

LoadRunner 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- tie 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 among various settings
- ✓ Monitoring the servers without LoadRunner
- ✓ JVM architecture and GC methods
- ✓ Some important tip[s]

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