**Scalability Testing** is a non functional testing method that measures performance of a system or network when the number of user requests are scaled up or down. The purpose of Scalability testing is to ensure that the system can handle projected increase in user traffic, data volume, transaction counts frequency, etc. It tests the system's ability to meet the growing needs.

## **What to test in Scalability Testing**

Here are few Scalability Testing Attributes:

* Response Time
* Screen transition
* Throughput
* Time (Session time, reboot time, printing time, transaction time, task execution time)
* Performance measurement with a number of users
* Request per seconds, Transaction per seconds, Hits per second
* Performance measurement with a number of users
* Network Usage
* CPU / Memory Usage
* Web Server ( request and response per seconds)
* Performance measurement under load

### **How to do Scalability Testing**

1. Define a process that is repeatable for executing scalability tests throughout the application life-cycle
2. Determine the criteria for scalability
3. Shortlist the software tools required to run the load test
4. Set the testing environment and configure the hardware required to execute scalability tests
5. Plan the test scenarios as well as Scalability Tests
6. Create and verify visual script
7. Create and verify the load test scenarios
8. Execute the tests
9. Evaluate the results
10. Generate required reports