

Zero Trust Validation

ZTNA Application and Security Testing

Keysight CyPerf pioneered the agent-based network application and security test solution category, meticulously recreating realistic workloads across diverse physical and cloud environments to deliver unparalleled insights into end user quality of experience (QoE), security posture, and performance bottlenecks of distributed networks.

CyPerf's test agents send application and attack traffic simultaneously through hybrid networks, security devices and zero trust network access infrastructure to validate scalability, performance, and security efficacy.

Challenges to testing scalability and performance of zero trust network access

- Accessing quantifiable data and key performance indicators like throughput, concurrent users, latencies, and quality of experience before and after implementing zero trust controls
- Characterizing the security efficacy of zero trust strategies especially with lateral network movement and/or inside sourced attacks
- Assessing the functionality, performance, and scale of the zero trust authentication engines on a continuous basis to monitor for any undesirable deviations
- Demonstrating to customers and stakeholders the immediate value of zero trust implementations, and custom proof of concepts (POCs)

CyPerf — your solution to ensuring a scalable and secure zero trust framework

- Characterize the performance, scale and responsiveness of zero trust network access implementations by generating thousands of authentication requests and concurrent sessions in a repeatable manner
- Generate authenticated and unauthenticated application traffic and security attacks to validate zero trust authentication policies and the security efficacy of the network security controls
- Simulate lateral movement attacks where authenticated attacks attempt to propagate throughout the network
- Conduct relevant demos and proof of concepts and test zero trust network access implementations with traffic generation that closely mimics production environments



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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