

Load Runner Course Content

Course Description:

LoadRunner software testing tool is used to test application performance under load and measuring system behavior. Micro Focus Loadrunner is widely used in the banking and financial domain as it can work on thousands of users simultaneously. Loadrunner has much scope of its advanced features like tester friendly, protocol support, report analysis, scripting managing features, better controller for execution, better GUI, a lot of libraries and functions. LoadRunner is an explorer tool in the performance testing section and market.

Hachion Online Training on Loadrunner tool curated by great professionals in the easy understanding method for both freshers and experienced participants. Our Loadrunner online tutorial helps you to learn all the basic to advanced concepts with real-time experience with the assignments and projects. This online tutorial is well designed to make you a Loadrunner specialist. By end of this course, learners gain knowledge and skills in analyzing the performance testing requirements, prepare Vuser scripts for business functions given in the scope, running test sequence using the tool and examine the outcomes, outlining the detected performance.

Course Content:

Web Application

- Static Content, Dynamic Content, Web Hosting
- Features of Browsers
- Types of requests (GET vs POST)
- Query String, From Data
- Networking modules (OSI Module, TCP/ IP)
- 2- Tier, 3- tier, n- tier architecture
- Types of Operating Systems (Windows, Linux, HP UX, IBM AIX, MAC)
- Web/ App/ DB Servers and their purpose

Introduction to Performance Testing

- What is Performance Testing Benefits of Performance Testing
- Performance Testing phases / Life Cycle
- Types of Performance Testing (Load, Stress, Volume, Endurance, Baseline, Benchmark etc)
- Introduction about various Performances
- Testing tools and scripting language info
- Identifying the business scenarios for Performance Testing
- Think time, rendezvous point, IP Spoofing, Denial of Services Attack
- Workload Characterization

Introduction to Load Runner

- Introduction about the LoadRunner with various versions
- Components of LoadRunner and purpose of each component

- Load Generators, Calculating the # of LGs for a load test

Virtual User Generator

- A small introduction about the C language (Variable, functions, loops)
- Recording a Script
- Recording log, generating log, replay log and correlation results log
- Regenerate script, recording options
- Best practice for recording a script
- Run time settings
- Correlation
- Parameterization
- Page validations
- Transaction timers
- Think times
- Randomizing the script
- Frequency used C functions
- Debug a script
- LR variables Vs C variables custom requests
- Tips for advances scripting

Controller

- Manual Scenario Vs Goal oriented scenario
- Schedule by group Vs Schedule by Scenario
- Adding Load Generators and verifying the connectivity (Performance test environment setup)
- Run Time settings
- Executing the tests
- Configuring the Rendezvous, IP Spoofing etc
- Monitoring servers through controller
- Windows resources, UNIX resources, other servers
- Auto collection of results, issues with auto collection, sampling intervals
- Configuring Diagnostics

Analysis

- Adding graphs
- Merging graphs
- Web Page Diagnostics
- Advanced Filters/ Drill down
- Raw data/ Graph data
- How to start Analysis (Analysis approach using Client side and server side measurement)
- Correlate the graphs/ results and analyzing the results (Response Time vs HPS Vs throughput Vs TPS)
- Most commonly seen issues / errors and possible reasons

Next Steps

- Understanding the server configuration files
- Understanding the relationship between various settings
- Monitoring the servers without LoadRunner
- JVM architecture and GC methods
- Some important tips

Advanced Concepts

- Exercises individual presentation on various performance testing/ Engineering Concepts (Performance Testing Concepts, Performance Testing Tools, OS monitoring (windows & UNIX), Servers Monitoring)
- Test Plan & Traversal/ Testcase/ Usecase Document preparation & Preliminary performance test report preparation