Performance Testing

Performance Testing is a type of software testing that ensures software applications to perform properly under their expected workload. It is a testing technique carried out to determine system performance in terms of sensitivity, reactivity and stability under a particular workload.

Performance Testing is the process of analyzing the quality and capability of a product. It is a testing method performed to determine the system performance in terms of speed, reliability and stability under varying workload. Performance testing is also known as Perf Testing.

Performance Testing Attributes:

Speed:

• It determines whether the software product responds rapidly.

Scalability:

• It determines amount of load the software product can handle at a time.

Stability:

• It determines whether the software product is stable in case of varying workloads.

Reliability:

• It determines whether the software product is secure or not.

Types of Performance Testing:

Load testing:

• It checks the product's ability to perform under anticipated user loads. The objective is to identify performance congestion before the software product is launched in market.

Stress testing:

• It involves testing a product under extreme workloads to see whether it handles high traffic or not. The objective is to identify the breaking point of a software product.

Endurance testing:

• It is performed to ensure the software can handle the expected load over a long period of time.

Spike testing:

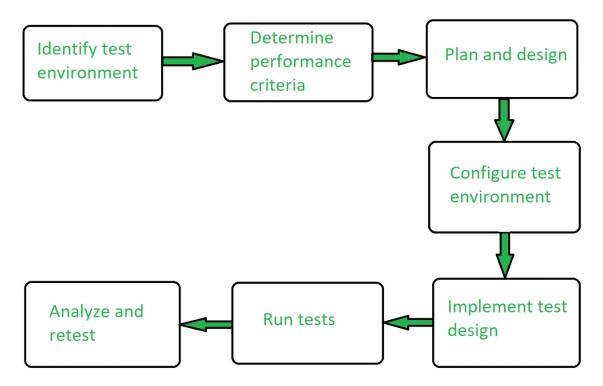
• It tests the product's reaction to sudden large spikes in the load generated by users.

Volume testing:

 In volume testing large number of data is saved in a database and the overall software system's behavior is observed. The objective is to check product's performance under varying database volumes.

Scalability testing:

• In scalability testing, software application's effectiveness is determined in scaling up to support an increase in user load. It helps in planning capacity addition to your software system.



Advantages of Performance Testing:

- Performance testing ensures the speed, load capability, accuracy and other performances of the system.
- It identifies, monitors and resolves the issues if anything occurs.
- It ensures the great optimization of the software and also allows large number of users to use it on same time.
- It ensures the client as well as end-customers satisfaction.