



HORIZON3.ai
TRUST BUT VERIFY

Network Penetration Testing Services

A network penetration test takes a proactive approach to identifying and addressing vulnerabilities within your network before malicious actors can exploit them.

Network penetration testing can be carried out either internally, externally, or both. It includes service enumeration, vulnerability identification, and exploitation where appropriate.

The aim is to help you understand where an attacker can fingerprint and potentially gain deeper access to your networks.

NCC Group uses a people-powered, tech-enabled strategy to combine the best parts of AI and automation with the world-class expertise of our team of penetration testing consultants. We have expanded our portfolio to include manual, autonomous, and hybrid approaches to testing your network.

This allows us to adapt to the unique structure of your environment, and provide the best, most efficient approach to testing, no matter what your needs are.

Our services

The type of network penetration test that's best for you will vary depending on your priorities and scope. We provide top-tier cyber security solutions customised to address your specific risks and business needs. Our tailored approach guarantees the highest level of protection and customisability, offering you peace of mind in today's complex digital landscape.

For our autonomous and hybrid penetration tests, we leverage our partner Horizon3.ai's NodeZero® platform tool – a next-generation advancement that uses a mix of AI-driven decision making and tried-and-true penetration testing techniques to deliver tests faster and more comprehensively than ever before. By mixing NodeZero's capabilities with our consultants' expertise, we've created an industry-leading service offering that gives our clients more flexibility and assurance than ever before.



Prevent data breaches

By identifying and fixing vulnerabilities, you reduce the risk of data breaches that can lead to significant financial losses and damage to your reputation.



Manage compliance

Many industries have strict regulatory requirements for cyber security. Pen tests help ensure you meet these standards and avoid potential fines or legal issues.



Identify vulnerabilities

Pen tests simulate real-world attacks to uncover weaknesses in your network's security. This helps you understand where your defences are lacking and what needs to be improved.



Enhance security posture

Regular testing and remediation of vulnerabilities strengthen your overall security posture, making it harder for attackers to penetrate your network.



Gain insight into attack vectors

Pen tests provide valuable insights into the methods and techniques attackers might use, allowing you to better prepare and defend against future threats.



Network penetration testing services portfolio	Automated vulnerability discovery	Autonomous penetration testing	Hybrid penetration testing	Manual penetration testing
	Ideal for security baselining or organisations that don't want active exploitation.	Ideal for starting your security journey or for organisations looking for a fast, comprehensive test.	Ideal for organisations looking for the depth of a manual test and the breadth and speed of an autonomous one.	Ideal for organisations with strong cyber security and organisations that want a white-glove approach to their penetration testing.
Capability	Vulnerability scanning	NodeZero® platform	NodeZero® platform and bespoke testing	Bespoke testing
Discovery of live hosts within the in-scope networks	✓	✓	✓	✓
Enumeration of available services	✓	✓	✓	✓
Vulnerability identification	✓	✓	✓	✓
Dedicated project management	✓	✓	✓	✓
Exploitation and privilege escalation		✓	✓	✓
Vulnerability chaining		✓	✓	✓
Lateral movement		✓	✓	✓
Proof of exploitation		✓	✓	✓
Hands-on exploit development and analysis			✓	✓
Customised testing approach			✓	✓
Deep dives into specific vulnerabilities				✓
Full hands-on-keyboard testing of each finding				✓
Price range	£	££	£££	££££

All of the above services are available as Managed Service offerings for organisations looking for volume or on-going testing. For more information, [contact us](#).

Methodology

For our network penetration testing services, our assessments consist of multiple steps, tailored to your individual requirements, and include:

Scope	Discovery and enumeration	Vulnerability identification	Exploitation and lateral movement	Reporting and analysis
We will guide you through the scoping process through a series of conversations, or alternatively we can send questions to you for distribution to your SMEs. Once we have your information, we can scope out the engagement to ensure the assessment meets your needs.	We will carry out host, port, and service scanning across the in-scope ranges to build a picture of the environment and prioritise areas most likely to be exploitable.	Using the results from the discovery phases we will identify vulnerabilities on the in-scope hosts using a public and internally developed tools.	If in-scope we will make attempts to exploit the identified vulnerable services and hosts. Where exploitation is successful and further access is achieved, we will restart the discovery and enumeration phase on the newly available hosts if in-scope.	We will provide a report that includes an executive summary as well as technical details, along with actionable remediation advice and supporting appendices to allow you to replicate the attacks we carry out.

About NCC Group & Horizon3.ai

NCC Group is a global team of cyber security experts with unmatched expertise and veterancy. We've partnered with Horizon3.ai's NodeZero® platform to accomplish our mission of offering world-class, people-powered, tech-enabled services to our clients. The NodeZero platform allows our experts to supercharge their ability to accurately assess your environment, and their expertise paired with the power of the NodeZero platform ensures that we give you the maximum depth and breadth of coverage across your critical infrastructure.



Unrivalled experience

NCC Group has over 20 years of experience in assessing all types of technology, and know exactly what it takes to test, deploy, and manage network strategies to maximise your ability to innovate and minimise risk.



Collaborative approach

With the digital world moving so rapidly, we know every business and every network environment represents a very different challenge. That's why we work hand in hand with you to identify your exact needs to create bespoke action plans to best assess your environment.



Certified security experts

Our ethical hacking and network security testers are independently qualified by industry-recognised certification bodies.



Industry leading technology

With NodeZero, NCC Group can offer unparalleled coverage and depth in our testing services by combining best in breed technology with years of knowledge and hands-on experience.



Threat intelligence

NCC Group's world-renowned threat intelligence and research pairs perfectly with NodeZero's dedicated vulnerability researchers to bring you the latest in security knowledge and technical exploitation.



More than a vulnerability scanner

Unlike vulnerability scanners, NodeZero chains weaknesses together and exploits just like a penetration tester to show you the concrete business impact an attacker can achieve.





**For more information from NCC
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