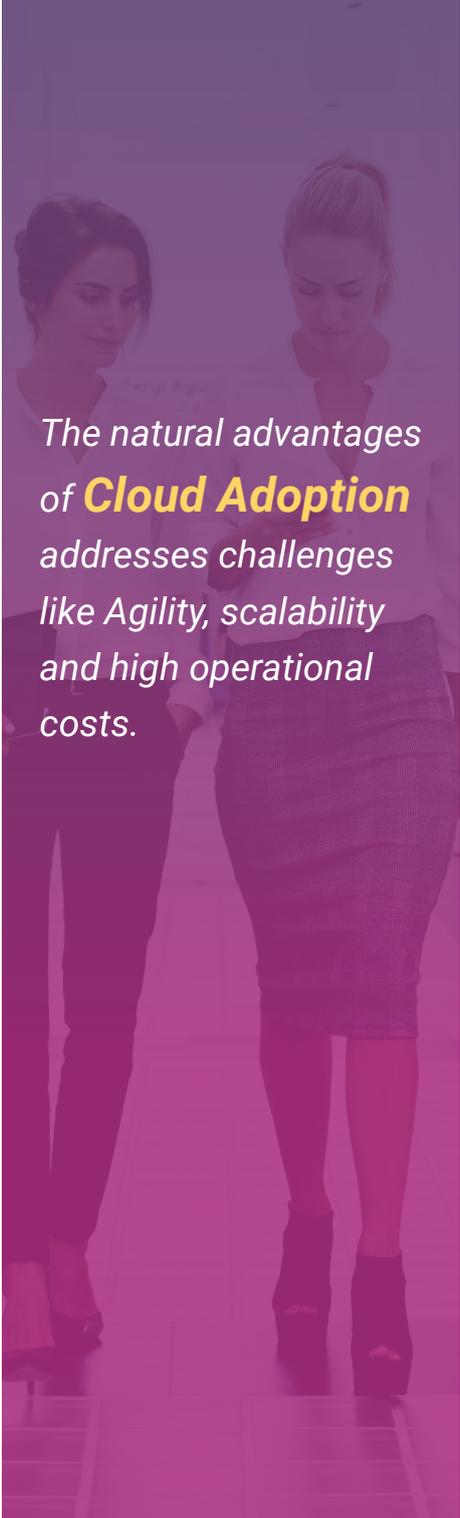




How Cloud Migration strategy helped an organization to add \$35+ million to its vault





*The natural advantages of **Cloud Adoption** addresses challenges like Agility, scalability and high operational costs.*

Introduction:

Organizations are looking up to Cloud as a positive step in overhauling their IT infrastructure. Although, cloud adoption is a continuous journey and requires a deeper impact analysis of their current IT provisioning, has a lot of natural advantages. The natural advantages of Cloud Adoption addresses challenges like Agility, scalability and high operational costs. Having a roadmap and getting expert consultation on cloud adoption strategy based on the IT real estate is a foolproof method for an effective and successful Cloud journey. The Cloud partners help enterprises frame their Cloud adoption Strategy that may range from a simple lift and shift to a complex Cloud Re-engineering solution. So, it becomes imperative to choose the right cloud service providers to cater to infrastructure needs and right cloud partners to channelize the cloud journey.

About the Customer:

Our customer is a U.S. based leading K12 learning and assessment service provider to school and corporations with branches across the world. This organization owns multiple channel media brands. They are a leading provider of online learning solutions to the K12 segment.



Bottlenecks:

When a strategic move happens within an organization, they feel the heat to match up with existing infrastructure capability and new demands generated due to the move. Similarly, when organizations move into new business arenas, they aspire to expand and therefore, limited infrastructure capability can seriously underwhelm the brand value of the enterprise. Here is a story of an organization which had limited infrastructure capability and hence, faced severe performance issues through multiplicity of applications and overridden operational cost. Many of their applications were still running from on premise data centers, which faced many issues such as, upfront hardware and software cost, difficulty in capacity building and deployment, required dedicated resources for maintaining the data center. They felt the need to migrate to a cloud-based data center, which would reap them far-reaching business returns.

Load spike during Covid times

During Covid19 times, the demand for e-learning had increased and people flocked to Edu-tech platforms for their curriculum. Our customer being an industrial leader in Edu-tech, users using our customer's platform had increased up to 200%. Due to the load spike, the servers were to be prepared for the increase in demand.

Pain Points:

- Scalability
- High License Cost
- Cost of operations
- Wait time for infrastructure procurement
- Performance issues
- Inefficient Resource utilization
- Lower economies of scale
- Less availability of servers and machine up-time



Tightly Coupled applications

Lack of clear documentation

High volume of data

Challenges faced:



Cloud Migration – Application, Database and DevOps migration strategy

Through the migration strategy, how we helped our customer save \$35+ million over three-year period?

