

Cloud Migration

Network application performance and security control validation for the cloud

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. By first installing CyPerf test agents in cloud instances, users can send application mixes and cyberattacks across various topologies to optimize migration to the cloud.

Cloud migration challenges

- Struggling to rightsize cloud resources and optimize costs while maintaining a high service and user quality of experience
- Minimizing network downtime and user disruption in a highly complex and dynamic environment
- Isolating bottlenecks in cloud environment with too many variables including instance types, different network elements, third-party vendor devices, and rules
- Ensuring that the network solutions and technologies that are running fine on-premises works seamlessly in the cloud
- Testing efficacy of elastic environment is a challenge due to its dynamic nature

CyPerf — Your solution to seamless cloud migration

- Install CyPerf agents in cloud to benchmark true network application performance of cloud instances and topologies that may involve East-West or North-South traffic, including going through internet gateways to another cloud location or on-premises
- Minimizing network downtime and user disruption with solid change management policies and proved due diligence by validating major cloud network changes before pushing in production
- Use CyPerf's attack emulation capability to validate security features in cloud like Web Application Firewall (WAF) or Next Generation Firewall (NGFW) and ensure they work consistently with their on-premises counterpart
- Validate individual security controls and cloud services like NGFW, SWG, IPS/IDS, WAF, and ALB/ELB for performance, scale, and security effectiveness
- Leverage CyPerf's ability to elastically scale up per the auto-scale group policies that it is part of to accurately measure the performance and security impact of elastic scale up or down



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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