



# PROCESS OF A LOAD AND PERFORMANCE TEST

Load and performance tests are carried out to determine how a system works in terms of its responsiveness/speed and stability under a certain workload. Depending on the specific goal of the test, different types of tests are conceivable. The possibility of carrying out load and performance tests depends on the development stage of the target application and on whether an E2E load test or a component load test will be executed. For an E2E test, it makes sense to test in the QSS stage first, as these tests provide information about the overall performance and as the QSS stage is most similar to production. For L&P tests regarding individual components, it makes sense to start earlier in the development or in the testing stage.

## STEP 1: DESIGN PHASE / TEST PREPARATION



- Joint kickoff to collect all relevant information to be able to prepare and plan the test
- Collection of test requirements & creation of technical scripts for load generation
- Ideally: calibration run (short test with little load) for validating the test design

## STEP 2: EXECUTION PHASE / TEST EXECUTION



- Execution of the actual load and performance test / triscon recommends: The test should be executed at a time with as little parallel activity as possible on the servers on which the tested application is running
- triscon also recommends: Perform another calibration run on the same day to check whether all scripts are still executable

### LOAD AND PERFORMANCE TESTS

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## STEP 3: EVALUATION PHASE / TEST EVALUATION



- Evaluation of the test in terms of performance (response times), errors that occurred as well as resource utilization during the test
- Check if the test goals agreed in the kickoff have been achieved
- Generation and creation of a comprehensive and meaningful report on the executed load and performance test

## STEP 4: DISCUSSION PHASE / RESULTS DISCUSSION



- Discussion of the test results and derivation of necessary steps to optimize the tested system
- Planning of further steps and - if desired - support from triscon in implementing them
- Execution of new test runs after optimizing the tested system

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