

Performance Testing of a Digital Banking Platform based on Backbase

Business

One of the largest financial institutions.

Challenge

Management of end-to-end omni-channel digital banking platform along with performance and scalability improvements.

Solution

Chartered and implemented the end-to-end performance testing approach.

The Need...

- Test the Backbase based digital banking platform for superior quality.
- Ability for the system to handle the Concurrency of 10K in normal day to day business and during peak scenarios scripts needs to be validated for 20K concurrency.
- Reduce the response time SLA's for login scenarios, fund transfers, transaction summary and other pages of the banking platform
- Define utilization SLA's for CPU, memory, disk and network

How we did it

End to End Performance Testing Approach

- Our team chartered and implemented the end-to-end performance testing approach. The solution was implemented using Backbase to lead the Digital Transformation, infrastructure and platform migration. This included performance and scalability improvements.
- The banking platform assessment was done, which included load, stress, endurance and volume testing.
- Implemented Health check monitors to check the Server, DB and Network status to identify issues at the earliest.
- Application, infrastructure and database diagnosis was done to ensure the requirements related to memory, latency and throughput are met.
- For code analysis, unit testing, static code analysis, architecture analysis and third-party code reviews was performed.

Performance and Scalability Improvements



It made a huge impact

- ✓ Login response time – Less than 5 Secs
- ✓ Funds Transfer response- Less than 3 seconds.
- ✓ Transaction Summary response time- Less than 3 Seconds.
- ✓ All other Pages loading response time- Less than 2 Seconds
- ✓ Utilization SLA's were met:
 - CPU- Less than 75 %
 - Memory- Less than 70%
 - Disk- Less than 50 %
 - Network- Less than 60 %