APPOSITE TECHNOLOGIES

SessionStrike

Traffic Generation Re-Imagined

Evaluate the Session Holding Capabilities of Stateful Network Devices

OVERVIEW

SessionStrike assesses how fast stateful network devices can establish and tear down TCP and HTTP connections for capacity and performance testing. Use SessionStrike to emulate a very high scale of clients to verify the session holding capabilities of application servers, or emulate both clients and servers to evaluate the performance of network devices like load balancers, firewalls and Content Delivery Networks (CDNs).

If a device cannot process all the traffic it receives, it will become a performance bottleneck or point of failure on the network. SessionStrike generates millions of TCP and HTTP connections to help identify weak links before they cause an outage or crash.

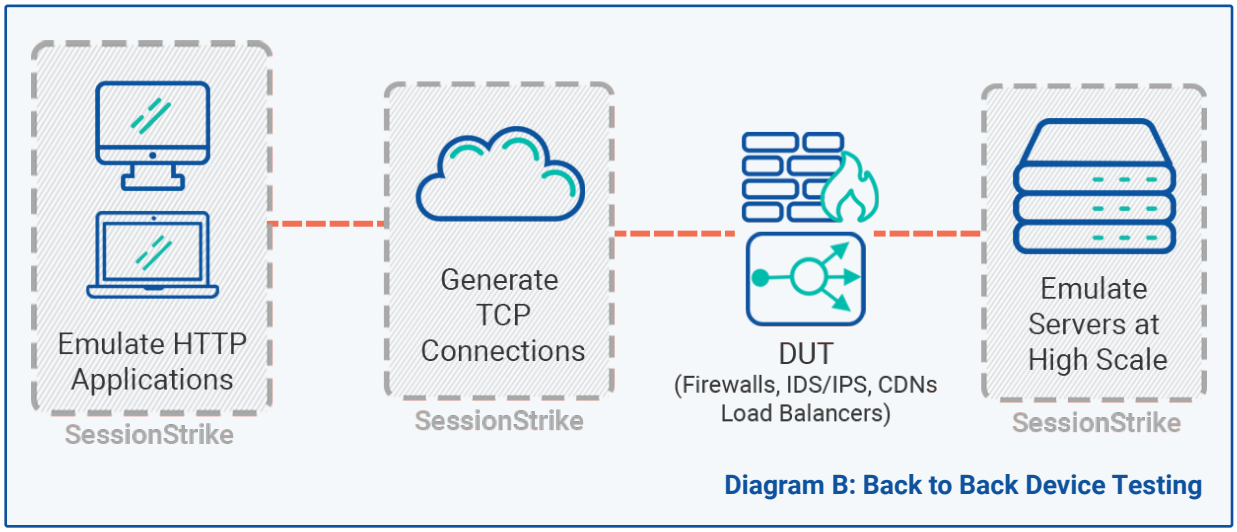


