

Migration of a highly demanding web-portal to **Applogic cloud platform.**

A definitive case study by



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A leading service web service provider was struggling to handle heavy traffic to their web-portal. After a series of massive email campaigns and marketing, the portal experienced several hundred thousand hits during a very short period of time. The infrastructure employed to house his server was from the world class leading Tier-1 data center, and yet it failed to withstand the heavy amount of traffic and the service failures started affecting the business adversely. Needing to find an effective solution, the customer turned to Sparksupport for help.

Challenges Faced

- ❖ Identification of a superior server solution to tackle the ever demanding web-portal.
- ❖ Ability to implement the portal as a more efficient N-tier web app on the infrastructure.
- ❖ Migration of the portal without any significant downtime to avoid loss of business.

The portal demanded a far superior solution to existing infrastructure. Rapid scalability with high efficiency and special critical times were mandatory for its success. Even the significant capital expense spent did not turn favorable and the operating costs were running high.

On top of the inadequate infrastructure, the setup for the portal was a regular web server. This setup had started failing often as the portal received heavy load. Load balancing and performance tuning on this setup could only do so much and started affecting the business.

Once the solution is identified, the migration was required for the effective solution, with the least amount of downtime avoiding loss of business.

The Solution

After a thorough research and in-depth feasibility study our engineers came to a conclusion that **Applogic from 3tera** was the most appropriate cloud solution. Rapid scalability, fault tolerance, easy backup/snapshots, lower operating costs, efficient use of resources etc were analyzed. We identified one of the best data center to implement the solution.

Applogic was installed to form a cloud grid out of which now the most efficient use of resources could be utilized. Applogic comes with ready made appliances like load balancers, web servers, database servers in its catalog. We specially customized the appliances to support the hosting control panel over multiple servers. With these appliances an N-tier application was designed which could handle the demands better than the original infrastructure. This N-tier application was then built and the migration was performed from the existing infrastructure to the Applogic cloud. A set of practices specially designed from our years of experience were employed to minimize the downtime during the migration. Finally the application was thoroughly tested under heavy loads and critical situations. The new infrastructure excelled in every tests.

Applogic also features advanced monitoring system to manage each of the appliances of a created application. We customized the monitoring system accordingly to create an in-depth surveillance which enabled the careful monitoring of the application anywhere around the world with the use of a simple web browser. The life-cycle management of the application is performed routinely by a team of cloud technology experts at Sparksupport.

FINAL RESULT

The new cloud infrastructure has exponentially increased the performance of the portal and its services offered.

The application performs excellently under heavy load and performs all services flawlessly.

The previous infrastructure would fail often when there was heavy load which required unnecessary reboots to get server working. This caused many unpredictable errors which ultimately affected the business.

Each components(load balancers, web servers, database servers etc) are delegated resources.

The new cloud infrastructure allows more efficient utilization of resources. Since it is a virtualized platform, the delegation, reusage of the resources mainly like CPU power, RAM, storage, IPs etc have turned out be more easier and manageable.

Archival and backups of data has turned significantly easier and faster since cloud uses snapshots.

The backups were an integral part of the critical web application. Applogic cloud allows for easier archival of the applications data by the way of snapshots. Any fear of data loss from unprecedented hardware failures have been avoided thereby for the client.

Hardware failures are irrelevant as the data/services are centrally placed in the cloud grid.

If the hardware failed in the previous infrastructure setup, the web-portal will go down imminently. The new system in place removed this threat completely as the data/services are centrally available in a cloud grid and if one one fails, another similar instance will take its place.

The costs were cut by almost 75%.

The capital costs were converted to operating costs by eliminating requirements to procure new hardwares. Instead of purchasing more elite class servers, a set of normal commodity servers at a fraction of costs were converted to a powerful computing platform using the Applogic cloud. This resulted in saving almost 75% of the capital according to the calculations and, which in turn was invested in the development of the clients online business.

After the deployment of websites into Applogic there has been steady upward increase in the revenue from the portal. Sparksupport has enabled him to stand out in the crowd in this fierce and unforgiving arena of online business.