

Module 5

1. Which components have you used in Load Runner?

- Load Generator: generates the load against the application by following scripts.
- VuGen (Virtual User Generator): for generating and editing scripts.
- Controller: controls, launches and sequences instances of Load Generator - specifying which script to use, for how long etc.
- Analyzer: to analyze results

2. how can you set the number of vusers in load runner?

1. Open the Vusers dialog box.
2. Click the Add Vuser (s) button.
3. From the Group Name box, select the name of the Vuser group.
4. From the Quantity to add box, select the number of Vusers that you want to add to the group.
5. Start the user from the VUSER screen

3. What is Correlation?

- Positive correlation: two variable moved either up or down in the same direction together.
- Negative correlation: two variable moved opposite direction.
- Zero correlation: no relation between two variable.

4. What is the process for developing a Vuser Script?

1. Record the Vuser Script using the appropriate protocol and actions.
2. Edit and enhance the recorded Vuser Script to add logic, parameters, checkpoints, etc.
3. Define the runtime settings for the Vuser Script, such as iterations, pacing, log level, etc.
4. Run the Vuser Script in stand-alone mode to verify its functionality and performance.
5. Incorporate the Vuser Script into a LoadRunner scenario to run it with multiple Vusers

5. 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 keypresses or mouse movements. The messages and interactions to be generated are stored in scripts.

6. How many VUsers are required for load testing?

The number of virtual users required for load testing depends on the number of virtual users in the test script and the number of test engine instances¹. A rough rule of thumb is that for a fast load generator computer, it is possible to run about 500 virtual users per core². The number of concurrent virtual users is one of the most important variables that affect accuracy³. If think time is enabled during load test, one vuser represents one real user, if think time is disabled one vuser represents about 5 real users.

7. What is the relationship between Response Time and Throughput?

The time in between the start and till the completion of the job is called response time the amount of work done in a given time is called through put.

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

Hits per second means the number of hits the vserver receives in one sec from the vuser and the request per second is the no. of request the vuser will request from the server.

9. What is Automation Testing?

Automation Testing is the method of testing software products with special testing tools and frameworks to minimize human intervention and maximize quality. Automation Testing is done with the help of automation software, and it controls the flow of the execution of tests as per the written test scripts.

10. which are the browsers supported by selenium ide?

- Google Chrome
- Internet Explorer 7 onwards
- Safari, Opera, Firefox

11. What are the benefits of Automation Testing?

- Faster, more robust, and easier to scale than manual testing
- Cost-effective, especially for high-volume regression and performance tests
- Shorter software development cycle and quicker time-to-market delivery
- Consistent and reliable results with less human errors
 - Test suite reusability and ability to test on various platforms.

12. What are the advantages of Selenium?

- It is an open source, free, and cost-effective tool
- It supports multiple programming languages, browsers, and operating systems
- It automates cross browser testing and provides accurate and consistent results
- It allows for repeated, parallel, and scalable testing
- It is flexible, well documented, and easy to implement

13. Why testers should opt for Selenium and not QTP?

Selenium is an open source whereas QTP is a commercial tool selenium is used specially for testing web based applications while QTP can be used for testing client server application also selenium supports firefox, IE, opera, safari on operating systems like windows, mac, linux etc. however QTP is limited to internet explore on windows. Selenium supports many programming languages like ruby, perl, python whereas QTP supports only VB script.