What is Response Time Testing?

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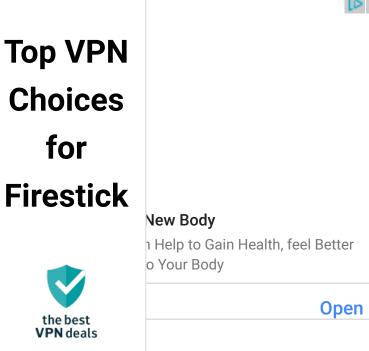
Response Time Testing

Decision Table Testing

Benchmark Testing

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RESPONSE TIME TESTING measures the

What is Response Time Testing?

time taken for one system node to respond to the request of another. It is the time a system takes to reach a specific input until the process is over. For example, you have API, and you want to know exactly how much time it takes to execute it and return data in JSON. Response Time measures the server response

of every single transaction or query.

Response time starts when a user sends a request and ends at the time that the application states that the request has completed.



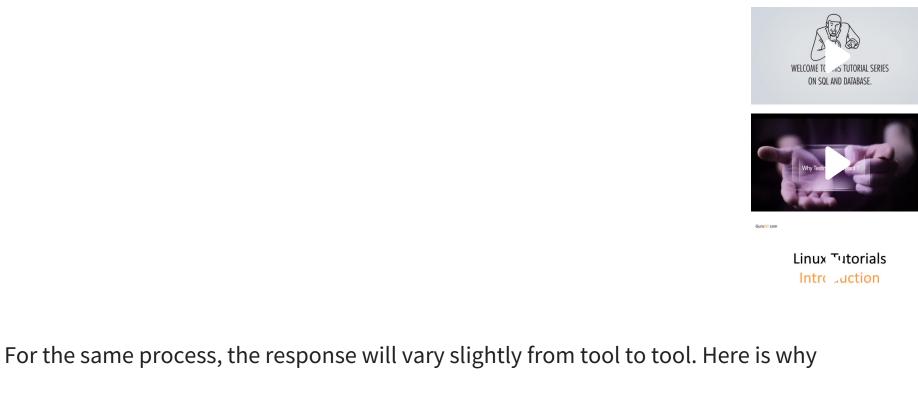
• How to Measure Response Time?

- Types of Response Metrics
- Three important response time values
- Response Time testing Tools
- **How to Measure Response Time?**
- To Measure Response Time, we can use test tools by surrounding an important business

actions which users perform in application to complete a business task like login to the application or to purchase a book on Amazon.com.

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time



Extra items recorded when monitoring user loads

• Computing metrics gathered by each tool increases the response time due to high resource consumption.

• Method of calculating metrics gathered by each tool

- The architecture of the two tools may be different **Types of Response Metrics:**
- **Response Time Metrics Explanation**

Average Response Time

	Average Response Time includes the loading time of HTML, CSS, XML, images, JavaScript files, etc. Therefore, the average is affected when slow components are present in the system.
Peak Response Time	The Peak Response Time helps us to find potentially problematic components. It helps us to find all the irregularity in the website or system where a certain request is not handled correctly. For example, there may be a large database query executed which can affect the response time. This query does not permit the page to load at the desired time.
Error Rate	The Error Rate is a mathematical calculation which displays the percentage of problem requests against all requests. This percentage counts all HTTP status codes displaying an error on the server. It also counts requests which are time out.
Three important response time values:	
Response time testing has two most essential characteristic:	

It shows how long a user needs to wait for the server to the response its request.

Following are key response time values

Average response time

• Maximum response time.

Response Time 0.1 Second

response time is 0.1, users always feel that the application or system is responding instantly, and do not feel any interruption.

