



**Japneet
Sachdeva**

8

Performance

**Testing terms every QA
should know**

Japneet Sachdeva

Senior QA Automation Engineer
Senior Career Counsellor





**Japneet
Sachdeva**

Latency

1. Latency is the delay in network communication
2. It shows the time that data takes to transfer across the network
3. You can measure network latency by measuring ping time

Term 01

for QA/Test Automation/SDET





**Japneet
Sachdeva**

ThroughPut

1. Throughput refers to the average volume of data that can actually pass through the network over a specific time
2. Indicates the number of data packets that arrive at their destinations successfully and the data packet loss
3. If you want to test throughput manually, you would send a file and divide the file size by the time it takes to arrive

Term 02

for QA/Test Automation/SDET





**Japneet
Sachdeva**

Response Time

1. Response time refers to the time taken by the system to respond to a user request or an event
2. The users will leave the site if it takes more than three seconds to load
3. A website with a 1.2-second load time has an excellent response time; however, it cannot be same for OTT or Finance apps

Term 03

for QA/Test Automation/SDET





**Japneet
Sachdeva**

Users

Concurrent Users : refer to the number of users accessing the system simultaneously

Virtual Users : also known as VUs, are software programs or scripts that simulate the actions and behavior of real users on an application

Term 04

for QA/Test Automation/SDET





**Japneet
Sachdeva**

TPS & Ramping

TPS : Transactions Per Second – it can be calculated based on how many transactions are executed over a certain duration of the test and then calculate it for a second

Ramp Up period : the load on the system is gradually increased from a low level to a desired peak level

Ramp down period : In this phase, the load on the system is gradually reduced to zero, simulating a decrease in user activity or the end of a busy period

Term 05

for QA/Test Automation/SDET





**Japneet
Sachdeva**

Think time & Protocol

Think Time: a real-world user takes time to read the content of a web page or fill in the details on a web form. Such activities create a gap between the two actions of a user. Think time simulates the same time gap by adding a delay between two transactions

Protocol : the method of communication between a client and the server

Term 06

for QA/Test Automation/SDET





**Japneet
Sachdeva**

Stress, Endurance & Volume tests

Stress test : applying load beyond anticipated production load, meaning validating the breakpoint of application

Endurance test : Applying production application load but for extended duration

Volume test : Applying huge amount of data for tests, such as artificially increasing database size

Term 07

for QA/Test Automation/SDET





**Japneet
Sachdeva**

BaseLine and Benchmarking

Baseline : Current system performance or base performance expected out of the system

Benchmarking : comparing system performance with baseline. It's primarily used to improve the system performance from baseline

Term 08

for QA/Test Automation/SDET



www.japneet-sachdeva.com

Senior QA Automation Engineer
Senior Career Counseller

Checkout my courses, E-
Books for Interview Prep

Click on “View Portfolio,”
or visit my profile

Like & Share



**Japneet
Sachdeva**