

Team - 26

Project ID - 6

Project Aim:

- To gain in depth knowledge of how standard load and stress testing of a web application and other types of servers work.
- By doing load and stress testing, one can know the peak capabilities that a server is capable of !
- The testing can also be done as a DOS attack which checks the level of resistance by the attack.

Project Approach:

- Taking atleast 2 nodes. one for server and other for client. Architecture to be thought in detail further. Number of nodes can be greater than 2.

Prospective Testing Frameworks :

- 1) Funkload - Distributed Testing Framework
- 2) Sysbench OLTP for Mysql
- 3) netperf
- 4) Httpperf

Prospective Servers to be tested:

- 1) Mysql - database server
- 2) Apache - web server
- 3) Nginx - web server, load balancer
- 4) Redis - In Memory, key-value storage

Prospective Metrics to be Measured for testing

- 1) CPU Utilisation
- 2) Memory Utilisation
- 3) Disk Utilisation
- 4) Network Utilisation
- 5) Load Testing
- 6) Stress Testing

Extra Efforts if time permits:

- Testing of performance of servers on 2 node kubernetes cluster.

Members :

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