Diagram B: Back to Back Device Testing

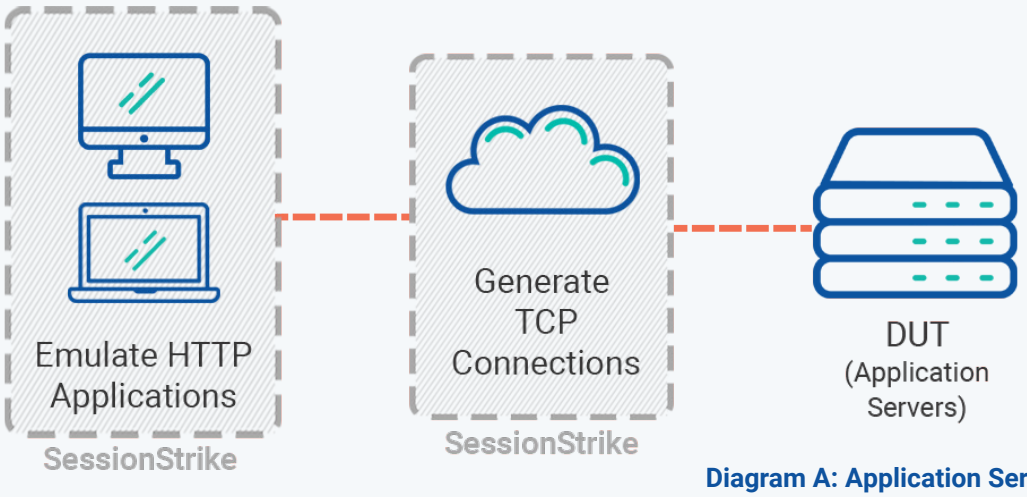
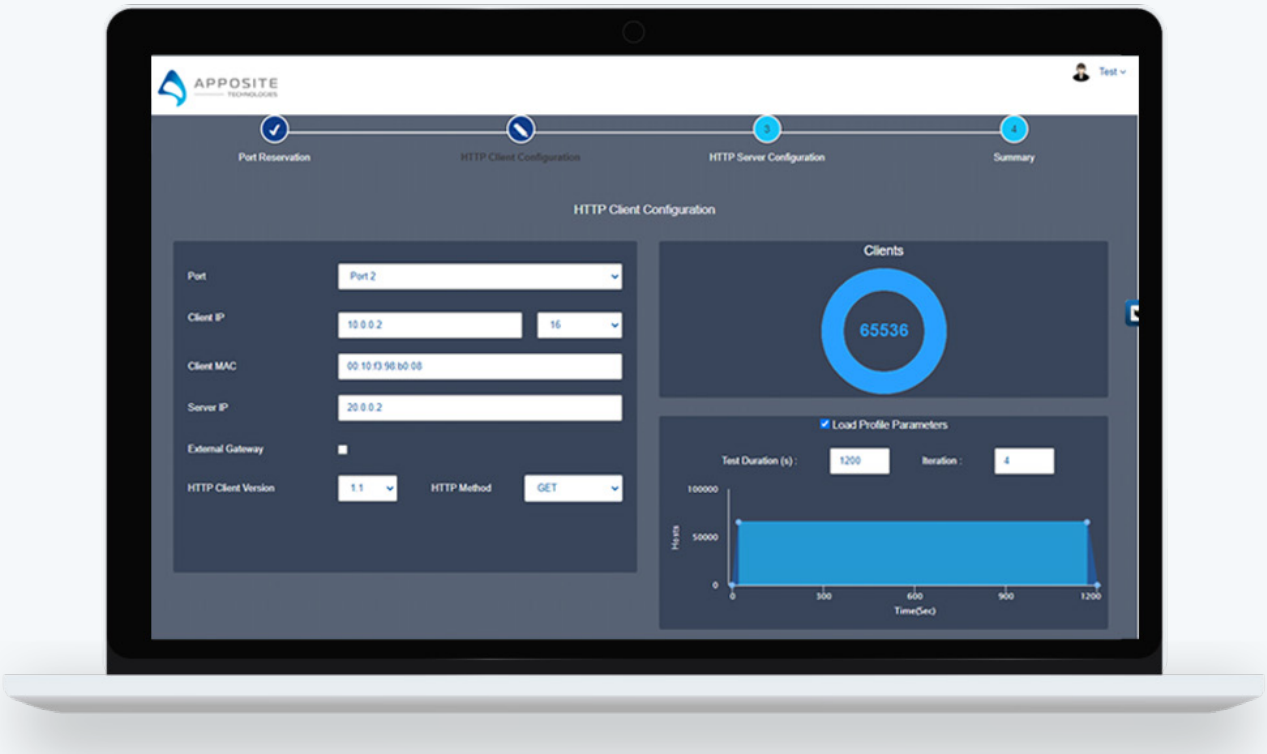


Diagram A: Application Server Testing

FEATURES

- Emulate clients and servers to test stateful network devices
- Emulate HTTP and TCP connections to directly test real application servers
- SessionStrike Can Be Used to Test:
  - TCP Connection Capacity
  - Maximum TCP Connection Establishment Ratea
  - Maximum TCP Connection Tear Down Rate
  - Maximum HTTP Transaction Rate
  - HTTP Transfer Rate
  - HTTP capacity with HTTP persistent connections
- Supported HTTP actions: GET, PUT, POST, HEAD, OPTIONS
- Statistics include:
  - HTTP request error conditions including session timeouts, rejected connections and conditions
  - HTTP session requests sent and successful
  - TCP setup (SYN/SYN-ACK/ACK)
  - TCP Tear Down (RST/ FYN-ACK)
  - TCP timeout

