Comparison of Load Testing Tools

Description

The goal of software testing is to ensure that the software can fulfill the requirements in both functional and non-functional aspects. Load testing is one of the tests that employs tools to artificially generate load or input for the software. For example, the load for a web service would be requests from multiple users in parallel.

There are various tools that are designed to generate load for testing. Jmeter [5] is one of the standard tools that have been used for over a decade. It has shown the capability and proven that it can fulfill the task of load testing. However, in recent years, there are newer tools that aim to offer similar functionalities with a better ease of use. Some of these tools are Gatling [1], Grinder [2], Tsung [4], and Locust [3]. Although they are newer, they may not provide all functions required for all types of load testing. Furthermore, some tools aim to be user-friendly while some aim to increase the maintainability of the load testing scripts.

This seminar paper shall investigate different aspects of load testing tools and provide a comparison. The comparison should be carried out based on the functionality, usability, maintainability, and scalability of the tools. The tools described here are given as a starting point and the student is expected to extend the list to include more modern load testing tools.

References


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