

QA

ADVANCED

5 DAYS

Performance Testing with JMeter

Build a strong foundation in performance testing by mastering principles, methodologies, and best practices using JMeter. Learn how to design, script, analyze, and integrate performance tests into CI/CD pipelines through hands-on exercises and real world scenarios.

Why JMeter?

Ensuring Application Reliability

Performance testing helps ensure that your business applications can handle expected workloads without experiencing performance bottlenecks or failures.

Optimizing User Experience

Performance testing with JMeter allows you to measure and improve response times, throughput, and other key performance metrics, ensuring a smooth and satisfactory user experience.

Meeting Service Level Agreements (SLAs): By conducting performance testing with JMeter, you can validate whether your application meets these SLAs and ensure compliance with the agreed-upon performance standards.

What you'll be able to do

- ✓ Gain a clear understanding of performance testing principles, methodologies, and best practices.
- ✓ Gain hands-on experience with JMeter, becoming proficient in using its features and functionality.
- ✓ Learn how to plan and design effective performance test scenarios.
- ✓ Learn how to script performance test scenarios using JMeter.
- ✓ Equip participants with the skills to analyze and interpret performance test results.
- ✓ Learn how to integrate performance testing with continuous integration and continuous deployment (CI/CD) pipelines.
- ✓ The training will include hands-on exercises and practical case studies to reinforce learning.

Who this is for

- Software Testers and QA Engineers
- Performance Test Engineers
- Software Developers
- DevOps Engineers
- System Administrators
- Project Managers

Curriculum

01 Performance Foundations

- Apply performance foundations using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

02 Planning and Workload Modeling

- Apply planning and workload modeling using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
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03 Scripting

- Apply scripting using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
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04 Correlation and Parameterization

- Apply correlation and parameterization using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
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05 Assertions

- Apply assertions using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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06 Execution and Monitoring

- Apply execution and monitoring using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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07 Result Analysis

- Apply result analysis using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

08 Stress/Spike Patterns

- Apply stress/spike patterns using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

09 Distributed and Cloud Testing

- Apply distributed and cloud testing using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

10 API/Web Performance

- Apply api/web performance using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

11 CI/CD and Best Practices

- Apply ci/cd and best practices using JMeter in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks