Baseline Performance Analysis: Acceptance Test

Analysis Summary

A Baseline Report is very important because it tells what the initial performance of the system is when not under load. The web server will never be any faster than this! A baseline report starts from a particular load configuration, and then calculates the beginning performance, and the requirements for the test.

Bandwidth requirements for 500 users

Minimum Bandwidth Required (estimated)[1]	Total User Network Speed (as configured)[2]
16,062.7 kbps	2,499,463.5 kbps

1. The *Minimum Bandwidth Required* describes the total bandwidth that will be consumed by the configured combination of testcases. This assumes that the network is fully saturated and bandwidth usage is evenly distributed. This is highly unlikely in practice, so it is safe to assume the actual bandwidth requirement will exceed this minimum. Running a full load-test simulation will more accurately determine the bandwidth required to maintain the desired performance level.

2. The *Total User Network Speed* describes the total bandwidth available to the users as configured. If the users are all on a local network and this total exceeds the capacity of that network, the configuration should be adjusted as needed for the most accurate estimate.

Performance Goals

The goals section measures whether the configured test can run as described and possibly meet the performance goals. For example, typically test cases are recorded over a local LAN with much more bandwidth available than the users will see from home or a remote office. By specifying the user's bandwidth, this bandwidth can calculate whether the performance goals can be met over that connection before a test is even run, saving the trouble of actually running the test.

100% (17 of 17) of performance goals were met.

The performance goals were met when recorded. Load-testing is required to determine if the performance goals can be met when multiple users are accessing the application.