

AWS Optimization



Quarem's industry leading lease management software comes from technology and people working together.

The Challenge

Quarem's web application architecture included a front-end web server which was directly accessible over the Internet. Due to this being a single webserver, they were leaving a business-critical application open to potential issues. The fact that the application was on a single web server, the likelihood for downtime, due to a server issue, was very high. The server environment was not easily scalable to meeting the growing business needs. There was also a possibility that the server could have been over-exposed through configuration mistakes. For all of these reasons, Quarem knew it needed a change.

The Solution

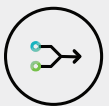
Quarem, with the help of AWS and Innovative Solutions, created an EC2 Auto-Scaling Group for the webserver and launched at least two servers in multiple availability zones. An Application Load Balancer was set up to direct traffic to the Auto-Scaling Group and to terminate SSL traffic. Quarem migrated their DNS to Route53, to be able to send their traffic to the load balancer in the zone apex record. With these changes, Quarem was able to build a more secure and scalable environment both internally and externally for their customers.

The Benefits



A MORE RELIABLE SOLUTION

Today, Quarem's web application is significantly more reliable as it can automatically replace failed instances and can scale to meet incoming demand if traffic suddenly increases.



SIMPLIFIED OPERATIONS

Updating the web server is simple, only the backup image needs to be updated for the Auto-Scaling Group. The SSL certificate will automatically renew each year, now that it is set at the load balancer.



BETTER VISIBILITY

In using the Application Load Balancer, Quarem can better understand their total traffic volume and error rate through CloudWatch dashboards.