J meter

## What is j meter?

Apache j meter is a open source software used as load testing tool for analyzing and measuring performance of variety of services.

## Advantages

* User friendly- J meter has comprehensive GUI that helps to create test plans and configure the elements.
* Highly extensible and platform independent.
* Open source
* Support – designed for performance testing but also supports other non functional tests such as stress testing, distributed testing, web service testing.
* Documentation.
* Recording – j meter allows user to record HTTP or HTTPS to create test plan using recording option.
* Reporting

## Elements of Jmeter

1. Thread group
2. Samplers
3. Listener
4. Configuration.

Thread group: thread group is a collection of threads. each thread represents one user using the application which have to be tested. Each thread simulates one user request to the server and the controls of the thread group allows you to set the number of threads for each group.

SAMPLERS: it is of 6 types.

* FTP request
* http request
* JDBC request
* BSF sampler
* Access log sampler
* SMTP sampler.

Listeners: They show the result in different forms such as-

* Tree
* Table
* Log
* Graphs

Configuration: It basically sets default and variables for later used by the samplers. Types of Configuration:

* CSV dataset config
* HTTP cookie manager
* Login config element
* HTTP request defaults
* FTP request defaults.