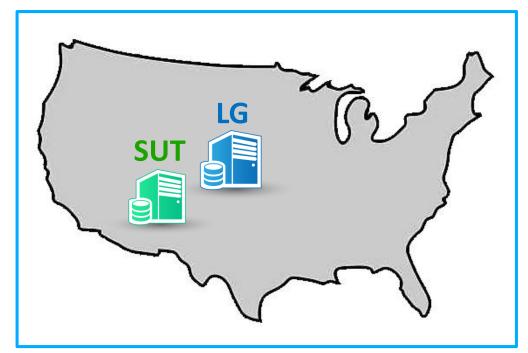


Global Last-Mile Load Testing with Neocortix October 2021

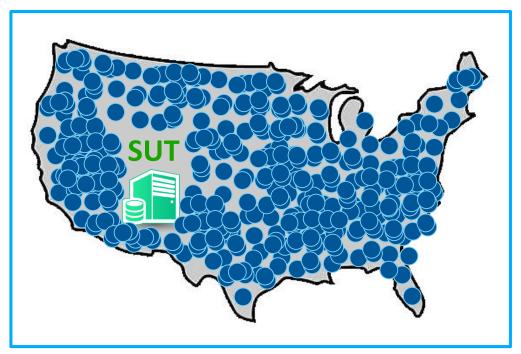
Conventional Load Testing Has A Big Problem

Conventional Load Testing



Powerful Load Generator (LG) in a High Performance Data Center Measures Uniformly Fast Response Times from Server Under Test (SUT). Performance Engineer says "Everything Looks Good!"

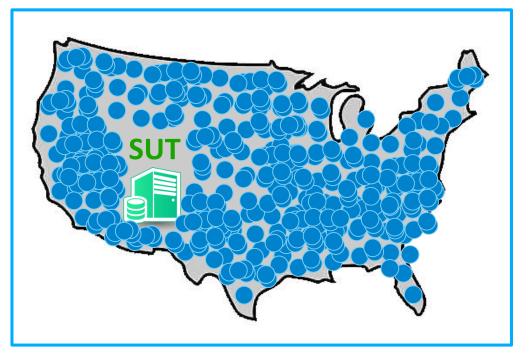
Real Users On Black Friday



Many Mobile Devices in Last-Mile Locations Measure Experience a Wide Distribution of Slower Response Times. Real Users say "Why Is This Website So SLOW?"

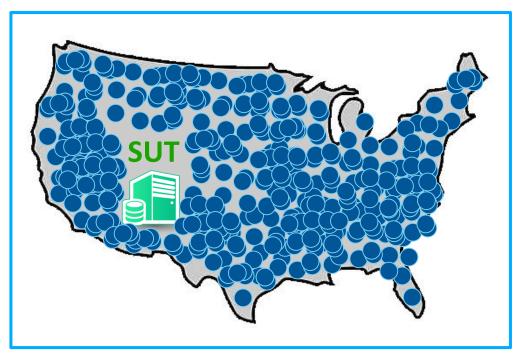
Neocortix Solves The Problem with a Worldwide Network of Mobile Devices

Neocortix Mobile Devices



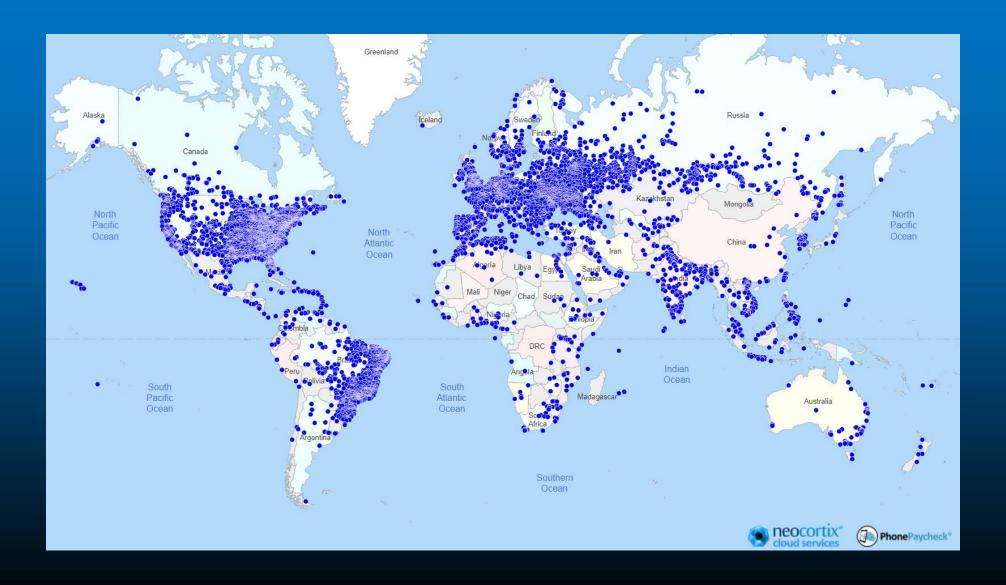
Neocortix Cloud Services puts Load Generators (LG) on Many Mobile Devices in Last-Mile Locations. Response Times match Real User Experiences. Performance Engineer measures Real User Experience.