1. Reducing Data center Operation cost:

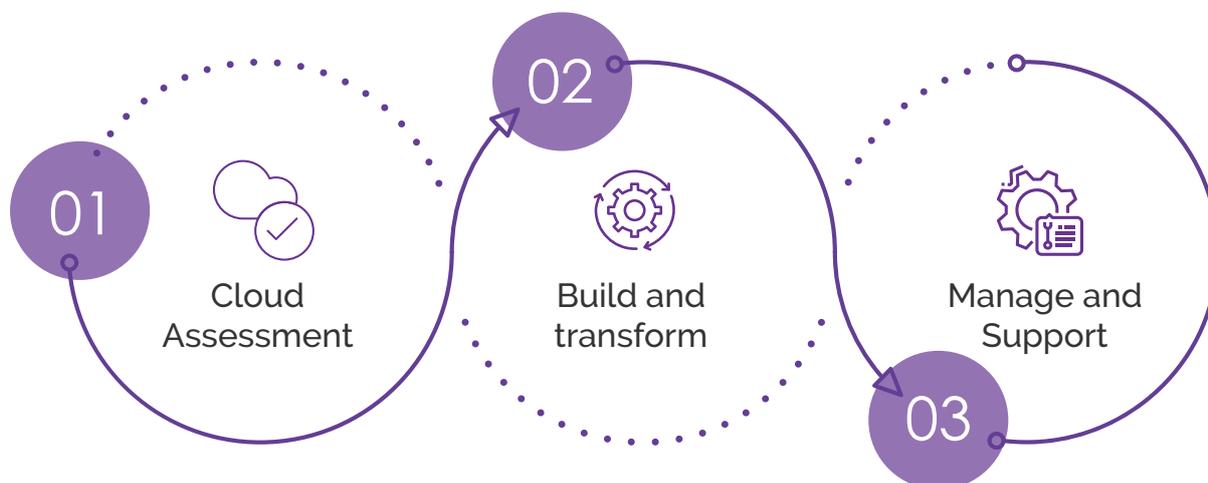
- About 14 applications were migrated
- About 9 applications were Re-Architected
- Eliminating datacenter maintenance and support cost

2. Database migration to Aurora PostgreSQL eliminated 67% of licensing cost

- 2,233 DB objects were migrated
- More than 10+ TB data were migrated

The customer partnered with Aspire Systems for leveraging the right Cloud Adoption methodologies and roadmap. Aspire's Cloud Architects came up with Cloud Re-engineering solutions on the bedrock of 6Rs (Refactor, Re-platform, Rehost, Repurchase, Retire and Retain)

Aspire's time tested approach, ACME (Aspire Cloud Migration Enabler) was at the heart of the solutions offered to the customer. Aspire followed a three-step process to reduce the dependencies and fast-track project completion.





Success Story in detail

Cloud Architects at Aspire had an in-depth understanding of the existing environment which helped them assess better. The solutioning was rooted in reducing the business impacts and for this they have framed a roadmap that was a precursor for a successful migration. Aspire decided to migrate to AWS, which was powered by the use of technologies Amazon EKS, MySQL, Jenkins, and Amazon Aurora PostgreSQL. Solution Architects at Aspire adopted a pragmatic approach to ensure smooth migration to AWS cloud.

1. Application migration: 47 of Microservices were containerized. End to end Infrastructure and CI/CD was automated. The cloud related changes were done to make sure all applications were ready for cloud deployment/ enablement. Internally built publish/subscribe systems was re-architected based on AWS Kafka. Other cloud related enhancements like log changes, queue related changes and Java development kit changes were in place. WebLogic was replaced. Oracle to Aurora PostgreSQL related query changes were done.

9 applications were Re-Architected to a cloud first Architecture.

