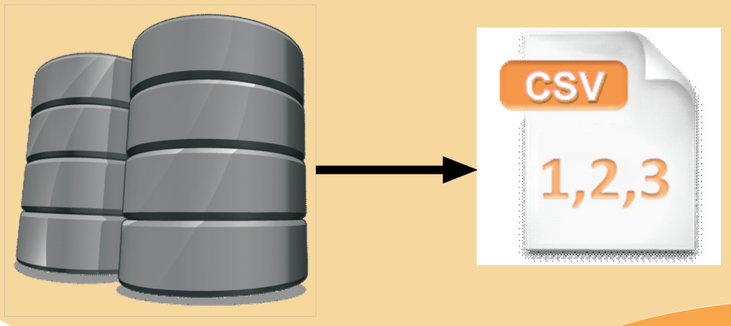
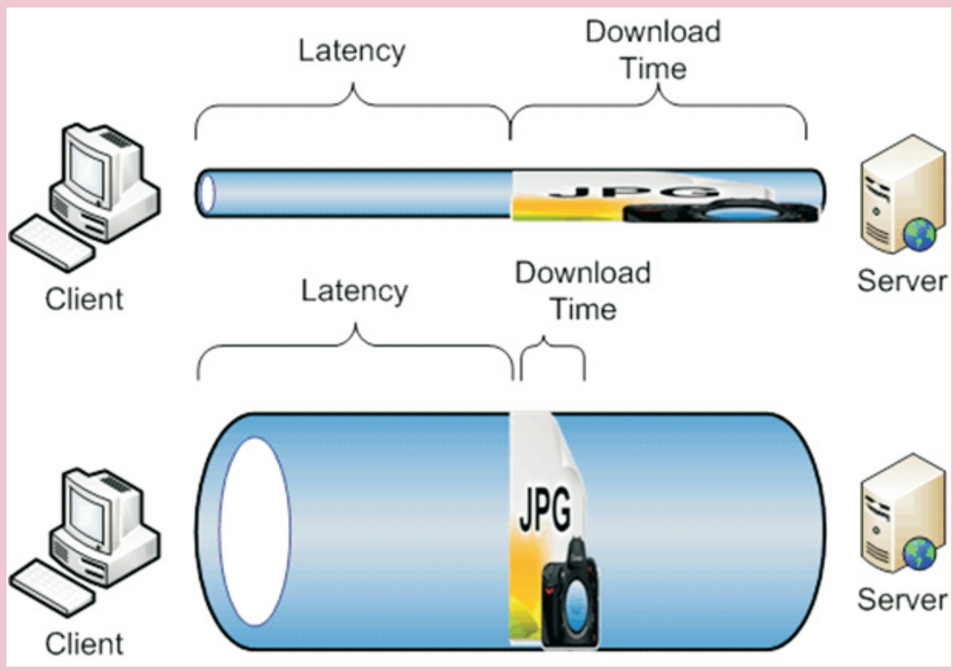
Enhancement of JMeter

	A	B	C
1	First Name	Last Name	Email Address
2	Jane	Doe	jane@gmail.com
3	John	Doe	john@gmail.com
4	Chris	Perkins	cperk@gmail.com
5	Eva	Davis	eva@gmail.com
6	Mitchell	Tarver	mitch@gmail.com
7	Nathan	Woodward	nathanwoodward@gmail.com

CSV file contains various parameters like username and password. These files can be automatically generated from databases, just by giving Database URL and authentication details. This will save time spent in creating CSV file manually. These CSV files can be automatically used in test plan while performing tests.





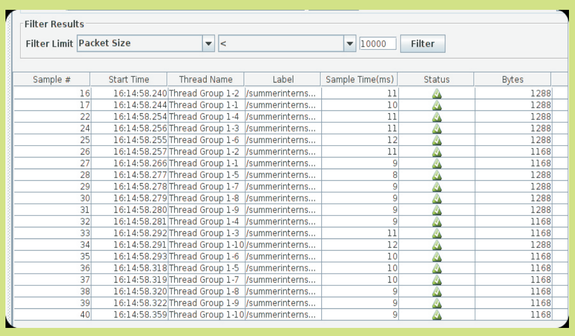
Bandwidth Throttling is used to simulate various bandwidth limits. In real world, different users have different bandwidths. **Dynamic bandwidth throttling** changes bandwidth at runtime, based on error rate (user defined limit). This stabilizes the test, and reduces errors at the cost of response time.

