



AWS Cloud support and optimization for a US-based wealth management technology firm





The Challenges:

1. Migrating around 3 TB of data through AWS via the internet
2. Scaling up DB with daily incremental size of 30GB
3. Application performance issues and large volumes of data
4. Availability, security, and encryption for data storage
5. Data backup and recovery in the event of lost tapes and disks
6. High disk cost and long data transfer time
7. Security concerns with regards to data and encryption of data at rest
8. Monthly patching of both Windows and Ubuntu servers

The Solution:

The client needed help with managing all their servers and applications. Aspire provided continuous support and monitoring of their infrastructure

About the Customer

First Rate is US-based fast-growing, innovative financial technology and service provider in the wealth management industry. Their purpose is to build technology to serve each unique marketplace and have been experts in the field for over 30 years. Our client creates innovative solutions and service sets to meet each firm's individual needs. The organization processes over 1 billion returns daily for more than 450k accounts across the globe and has an Asset Under Management (AUM) of more than 1.5 trillion.

Our client is a firm believer in community growth and holds business to the highest of standards. They deliver critical reporting, trust accounting, or portfolio management systems to eliminate the uncertainty. They bring lively investment stories into existence by translating complex data into a comprehensive vision with the help of customizable tools for individual requirements.

The Need

The client requested for continuous monitoring and support for their infrastructure. As their business expanded, they needed help with server and application management, because their average response time of a web server was 1.03 seconds. They were also looking for highly reliable, available and secure storage solutions which required migrating about 3TB data from on-premises to AWS cloud. This proved to be a challenge as it had to migrate to AWS via the internet. Other challenges included backup and restoring in case the tapes or disks were lost.

Aspire systems implemented continuous AWS cloud support, monitoring, and services which increased the customer base and client satisfaction with time.



The Results:

1. Cloud server support with zero downtime
2. Production downtime reduced to 15 minutes, improved by 40%
3. Average response time for a web-server cut to 0.41 sec from 1.03 sec (60% improvement)
4. Technical product issues resolved
5. Daily AMI backup
6. DB (MSSQL) migration using AWS DMS in 8 weeks
7. Migration of 2 database server clusters consisting of over 10 databases of 3TB made easier with AWS snowball solution and EC2 instances
8. Enhanced availability and security
9. High-speed data transfer cost reduced by 1/5th due to AWS snowball solution

Aspire's Solution

Aspire experts formed our own support team and collaborated with the contractor of the client. We evaluated every minor issue at the root, whenever one arose, and it was thoroughly researched, documented and best possible solutions were derived. Our team sent them over to the client's side to sort out the issues quickly, giving the client a reduced turnaround time.

Since, migrating about 3TB data through AWS via internet was a challenge, we proposed AWS snowball as a solution. By transferring the data with snowball, the migration became fast, simple, more secure and took only one-fifth of the cost of transferring data via high-speed internet. We were able to migrate two applications from an on-premise data center to AWS in a span of mere 8 weeks. This also helped the client to auto-scale their operations and reduce low time by 40%. Downtime for the production cutover was dropped to only 15 minutes as static data migration of approximately 5TB was made possible with the AWS snowball solution.

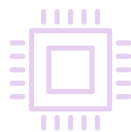
With our expertise in proactive monitoring, storage and knowledge management we have been able to assist the client in taking a step forward towards the digital transformation of their business. Aspire has also been elemental in its growth with the support of 3-tier security architecture, firewall management and ongoing patching and maintenance on a regular basis.

Best Practices Followed

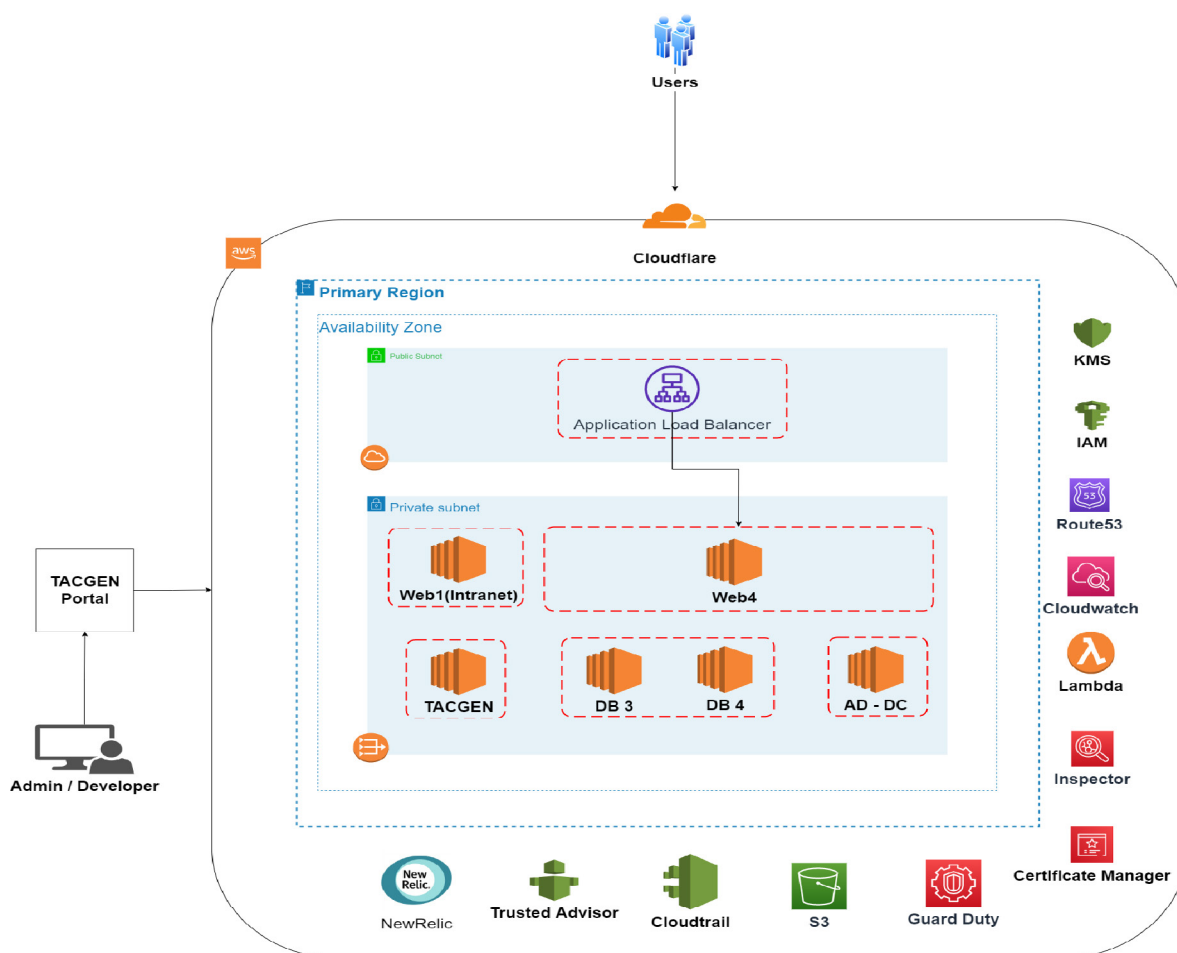
1. Data protection and key management
2. Network, application, and governance security with 3-tier architecture
3. Patching, maintenance and firewall management



Technology Snapshot



- » **Technology used:** AWS Cloud, Cloudflare
- » **Platform:** Windows 10, Ubuntu
- » **Languages:** Java, Dot Net





Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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