



Scripting for an effective load test using VuGen 9.0

WORKSHOP OVERVIEW

In this workshop, students will learn how to Plan, Design, and execute a successful performance test against a web application. Each topic is supported by hands-on exercises that are based on real-life examples designed to provide you with the knowledge necessary to use the tool efficiently and effectively. The workshop focuses on Performance / Capacity planning and risk management methodologies. Approximately 60% of the workshop is on tool usage. About 10% of the tool usage portion will involve 'C' programming.

The goal of the Workshop is to enable students to use the Application Delivery product for application performance testing according to tried and trusted Best Practices and implement it correctly. The Workshop will demonstrate common performance testing methodologies and industry accepted best practice to build a performance test of a web application. Upon completion, the student will be able to take the concepts learned and apply them to any application environment

WORKSHOP OBJECTIVES

- Recording in VuGen
- Replaying in VuGen
- Using Multiple Actions
- Handling large datasets
- Verifying the system under load
- Handling Dynamic Data in applications
- Manual Correlation
- Checking content
- Recording an application for the first time
- Commonly used 'C' statements
- Advanced scripting topics
- Best Practices

PREREQUISITES

- Basic concepts of Quality Assurance.
- Knowledge of at least one of the following DB administration, Application Programming, networking, or performance testing and troubleshooting
- Visual Basic, VB Script, Java, or 'C' programming

INTENDED AUDIENCE

- Web Application Programmers
- Database Administrators
- Network Administrators
- Performance Test Team Leads
- Performance Test Script Developers

DURATION:

2 Days



COURSE OUTLINE

DAY 1	DAY 2
<p>Introduction to Virtual User Generator</p> <p>Introduction</p> <ul style="list-style-type: none"> • Look and feel of LoadRunner • Script View • Tree View • Workflow View • Toolbars • Pane • How LoadRunner works <p>Recording in Vugen</p> <ul style="list-style-type: none"> • How does the Loadrunner recording engine work? • Recording Options • General Options • Choosing a protocol <p>Replay in VuGen</p> <ul style="list-style-type: none"> • Run Time Settings • Runtime Viewer • Results Viewer • Debug Options <p>Using Multiple Actions</p> <ul style="list-style-type: none"> • What is an action? • Benefits of multiple actions • Recording scripts with multiple actions • Configuring scripts with multiple actions to achieve Load Testing Goals <p>Handling Large data sets</p> <ul style="list-style-type: none"> • Performance testing requires volume • Data challenges related to Performance Testing • Using parameterization to overcome data challenges <p>Verifying the system under load</p> <ul style="list-style-type: none"> • Error pages • Adding verification checkpoints • Parameterizing Checkpoints <p>Handling Dynamic Data</p> <ul style="list-style-type: none"> • What is dynamic data • How does correlation work • Automatic correlation methodologies 	<p>Advanced Vugen</p> <p>Manual Correlation</p> <ul style="list-style-type: none"> • When to use manual correlation • Why does automatic correlation fail? • Correlation in the tree view • Correlation in script view • Advanced correlation techniques <p>Checking content</p> <ul style="list-style-type: none"> • What is a content check • When to use a content check • Creating a content check • Viewing snapshot on error <p>Recording an application for the first time</p> <ul style="list-style-type: none"> • Finding the correct protocol • Setting recording options • Multi-protocol scripts <p>Creating meaningful reports</p> <ul style="list-style-type: none"> • HTML Reports • MS Word documents • Third-Party documents <p>Commonly used 'C' statements</p> <ul style="list-style-type: none"> • lr_output_message • lr_error_message • lr_eval_string • strcpy • sprintf • strcat • rand • strcmp • atoi • itoa <p>Advanced scripting topics</p> <ul style="list-style-type: none"> • Randomly selecting an item in a list • Converting a date from one format to another • Cleaning up data in an application • Writing a data seeding script. <p>Best Practices</p> <ul style="list-style-type: none"> • VuGen best practices