

Feature Stress Test

A feature stress test can be implemented to get more information about potential system bottlenecks, average response times or the maximum throughput of the system. Such a basic test is applicable for middle sized B2C or B2B systems which do not need a special load test environment to generate the needed traffic. Based on statistics from the Intershop Commerce Insight (ICI), or from experiences, a typical user workflow will be simulated and the system will be stressed with concurrent requests via internet.

Benefits

- Identification of throughput bottlenecks
- Knowledge about peak load and response times for the system
- Knowledge about resource consumption under load
- No load test environment at the customers side is needed since load will be generated via internet even outside business hours

Scope of Delivery

- Written report and suggestions
- Check if performance features like pagecaching are working properly
- Short load test development time in comparison to an overall system load test

RECOMMENDED SCENARIOS

- Pre Go-live
 - To measure if the infrastructure does meet the throughput requirements and to identify possible bottleneck like hardware and configuration limits, request queuing, connection limits to 3rd party systems etc.

- System Update / Upgrade
 - To measure the performance impact of system changes.
- Marketing campaign preparation
 - To measure if the system is suitable for much higher traffic or to increase the system sizing.
- Performance tuning of specific storefront features
 - To measure the performance impact of code changes

LOAD TEST WORKFLOWS

Workflows as part of a feature stress test are catalog browsing, simple search, product list paging and product detail view. More complex workflows like filtering search results, basket actions, logins, payment selection, promotion handling and checkout or approval workflows normally takes more development time and can be requested separately or within an overall system load test done by technical consulting. The user workflows will be developed as scripts using dynamical data from experience or from existing marketing information. Based on statistics from the ICI or from experiences different user workflows will be mixed together to define a more realistic load. During a test the system will be stressed with concurrent requests via internet using our load testing tool.

LIMITATIONS OF A FEATURE STRESS TEST

- Not suitable as an overall system load test
 - Not suitable for larger throughput > 50 storefront pages / second
 - Internet latency needs to be considered
 - Not suitable for testing comprehensive checkout or approval workflows
- ➔ More complex load tests can be requested from Intershop Technical Consulting.

CONDITIONS

- Valid Intershop Support contract
- storefront access via internet for load simulation
- remote access for system monitoring during the stress test
- availability at Intershop side (book two weeks in advance)