LoadRunner - Performance Testing Tool

Duration: 5-6Weekends(Weekend Batch)
Prerequisites

- Knowledge of Basic Software Testing.
- Basic of C Language

LoadRunner Performance Testing Tool

1. Introduction to Performance Testing

- What is Performance Testing?
- Benefits of Performance Testing
- Types of Performance Testing
- Performance Testing Life cycle
- Performance Testing concepts and Terminologies
- HTTP Request/Response Structure

2. Tool Introduction

- Introduction about the LoadRunner
- LoadRunner Architecture
- Different components of LoadRunner
- Basic of different Load runner Protocols
- Protocol Identification

3. Scripting

- Vugen Overview
- Script Recording Basics
- Enriching the Script via Correlation & Parameterization
- Validation check points & Error handling
- Script enhancement using Fiddler tool.
- Different LR functions
- Demo of Sample application
- Practice

4. Scenario Creation & Execution

- Run time setting
- Elements of Scenario
- Setting up load runner scenario
  - Ramp up & Ramp down strategy
  - Group strategy
  - Step up Scenario Exception Handling
- Different Scheduler Options
- Load Test / Stress Test/Endurance Test setup
- Execution setup
- Online Monitoring
- User Defined Exception

5. Monitoring Profile Setup

- Infrastructure Monitoring Setup
- Setting Counters on Windows and Linux servers
  - Memory
  - CPU
  - Disk
  - Network

6. Analyzing the Results

- In-depth walkthrough of how to analyze the result
- Understanding of each graph types
- Client side Performance Metrics
- Server side Performance Metrics

7. Root Cause analysis with Load Runner

- Bottleneck Identification
- 90th Percentile
- Server side analysis

8. Reporting

- Interim Test report
- Test closure report

9. Basic of Performance Engineering

- Basic PE concept
- Introduction to different Server monitoring tool
  - Perfmon Analyzer
  - NMON Analyzer
  - CA Wily Intra-scope
  - Dynatrace