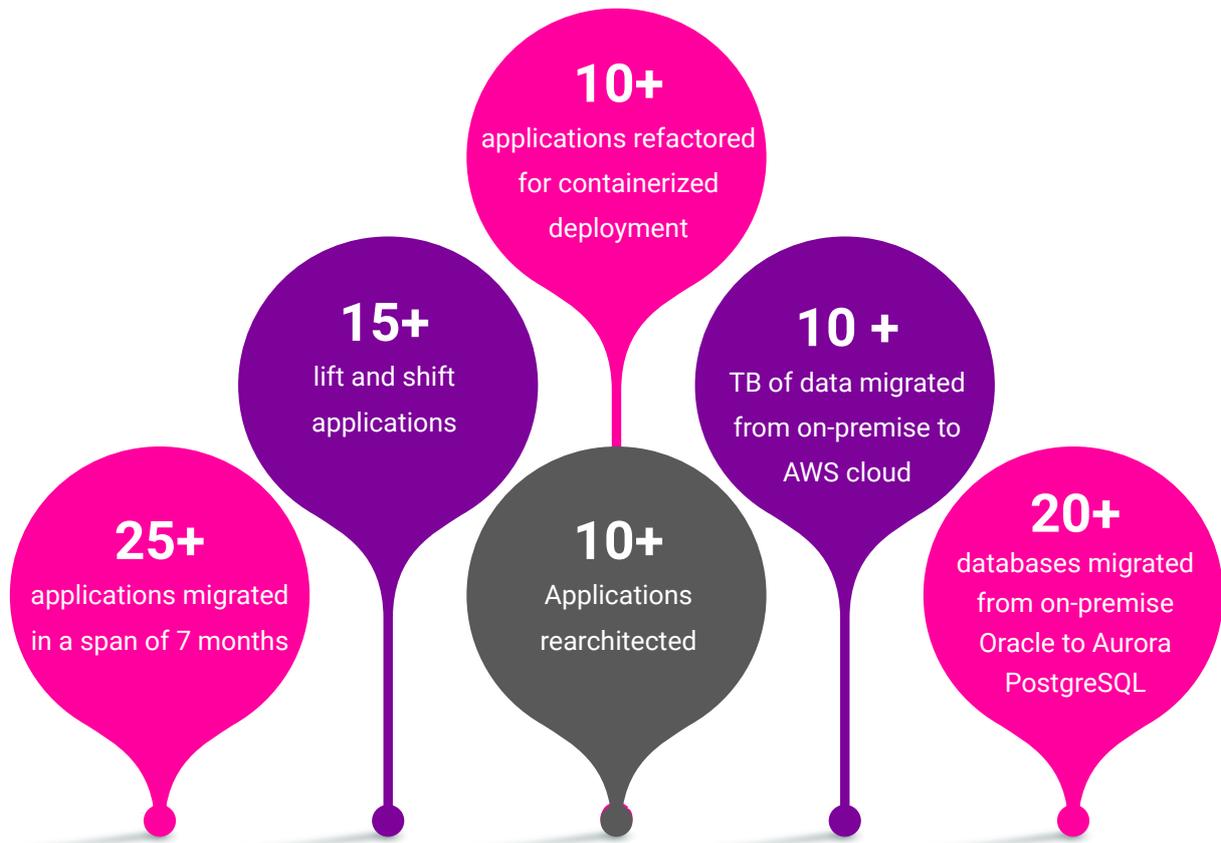
2. DB migration: Oracle was re-platformed to Aurora PostgreSQL where Stored Procedures were migrated. Further, Data migration services was used to synchronize data from Data center to AWS.

3. Testing approach: Automated Regression, Performance Testing, Data Migration Testing were done to ensure the error free migration to AWS cloud.





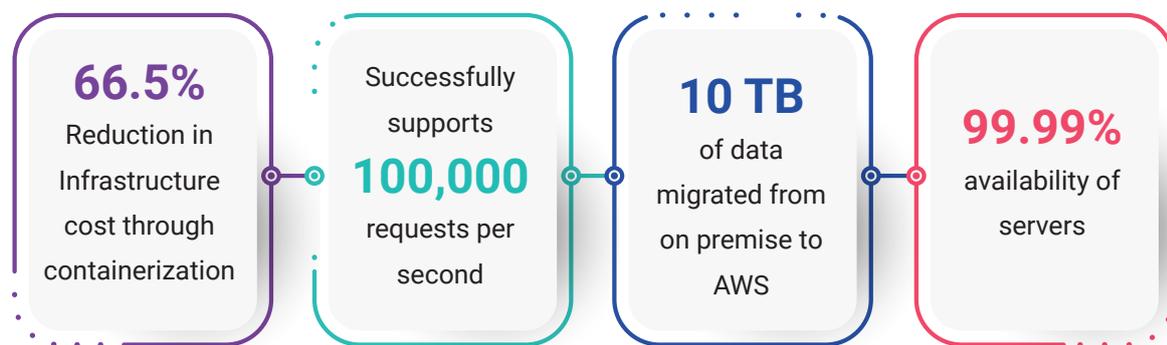
Highlights:





Business Benefits:

ACME being our philosophy in implementation of the mammoth task, we helped the customer achieve better scalability support up to 10x, portability, Cost, CI/CD through containerization and ensured **99.99%** availability and scalability.



Faster adoption

As the cloud adoption was done within a short window period, a great amount cost savings was possible for our customer. The quicker cloud adoption led to savings of **\$35+** million dollars and on the whole **\$55+** million dollars (including the licensing cost savings) were saved through our migration strategy.

In addition to this, customer saw an increase in speed and agility after migrating to AWS as resources were better used to grow profits for the business. There was a macro reduction in operational cost with dynamic scaling. The new Cloud Environment supports 100,000 requests/second for certain micro services and has the capability to support data volume of 3 billion records. Higher performance was possible in spite of accessing the application from different geographical location. Reduced business and operational risks by migrating to a more resilient and secured IT environment.





About Aspire



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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