**Model Solution:**

Hi Lilly,

Thank you so much for your email.

I have prepared an architecture diagram that illustrates how you can leverage more AWS services to improve your application's current performance, allow for future growth, and improve your deployment process.

It is based around Elastic Beanstalk which brings together HTTP load Balancing, application servers and database servers under one umbrella. After setting up these services using Elastic Beanstalk, they can be scaled independently. For example, we can increase the resources available to the database server without affecting the app server, and vice versa.

Please find a system architecture diagram attached to this email. I will explain these parts in detail and why they were chosen.

**Route 53 Hosted Zone:**

We will set up your DNS in AWS Route 53, AWS's DNS management system. This will allow your DNS to tie into the load balancer and make routing changes automatically.

**Elastic Beanstalk:**

Your application will be deployed to Elastic Beanstalk. Simple command line tools are provided to deploy your application. You may have to make a few small changes to your code configuration for it to work on Elastic Beanstalk but we can provide guidance on that.

We also consider Code Pipeline(more information to follow) which could assist with the deployment.

The Elastic Beanstalk environment is in three parts:

1. Elastic Load Balancer
2. EC2 Compute Instances
3. RDS PostgreSQL server

When we have a better picture of the number of requests you will be servicing, and the resources required for these we will work with you and use AWS pricing calculator(https://calculator.aws/) to get concrete pricing numbers.

Please let me know if you need any more information or assistance during the process.

Kind regards,

Moiz Zubair