

Testing Costs Cut by 70% with Azure Load Testing Automation for Global Document Management Company

Industry

Enterprise Content Management

Business Presence

Worldwide

HQ

United States

About the Client

Our client is a company with \$100M annual recurring revenue, who provides intelligent document & information management platforms. With over 1000 employees in 11 different countries, the client provides these management platforms to help businesses streamline operations, enhance collaboration, and maintain regulatory compliance. Aside from intelligent document management, the client offers capabilities such as workflow automation, compliance support, AI-powered search, and seamless integrations with widely used business platforms such as Microsoft 365, Salesforce, and SharePoint to their users. These features empower organizations across industries like legal, financial services, manufacturing, and professional services to manage content securely and intelligently.

Business Challenges

The client needed a reliable way to validate the scalability and performance of large object vaults containing millions of documents. Further, they want it through automated, repeatable testing that reflects real production usage.

- ▶ No visibility into performance trends across test runs, limiting insight into regressions and improvements
- ▶ The test environment did not mirror production-scale data, causing results to differ from the real user experience
- ▶ Lack of a unified, automated test setup made CI/CD execution across vaults slow and manual

- ▶ Heavy manual effort for test data preparation blocked full pipeline automation
- ▶ Absence of server-side monitoring made root-cause analysis time-consuming
- ▶ No clearly defined, measurable performance targets to assess system reliability
- ▶ Dynamic metadata differences across vaults caused frequent file upload failures.
- ▶ Permission changes in one test affected parallel scenarios, reducing result reliability
- ▶ Load generators ran into memory limits under high concurrency, disrupting test runs
- ▶ No consistent strategy to manage test data when switching between vaults

Aspire Systems' Approach

Aspire assessed the customer's data and scalability needs and recommended migrating to a modern data lake architecture on the Databricks Lakehouse Platform. This approach unified data storage, automated ingestion and transformation, and improved overall processing efficiency. Here is what we did in a more in-depth review:

- ▶ Integrated performance testing directly into CI/CD pipelines for automated, repeatable execution
- ▶ Enabled real-time test monitoring through a centralized dashboard with run comparisons and failure insights
- ▶ Automated test data preparation within the pipeline to eliminate manual setup
- ▶ Adapted dynamically to vault-specific metadata by reusing existing object structures
- ▶ Leveraged cloud-native load testing to scale concurrency and monitor server-side metrics
- ▶ Defined core user scenarios to align tests with real-world application usage
- ▶ Established clear, measurable performance objectives for response time, throughput, and concurrency
- ▶ Designed realistic workload models based on expected user behavior and transaction patterns
- ▶ Simulated secure, browser-like, encrypted file uploads for accurate performance validation

Business Benefits

The CI/CD-integrated performance testing framework delivered measurable gains in stability, speed, cost efficiency, and confidence, while enabling scalable, production-like testing across vaults.

Key Benefits



Automated test execution, data preparation, and vault updates reduced manual effort by 75–80%.



Faster performance feedback results cut from 2–3 days to 2–3 hours (80–85% faster).



65–70% monthly cost savings, reducing total testing costs from ~\$3,500–3,950 to ~\$950–1,150



~\$2,500–2,800 saved per month through cloud-native load execution and CI/CD automation



~70% annual cost reduction, saving ~\$30,000–33,600 per year compared to on-prem setups



480–540 engineering hours saved annually (12–13.5 weeks) through automation and reduced rework



Improved test stability and security by simulating encrypted, browser-like file uploads



Higher test reliability through consistent execution across multiple vaults with zero manual configuration



Faster root-cause analysis enabled by real-time dashboards, server-side metrics, and detailed error logs.



Better performance insight with side-by-side test run comparisons and trend visibility



Scalable high-concurrency testing without load generator failures using cloud-based load engines



Increased stakeholder confidence through continuous monitoring, visual reporting, and repeatable results

Technology-Driven Value

- ▶ Automated CI/CD execution using TeamCity triggered performance tests on every build.
- ▶ Elastic load generation via Azure Load Testing, eliminating on-prem infrastructure costs (\$18,000–24,000 saved annually)
- ▶ Centralized version control with GitLab for scripts, data, and configurations
- ▶ End-to-end visibility using Azure Application Insights for real-time performance and bottleneck tracking
- ▶ Sustainable adoption supported by post-implementation training and knowledge transfer

About Aspire Systems

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.

For more info contact:

info@aspresys.com or visit www.aspiresys.com