Abstract

Performance testing and analysis process involves testing with the help of performance scripts and executing the scripts to run the application with the help of some performance test tool and monitoring the application performance using an APM Tool. Once the script is ready then these tests can run quickly and efficiently and Performance Analysis can be carried out by drilling down the data in APM Tool. Since the cost of performance testing is in the form of efforts and time required to create the scripts, not all tests can be converted to automated test. There should be a valid reason to pay that cost.

Performance Testing and Analysis plays an increasingly important role in the global economy and in daily experience. It helps maintain the application response time in order to prevent revenue loss. The objective of the paper is to create a pipeline by integration of Jmeter (Open Source Performance Test Tool), Dynatrace (Leading Application Performance Management Tool), Jenkins (Simple CI Server). This pipeline creation aims is to create continuous integration framework to automatically trigger performance test scripts and publish performance test
results, dynatrace dashboard in Jenkins. Scripts are made using Jmeter and Application under Test is Easy Travel application.

References


Index Terms

Computer Science Software Engineering

Keywords

Performance testing, Performance analysis, continuous integration, application performance management