

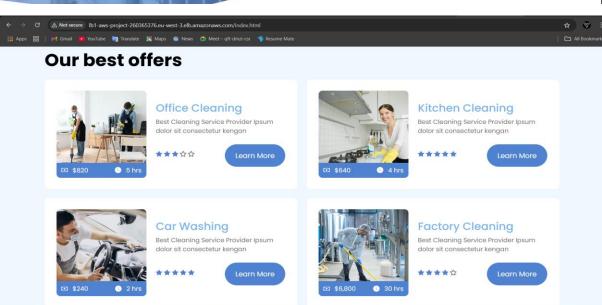
Project Overview

Website hosting on AWS by creating a custom VPC with Auto Scaling, Application Load Balancer, and monitoring using CloudWatch. Also integrates Simple Notification Service (SNS) for alerts and notifications. And also created Private Database.

Web server with Public IP & Load Balancer DNS

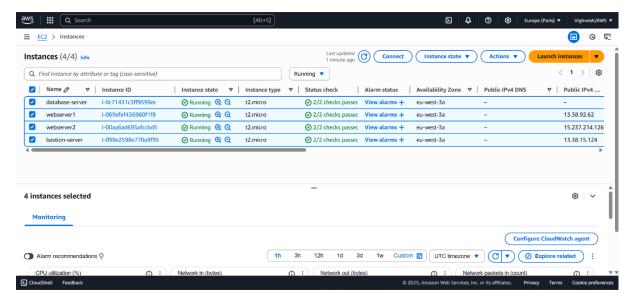
Deployed a Clean Work HTML template on EC2 with a public IP and integrated it behind an Application Load Balancer for high availability.





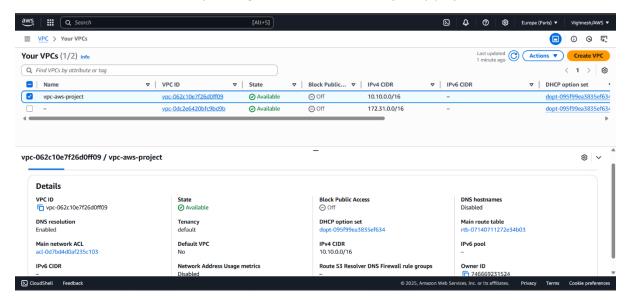
EC2 INSTANCES

Launched EC2 instances for the project using Auto Scaling to ensure high availability and scalability.



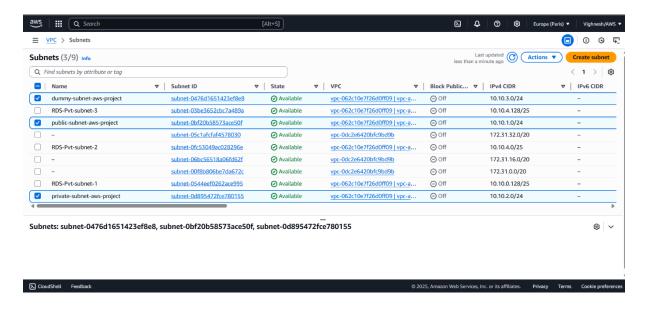
VPC

Created a custom VPC to securely manage and isolate resources for my project within AWS.



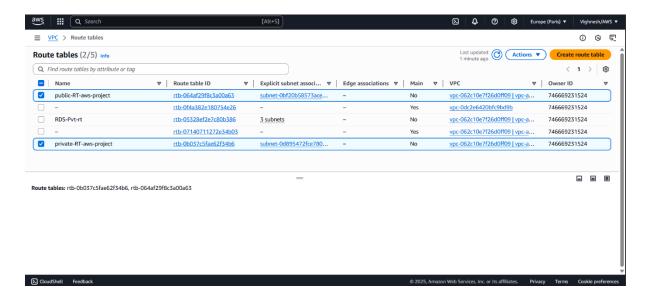
Subnets

Configured public and private subnets within the VPC to separate internet-facing and internal resources.



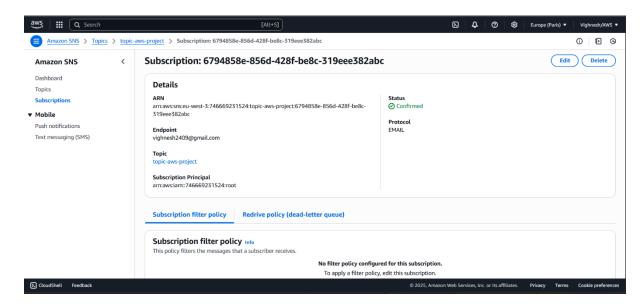
Route Tables

Created and associated route tables to control traffic flow between subnets and external networks.



