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. During runs the Controller receives real-time monitoring data and displays status.
* **Agent process** manages connection between Controller and Load Generator instances.
* **Analysis** assembles logs from various load generators and formats reports for visualization of run result data and monitoring data.

1. **How can you set the number of users in Load Runner?**
2. Go to LoadRunner installation folder.
3. Find .lrp file that is corresponding to the protocol you use to create VuGen Script. ...
4. Edit it: paste MaxThreadPerProcess=10 after [Vugen] ....
5. HP LoadRunner Controller should be restarted so that changes could take effect.
6. **What is Correlation?**

Correlation is the capturing of dynamic values passed from the server to the client and back.

1. **What is the process for developing a Vuser Script?**

Step 1- Record the Vuser Script.

Step 2- Playback and improve the recorded vuser script.

Step 3- Define and test the different run-time parameters.

Step 4- Use the script in a LoadRunner scenario.

1. **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.

1. **How many VUsers are required for load testing?**

For example, if you run a load test with 10,000 virtual users, each making a request every 20 seconds (3 requests per minute), then you're making 30,000 requests per minute, which equals 500 requests per second.

As you can see in the calculation above, you can decrease the number of users and increase the number of requests per minute per user and still have the same requests per minute.

1. **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.

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

Hits/second are the number of HTTP requests made by VUsers to the Web Server in a scenario or session step run on a per second basis. Requests/second are the number of requests completed during each second of scenario run.

1. **What is Automation Testing?**

**Automation Testing** is a software testing technique that performs using special automated testing software tools to execute a test case suite. On the contrary, Manual Testing is performed by a human sitting in front of a computer carefully executing the test steps.

1. **Which are the browsers supported by Selenium Ide?**

Selenium IDE has add-ons for Firefox and Chrome browsers. Selenium IDE comes with a rich set of commands that are powered by Selenese, and it allows you to record and test different interactions of a web application with the browser.

1. **What are the benefits of Automation Testing?**

* 70% faster than the manual testing
* Wider test coverage of application features
* Reliable in results
* Ensure Consistency
* Saves Time and Cost
* Improves accuracy
* Human Intervention is not required while execution
* Increases Efficiency
* Better speed in executing tests
* Re-usable test scripts
* Test Frequently and thoroughly
* More cycle of execution can be achieved through automation
* Early time to market

1. **What are the advantages of Selenium?**

* Very easy to use and install.
* No programming experience is required, through knowledge of HTML and DOM are needed
* Can export tests to formats usable in Selenium RC and WebDriver
* Has built-in help and test results reporting module.
* Provides support for extensions.

1. **Why testers should opt for Selenium and not QTP?**

|  |  |
| --- | --- |
| **Selenium** | **QTP** |
| Open source, free to use, and free of charge. | Commercial. |
| Highly extensible | Limited add-ons |
| Can run tests across different browsers | Can only run tests in Firefox , Internet Explorer and Chrome |
| Supports various operating systems | Can only be used in Windows |
| Supports mobile devices | Supports mobile devise using 3rd party software |
| Can execute tests while the browser is minimized to be visible on the desktop | Needs to have the application under test |
| Can execute tests in parallel. | Can only execute in parallel but using Quality Center which is again a paid product. |