

NETWORK PENETRATION TESTING

DATA SHEET

What is a Penetration Test?

TotalPenTest, also known as a penetration test, evaluates your organisation's network security to identify weaknesses that expose your business to malicious attacks. Unlike a traditional vulnerability assessment that only identifies security vulnerabilities within the tested environment, a penetration test goes further by simulating real-world attacks. Demonstrating the potential impact stemming from the exploitation of a security weakness allows an organisation to determine the severity of the exploited security vulnerability.

Traditionally, organisations face challenges in securing penetration tests, with limited availability, a shortage of experienced professionals, and inadequate deliverables. However, Total Group addresses these by providing high-quality cybersecurity services tailored to evolving threats. Network penetration testing identifies vulnerabilities and uncovers both known and unknown threats, meeting modern security needs.

By performing a penetration test, your organisation can gain an understanding of:

- Security vulnerabilities present within the environment
- Incident response procedures, including monitoring and alerting
- Potential impact of a security breach
- Effectiveness of implemented technical and compensating controls

TotalPenTest helps organisations to meet compliance standards, achieve security best practices, and streamlining vendor research to meet their needs. Below are our top three penetration testing services frequently requested by our clients:



INTERNAL NETWORK PENETRATION TESTING

Using a device connected to your internal environment, our consultants will discover security vulnerabilities present within the internal network environment. These activities simulate that of a malicious attacker.



EXTERNAL NETWORK PENETRATION TESTING

Assuming the role of a malicious attacker from the public Internet, our consultants will identify security flaws within your external network environment. These flaws can include patching, configuration, and authentication issues.



WIRELESS NETWORK PENETRATION TESTING

Identify areas within your wireless infrastructure that pose a security concern. These weaknesses could include rogue access points, wireless signal bleed, weak encryptions, and more. Our consultants will also review your wireless configurations.

Our Penetration Testing Methodology

Based on our professional experience, research, and the activities performed by modern-day attackers, TotalPenTest follow a penetration testing methodology that combines both traditional and new attack techniques to provide quality penetration testing services.



1 INTELLIGENCE GATHERING

Information about your organisation is gathered to map out the environment. In the case of an external penetration test, information such as domains, IP addresses and ranges, compromised email addresses, and employee information is discovered.



2 THREAT MODELING

An assessment of the organisation's business is performed, which includes identifying the most critical business resources. From this analysis, the consultant identifies the best approach to formulating an attack against the exposed security flaws.



3 VULNERABILITY ANALYSIS

Once the targets have been identified, Total Group uses both automated and manual vulnerability analysis tools to identify security flaws.



4 PERFORM EXPLOITATION

Depending on the security flaws exposed, exploitation is performed to attempt gaining unauthorised access to systems and/or sensitive data.



5 POST-EXPLOITATION

Demonstration of impact is performed by attempting to escalate access into systems and/or sensitive data within the environment.



6 TIMELY REPORTING

Documentation is collected, reviewed, and presented to your organisation in a clear, concise, and effective manner. In addition to supporting data, strategic and technical recommendations are provided to help your organisation with successful remediation.

WHAT YOU GET

At Total Group , we understand the demands and expectations for quality information security services. As part of our network penetration testing services, your organisation can expect the following:



Project Management & Planning



Daily Status / Progress Reports



Quality Deliverables & Presentations



Experienced & Certified Security Experts

Strengthen your network defense with our invulnerable network penetration service, identifying internal and external vulnerabilities to ensure a secure and resilient infrastructure essential for digital transformation.





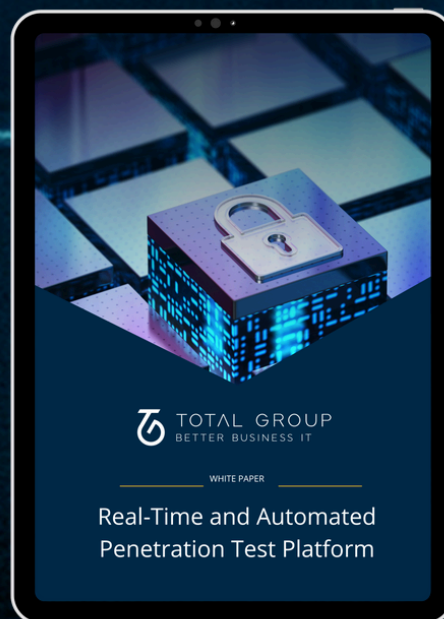
Meet the Future of Cybersecurity with **TotalPenTest**

In an era where cyber threats evolve faster than most organisations can keep up, **TotalPenTest** emerges as a revolutionary network penetration testing tool, redefining the landscape of risk management.

Our whitepaper, "**Real-Time and Automated Penetration Test Platform**" offers an in-depth look into how **TotalPenTest** is setting new benchmarks in cybersecurity assessments.

↓ **DOWNLOAD**

SCAN ME





EMPOWERING SECURE GROWTH THROUGH TECHNOLOGY.

ABOUT US



Total Group is a IT and Cybersecurity Managed Service Provider that offers comprehensive information security services. Our team is comprised of security experts experienced in offensive and defensive operations, allowing us to provide quality information security services. We ensure your organisation is successful by achieving its security goals and remaining one step ahead of malicious adversaries, the automated way!

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Not sure which penetration test is best for your business? **Get in touch.**