Significance

It is most preferred response time. If the

It is the defined as the maximum limit of

unlikely to feel any interruption, though

acceptable response time. Users are

1.0 Second

	they may experience some delay. The response time of more than 1-second may interrupt user experience.	
10 Seconds	It is a maximum limit after which response time goes beyond the acceptable limit. However, in today's time, if response time exceeds 6 seconds, the user will leave that site or quit the application.	
Generally, response time should be fast as possible in the interval of 0.1 - 1 second.		
However, people can adapt a slower response times, but they will never be happy with a		
response time greater than 2 seconds. Lesser the response times, better is client		
satisfaction, lesser costs, higher customer satisfaction.		
Response Time testing Tools:		
There are many Response Time testing tools are available in the market. Three most		

testclix.com tests simply by clicking OPEN Robot Testing A

Download link: http://jmeter.apache.org/download_jmeter.cgi

Download link: https://software.microfocus.com/de-de/products/loadrunner-loadtesting/free-trial

prominent names are:

1) JMeter:

2) Load Runner:

3) AEM:

Download link: https://helpx.adobe.com/in/experience-manager/6-

3/sites/developing/using/aem-eclipse.html

Adobe Experience manage which is shortly known as AEM is another effective tool for

testing response time. It allows checking problematic queries, request and error message.

Load Runner is a load testing product developed by Microfocus. LoadRunner response

testing tool works on the principle of simulating Virtual Users on the subject application.

Jmeter can be used for load and performance testing on the target application.

Conclusion: • Response time refer to the time take for one system node to respond to the request of

• The Average Response Time is the average time taken for every round trip request

• Three crucial response time values are: 0.1 seconds, 1.0 second and 10 seconds

• Three most used response time testing tools are Jmeter, LoadRunner, and AEM.

• Peak Response Time helps us to find that what components are potentially problematic. • The Error Rate is a mathematical calculation which displays the percentage of problem

another

requests.

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Ad hoc Testing Ad hoc

unstructured software

Testing is an informal or

testing type that aims to...

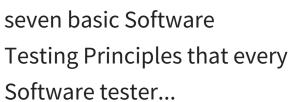
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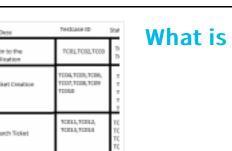
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Requirements Traceability Matrix (RTM)? Example **Template**

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Model in

SDLC?

Waterfall Model

Advantages &

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& Answers

Following are frequently

Questions for freshers as

asked SQL Interview

Model? WATERFALL MODEL

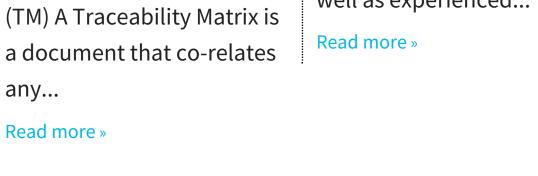
is a sequential model that



process with Start and End transactions. A business process may be an action or a set of

• Tools Simulate the load and capture speed which can make a difference in the response

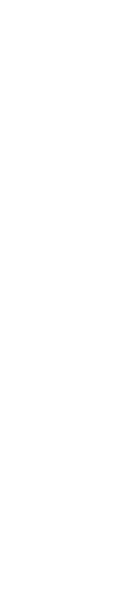
The Average Response Time is the average time taken for every round trip request. The











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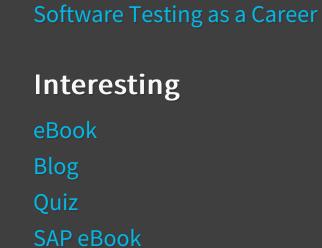


Hacking



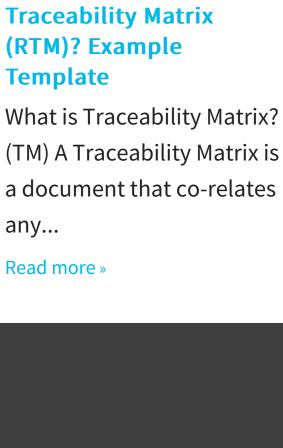
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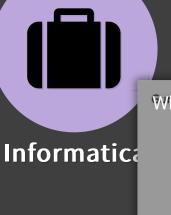
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What is Response Time Testing?

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