Real Users On Black Friday

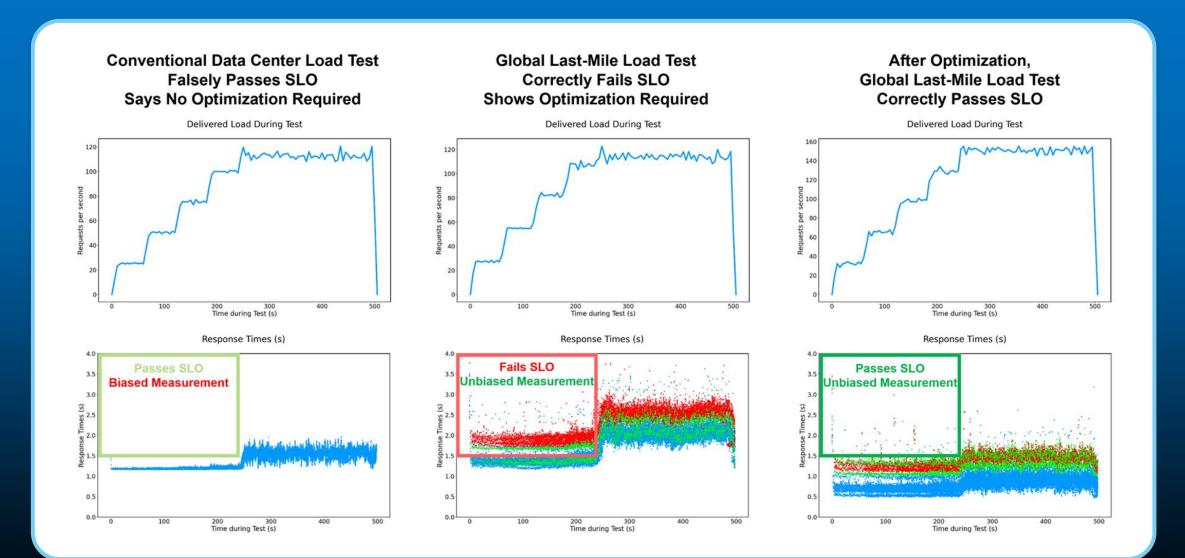


Many Mobile Devices in Last-Mile Locations Measure Experience a Wide Distribution of Response Times.

Neocortix Network of 90,000 Mobile Devices (including Waiting List)

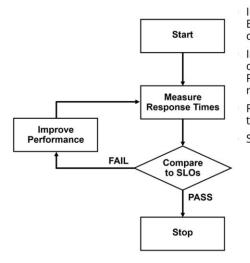


Case Study: Data Center Load Generator vs. Neocortix, with Optimization



Data Center Load Generators Lead to Wrong Optimization Neocortix Load Generators Lead to Correct Optimization

PERFORMANCE ENGINEERING Premature Termination of Optimization Loop Due to Biased Measurement



In an Optimization Loop, it is well-known that a Biased Estimator can lead to either instability or hard-limit catastrophic error

In Load Testing case, Biased Estimate is caused by using only High-Performance Servers in Nearby High-Performance Data Centers to deliver load and measure response times

