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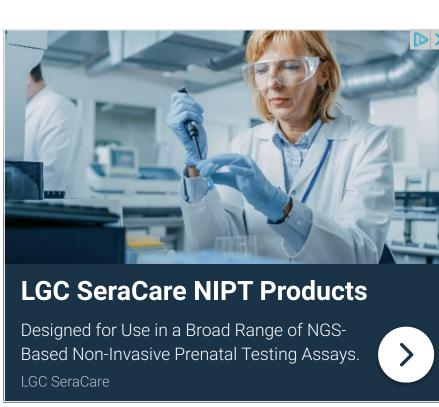
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What is Scalability Testing? Learn with Example



Scalability Testing

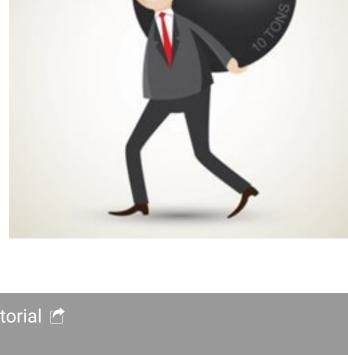
SAP ~

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 system ability to meet the growing needs.

It is also referred to as performance testing, as such, it is focused on the behavior of the application when deployed to a larger system or tested under excess load. In Software Engineering, Scalability Testing is to measure at what point the application stops scaling and identify the reason behind it.

Scalability testing lets you determine how your application scales with increasing

- Determine the user limit for the Web application. • Determine client-side degradation and end user experience under load.



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Screen transition

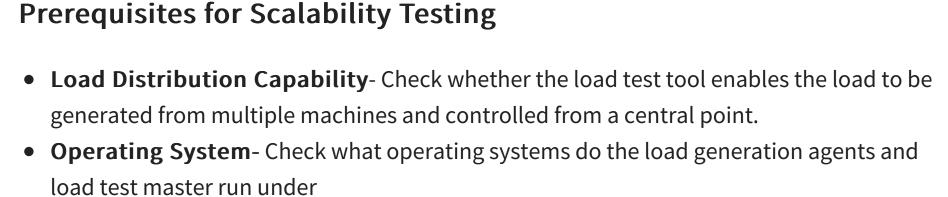
Here are few Scalability Testing Attributes:

• Response Time

- Performance measurement with a number of users
- Network Usage CPU / Memory Usage
- Web Server (request and response per seconds)
- Test Strategy for Scalability testing

Performance measurement under load

database in relation to the number of users and so on.



• **Processor**- Check what type of CPU is required for the virtual user agent and load test

- master
- load test master
- 1. Define a process that is repeatable for executing scalability tests throughout the application life-cycle 2. Determine the criteria for scalability
- 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
- **Scalability Test Plan**

ensure that the test conforms as per the application requirement.

actions a user would perform.

interact with the application • Data Driven Tests: If the scripts need varying data at run-time, you need to have an understanding of all the fields that require this data.

• Run-Time Data: The test plan should determine any run-time data that is required to

Before you actually create the tests, develop a detailed test plan. It is an important step to

• Steps for Scripts: The test script should have a detailed step that determines the exact

- It focusses on the performance of your Load testing focusses on testing
- It is a type of software testing that tests the ability of a system, a network or a process when the size/volume of the system is changed in order to meet a growing need. • The idea behind Scalability Testing is to measure at what point the application stops

websites, software, hardware, and application

when changes are done in the size or volume

scaling and identify the reason behind it

What is

• Test Strategy for Scalability Testing differ in terms of the type of application is being

AGILE TESTING

approach when

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requirements change

continuously? When...

an application under heavy loads,

to determine at what point the

Prev

tested.

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Example Test Cases

Configuration Testing

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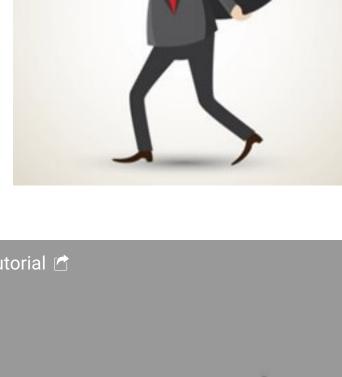
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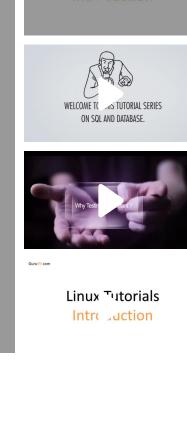
Why do Scalability Testing

workload.

- Determine server-side robustness and degradation.







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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
- Test Strategy for Scalability Testing differ in terms of the type of application is being tested.
- If an application accesses a database, testing parameters will be testing the size of the
- Memory- Check how much memory would be enough for the virtual user agent and
- **How to do Scalability Testing**
- 4. Set the testing environment and configure the hardware required to execute scalability tests
- 9. Evaluate the results 10. Generate required reports

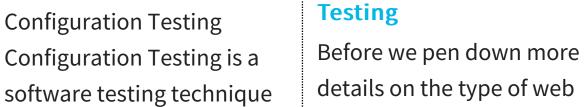
3. Shortlist the software tools required to run the load test

Following are the attributes for creating a well-defined Test Plan for Scalability Testing.

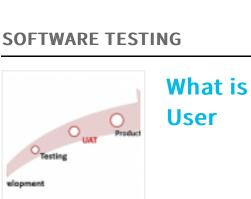
Scalability testing Vs Load testing **Scalability Testing Load Testing**

of the system to meet a growing need. system response time fails. **Summary:**

SOFTWARE TESTING



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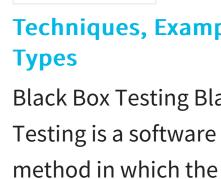


Acceptance Testing

What is UAT? User

(UAT)? with Examples

Acceptance Testing (UAT) is a type of testing performed



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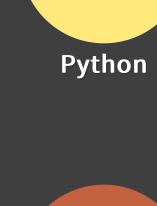
Testing





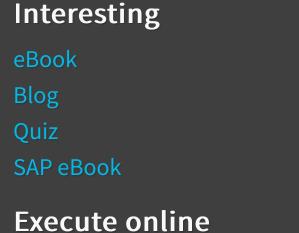






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