

## Web Application Performance Testing with JMeter Training Course

### Performance Testing Fundamentals

Stress testing

Load testing

Soak testing

Running multiple threads

Setting rump-up period

Threads and users

Distributed Testing

Configuring servers

Gathering results

Submitting Forms

Extracting form ID or checksums

Generating sequence or random data

Getting data from database

Recording forms with a JMeter proxy server

Submitting data recorded in log files

Managing Sessions

Session managers

Session per thread

Session per user

Load Distribution

Using Apache log files to determine distribution

Analysing distribution and creating appropriate test plans

Timers

Gaussian Random Timer

Other Resources and Load Time

Images

Java scripts

JMeter and HTTP headers policy (browser and proxy caching)

Resource Monitoring

Monitoring and analysing CPU resources

Monitoring database queries

Monitoring memory utilization

Monitoring network traffic

Running monitoring tools periodically

Analysing and Interpreting Load Test Results

Running tests at night and creating periodical reports

Statistics available from JMeter

Sample, Average, Median, Deviation, Throughput

Response time graphs

Margins of Error

Analysing results with Excel

Interpreting statistical results

Finding the bottlenecks

Regression and correlations