# APPOSITE
TECHNOLOGIES

DNS Storm

Traffic Generation Re-Imagined

Generate A High Scale of DNS Queries to Test Carrier-Grade DNS Servers

OVERVIEW

DNS Storm measures the performance and capacity of carrier-grade DNS servers by stress testing them against a high scale of DNS queries. Use DNS Storm to emulate a million clients and generate up to 2 million DNS queries per second to find the breaking point of DNS servers.

By maintaining an up-to-date catalog of the world's most used domains, DNS Storm can evaluate the server's real-world response to both valid and invalid queries. Assess whether queries were completed or lost, track the response codes received, and measure the latency of query response times to evaluate the server's performance capabilities.

Diagram: Distributed DNS Server Testing
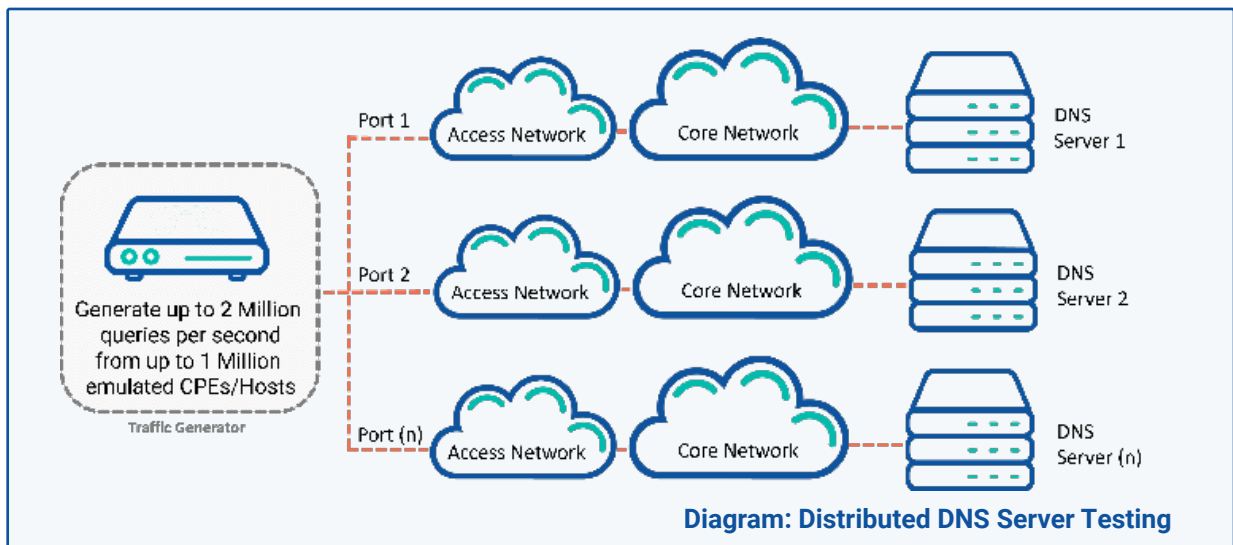
CAPABILITIES

Perform value-seeking performance tests to find the maximum number of queries per second a server can handle

Configure tests with valid and invalid queries to assess how the device will respond

Scale testing by sending up to 2 million queries per second from 1 million emulated clients

Ensure quality of service of servers and quality of experience for customers

Avoid manual user entry with DNS Storm's WebCrawler that auto populates a list of 500 thousand of the current most popular domains

**Induce** cache misses and stress the DNS server to find the breaking point

Capture statistics such as queries sent, queries lost, avg. packet size, min and max latency etc

Automate testing through RESTful API

FEATURES

- Generates two million DNS queries per second combined rate

- Emulates one million DNS clients

- Supports both IPv4 and IPv6 emulated DNS clients

- Records DNS response analytics and provides statistics & reporting

- Supports user configurable valid and invalid DNS query profiles

- Measures query response time and latency

- Maintains a catalog of 500 thousand of the world's most used domains

- Supports more than a dozen DNS query types including:

  - A, AAAA, PTR, NAPTR, NS, MX, TXT, CNAME, SRV

- Supports DNS Return Codes Including:

  - NOERROR, FORMERR, SERVFAIL, NXDOMAIN, NOTIMP, REFUSED, YXDOMAIN, XRRSET, NOTAUTH, NOTZONE

USER INTERFACE
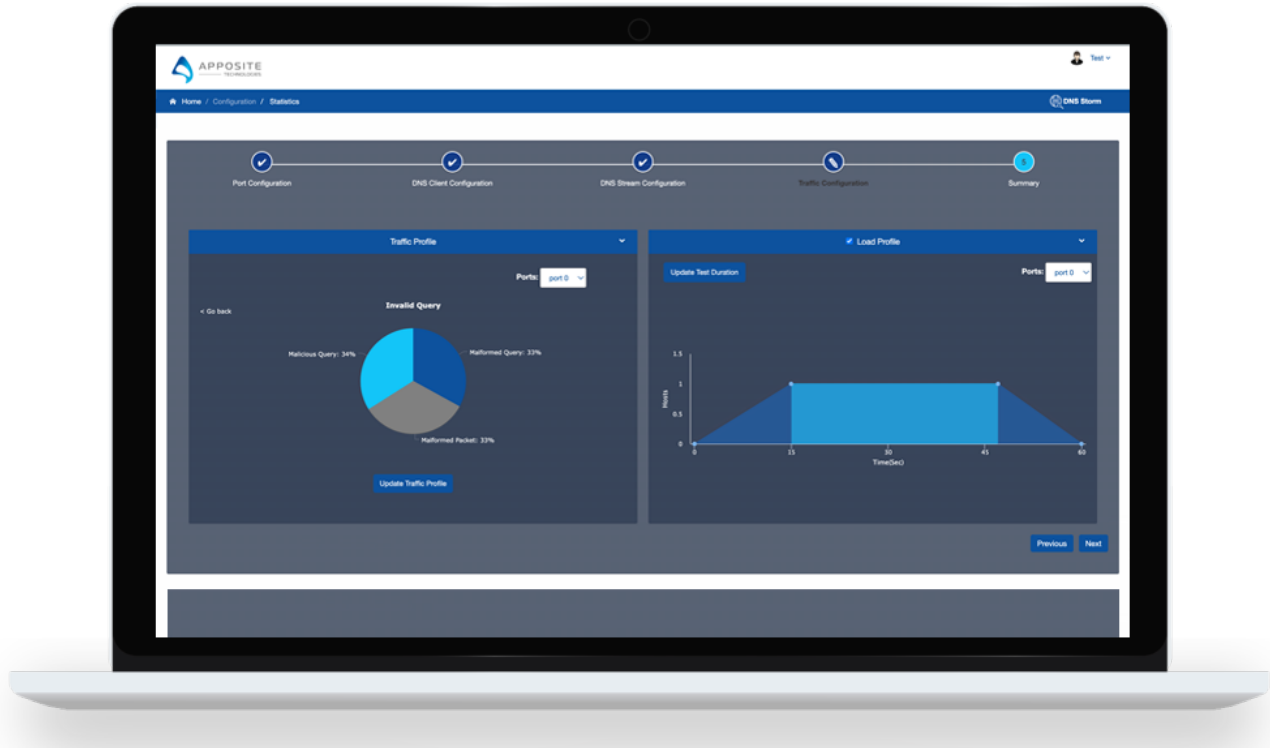
DNS Storm is available on high performance appliances and virtual machines. Configure tests with ease on the feature-rich, browser-based GUI or with our comprehensive RESTful API for increased automation. Run multiple tests at once and keep them running in the background, collaborate with your team, and easily connect and perform tests from anywhere.