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Stability Testing

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Sample Test Case

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Diff. Performance, Load,



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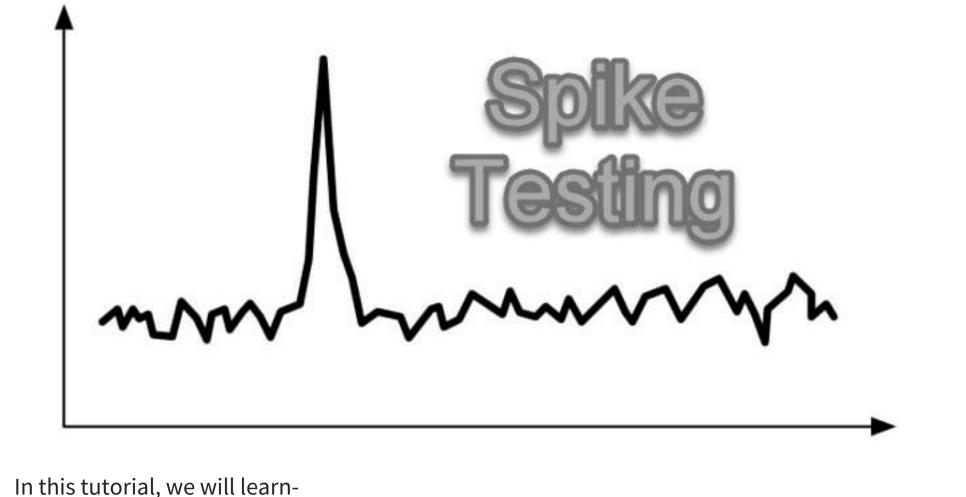
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What is Spike Testing? Learn With Example

Spike Testing

Spike Testing is a performance testing type used to test software applications with extreme increments and decrements in load. The main purpose of spike testing is to evaluate the behavior of software applications under sudden increment or decrement in user load and determine recovery time after a spike of user load. It is performed to estimate weaknesses of

software applications.



What is Spike Testing?

- Goal of Spike Testing
- How to do Spike Testing?
- Examples Spike Testing Scenarios:
- Advantages and Disadvantages of Spike testing

Recovery Scenarios on Spike Loads

- Tools for Spike Testing:
- **Goal of Spike Testing**
- The goal of Spike testing is to see how the system responds to unexpected rise and fall of

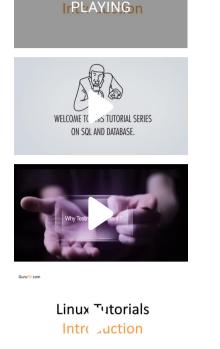
the user load. In Software Engineering Spike testing helps determine system performance will deterioration when there is a sudden high load.

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as low as possible.

Black Friday.

in your solution.



Another goal of Spike Testing is to determine the recovery time. Between two successive spikes of user load, the system needs some time to stabilize. This recovery time should be

How to do Spike Testing? Here are six simple steps to perform spike testing

Step 1) Determine the Max User Load capacity of your software application

Step 2) Prepare the Testing Environment and configure it to record performance

parameters.

Tool of your choice **Step 4)** Rapidly increase in load, to the system for a set period.

Step 3) Apply expected maximum load to your Software Application using a Performance

Step 5) Gradually reduce the load back to its original level. Step 6) Analyze the performance graphs. Metric to be considered are Failures, Time Taken,

Virtual Users, etc.

Example Spike Testing Scenarios: • When an eCommerce store is launching special deals with great discounts such as on

• When a web application is live streaming a favorite TV program. • When a flash sale is going on a daily deal site.

Recovery Scenarios on Spike Loads

nate functional tests simply by clicking

- When the certain content of a site goes viral over the Internet. • A new system is released for production, and multiple users want to access the system.
- A power outage may cause all users to lose access to a system. After the outage issue
- resolved all users then log back onto the system simultaneously.
- Three main recovery scenarios can be configured to guard against spikes

OPEN

1. Use cloud platforms like AWS, Azure to dynamically increase server capacity in tandem with the user load

2. Do not allow the application-access to some users, so that system does not face heavy

- load. This stops people above the maximum designed load from entering into the system. Thus protects the system from the threat of an excessive load. 3. The site admin allows users to join the system. However with warning that they may face
- performance. However, the user will be able to work with the system. Advantages and Disadvantages of Spike testing

slow response because of heavy load. This may result in the adverse effect on the system

Advantages Disadvantages • The performance of the software must The only disadvantage of Spike Testing be maintained at any costs. However, is that it is an expensive testing process.

So, it needed setting up special test

conditions. However, over the longer

duration, it will surely give a positive

- helps test such scenario. ROI. • In the standard testing method, the bad to worst-case scenarios may not be addressed. However, ignoring them
- **Tools for Spike Testing:** 1) Jmeter The Apache JMeter is a java open source spike testing tool. It is specially designed to load functional test behavior and measure performance. This performance testing tool can be

when there is an extreme increase in the

load of any system, there are high

chances of the issues. Spike Testing

does not mean that they will never

of spike testing.

occur. Therefore, every software should

worst case scenario is loading which can

be judged and minimized with the help

ready for such possibilities. One such

used to analyze and measure the performance of web application or a variety of services. Today, it is widely used for the functional test, database server test.

and other apps. It helps to determine the performance and result of the application even under the heavy load. **Conclusion:**

• Spike Testing is a software testing method. In this method, applications are tested with

Loadrunner is a load testing tool for Windows and Linux, which allows spike testing of web

unusual increment and decrements in the load. • The right approach to do spike testing is to unexpectedly increase the number of users followed by an immediate decrease in the load.

Prev

2) Loadrunner

• Jmeter is one such useful tool to do spike testing.

Report a Bug

launching special deals with great discounts such as on Black Friday. Alternatively, when

• Examples of real-life Spike testing scenarios are - when an eCommerce store is

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Performance Testing:

Difference Discussed

What is Performance

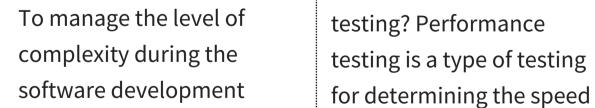
Stress

Testing vs

SDLC SOFTWARE TESTING Waterfall Load **Testing vs** VS.

• The unexpected load is the main attribute of the deal.

a web application is live streaming a favorite TV program.



SOFTWARE TESTING What is **TEST HARNESS?**

cycle, various SDLC model

Incremental vs. Spiral vs.

Rad Model: Key

Difference

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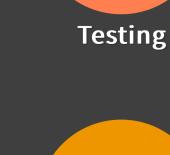
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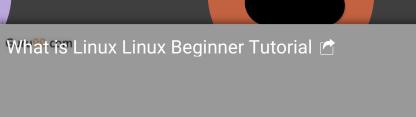
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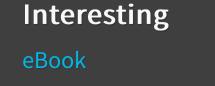




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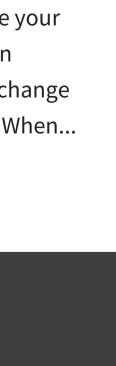
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