

Project Proposal

Group – 18: -

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Problem statement

To implement a scalable Django application, Deploying it in AWS.

Features

- Scalability with respect to computation.
- High availability of computation.
- We will be using one-tier architecture in our application.

Test part

We achieve scalability with respect to computation by using CPU utilization. We will be using auto scaling in this application, this auto scaling is achieved with threshold-based algorithm. We will set a threshold range limit and when that limit is exceeded, we add a new instance to balance the load on CPU. We monitor CPU utilization by using Cloud watch. The application would be tested against increased concurrent requests from users, based on CPU utilization we perform auto scaling and provide high availability of computation.