

Load Testing of a high access demanding Enterprise Application



Client Overview

- IT Service Provider specialized in Oracle Enterprise Application services



Business Requirements

- The application is Oracle's cloud based ERP which operates as an access center in a enterprise app business suite
- The application manages user access, authorization using OAuth and conducts session management
- Load test the application for maximum login requests and user access per time period (seconds)
- Enhance app productivity and overall effectiveness
- Ensure that existing hardware and software support scalability and availability needs for a large user base



Our Solutions

- Performed functional analysis and testing of the application to understand and record the functional dynamics of the application
- Generated user base of 100 logins per second using open source tool JMeter
- Strategized user configurations in a ramp of 500, 530 and 550 to observe the load behavior at breaking point
- Simulated 400K unique user credentials for all test runs response metrics were reported
- Recorded max and min authentications per second
- Reported analysis of the Performance Metrics and recommendations against poor performing ones
- Shared detailed reports of Test Results, Functional and Performance Test Scripts, Summary Reports



Tools

- JMeter
- Oracle DB, OAM

Engagement

- 1 Test Lead
- 1 Test Engineer
- 1 Month for 2 rounds of load and volume testing



Business Impact

- 4 Weeks with a 3 member team of Functional and Performance experts



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