GoGreen Insurance Company

A screenshot of a cell phone

Description generated with very high confidence

Problems with the existing application include:

On-premises performance and reliability issues occur.

The architecture is continuously overprovisioned to handle growth. This process has occurred three times in the last year.

Growing the architecture has become too expensive.  The procurement process takes 20 days.  Deployment takes a week.

The entire process costs in excess of $100,000.

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Environment

Infrastructure will be managed by members of the new Cloud Team.

All data must be encrypted in transit and at rest.

Infrastructure should be secured using a defense-in-depth approach.

Users should connect to stateless web servers.

A baseline for the number and type of instances needed should be established.

Recovery Point Objective for the application is four hours.  A user base that is expected to grow 90% in the next three years must be supported.

Documents and pictures must be kept for five years. However, these files are rarely requested after three months.  To enhance availability and lower cost, managed services must be leveraged whenever possible.

Web Tier

Architecture must be flexible and handle any peak in traffic or performance

Servers are currently at 75% of memory capacity all the time. This number must decrease to between 50% and 60% when moved to AWS.

Application administrators want to be notified by email if there are more than 100 “400 HTTP errors” per minute in the application.

All instances in Web Tier should be tagged as “Key=Name” and “Value=web-tier”.

Application Tier

Architecture must be flexible and handle any peak in performance Servers are currently at 90% of memory and CPU capacity all the time. This number must decrease to between 50% and 60% when moved to AWS.

Overall memory and CPU utilization should not go above 80% and 75% respectively, or below 30% for each.

Internet access for patching and updates must be available without exposing the servers.

All instances in Application Tier should be tagged as “Key=Name” and “Value=app-tier”.

Database Tier

The database needs consistent storage performance at 21,000 IOPS.

Internet access for patching and updates must be available without exposing the servers.

High availability is a requirement.

No change to the database schema can be made at this time.

Cost Considerations (optional)

The proposed solution must take into consideration all the technical requirements as well as the most cost-conscious financial options.

Typical cost considerations include:

Type of instances and payment models

Number of instances

Estimated monthly cost for the solution