

IMPLEMENTING AND ARCHITECTING CLOUD WEB INFRASTRUCTURES

Team Name

Cloud Titans

Team

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Project Guide

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Objective

The main objective of the project is to design and implement 1-tier, 2-tier and 3-tier architectures, along with load balancing to ensure application scalability through orchestration techniques.

Select the domain (s) where your solution can be implemented

Scalable Web Application Development

Describe how your solution is going to meet the program outcomes.

1. The project explores multi-tier architectures, leveraging AWS resources like EC2 instances, EFS and RDS to develop scalable web applications.
2. It begins with understanding the limitations of 1-tier and 2-tier and then progressing towards 3-tier architecture with load balancing and auto scaling for handling traffic spikes.
3. PHP is utilized for web application development, server-side processing and API development while EFS and RDS for storage and database.
4. High availability is ensured through redundancy in EC2 instances making this project a valuable guide for crafting robust, efficient and highly available web applications in multi-tier cloud environments.

Describe the engineering solution

Architecting scalable web apps on AWS for high availability

End Users / Stakeholders of the Solution

It provides developers, system administrators and businesses with scalable and reliable web application infrastructure on AWS.



Project Last Mile Experience |, Department of Information Technology, MVGR College of Engineering(A) A.Y.2023-24