



Metrics Driven Performance Testing Enabled Zero Performance Problem while migrating a leading US-based Online Education Application to Cloud



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Challenge:

- *Meet the existing baseline performance SLA, post the migration of enterprise software to an open source version*
- *Test 7 complexly architected applications with various integration points that affects the overall performance*

Solution:

- *Assessment of lower environments to identify issues at the earliest, thereby reducing infrastructure cost*
- *Implemented "Isolate and Identify" approach to find the performance bottlenecks*

Results:

- *Migrated complex on-prem to new SaaS based with zero performance problem in under 3 months*
- *Conducted 270 rounds of performance testing*
- *2000+ DB objects were assessed for its performance*
- *Uncovered the application's degradation and breaking point and provided customer satisfaction on speed, stability & scalability*

About the Customer

- Our customer is one of the largest education companies in the world that specializes in offering personalized learning solutions for students belonging every age group
- The company has 40,000+ employees with footprint over 70+ countries across the globe. They also help institutions in designing educational products and services that aids learning



The Need

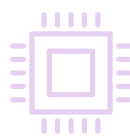
- The client wanted to migrate 8 database, 22 in-house datacenter products that are about 10+ TB in size and 30 applications from On-Premise to Cloud
- The migration should not impact the performance of the live application
- The cloud environment should be able to scale up based on demand without causing performance degradation



Aspire's Solution

- Accommodated new business flows to increase the coverage of the performance areas
- Maintenance of existing scripts maintenance were done to ensure that they are in suitable condition for the performance test
- Implemented an incremental based execution approach to understand the degradation and breaking point of the application
- Tests were developed/updated & performed at lower environment before the actual execution to detect the performance issues at the earliest and also save the cost of test machines
- The process was consistently monitored, documented and reported with various team across the application
- Implemented "isolate and identify " approach to find the performance bottlenecks across each layer
- Captured and reported key performance metrics continuously to uncover any performance issues or degradation trends

Technology Snapshot



- » Load Generating Environment: JMeter
- » Cloud Platform: AWS on-demand
- » Monitoring Tool: Data Dog



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