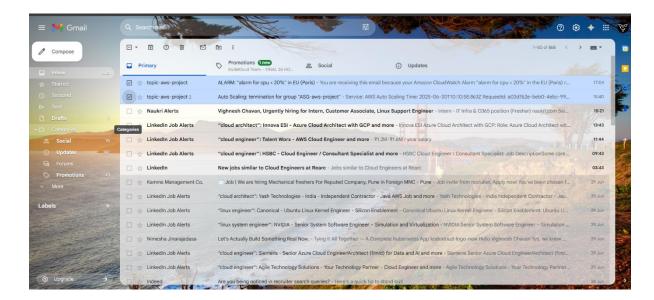
SNS

Configured Amazon SNS to send automated alerts and notifications based on CloudWatch alarms



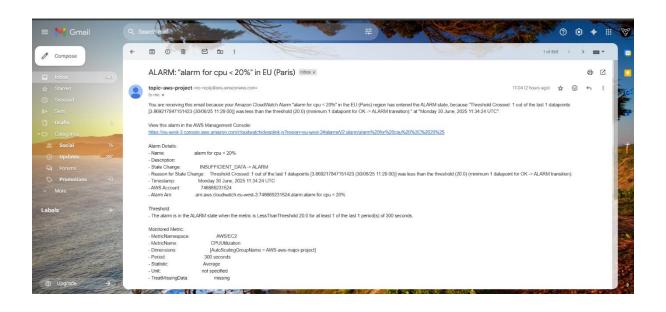
Email

email notifications for system alerts triggered by CloudWatch alarms



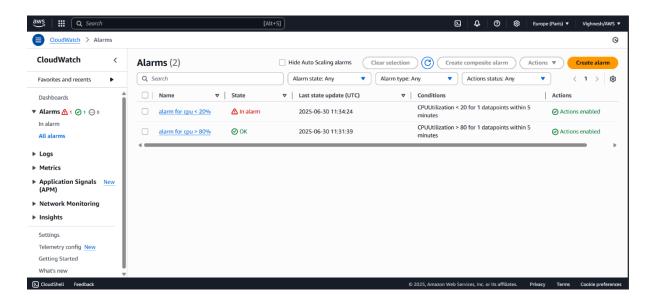
Email for Alarms

Received automated email notification via SNS triggered by a CloudWatch alarm when EC2 CPU utilization dropped below 20%.



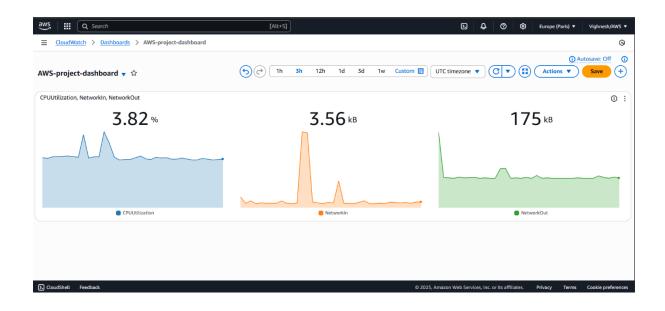
CloudWatch Alarms

CloudWatch alarm transitioned between 'In Alarm' and 'OK' states based on CPU utilization thresholds.



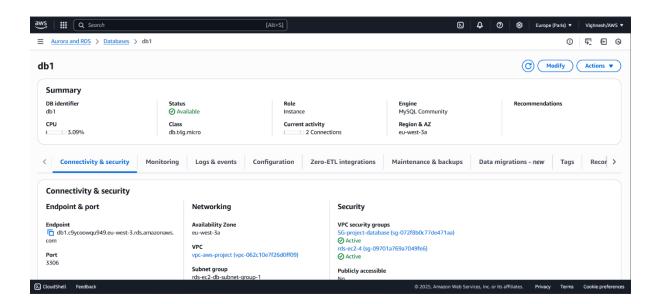
CloudWatch Dashboard

Created a CloudWatch dashboard to visualize and monitor real-time metrics of AWS resources in one place.



Aurora and RDS

Designed and deployed a secure database architecture using Amazon RDS and Aurora in private subnets to support high availability, scalability, and automated management for the project.



Databases

Created two databases, DB1 and DB2, on Amazon RDS and Aurora, and inserted structured sample data.

Db1

Db₂