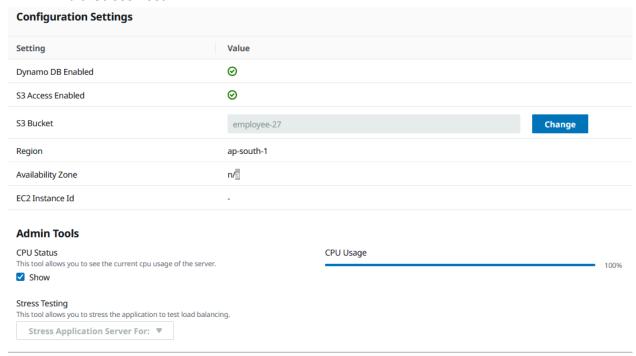
• Create a launch Template



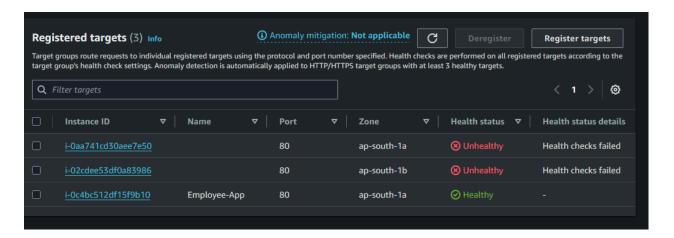
 Created a Auto-Scaled Group and added the instance we created at start and set Desired,minimum,maximum capacity and used Target tracking scaling policy



Did a Stress Test



 Healthcheckup was done using load balancer and AELB(Application Elastic Load Balancer). Screenshot when the Instance Scaled after stress test.



Conclusion:

- Create a EC2-Instance,S3 ,Dynamodb,vpc for the web-application
- Create an Application Load Balancer and Launch Template
- Set up an Amazon Elastic Compute Cloud (Amazon EC2) Auto Scaling group
- Launch a template
- Stress test a web application to validate scaling