

Vulnerability and Penetration Testing



Experience the commitment®

In today's fast-paced world, keeping business and IT systems up to date and keeping them operational is a constant challenge. With the increasing cybersecurity threat it is important that any changes include the correct security controls.

What is Vulnerability and Penetration Testing from CGI?

CGI understands the need to be agile, introduce new systems, technologies and ways of working to be competitive and improve efficiency. Our security vulnerability assessment services maximises risk reduction whilst minimising any disruption to the delivery of business. We evaluate systems by subjecting them to external Internet attacks or by considering insider threats. By using our testing services at regular intervals, our clients will stay one step ahead of potential attackers, enabling their IT systems to grow with their business, without lowering the defences of the enterprise.

Our approach to Vulnerability and Penetration testing provides a thorough, quality service whilst allowing the flexibility necessary to test a wide range of IT systems.

Challenges for IT

Organisations depend on business and IT systems to operate effectively and competitively in this digital age. These systems are frequently updated and even a small change can introduce new vulnerabilities.

Significant effort is invested to ensure that the systems run efficiently, and that the necessary security controls are incorporated, yet organisations don't always test that the security controls are implemented correctly or are sufficient. Left to chance, vulnerabilities will only be discovered once security has been breached, leaving the organisation open to potential regulatory fine, financial loss, reputational damage or theft of business critical information or intellectual property.

Vulnerability and Penetration Testing: how does it work?

Since any network can be breached with time and skill, there will always be risk. It's all about Risk Management and clients are keen to understand the risk to their organization. Our service helps to reduce risks:

- Identifies technical and architectural vulnerabilities that can be exploited by attackers;
- Assesses ability to withstand common attacks;
- Ensures coverage of systems and issues that automated tools are unable to identify;
- Prioritizes vulnerabilities by criticality to assist in remediation planning;



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CGI HIGHLIGHTS

- Accurate service; automated assessment tools supported by manual verification
- Controlled service; tests designed to ensure no steps are missed and reduce impact on target systems
- Repeatable service; test parameters recorded to allow retesting under the same conditions
- Specific client needs can be included
- Highly skilled and experienced experts

- Provides remediation suggestions drawn from extensive practical experience and industry best practices;
- Evaluates the client detection and response capabilities and performance when security events occur;
- Intrusive and non-intrusive options.

Our service is based on the most popular industry-recognized penetration test and security assessment methodologies, frameworks and standards, including Open Web Application Security Project (OWASP) Testing Guide v4, U.S. National Institute of Standards and Technology (NIST), Special Publications series and Public source security Advisories, whitepapers and articles.

We deliver clear and actionable results:

- Effort put into presenting findings in a clear and actionable hand-written report of findings;
- Includes a concise executive summary;
- Summary of findings shows:
 - priority of each significant vulnerability;
 - possible remediation actions;
 - direct links to relevant bulletins, patches and advisories.
- Detailed results are presented in clear language;
- Findings are grouped by Risk level.

Benefit from Vulnerability and Penetration Testing

Our primary objectives are to demonstrate, to the highest level of assurance possible, that a system is either susceptible or not susceptible to particular security weaknesses, to provide clear recommendations for vulnerability mitigation that is both straightforward to implement and tailored to the required functionality of the system under test and last but not least to help our clients ensure that their IT systems are not the weakest link in their security infrastructure.

ABOUT CGI

With 68,000 professionals operating in 40 countries, CGI fosters local accountability for client success while bringing global delivery capabilities to clients' front doors. Our focus on Cybersecurity, Big Data and IT Modernization enable clients to leverage current investments while adopting technology and business strategies that achieve top and bottom line results. We realize cost savings, make business more flexible and prepare the IT-environment for the future. And we do that with the dedication and accuracy of a business partner used to working with mission-critical systems and data of its clients.

Do you want to know more about Cybersecurity, please contact your account manager directly or contact us via

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