Introduction to JMeter and Taurus

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Overview

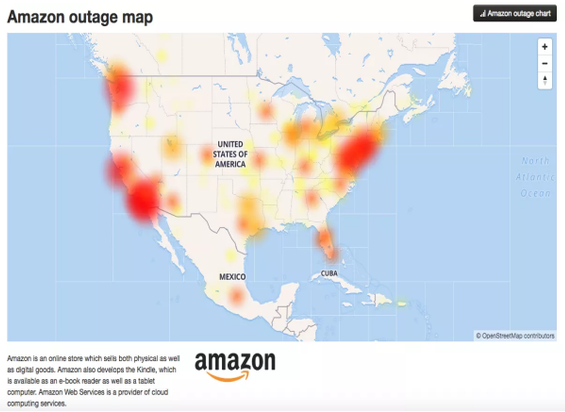
- Why Performance Engineering?
- Holiday Readiness and Holiday Outages
- Load Testing and Performance Engineering
- JMeter and Taurus
- Demo
- Questions

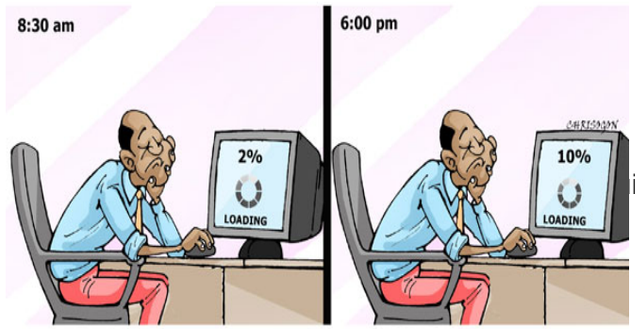
Why Performance Engineering?

To ensure that your application/product is:

- Scalable - The ability of a computer application or product to continue to function well when it is changed in size or volume in order to meet a user need.
- Reliable - The ability of a system or component to function under stated conditions for a specified period of time.
- Meets Service Level Agreements(SLAs) for - Response Time, Throughput and Utilization.

Holiday Readiness and Outages





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Holiday Readiness and Outages

What is Performance Engineering?

- Techniques applied during a systems development life cycle to ensure the non-functional requirements for performance like
  - Throughput,
  - Latency, or
  - Resource Utilization

Some Facts Around Response Times

- 47% of consumers expect a web page to load in 2 seconds or less.
- 40% of people abandon a website that takes more than 3 seconds to load.
- A 1 second delay in page response can result in a 7% reduction in conversions.
- If an e-commerce site is making $100,000 per day, a 1 second page delay could potentially cost you $2.5 million in lost sales every year.

Load Testing and Performance Engineering

1. Understand the traffic patterns.
2. Design the workload.
3. Write load test scripts.
4. Run the load tests.
5. Monitor and Analyze.
6. Optimize.
7. Repeat 3 through 6!

To complete this cycle, knowledge of at least one load testing tool is necessary.

Load Testing/Performance Testing Tools

Tools that can simulate a heavy load on a server, group of servers, network or object to test its strength or to analyze overall performance under different load types.

Popular Load Testing Tools

- JMeter
- Blazemeter
- NeoLoad
- LoadRunner
- Gatling
- WebLoad

JMeter and Taurus

- Load Testing tool that supports dynamic and static web testing.
- Ability to load and performance test many different protocol types:
  - Web - HTTP, HTTPS
  - SOAP / REST Webservices
  - FTP
  - Database via JDBC
  - LDAP
  - Mail - SMTP(S), POP3(S) and IMAP(S)

Taurus

- Automation friendly framework to run JMeter tests more efficiently.
- Supports tools like:
  - JMeter
  - Gatling
  - Locust
  - Selenium
  - And many more.

Demo

Session Details

5 Weeks Series

Starting from July 22nd every wednesday and Thursday
Time: 8am - 9am PST

Questions?