What is Volume Testing? Learn with Examples

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# **Testing**

# **Tutorials**

Condições da Campanha:

Test Case Design

**Stress Testing** 

**Volume Testing Test Basis** 

**Scalability Testing** 

## What is Volume Testing?

**VOLUME TESTING** is a type of Software Testing, where the software is subjected to a huge volume of data. It is also referred to as flood testing. Volume testing is done to analyze the system performance by increasing the volume of data in the database.

With the help of Volume testing, the impact on response time and system behavior can be studied when exposed to a high volume of data.

For example, testing the music site behavior when there are millions of user to download

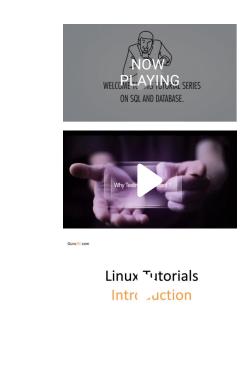
### Benefits of Volume Testing • By identifying load issues, a lot of money can be saved which otherwise will be spent on

- application maintenance. • It helps in a quicker start for scalability plans
- Early identification of bottlenecks
- It assures your system is now capable of real-world usage

### The objective of performing the volume testing is to

Why to do Volume Testing

the song.



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• To identify the problem that are likely to occur with large amount of data

• Check system performance with increasing volumes of data in the database

- To figure out the point at which the stability of the system degrades
- Volume Testing will help to identify the capacity of the system or application normal
- and heavy volume

### In volume testing, following things need to be tested

How to do Volume Testing

• Test to check if there is any data loss

- Check the system's response time
- Check if the data is stored correctly or not
- Verify if the data is overwritten without any notification
- Check for warning and error messages, whether it comes at all for volume problems Check whether high volume data affects the speed of processing
- Does system have the necessary memory resources
- Does volume test executed on the whole system
- Is there any risk if data volume is greater than specified
- Is there any guarantee that no larger date volume will occur than specified
- Best practices for high volume testing

### The best practices for high-volume testing are

Secure your catch with a modern and user friendly system.

 Stop all servers and check all logs • Before the load test manually execute the application scenario

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- For most useful results stagger the number of users
- To overcome license constraints, balance think time
- Be cautious with the new build
- Analyze the use case for improvement once a baseline has been established • A repetition of particular parts of volume testing becomes inevitable in case there is a
- performance bottleneck
- **Volume Testing Vs Load Testing**

# **Volume Testing**

#### application with large number of data in database is possible

• Volume testing is testing of an

volume of data. It may include

increasing size of the file

• While in load testing, application is subjected to certain level of load to analyze the behavior of the application

**Load Testing** 

- Volume testing verifies if the system • Load testing checks the performance of responds as expected for a certain the system when the user load is
  - number of the file

increased. It may include increasing

#### • Fragmentation of memory difficult to generate Dynamic generation of keys • Relational Integrity of generated data

**Challenges in Volume Testing** 

- **Summary:** • In Software Engineering, Volume testing is a way to check system performance for high

• It is a non-functional testing

are few challenges of Volume Testing

• Fragmentation of memory difficult to generate and relational Integrity of generated data

# Prev

data loads

**SOFTWARE TESTING** 

Report a Bug



Tier), 3-

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**Tier** 

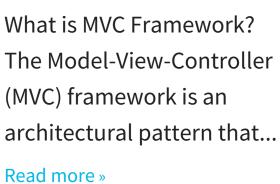
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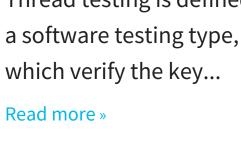
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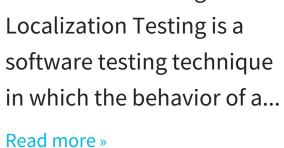
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