

Introduction to JMeter

3 Day Workshop

This introductory course covers all the essential principles of Performance Testing with JMeter.

Throughout the course practical examples are demonstrated, and the delegates have exercises at the end of every chapter to aid comprehension.

Course Objectives

- Learn the theory and types of Performance Testing to better plan an effective Performance Testing solution.
- Learn about the JMeter Tool and its components
- Plan, Build and Execute a Test Plan to meet your objectives.

Course Pre-requisites

- None

Key Points

Introduction

What is Performance testing. Types of Performance Tests, understanding workload, alternatives to performance testing, considerations before engagement.

Software & Hardware

Hardware, Software, Resources requirements, Virtual Users, The Controller, the Analysis component. System Architecture, testing through Firewalls, Geography specific testing

Planning an Effective Performance Test

Understanding workload and the 'Peak Hour', application concurrency, data requirements and monitoring strategy

Execution & Reporting

A look at Hardware & Software monitors, Network delay information, protocol specific information. The different kinds of Scenario Profiles. Reporting - what to report, what is a pass/fail

Analysis & Investigation

Understanding Transactional response times and transaction pass/fail numbers. Identifying high risk transactions. Improvement and re-runs.

Introducing JMeter

What is JMeter? What are its advantages and disadvantages? Installation & Components

Build a Test Plan

Manually create a test by adding Controllers, Samplers and Listeners.

Record a Test Plan

JMeter recording, setting up the Proxy Server to capture HTTP quickly to aid rapidly building your tests

Assertions

Add assertions into your tests to make sure they are working.

Correlation

Understanding Dynamic data, how to capture values & store them in variables for re-use

Data-Driven Testing

Why Data-driving your tests is so important, different approaches to data-driven testing, using a CSV file to data-drive your test

Scenarios

Building a Scenario, using Timers, Data Collection to Results files, Merging Thread Groups, Command-line execution

Analysis and Reporting

Capture results and output into logs, convert to graphs and look for performance trends

3

Days

The introductory course that takes you from beginner through to executing Performance Tests with JMeter

Recommended for anyone new to Non-Functional Testing