Auto CSV Generation

In a large test plan, there are hundreds of samples generated. These samples sum up to a large amount of data. This plugin filters the results based on user defined parameters and values, to ease viewing and analyzing results.

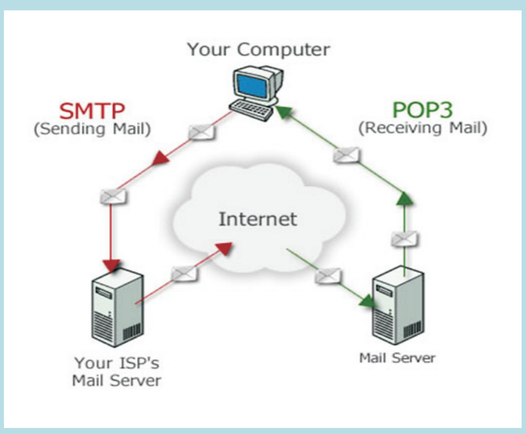
Bandwidth Throttling

Filtered Results In a Table



SMTP Defaults Configuration

Configuration elements are used to set default values for the samplers in JMeter. **SMTP Defaults** is a configuration element that sets default values for all the SMTP samplers in a test plan.

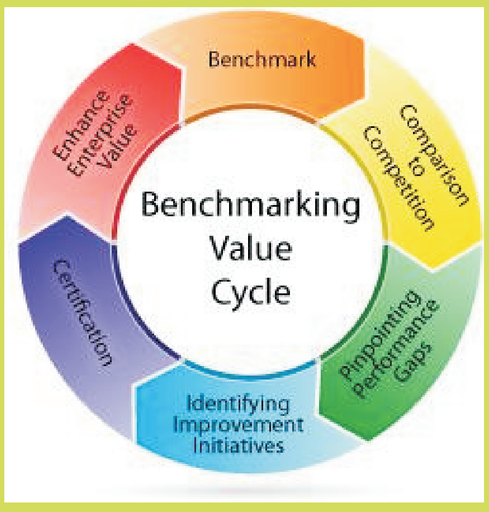


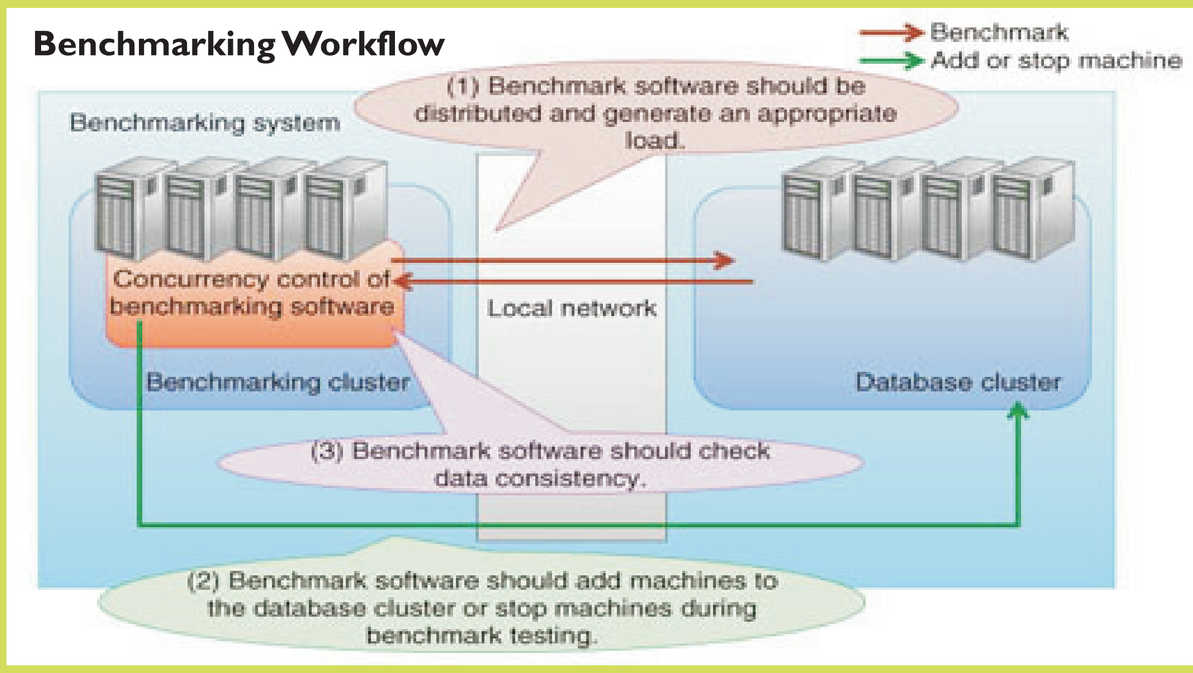
Enhancements

Jmeter is an **O**pen **S**ource load testing tool by Apache. Various servers and applications can be load tested using JMeter, viz. Web servers, SOAP, Database via JDBC, LDAP, Mail - SMTP(S), POP3(S) and IMAP(S), Native commands or shell scripts, Java Applications, etc.

TPC-C Sampler

