



THREESIXTY LOGICA TESTING SERVICES



PERFORMANCE TESTING CASE STUDY

Intro for blog: Using Network balancer, we were able to limit the available network bandwidth according to our requirements and thus allowing us to test the application performance in a more realistic network situation. The stake holders were able to analyze the application stability under more real time situations.

CLIENT

Client: Our client is a chain of educational service centers in the U.S. It offers supplemental educational services for primary and secondary students in the U.S. along with reading, writing, mathematics, phonics, and study skills instruction, as well as test preparation for the SAT, PSAT, ACT, GED, high school entrance exams and more. Our client provides quality instruction to hundreds of thousands of students through a network of franchised and company-owned centers.

APPLICATIONS & REQUIREMENTS

- To test the stability and Performance of the application when put under load.
- The testing had to be carried out with the traffic generated from different physical locations and with different network simulations.

TOOLS AND TECHNOLOGIES

- Jmeter
- NetBalancer

PROBLEMS STATED/ CHALLENGES FACED

- Generate the traffic from different physical locations (not the ip spoofed traffic)
- The Network bandwidth needed to be simulated to test the application performance on different bandwidths i.e. 20 MBPS, 50 MBPS, 80 MBPS etc.

PROCEEDING & SOLUTIONS

- Our main goal was test the application performance in terms of performance KPI's and server resource utilization when 2000 concurrent sessions are being active on the application.
- For generating the traffic from different physical locations, we used the distributive testing approach in which we created master/slave configuration so that different tests should be invoked from different physically located machine and the results should get synced accordingly.
- The distributive testing approach allows us to suffice our objective of generating the traffic from different physical locations and reduces the manual efforts of executing different tests separately from different locations.
- For different network simulations, we used the third party tool 'Netbalancer' to control and limit the network bandwidth. With this tool, we can limit the available bandwidth according to our needs and can test the application accordingly.

ADVANTAGES OF THE TOOLS USED

- Network balancer tool allows us to limit the available network bandwidth according to our requirements and thus allowing us to test the application performance in a more realistic network situation.

BENEFITS TO THE CLIENT

- Optimization of cost and efforts.
- The stake holders were able to analyze the application stability under more real time situations.
- Strengthened trust and relationship with the client.

META-TAG

Optimization of cost & efforts helped the stakeholders to analyse the app stability under more real time situations that resulted in bonding with the client

CONNECT / COMMUNICATION



India Delivery Center

360 Logica

H-50, Sector-63, Noida. 201301 (India)

Phone: +91 (120) 487 830 07

US Sales Office

1110, Polynesia Dr. Foster City

CA 94404 (USA)

Phone: +1 408 838 4728

UK Partner Office

Suite 560, No 28 Old Brompton Road.

London (UK) SW7 3SS

Phone: +44 800 098 8331

THREESIXTY LOGICA TESTING SERVICES

For Sales /General Enquiry



www.360logica.com

