



SECUREKLOUD

Delivering Cloud Excellence With Trust

Cloud Management Made Easy for a Leading Life Sciences Company

www.securecloud.com



200+

SAP Systems Migrated
in 7 months

\$400,000+

Saved on annual
maintenance

↓ 60%

Database Size

↑ 30%

Business applications
performance



About the Client

Our client is a leader in clinical technology with thousands of people working towards the same goal: using the latest technology to help the life science industry bring life-saving new treatments to the public.

Business Challenge

The major challenges they faced were:

- » Frequent DoS attacks
- » Infrastructure not being highly available
- » Application not being highly available

Before coming to SecureCloud, our client's solutions page and blog – located in a hosting provider's data center – were facing issues regarding the uptime of applications as there was no high availability built-in.

With the goal to design a highly available, low latency, reliable, and flexible infrastructure, the client decided to move their applications from the hosting provider to Amazon Web Services (AWS).

After the complete infrastructure went into production, it was brought under the managed services of SecureCloud. Our 24x7 monitoring and support identified and eliminated multiple DoS attacks and increased the uptime of the application, thereby providing improved performance and delivery.

As a part of our managed services, SecureCloud does a periodic review of the infrastructure. With the results from the review and the history of incidents, our managed services team identified the issues listed above.



Our Solution

SecureCloud is a cloud solutions provider that consults, implements, and manages services for our customers. Security, reliability, and performance are the three key goals that we set forth during any phase of operations.

We designed a highly-available architecture on AWS that will provide a secure and robust user experience. This solution used a large array of Amazon Web Services (AWS) products including:

Amazon VPC

to create secure application infrastructure

Amazon EC2

to run front-end web servers

Amazon CloudFront

to deliver static content to end users with low latency

Amazon S3

to store static content and backups

Amazon RDS

for centralized scalable database infrastructure

Amazon CloudWatch

to monitor their AWS setup closely

AWS Elastic Load Balancers

to distribute incoming requests to Amazon EC2 instances

AWS Simple Notification Service (SNS)

to send notification alarms

Our Security Solution

As the application was exposed to frequent DoS attacks, our managed services team suggested that the application be front ended by Unified Threat Management (UTM) to keep the application secure at all times. This improved the performance of the application by avoiding the frequent DoS attacks that brought down the performance, thereby providing improved security.

Business Outcome

Our **cloud managed services** helped the client witness the following business benefits almost immediately:

>> Infrastructure and Application High Availability

Spreading the infrastructure across multiple availability zones provided high availability during any hardware failure in any of the nodes, or in the case of availability zone failures.

>> Low Latency

With CloudFront distribution, they achieved low latency delivery of static content by caching resources at multiple edge locations. This further improved performance of the whole infrastructure, as it offloaded static content delivery from instances.

>> Improved Security

The application was front ended by a UTM application to avoid DoS attacks. This had a positive impact on the performance of the application and improved security.

>> Better Performance

The application load was distributed to multiple instances placed under an elastic load balancer, which resulted in load sharing and improved performance of the whole infrastructure.

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SecureKloud is a cloud-native company with a comprehensive suite of platforms and services uniquely architected on strategic innovation to primarily solve challenges around cloud, data analytics, blockchain, and enterprise security, thereby driving digital transformation to enterprises worldwide.

For 14+ years, SecureKloud has led the way in delivering cloud excellence with unwavering security and trust. Singularly focused on powering digital transformation, our automated cloud platforms have helped 350+ global enterprises including Fortune 500 companies stay ahead of the growth curve and outlast their competitors.

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