

Training: Micro Focus VUGEN120 - VuGen Essentials



TRAINING GOALS:

The course covers topics about the Virtual User Generator (VuGen), Controller, and Analysis tools. This course is designed to give you a foundation in basic load testing tasks. You create and run load test scenarios using the Controller. The Analysis tool is used to analyze load test results, and you learn to work with the graphs to display data after a test is executed.

The hands-on labs are designed to provide you with the knowledge necessary to create scripts in VuGen, execute scenarios in the Controller, and view the results in the Analysis tool. The course consists of focused, task-oriented lectures, text, and a series of detailed hands-on labs to teach the course material to the student.

Upon successful completion of this course, you should be able to:

- Identify the information that you need for load testing
- Identify the components of the LoadRunner (LR) application
- Apply the recommended workflow to create a basic LR scenario
- Assign scripts, run-time settings, performance monitors, Load Generators (LGs), and Virtual User (Vusers) to a LR scenario based on your load testing goals
- Perform a load test on your application by running a scenario

Audience/Job Roles

This course is intended for:

- Quality Assurance and Performance Engineers
- Users of LoadRunner who need to create scripts to load test their web applications
- Executives involved in any aspect of the load testing process

CONSPECT:

- Module 1: Course Overview of Virtual User Generator Essentials
 - Identify the contents and objectives of the course
 - Define the class schedule and class logistics
 - Identify the related courses
 - Discuss the lab environment details

- Module 2: Introduction to Virtual User Generator (VuGen)
 - Define Virtual User (Vuser) and VuGen
 - Explore the new look and feel of the VuGen UI
 - Explain how to use the step navigator and solution explorer
 - Discuss the script workflow
 - Create scripts using VuGen
 - Record business processes with VuGen
- Module 3: What's New in VuGen in 12.x
 - Discuss the UI improvements in VuGen 12.x
 - Describe the protocol enhancements
- Module 4: Recording Scripts for Web Applications
 - Create VuGen scripts by recording user steps
 - Save scripts in ALM
 - Create a Vuser script template
 - Create business process reports
- Module 5: Replaying the Vuser Scripts
 - Recognize the debugging tools available in VuGen
 - Identify and configure the appropriate web run-time settings for replaying scripts
 - Replay and debug the script in VuGen
- Module 6: Inserting Transactions into the Script
 - Explain the use of transactions in a script
 - Add a transaction into a script during recording
 - Insert a transaction into a script after recording
- Module 7: Parameterizing a Script
 - Define parameterization
 - Determine when to parameterize a script
 - Create and modify parameter lists
 - Create new parameters
 - Work with parameter properties
 - Configure run-time settings for parameters
- Module 8: Verifying the Vuser Scripts
 - Identify the need to use verification in scripts
 - Define verification for scripts
 - Add text checkpoints during and after recording of scripts
- Module 9: Creating Actions for a Web Script
 - Define an action for a web script

- Record a script with multiple actions
- Create action blocks
- Module 10: Using the VuGen Editor
 - Work with the VuGen Editor
 - Send customized output messages to the Replay Log
 - Identify basic C code, including statements, variables, and functions
 - Apply basic debugging techniques in VuGen
- Module 11: Using the Advanced Scripting Techniques for Vuser Scripts
 - Explain the general LR functions
 - Explain the protocol-specific functions
- Module 12: Auto Correlation After Recording
 - Describe correlation
 - Work with the Correlation Studio
 - Correlate dynamic values after recording a script
- Module 13: Using Manual Correlation
 - Explain the manual correlation process
 - Configure the parameters for correlation
 - Correlate a script manually by:
 - Using the W utility
 - Adding the web_reg_save_param_ex correlation function
 - Parameterizing the dynamic value in the script
- Module 14: Auto Correlation During Recording
 - Create correlation rules to auto correlate during recording
 - Regenerate and record scripts
 - Import and export correlation rules

REQUIREMENTS:

To be successful in this course, you should have the following prerequisites or knowledge.

- Have working knowledge of Windows, Websites, and browsers
- Fundamental understanding of C programming is helpful, but not required

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Micro Focus (course completion).

TRAINER:

Authorized Micro Focus Trainer