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# VuGen 9.0 Scripting for Web

## Overview

The Virtual User Generator (VuGen) is a scripting tool used to record and run user actions on the application to be load tested. This course focuses on planning, creating and enhancing Virtual User (Vuser) scripts using VuGen in the Web environment. All topics are supported by hands-on labs designed to provide you with the knowledge necessary to create scripts in the Web environment.

## Course Objectives

At the end of the course, you should be able to:

- Record Scripts in the Web environment using VuGen
- Measure steps and business processes using transactions
- Parameterize scripts to vary user input data
- Customize scripts by adding VuGen and basic C functions
- Correlate scripts to process server-generated data

## Duration

Two days

## Intended Audience

Quality Assurance Engineers, Performance Engineers, Users of LoadRunner who need to create scripts to load test their Web applications.

## Prerequisites

Working knowledge of:

- Windows
- Web sites and browsers
- Fundamental understanding of C programming is helpful, but not required

## Course Outline

### Introduction

- Define VuGen?
- Identify the main components of the VuGen interface

### Recording for the Web

- Create a VuGen script by recording user steps with VuGen in the web environment
- Describe the basics of HTML and URL recording levels

### Replay

- Identify and configure the appropriate web run-time setting for replay
- Replay the script in VuGen to verify script functionality
- Recognize the debugging tools available in VuGen

### Transactions

- Explain the function of a transaction in a script
- Insert a transaction in a script during and after recording

### Parameters

- Explain what parameters are and how they work
- Solve playback problems with parameterization
- Parameterize a script for load testing

### Auto Correlation after Recording

- Define correlation
- Correlate dynamic values found by using the Auto Correlation tool



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## **Verification**

- Recognize why and when to use verification
- Identify visual cues to check for during load testing
- Add Text Checkpoints during and after recording

## **Actions**

- Create multiple Actions for a web script
- Configure Actions to achieve load testing goals

## **Introduction to Script View**

- Identify when Script view is necessary
- Send customized output messages to the Replay Log
- Identify basic C code including statements, variables, and functions
- Apply basic debugging techniques in VuGen

## **Advanced Scripting Techniques**

- Recognize general LoadRunner functions
- Recognize protocol specific functions

## **Manual Correlation**

- Determine when manual correlation is required
- Correlate dynamic values using the create parameter option

## **Auto Correlation during Recording**

- Create correlation rules to auto correlate during recording
- Import and export correlation rules