



Apache JMeter Course Syllabus

1. Introduction to Apache JMeter

- What is Apache JMeter?
- Features and benefits of JMeter
- Installing and setting up JMeter
- Overview of JMeter GUI and components

2. Getting Started with JMeter

- Creating your first test plan
- Understanding thread groups
- Adding and configuring samplers
- Configuring listeners for results analysis

3. Load Testing Basics

- Introduction to load testing
- Configuring thread groups for load testing
- Running load tests and analyzing results

4. Working with Samplers

- HTTP/HTTPS requests
- FTP requests
- JDBC requests for database testing
- SOAP and REST API testing

5. Controllers in JMeter

- Logic controllers:
 - Simple Controller
 - Loop Controller
 - If Controller
 - While Controller

- Switch Controller
- Recording Controller for test plan creation

6. Assertions and Timers

- Adding assertions to validate responses
- Using timers to simulate real-world scenarios

7. Parameterization and Correlation

- Parameterizing test data using CSV Data Set Config
- Extracting dynamic data using Regular Expression Extractor
- Correlation techniques for dynamic values

8. Advanced JMeter Features

- Distributed testing with JMeter
- Using JMeter in non-GUI mode
- Generating HTML reports
- Customizing JMeter properties

9. Plugins and Extensions

- Installing and using JMeter plugins
- Popular plugins for enhanced functionality

10. Integrating JMeter with Other Tools

- Continuous integration with Jenkins
- Using JMeter with Docker
- Integrating JMeter with monitoring tools

11. Best Practices and Troubleshooting

- Best practices for creating efficient test plans
- Debugging and troubleshooting JMeter scripts
- Optimizing JMeter performance