Performance testing basics

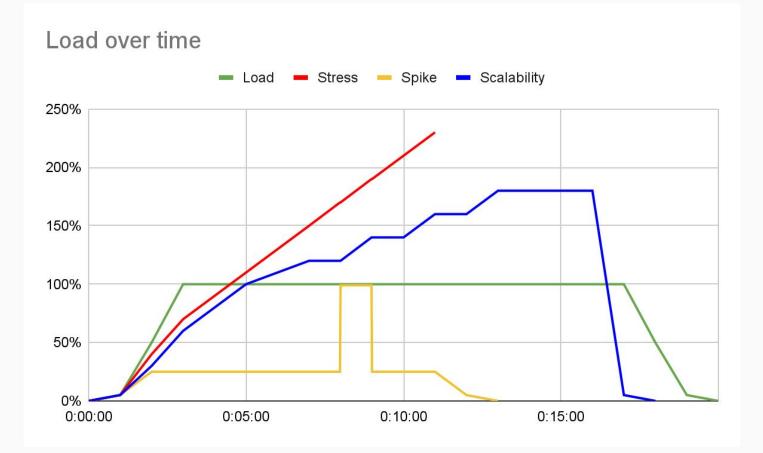


By Bundesarchiv, Bild 183-K1018-513 / CC-BY-SA 3.0, CC BY-SA 3.0 de, https://commons.wikimedia.org/w/index.php?curid=5665792

Remark

Terminology

Common Types



Endurance

Also Soak testing

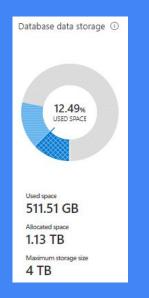
Average system load over long time period

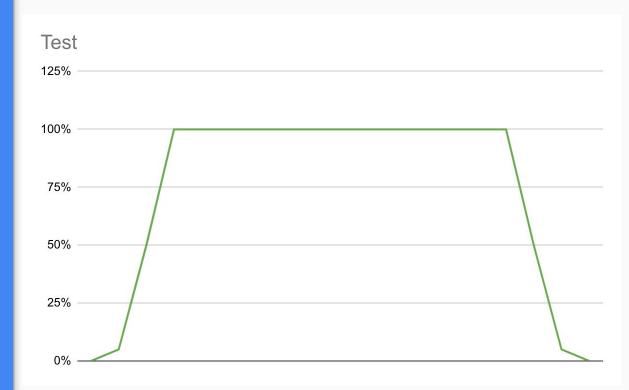
Test	
50%	
40%	
30%	
20%	
10%	
0%	

Volume

Also flood testing

Load test, with different data volume (e.g. in database)

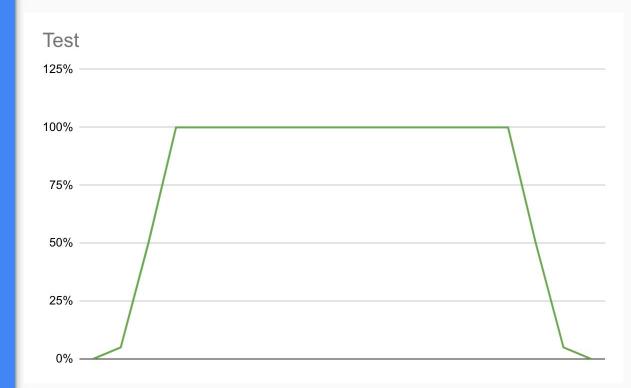




Chaos

Also Resilience testing

Load test + network or service disruption



Important facts

- 1. Test environment is the same as prod
- 2. No one is using test environment
- 3. 1 change at a time
- 4. 99th percentile, max time, amount of errors
- 5. Access to service metrics
- 6. Test-cases must be simple
- 7. Repeat the same test multiple times
- 8. Performance does not scale linearly
- 9. Need more than 1 test scenario

Combined

Load + functional

Chaos + functional

etc.



