

Case Study



Tel Aviv, IL
cybergym.com
INDUSTRY |
Cybersecurity Training

USE CASE | RDP/VDI PERFORMANCE

About CYBERGYM

In the rapidly evolving and changing high-stakes world of cyber security, the last time you want to find yourself learning about how to properly defend your organization is when you are actually under serious attack. It's critical that enterprise cyber security teams are properly trained and prepared to respond quickly and capably to any attack.

CYBERGYM is a cyber-warfare readiness training program for governmental and private enterprise which is unique in emphasizing the importance of hardening the weakest link in any emergency response system- the people who run it- protecting against cyber threats through individually tailored training delivered in a dedicated cyber training and technologies Arena. Levels of training range from basic security best practices to expert incident response and forensics.

CYBERGYM is a joint venture of Cyber Control and the Israel Electric Corporation. Cyber Control is Israel's leading cybersecurity consultancy, established by ex-Israeli Security Agency operatives and security experts, and the Israel Electric Corporation is a 7.7 billion USD company that faces countless cyberattacks on a daily basis.

The Challenge

CYBERGYM has a unique approach to cyber security training. Unlike other training providers that rely on "black box" simulators, CYBERGYM's Arenas are real-world environments consisting of complex, wide-spread systems and sensitive infrastructures that are subjected to controlled, real-time attacks.

In the CYBERGYM readiness training program, there are three teams. The red team is the attack force, composed of CYBERGYM's own staff of expert white-hat hackers. The white team is composed of CYBERGYM moderators and teachers, who manage and advise the trainees- the blue team.

While trainees can elect to come to CYBERGYM's main training center, CYBERGYM also has "Hybrid Arenas" in multiple locations worldwide. In these hybrid environments, the trainees connect to the infrastructure under attack through remote desktop (RDP) sessions.

When CYBERGYM launched a new Hybrid Arena environment in a new location that was geographically distant from their Israel location, they were immediately faced with a rash of RDP disconnections. On average, each trainee was experiencing 10 disconnections during a single day's session. CYBERGYM was only able to reliably run one to two sessions simultaneously before the rate of disconnects spiked, making it untenable for their ten student class size.

Of course, this resulted in a very poor user experience, particularly because the training environment demands absolute concentration and fast response. This left CYBERGYM at risk of customer churn, and unable to execute on their plan to expand their business globally until a solution was found.

Finding A Solution

The CYBERGYM team, led by VP of Professional Services Yaron Laufer, immediately set to work to find a solution to this serious problem that impacted CYBERGYM's expansion plans. As Mr. Laufer describes it, they "worked hard and fast to find a solution that could dramatically improve the user experience, and dramatically decrease the disconnections, between the Hybrid Arena and the arena in Israel".

While improvement in RDP performance was the primary driver, there were three other important considerations:

- The solution had to be able to be deployed very quickly. Any delay came with customer retention risks and forced a day-for-day slip in their future expansion plans.
- The solution would ideally not add to Cybergym's management burden, introduce additional points of failure, or create vendor lock-in. The preferred solution, then, would not require any hardware or software on CYBERGYM's premises.
- The selected vendor needed to demonstrate a high level of responsiveness and deliver outstanding support.

CYBERGYM found that Teridion's cloud WAN service was an ideal fit for their requirements.

Why Teridion?

Teridion provides an enterprise WAN service built on the public cloud. The service delivers the performance, reliability, and SLA assurance of legacy circuit-based networks across standard broadband connections. On top of great performance, Teridion adds the advantages you expect from cloud-based services: lightning-fast setup, global coverage, unbounded bandwidth and horizontal scale.

While an MPLS circuit between the Hybrid Arena and Israel would have delivered adequate RDP reliability for CYBERGYM, both the cost and the extended lead time to install made it a non-viable option. Edge-based SD-WAN technologies could have been deployed quickly, but failed to address the RDP session-killing loss and latency introduced by the vast Internet middle-mile between CYBERGYM locations.

The Teridion network is powered by Teridion Curated Routing, which fuses proven WAN acceleration techniques with metrics-driven route optimization. This gives enterprises:

“Teridion’s cloud WAN service gives us the full confidence to expand our service anywhere in the world. We are about to open another arena without any network concerns, and I can commit to reliability and a good user experience in the next arena.”



YARON LAUFER
VP Professional Services,
CYBERGYM

- *Secure, accelerated, SLA-backed site-to-site performance*
- *Superior low-loss, low-latency routing for voice and video*
- *Reliable, stable, high-capacity RDP/VDI performance*
- *Fast, consistent access to enterprise SaaS applications*
- *High performance access to cloud workloads running in any cloud provider*

Case Study

Teridion improves the performance of both TCP and UDP-based remote desktop protocols. For RDP over TCP, Teridion's route-optimization and TCP acceleration capabilities ensure both rock-solid, reliable connectivity and high session capacity. For PCoIP, Teridion's cloud WAN service automatically optimizes the route to mitigate packet loss, latency, and jitter.

Teridion is a turnkey service that requires no hardware or software, and is delivered at a fraction of the price of carrier-grade and direct access circuits.

Results

Teridion created and deployed CYBERGYM's network within a day of the project initiation. CYBERGYM's deployment responsibilities were simple: they created IPsec connections from their CheckPoint R80.10 at their Israel location and their CheckPoint R70 at the remote Hybrid Arena to the Teridion edge.

CYBERGYM realized immediate, dramatic improvements in the overall performance of RDP sessions. Prior to Teridion, a class of ten trainees would commonly experience more than forty RDP disconnects in a day. Teridion's cloud WAN service effectively eliminated the disconnects.


Since Teridion's cloud WAN service is continually self-optimizing, changing routes to use the best available path in real time based on global Internet performance, CYBERGYM has seen completely consistent improvements in RDP performance and reliability over the duration of the service.

With Teridion, CYBERGYM is well-positioned to continue to expand their presence worldwide with full confidence in their ability to deliver a great user experience for the next generation of cyber defenders.

RESOURCES

Teridion Whitepaper: [Teridion For Enterprise Technical Overview](#)

Teridion Whitepaper: [Teridion for Cisco Meraki](#)

Connect with us:  

[Request A Demo](#)

HOW TO BUY

Teridion for Enterprise is available exclusively through a network of authorized resellers. Find a Teridion reseller [here](#).

CONTACT INFO

Email: sales@teridion.com www.teridion.com

SAN FRANCISCO
300 Brannan St., Suite 101
San Francisco, CA 94107
1-844-TERIDION

ISRAEL
Bazel St 25, 1st Floor
Petah Tikva, Israel
+972 77-220-0077