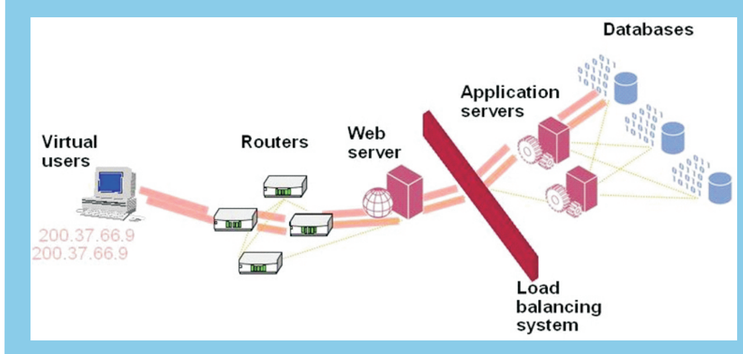
TPC-C Sampler creates and populates a database with lakhs of entries. The test is performed according to TPC-C standards, with precise transactions, warehouses, etc., at the click of a button. The output of the test gives the performance metric **tpmC** (transactions per minute TPC-C).





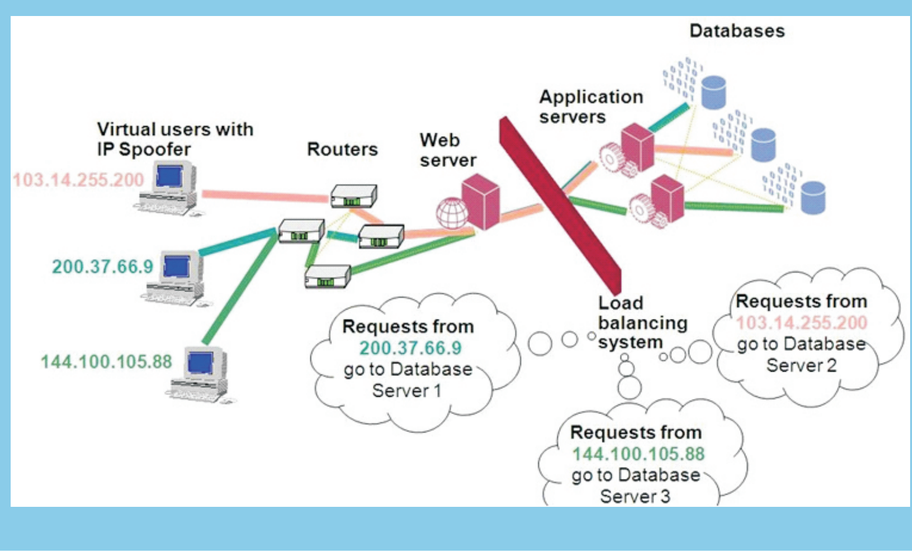
IP Spoofing

In real world, a server receives requests from different IPs, and may react differently to different IPs. In normal testing without IP spoofing, JMeter performance test fails, as all the requests are received from a single IP. **IP Spoofing** enables us to send distinct IP for each request.



Without IP Spoofing

With IP Spoofing



Contributers:

Buddha Sushmitha
Dhruv Joshi
Manisha Choudhury
Naman Choudhary
Shekhar Saurav
Surabhi Mour

Fundamental Research Group, Dept of CSE, IIT Bombay

Summer Internship 2013(9th May to 7th July) email: frg@cse.iitb.ac.in

design by: Bhairav