Result is Premature Termination of Optimization Loop due to Biased Measurement

See also Boeing 737 MAX, another tragic example



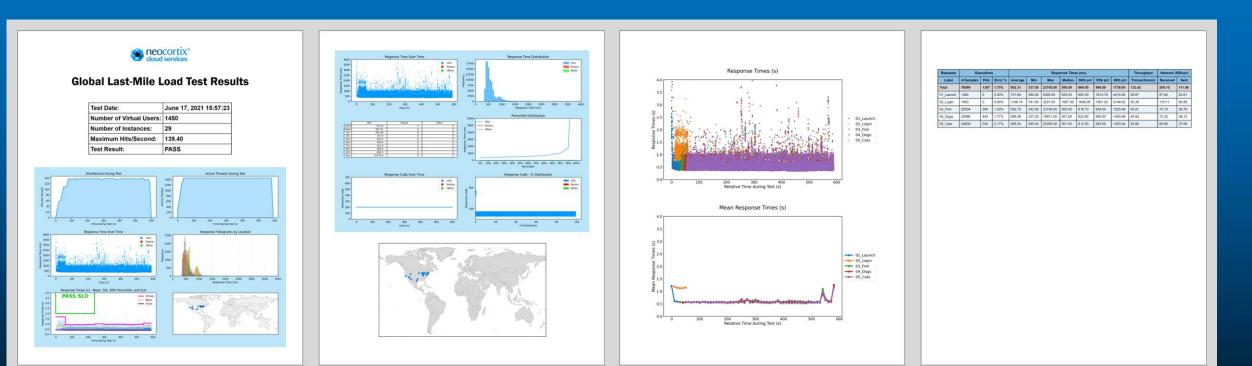
This Problem Could Cost You \$Millions In Lost Sales



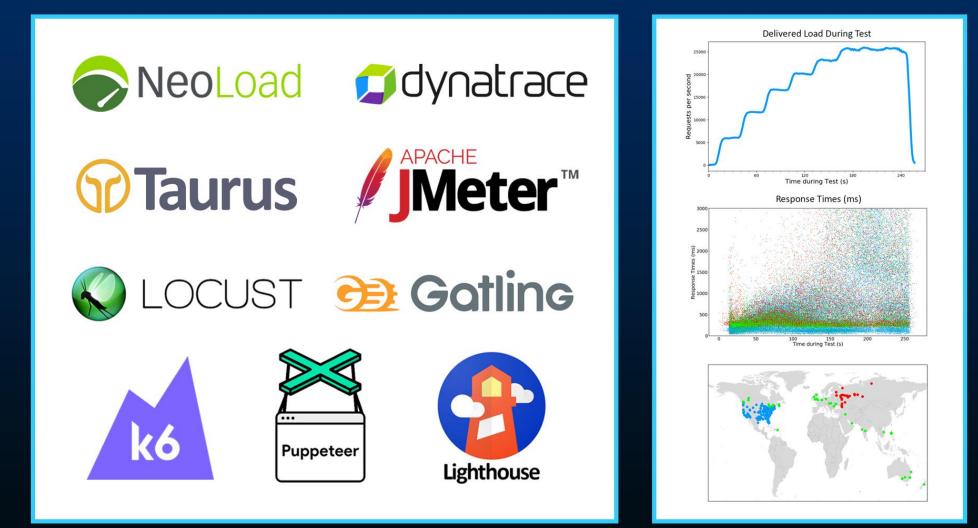
Accurately Measure End-User Experience With



Advanced Reporting



Support for Nearly All Major Load Testing Tools



Security



Our global network of Phones is now a network of Debian Linux Machines, in Secure Containers.

- File system isolation
- Process isolation
- Encryption at Rest
- Encryption in Flight
- Network Virtualization
- Rooted Device Detection and Blocking

This isolates and protects the Customer and the Phone Owner from each other.

Low Cost: 1/2 the Cost of AWS Instances

Price / Performance Example

Neocortix Scalable Compute instances have been priced at about 1/2 the cost of Data Center instances for a given computational capacity, as shown below:

AWS Reference	Neocortix
p2.8xlarge (\$7.20/hour)	SVGPU-1 (\$3.60/hour)
c5.18xlarge (\$3.06/hour)	SV-1 (\$1.53/hour)
p2.xlarge (\$.90/hour)	PCGPU-1 (\$.45/hour)
c5.4xlarge (\$.68/hour)	PC-1 (\$.34/hour)
c4.large (\$.10/hour)	Gold (\$.05/hour)
a1.large (\$.05/hour)	Silver (\$.02/hour)
a1.medium (\$.02/hour)	Bronze (\$.01/hour)

Affordable, Convenient Pricing Plans

Try Neocortix LoadTest for free now. Choose your plan later.

