

CASE STUDY OF PERFORMANCE TESTING

For one of the Leading General Insurance Company

SNAPSHOT

Industry
Insurance

Business Challenge

The business challenge was to simulate and capture response time under various user load i.e. 100, 150, 200, 250, 300 and 350 users.

Omnitech Solution

Business Availability – Performance Testing

Business Benefits

- While the application was designed to undertake user load of more than 350, it was found during the test that application was only ready to take load of max. 150 under the define environment.
- The recommendation for desired infrastructure was suggested to the client.
- Huge upfront infrastructure cost was reduced due to right sizing.
- Reduction of people dependency for Testing

Company Overview

The client is one of the leading general insurance companies.

Business Challenges

The client wanted to test the motor insurance application for its entire insurance claiming cycle from booking of the insurance, to claim cycle and settlement. It was found that when the user level increased more than 150 the application response time degraded and the system crashed hence, the business challenge was to simulate and capture response time under various user loads i.e. 100, 150, 200, 250, 300 and 350 users to claim with nature of loss as Partial theft, Total theft, Third Party and personal accident.

Technology Challenges

The various applications were web based using Java technology. The applications used a lot of custom controls which made it very difficult to automate using standard test automation tools.

Solution

The testing was done using "Incremental" performance testing methodology with Rational tools wherein, the test is analyzed by gradually incrementing the user load until the entire user load is reached.

The team of testers studied the application to gain a complete knowledge of application form and documented the same. Using the tool, the scripts were recorded and engineered to run for multiple users. Data pools were used to provide unique and actual data for each virtual user, hence emulated a real live like environment for testing. The team tested and engineered each script to run with multiple users. Six different suites were created to simulate different user behaviors and the load was injected into the application. Special techniques were used for data preparation. For e.g. in a particular scenario user is authorizing transactions, so before executing this script the particular transaction should be available in application. To ensure the availability of same, a recorded script using one user id was created, but while execution the script was edited to pick the user id from data pool. For effective solution all server side measurement using "Application Manager" to capture data at runtime was monitored.

Once all the suites were executed the team captured entire data and did comparative analysis, wherein user response time, application Throughput, Memory utilization, CPU utilization etc. were analyzed and reported.

About Omnitech InfoSolutions :

Omnitech InfoSolutions is an ISO 9001-2000 certified technology services and solutions provider company in the Business Availability and Business Continuity space. The Business Availability services include Infrastructure Management, Application Management and Performance Management services whereas Business Continuity services include Disaster Recovery Consulting and Management, Data Vaulting and Workplace Recovery Services.

Omnitech InfoSolutions is also a world-class provider of turnkey IT solutions like Server & Storage Consolidation, Virtualization, Network Integration Solutions and Data Center Management Solutions, Omnitech provides end-to-end support with guaranteed SLA (Service Level Agreements) in order to optimize infrastructure management and align IT with business goals.

Contact Omnitech InfoSolutions today for free consultation

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