

CELEBRATING
14 YEARS

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Performance
 **Testing**

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APACHE

JMeter[™]

Installation of Jmeter

- ⇒ Installation and configuration on Jmeter
- ⇒ Need of JDK
- ⇒ JDK Versions and their significance
- ⇒ Why JDK 8 Only?
- ⇒ Jmeter GUI

Performance Testing Basics

- ⇒ What is Performance Testing
- ⇒ Types of Performance Testing ?
- ⇒ Performance Testing Fundamentals with Jmeter

Script Building Fundamentals

- ⇒ Jmeter Proxy Settings
- ⇒ Windows Proxy Settings
- ⇒ How to use Jmeter
- ⇒ Jmeter Test Script Recorder to record scripts
- ⇒ HTTPS Script Recording
- ⇒ Blazemeter Chrome Extension
- ⇒ Badboy tool

Understanding Requests & Responses

- ⇒ Chrome Developer Tools
- ⇒ HAR to JMX
- ⇒ Components of Apache Jmeter
- ⇒ Manual Recording of a Scenario
- ⇒ Executing a Scenario
- ⇒ Using HTTP Request Sampler
- ⇒ Understanding Request Parameters
- ⇒ Understanding Responses
- ⇒ Understanding Sampler Information

Jmeter Work Architecture

- ⇒ Execution order of Elements-Part1
- ⇒ Execution order of Elements-Part2

Kickoff Performance Automation

- ⇒ Environment Walkthrough
- ⇒ Templates in Jmeter
- ⇒ First Test case in Jmeter
- ⇒ Declare Variables & Use It

Logic Controllers

- ⇒ Simple Controller
- ⇒ Random & Random Order Controller
- ⇒ Interleave Controller
- ⇒ Loop Controller
- ⇒ If Controller
- ⇒ Only Once Controller
- ⇒ Runtime Controller
- ⇒ Module Controller

Timers

- ⇒ Constant Timer & Uniform Random Timer
- ⇒ Synchronizing Timer
- ⇒ Precise & Constant Throughput Timer
- ⇒ Gaussian Random Timer

Config Elements

- ⇒ Http Request default
- ⇒ Cookie and Cache manager
- ⇒ User defined variable
- ⇒ CSV data set config
- ⇒ Counter
- ⇒ Random variable

Assertion Elements

- ⇒ Duration & Size Assertion
- ⇒ HTML Assertion
- ⇒ Response Assertion

Listener Elements

- ⇒ View Result Tree
- ⇒ Aggregate Report
- ⇒ Aggregate Graph
- ⇒ Simple Data Writer
- ⇒ Assertion Listener
- ⇒ View result in table

Mid - Project Case Study

BeanShell Programming in Jmeter

- ⇒ BeanShell : Create and use variables
- ⇒ Print data on console & Comments
- ⇒ Type Casting
- ⇒ Condition Handling
- ⇒ Create New Property/ Share data between Thread Groups
- ⇒ Fetch Property Values in Scripting
- ⇒ Read Response Content in BeanShell
- ⇒ Fetch Response Data using BeanShell and Apply Assertion
- ⇒ Fetch different aspects of Response Content
- ⇒ Get, Create, Update and Remove Variables in BeanShell
- ⇒ Fetch Number of Running Threads
- ⇒ BeanShell : Use java in jmeter

Jmeter Distributed Testing

- ⇒ What is Distributed Mode?
- ⇒ What is Master Slave Configuration?
- ⇒ Using multiple machines for executing tests.
- ⇒ Analysing results

Non-GUI (Command Line)

- ⇒ Why Non-GUI?
- ⇒ Executing tests in command line
- ⇒ JMeter test results in Non-gui mode
- ⇒ Generating CSV Results File
- ⇒ Generating Dashboard Reports

Server Monitoring & Reporting

- ⇒ Server Monitoring using Jmeter
- ⇒ Jmeter integration with Grafana for reporting

API Performance Testing using Jmeter

- ⇒ Different methods used in REST API
- ⇒ Rest API Testing - POST Method
- ⇒ Rest API Testing - POST Method : Add Assertions
- ⇒ Rest API Testing - GET Method
- ⇒ Rest API Testing - PUT Method
- ⇒ Rest API Testing - DELETE Method
- ⇒ Correlation | Request Chaining (API Testing)
- ⇒ Data Driven Testing
- ⇒ API Testing : Covert Functional to Performance Test Case

Standard Plugin with Jmeter
DB Testing Using Jmeter
File Upload using Jmeter
Code Management using Jmeter
JMeter – Jenkins integration
How to Crack interview ?

Performance Monitoring Concepts

Linux Servers Monitoring

- ⇒ CPU
- ⇒ Memory
- ⇒ Disk
- ⇒ Network

Application level Monitoring

- ⇒ HEAP Memory & Garbage collection concepts
- ⇒ HEAP & Thread Dump analysis
- ⇒ Database Monitoring

AppDynamics APM tool

- ⇒ Machine Agent
- ⇒ Java Agent
- ⇒ DB Agent
- ⇒ End User Monitoring



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