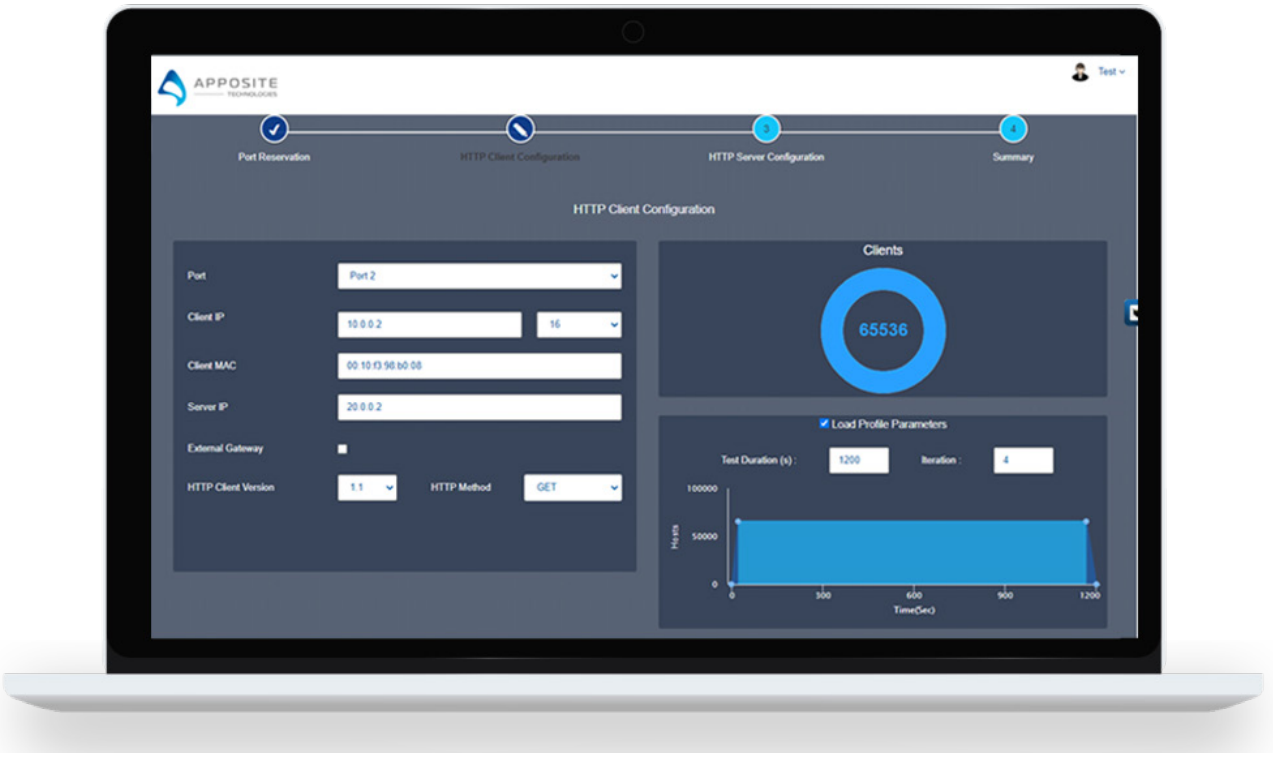
STATISTICS



CAPABILITIES

- Benchmark the session level performance of session-aware devices like application servers, load balancers, SD-WANs, Virtual Devices, CDNs, HTTP/HTTPS Accelerators and other stateful devices
- Test and optimize the performance of security devices like Nect-Generation Firewalls, Content Filters, SASE, Reverse Proxy, IDS/IPS, Anti-Virus and Anti-Spyware
- Emulate realistic application traffic to measure line speed limitation, network latency, packet loss and fragmentation to achieve network realism
- Evaluate the session holding capabilities of network devices to determine performance bottlenecks before going live
- Avoid server or device failures from spikes in usage due to holiday shopping, sales promotions, or other date specific events. For example: performance testing prior to Black Friday
- Statefully emulate HTTP Adaptive Bitrate (ABR) to verify video streams are successfuly customized to the screen resolution, frame size and frame rate of the specific device or network path
- Determine the breaking point or peak load of concurrent TCP sessions a network or device can handle for proper capacity planning
- Validate network infrastructure is capable of handling the scale of stateful traffic from new applications prior to deployment

USER INTERFACE



SessionStrike 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.

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