Jmeter – Tool used for performance testing

Performance Testing – checks the performance of the system/application under load

Responsiveness, speed, scalability, stability

Jmeter, load runner, silk permformer

Jmeter – Open source, UI, Intergrate with tools/ Jenkins(CI – continuous integration, environment)

load runner – liesence based, UI good, learning wise we have to learn very mech when compared to jmeter.

**Types of performance testing:**

Load Testing – Testing the application

Stress Testing – To know the break point of the application

Volume Testing – Testing on Database

Endurance Testing – Testing the application for high load over a period of time(12hrs, 24hrs)

**User point of view** – How fast the application is responding

Bussiness point point of view – how many users I am going to serve, how fast I am going to serve

Dev, owners, testers

system hardware configurations – OS, CPU, memory, n/w, bandwidth, servers

**In Jmeter Tools** – how we are going to configure a load test

large set of data, no of users, time, application, scenarios, Assertions, listensers …

**assertions** – verifying wheater the excecuted o/p to similar to the requirement doc

**listeners** – to view any results, configure, graphical view

**Things to observed in output:**

Load Time- time taken to load the page

Connect time – time taken to connect to the server

Latency – time taken to get the first byte of information/ response

Size – response bytes

Sample Error % - total number of errors occured

Throughput – no of requests processing per sec

Webservices Testing

Soap webservice, Rest API’s

http://maps.googleapis.com/

/[maps/api/geocode/xml?address=1600+Amphitheatre+Parkway,+Mountain+View,+CA&sensor=false](http://maps.googleapis.com/maps/api/geocode/xml?address=1600+Amphitheatre+Parkway,+Mountain+View,+CA&sensor=false)