

BOTTENECKS, DROP OUTS, TIMEOUTS AND MORE...
"Spot check common performance issues"

Jaziel Lopez, Experienced Software Developer

website: jlopez.mx github: [jazlopez](https://github.com/jazlopez) twitter: [@jjlopezmx](https://twitter.com/jjlopezmx)

Application Performance

- **Definition**

- Practical Example

- **Importance:**

- High Performance Use Case
- Low Performance Use Case

- **Software Development Release Cycle:**

- Plan ahead: Performance
 - Ecosystem
 - Platform

- **Conducting Testing**

- Configure Environment
- Spot check
- Regression

- **Benchmark and Report**

- Is your application scalable now?

DEFINITION

“A **continuous** development **strategy** to determine if an app **responds** to a specific usage **demand**”



- KEY FACTORS:
- Reduce user drop outs
- Increase traffic
- User Experience

- KEY FACTORS
- Optimize components
- Reduce bottlenecks
- Lower application costs

- KEY FACTORS:
- Reduce down time
- Data Integrity
- Platform scalable



IMPORTANCE

What do they have in

COMMON?



[CONT.] IMPORTANCE

... and what do they have in

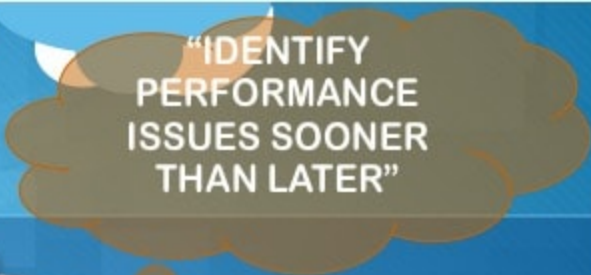
COMMON?



Netscape[®]

**“PERFORMANCE IS ESSENTIAL FOR HIGH
BUSINESS SYSTEM operations”**

AVOID LOW PERFORMANCE RELEASES



Requirements

"Ain't nobody got time for that"

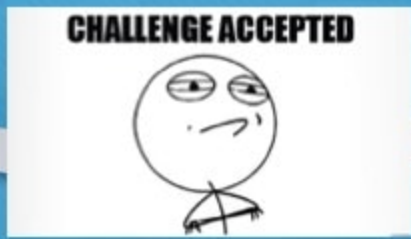


Analysis

Rollout / Support

"It runs on my machine... with my user"

