

Which components have you used in Load Runner?

LoadRunner is a software testing tool from Micro Focus. It is used to test applications, measuring system behaviour and performance under load. LoadRunner can simulate thousands of users concurrently using application software, recording and later analyzing the performance of key components of the application.

Key components used :

1. Load Generator:
generates the load against the application by following scripts.
2. VuGen (Virtual User Generator):
for generating and editing scripts that are needed to check the load.
3. Controller :
controls, launches and sequences instances of Load Generator - specifying which script to use, for how long etc. During runs the Controller receives real-time monitoring data and displays status.
4. Agent :
process manages connection between Controller and Load Generator instances.
5. Analysis :
assembles logs from various load generators and formats reports for visualization of run result data and monitoring data.

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

You can set the number of Vusers in the controller section while creating your scenarios. Many other advanced options like ramp-up, ramp-down of Vusers are also available in the Controller section.

What is Correlation?

Correlation is the process of extracting some value from the response of one step into the request of another step.

It captures and stores the dynamic response from the server and passes it on to subsequent requests.

How Load Runner interacts with the application?

LoadRunner simulates user activity by generating messages between application components or by simulating interactions with the user interface such as key presses or mouse movements. The messages and interactions to be generated are stored in scripts.

What is the process for developing a Vuser Script?

STEP 1 : recording the vuser script .

STEP 2 : edit the vuser script.

STEP 3 : runtime setting

STEP 4 : run the vuser script in stand-alone mode.

STEP 5 : incorporate the vuser script into a load runner scenario.

How many VUsers are required for load testing?

It Depends on the product in the test. The actual Vusers required can vary depending on the scale and scope of the interaction set in the customer satisfaction Criteria.

What is the relationship between Response Time and Throughput?

Response time and throughput are related.

The response time for an average transaction tends to decrease as you increase overall throughput.

However, you can decrease the response time for a specific query, at the expense of overall throughput, by allocating a disproportionate amount of resources to that query.

Conversely, you can maintain overall throughput by restricting the resources that the database allocates to a large query.

The trade-off between throughput and response time becomes evident when you try to balance the ongoing need for high transaction throughput with an immediate need to perform a large decision-support query.

The more resources that you apply to the query, the fewer you have available to process transactions, and the larger the impact your query can have on transaction throughput.

Conversely, the fewer resources you allow the query, the longer the query takes.

What is the difference between hits/second and requests/second?

Hits/ second :

Hits per second means the number of hits the server receives in one second from the vuser.

Request/ second :

Request per second is the number of request the vuser will request from the server.

