Module-4 Automation Core Testing (Load Runner Up and Selenium IDE)

- Which components have you used in Load Runner?
 - 1. Load Generator generates the load against the application by following scripts.
 - 2. VuGen (Virtual User Generator) for generating and editing scripts.
 - 3. Controller controls, launches and sequences instances of Load Generator specifying which script to use, for how long etc.
- 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 rampup, ramp-down of Vusers are also available in the Controller section

What is Correlation?

Correlation is a statistical measure that expresses the extent to which two variables are linearly related (meaning they change together at a constant rate). It's a common tool for describing simple relationships without making a statement about cause and effect.

- 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.
- How Load Runner interacts with the application?

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.

How many VUsers are required for load testing?

For HTTP (S) test each Load Injector can handle approximately **up to 1000 concurrent HTTP users**. For Web page or Web application test each Load Injector can handle approximately up to 25 concurrent users.

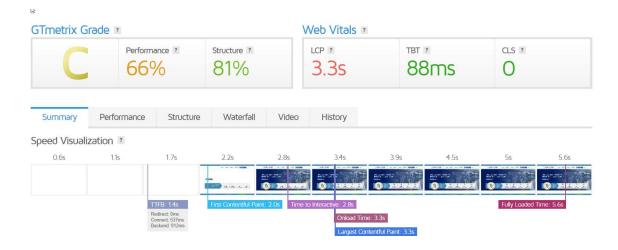
What is the relationship between Response Time and Throughput?

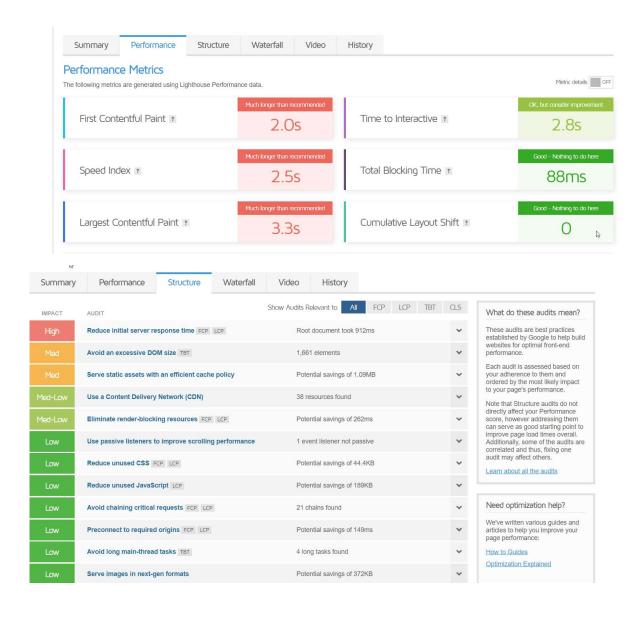
Response time and throughput are related. The response time for an average transaction tends to decrease as you increase overall throughput. However, you can decrease the response time for a specific query, at the expense of overall throughput, by allocating a disproportionate amount of resources to that query.

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

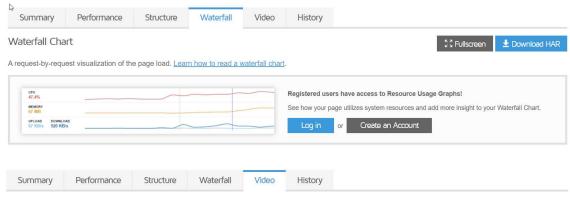
Hits/second are the number of HTTP requests made by VUsers to the Web Server in a scenario or session step run on a per second basis. Requests/second are the number of requests completed during each second of scenario run.

 To test the Performance testing on "Tops Technologies website": https://www.topsint.com/





Low	Avoid enormous network payloads LCP	Total size was 1.40MB	~
Low	Properly size images	Potential savings of 5.26KB	~
Low	Reduce JavaScript execution time TBT	419ms spent executing JavaScript	~
Low	Avoid serving legacy JavaScript to modern browsers TBT	Potential savings of 11.0KB	~
Low	Defer offscreen images	Potential savings of 46.8KB	~
N/A	Largest Contentful Paint element LCP	1 element found	~
N/A	Avoid large layout shifts CLS	5 elements found	~
N/A	Minimize main-thread work TBT	Main-thread busy for 1.1s	~
N/A	Reduce the impact of third-party code TBT	Total size was 381KB	~
N/A	User Timing marks and measures		~



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