

Assuring latest technology adoption for Southeast Asia's largest bedbank provider for future readiness

About the Client:

- Is Southeast Asia's largest bedbank provider in B2B market segments
- Offers hotel availability and appropriate deals to customers at more than **350,000** hotels worldwide
- Has a wide user-base supporting **8000+** travel agents, **15000+** frontline bookers with **5000+** daily bookings
- Provides real-time availability and inventory management

Business Needs:

- Assure system improvements for 20 million+ cache reads & 4 million+ cache updates per minute
- Confirm new application design, technology stack, and integrations for high-performance, reliability, and cost optimization
- Assure data storage optimization for 2TB plus data at rest
- Confirm integrated deployment for flexibility to cater ever-changing business requirements



Solutions:

- Defined and implemented non-functional quality attribute assurance engineering practices covering processes, strategy, gap analysis, tooling, scripting, execution, data analysis, and profiling
- Supported architectural decision making by evaluating multiple stacks and confirming apt option based on business KPI achievability
- Analyzed, defined and successfully implemented metrics covering infrastructure, solution, and business success metrics
- Executed cloud test spectrum – configuration testing, performance testing, scalability testing, and resilience testing
- Defined and built on-demand cloud-based geo scalable load generation test lab and data generation framework
- Confirmed new application design, dependency and deployment to have optimized cost (Capex & Opex) for expected performance

Technology Stack:

Test Engineering Stack	Application Technology Stack
Amazon EC2 Instances Cluster Amazon CloudWatch Grafana Apache JMeter™ collectd VERTICA influxdb	cassandra Couchbase Microsoft .NET DB instance cluster Amazon CloudWatch amazon web services Amazon S3

Business Impact:

- Achieved the application's NFR/KPI's through assured technical capability of the stack
- Designed a better deployment strategy and optimized infrastructure provisioning
- Derived best practices for monitoring application and cluster health
- Acknowledged the key NFR constraints and defined adequate risk mitigations
- Achieved better predictability about application sizing and its responsiveness
- Improved application scalability, availability, and readiness for anticipated failover cases

Cybage Cloud Test Engineering Services

- Test Architectural Consultancy
- Interoperability Testing
- Optimization Testing
- Resilience Testing
- Scalability Testing
- Performance Testing
- Cloud Automation
- IaC Testing
- Security Testing

Deriving Global Next Gen Solutions with Purpose-Driven Cloud Test Engineering Approach

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