



CYBERGYM Vulnerability Assessment

Getting an in-depth view of the state of your cybersecurity

Customers around the world rely on CYBERGYM's live cyber training and true-to-life qualification and certification solutions to get their personnel up to speed with the latest in cybersecurity. With our complementary vulnerability assessment service, you can now review the security flaws in your IT systems, networks and applications, and fix them before the hackers find them.

Getting an in-depth view of the state of your cybersecurity

Almost every organization, network or product development process deals with sensitive information - be it critical enterprise data, private user data or intellectual property. In sectors such as finance, healthcare and government, strict regulations and legislation apply to the protection of private data. All it takes is for a malicious hacker to exploit a weakness in a system, application or process, and you could find yourself facing financial damage, loss of reputation, disruption to business operations or even legal sanctions.

CYBERGYM offers a comprehensive, in-depth and sophisticated assessment of vulnerabilities across all technical layers of your network, from infrastructure to system, as well as product development. We then carry out a deep analysis to gain a holistic understanding of the effectiveness of your organization's security posture, weaknesses and countermeasures.

How we do it

Our comprehensive vulnerability assessment service provides a review of security flaws within an information technology system, a network, an application or an operational technology and industrial control system network.

- // Defining and agreeing the scope of the assessment; studying the different characteristics of the network, server and applications that are to be assessed
- // Running of the actual vulnerability assessment activity, through both automated and manual processes, by our cybersecurity professionals
- // Assessing the risk, attaching a 'risk level' to each one, and recommending corrective actions (according to the scope of the assessment), culminating in a prioritized list of vulnerabilities which their associated risk level
- // Creating a comprehensive report of the security status of the network, application or server against known vulnerabilities at the time of conducting the assessment; providing details of detected vulnerabilities, risk levels, recommendations for remediation and priority actions
- // Preparing an executive summary of findings, and presenting it to your executive board
- // Defining specific, actionable steps that can be implemented to improve overall security, including instructional remediation tutorials, role-based scenarios for response, and automated workflows for remediation and validation of success

Vulnerability assessment types

CYBERGYM offers several types of vulnerability assessment services, including:

- // **External vulnerability assessment** - carried out remotely, with the intention of locating and understanding weaknesses in the 'internet-facing' assets of your organization. This may be the first stage of a thorough penetration testing process.
- // **Internal vulnerability assessment** - carried out internally, within the perimeters of the organization, with the goal of identifying and classifying threats and weaknesses within the network, employee's day-to-day work, configuration management and asset discovery.
- // **Application and infrastructure vulnerability assessment** - specifically designed to identify particular weaknesses, misuse and loopholes within applications used by the organization.
- // **Cloud vulnerability assessment** - identifying vulnerabilities within the use case of specific cloud services, and weaknesses in cloud service configuration management.
- // **Arena-based, last-mile vulnerability assessment** - next-level testing at a CYBERGYM Cyberwarfare Arena, exploiting the weaknesses and vulnerabilities in your systems in an environment that emulates that of your own organization, to give you a deeper view of your existing security posture.

Outcomes

- // **Compliance** with local and global best practice standards, regulations, legislation and more (PCI, ISO, GDPR, HIPAA, SOX, NIST).
- // **Reduced risk of cyberattack** by identifying vulnerabilities and configuration issues that hackers may exploit, you are in a position to remediate them.
- // **Enhanced management** of security risk, compliance and quality of service.
- // **Enhanced visibility of assets** and understanding of how vulnerable your critical assets are to cyberattacks.

Behind the CYBERGYM vulnerability assessment

- // **Multiple deployment options**, for a tailored, user-friendly assessment process.
- // **Variety of assessment automation tools** and in-house applications, for thorough and accurate detection of unclassified weaknesses.
- // **Lower operational costs** - no hardware required.
- // **Seamless scaling** to suit organizations of all sizes.
- // **Most up-to-date resources**, based on the vast knowledge base held at the CYBERGYM Arena.
- // **Uninterrupted productivity** during assessment, by avoiding application downtime.
- // **Assessment report**, created using breach detection simulations, machine learning and AI analytics, to offer actionable insights and concrete next steps for remediation.

CYBERGYM tools and processes

In carrying out our vulnerability assessment, we use advanced automation tools such as:

- Snyk
- Nessus
- Qualys
- Retina
- Tripwire
- OpenVAS
- Nexpose
- OWASP
- Acunetix
- Microsoft Baseline Security Analyzer (MBSA) and more.

Our assessment processes include:

- Network scanning
- Port scanning
- Patch verification
- Credential scanning
- Policy compliance
- Configuration management
- Log management scanning
- Asset discovery and classification
- Web Application Services Scanning
- OT Scanning – such as SCADA and ISC

About CYBERGYM

CYBERGYM provides tailored cyber-training solutions to organizations around the world. With the most relevant threat model and a technological environment configured to your technological setup, we make sure your people gain the experience they need, as individuals and as a team. CYBERGYM further qualifies your general workforce and executives, delivering an all-inclusive, organization-wide solution.

Founded in 2013 by experienced veterans of Israel's prestigious intelligence organizations, CYBERGYM gives you peace of mind knowing that your teams are always ready, and cyber investments are maximized.

