

SOFTWARE TESTING ASSIGNMENT

(Module-4 Automation Core Testing- Load Runner)

Que: Which Components have you used in Load Runner?

Ans: The components used in Load Runner are:

- i) Load Generator: Load Generator which generates the load from controller and having between the servers and agents processor.
- ii) Load Controller: In Load Controller, we can configure and execute Load Test scenarios using the scripts recorded from Vugen or any compatible source.
- iii) Analyzer: It is used for analysing the Load Runner result files generated at the controller after test executions. Basically, this can be used for analysing and generating reports.

Que: How can you set the number of Vusers in Load Runner?

Ans: To set the number of vusers in Load Runner you can

Step 1: Open the Vusers Dialog Box.

Step 2: Click the add Vusers button.

Step 3: from the Group name box, select the name of vuser group

Step 4: From the quantity to add box, select the number of vuser that you want to add to the group.

Step 5: Start the user from the VUSER screen.

Que: What is Correlation?

Ans: Correlation is a statistical technique for determining the relationship between two variables. It can be positive, Negative, linear or non-linear. It also helps in understanding of economic behaviour easier and identifies critical variables that are significant.

Que: What is the process for developing a Vuser Scripts?

Ans: The process for developing a Vuser script involves the following steps:

Step 1: Record the Vuser Script using the appropriate protocol and actions.

Step 2: Edit and enhance the recorded Vuser Script to add logic, parameters, checkpoints.

Step 3: Define the runtime settings for the Vuser Script, such as iterations, pacing, log level.

Step 4: Run the Vuser Script in stand-alone mode to verify its functionality and performance.

Step 5: Incorporate the Vuser Script into a LoadRunner scenario to run it with multiple Vusers.

Que: How Load Runner interacts with the Application?

Ans: LoadRunner stimulates users activity by generating messages between application components or by stimulating interactions with the user interface such as key presses or mouse movements. The message and interactions to be generated are stored in scripts.

Que: How many Vusers are required for Load testing?

Ans: The number of Virtual users required for Load testing depends on the number of

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virtual users in the test scripts and the number of test engine instances. A rough of thumb is that for a fast load generator computer, it is possible to run 500 virtual users per core. The number of concurrent virtual users is one of the most important variables that effect accuracy. IF think time is enabled during Load test, one vuser represent one real user, if think time is disabled one vuser represent total 5 real users.

Que What is the relationship between Response time and Throughput?

Ans: Response time is the time taken for a transaction to complete, while Throughput is the number of requests processed per unit of time.

The relationship between response time and throughput is that higher response time leads to lower throughput and vice-versa. Ideally, Response time and throughput should be constant during a steady state. If throughput decreases with an increase in time response, it indicates instability of the application/system. The response time for an average transaction tends to decrease as you increase overall throughput.