



## 9. Software Testing

### 9.4 Load Runner

**Duration:** 30 Lectures

#### **Course Content:**

##### **1. Introduction**

- 1.1. Performance Testing
- 1.2. What is Performance Testing
- 1.3. Benefits of Performance Testing
- 1.4. Performance Testing phases / Life Cycle
- 1.5. Types of Performance Testing
- 1.6. Various Performances Testing tools
- 1.7. Business scenarios for Performance Testing
- 1.8. Think time, rendezvous point,
- 1.9. Workload Characterization

##### **2. Introduction to Load Runner**

- 2.1. Introduction about the Load Runner
- 2.2. Components of Load Runner
- 2.3. Load Generators

##### **3. Virtual User generator**

- 3.1. C language (Variable, functions, loops)
- 3.2. Recording a Script
- 3.3. Recording Log, Generating Log
- 3.4. Replay Log and Correlation results log
- 3.5. Regenerate Script, recording options
- 3.6. Best Practice for recording a script
- 3.7. Run time settings
- 3.8. Correlation



- 3.9. Parameterization
- 3.10. Page Validations
- 3.11. Transaction Timers
- 3.12. Think times
- 3.13. Randomizing the script
- 3.14. Frequency used C functions
- 3.15. Debug a script
- 3.16. LR Variables Vs C Variables custom Requests
- 3.17. Tips for advances scripting

## 4. Controller

- 4.1. Manual Scenario Vs Goal oriented scenario
- 4.2. Schedule by group Vs Schedule by Scenario
- 4.3. Adding Load Generators and connectivity
- 4.4. Run Time settings
- 4.5. Executing the tests
- 4.6. Configuring the Rendezvous, IP Spoofing etc
- 4.7. Monitoring servers through controller
- 4.8. Windows & UNIX resources, other servers
- 4.9. Auto collection of results
- 4.10. Issues with auto collection
- 4.11. Sampling intervals
- 4.12. Configuring Diagnostics

## 5. Analysis

- 5.1. Adding graphs
- 5.2. Merging graphs
- 5.3. Web Page Diagnostics
- 5.4. Advanced Filters/ Drill down
- 5.5. Raw data/ Graph data
- 5.6. How to start Analysis
- 5.7. Correlate the graphs/results
- 5.8. analyzing the results



5.9. Most commonly seen issues

5.10. Errors and possible reasons



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