Implementation



Testing



PERFORMANCE: PLAN AHEAD

PURPOSE: KNOW YOUR **ECOSYSTEM**
AND SYSTEM **BOUNDARIES**

AUDIENCE

- USER LAND APPLICATIONS HAVE DIFFERENT EXPECTATION LEVELS

USER DRIVEN

- USER LAND APPLICATIONS HAVE DIFFERENT CONTENT TAXONOMY

LOAD USAGE

- USER LAND APPLICATIONS HAVE DIFFERENT SCALABILITY NEEDS



PERFORMANCE: PLAN AHEAD

PURPOSE: WHAT **PLATFORM**
SHOULD I **USE**

DATA
CONCURRENCY

- YOUR PLATFORM SHOULD SUPPORT DATABASE ACID CAPABILITIES

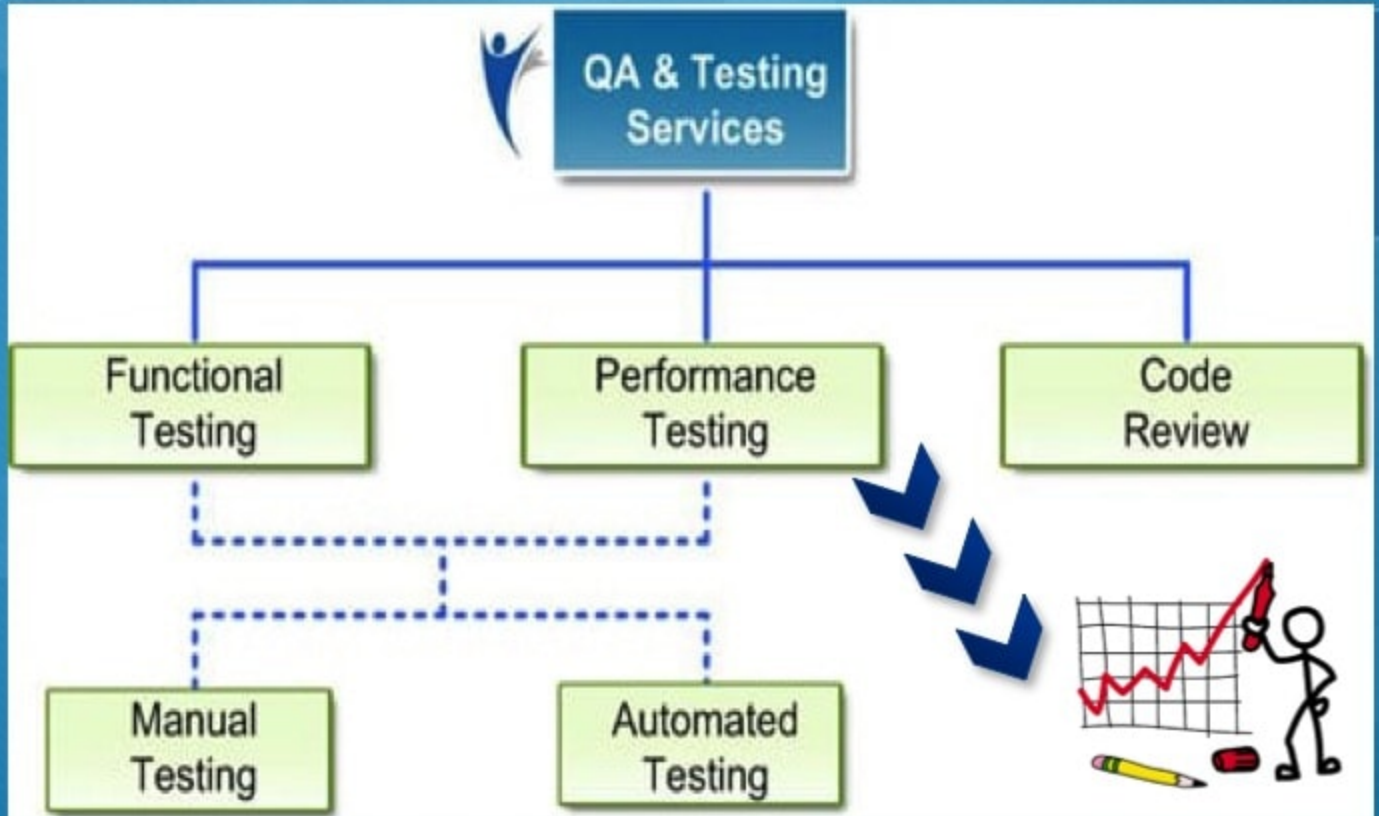
DATA
REPLICATION

- YOUR PLATFORM SHOULD SUPPORT MASTER/SLAVE DISK ARRAY

SPECIALIZED
SYSTEMS

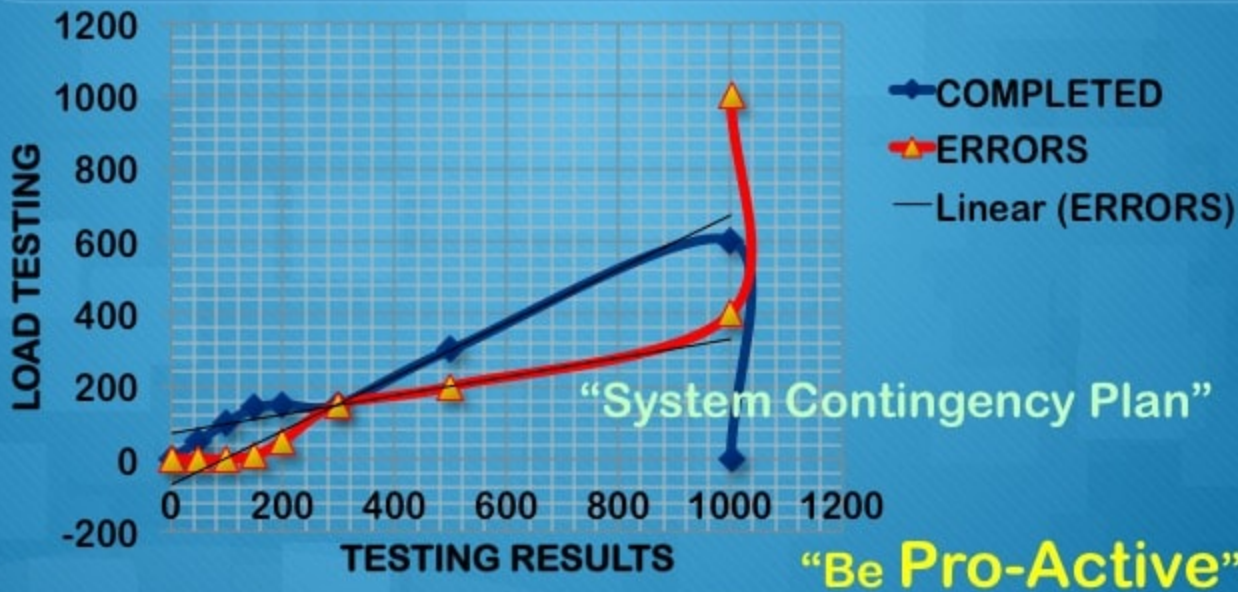
- YOUR PLATFORM SHOULD SUPPORT RUNTIME COMPILATION
(SPECIFIC KERNEL HEADERS)

CONDUCTING TESTING



PERFORMANCE TESTING: SPOTCHECK

“Analyze **PERFORMANCE TESTING** results:
SPOT CHECK where the application **CRASHES**”





CONCLUSION

QUESTIONS