

# APPLICATION PENETRATION TESTING

Improve Your Organisation's Cyber Resilience with Expert Application Penetration Testing Services from our Cyber Security Assurance Team

## What is Application Penetration Testing?

Your organisation is under constant threat of cyber-attack by those who seek to exploit any vulnerabilities they can find. By testing for vulnerabilities, you can identify and address them before they can be exploited. Penetration testing is one way of achieving this.

The National Cyber Security Centre (NCSC) defines penetration testing as an authorised test of a computer network or system designed to look for security weaknesses.

Application Penetration Testing assesses your applications' cyber resilience and provides insights into how it can be enhanced.

There are a number of types of penetration test that assess different parts of your organisation's application estate.

## Our Application Penetration Testing Services

With ransomware and other types of cyber-attack on the rise, Six Degrees' Application Penetration Testing services give you the actionable information you need to enhance your protection. Our Application Penetration Testing services provide an expert view of your application estate, enabling you to understand and address your areas of weakness before they can be exploited by hackers.

## Full Cyber Security Lifecycle Testing Services

Six Degrees offers three levels of cyber security testing services that encompass the entire cyber security lifecycle, tailored to your organisation's cyber security maturity:



### Vulnerability Scanning.

Automated testing that enables your organisation to establish its cyber security baseline and take the first steps towards cyber security maturity.



### Infrastructure and Application Penetration Testing.

Expanding the scope of vulnerability scanning with manual testing and detailed reporting delivered by Six Degrees' expert Penetration Testers.



### Red Teaming.

Robust manual testing with an unlimited scope of attack vectors and techniques, providing actionable insights that enable your organisation to enhance its ability to detect, respond and recover from cyber-attacks.

## Why Carry Out Application Penetration Testing?

All organisations should carry out Application Penetration Testing. Here's why:

Understand and reduce the level of risk your organisation is exposed to.



Receive clear, easy to understand reports that include remediation advice.



Work with a cyber security partner who can support you with those mitigating actions.



Schemes like Cyber Essentials Plus require evidence of penetration testing as part of their certification processes.



Organisations that don't carry out Application Penetration Testing risk:



Not having a clear understanding of their cyber security postures.



Being unable to identify vulnerabilities that can be exploited by hackers.



Lacking visibility of new and potentially vulnerable devices and servers that are added to their networks.



Not being covered by cyber insurance companies who require evidence of penetration testing as part of their policies.

## Our Application Penetration Testing Process

**Port Scanning.** We will scan your target hosts via an automated scanner and will enumerate all available ports and services that are exposed to the internet.



**Vulnerability Scanning.** We will scan each open port and service via an automated scanner to identify potential vulnerabilities.

**Penetration Testing.** We will probe each open port and service manually and put together a potential attack tree. We will prioritise any vulnerabilities identified and manually examine ports and services to identify potential vulnerabilities.



**Reporting.** Results are placed into a report for you to review the results and recommended remediation steps as well as the Penetration Tester's own executive summary.

## Our Application Penetration Tests

**Phishing.** Six Degrees' Phishing service aims to test an organisation's staff and their reactions to receiving crafted phishing emails of various levels of sophistication. The goal of the testing is to provide an overview of the effectiveness of your organisation's technical infrastructure in preventing malicious emails, as well as testing employees' reactions to phishing emails and the effectiveness of any training programs in place.

**PCI ASV Scanning.** Six Degrees' PCI ASV Scanning service is an automated vulnerability scanning service that is certified to be used as part of the PCI auditing process. The scanning is managed and run by Six Degrees through an approved ASV scanning tool provided by Qualys; Qualys has been authorised

by the PCI Security Standards Council to conduct the quarterly scans required to show compliance with PCI DSS. The cloud based Qualys PCI solution helps you achieve compliance via a streamlined process that also gives you assurance your network is secure.

**Cloud Platform Build Review.** Six Degrees' Cloud Platform Build Review services give you the information you need to enhance your protection against ransomware and other types of cyber-attack. Our Cloud Platform Build Review services provide an expert view of your infrastructure, enabling you to understand and address your areas of weakness before they can be exploited by hackers.

**Application Penetration Testing.** Six Degrees' Application Penetration Testing services provide specific testing of your commonly used toolsets and solutions, ensuring that both client facing and internal interfaces are built securely and to best practice. Our Application Penetration Testing services look to identify methods that an attacker could use to exploit your organisation through technical interaction, giving you the information you need to enhance your protection against cyber-attacks.

## Why Six Degrees?



Over 20 years of cyber security heritage and experience.



SC cleared, UK-based Penetration Testers.



CHECK, CREST and Cyber Scheme certified.



Tailored testing that suits your organisational requirements.



Access to complementary testing, consultancy, and managed security services.

## Meet our Experts

Our Application Penetration Testing services are provided by some of the most highly experienced and accredited Penetration Testers in the industry. We are members of the National Cyber Security Centre (NCSC) CHECK scheme, and our team members and leaders are certified under CREST and the Cyber Scheme.

### Andy Swift, Technical Director – Cyber Security Assurance

Andy is Technical Director – Cyber Security Assurance at Six Degrees. He is responsible for spearheading innovation within our Cyber Security Assurance team, ensuring we stay at the forefront of cyber security techniques and technology by carrying out research, building exploits, and delivering cutting edge insights into Six Degrees, its clients, and the wider industry.

### Robert Sugrue, Cyber Security Product Director

Robert is Cyber Security Product Director at Six Degrees. He is responsible for providing strategic guidance and planning across Six Degrees' entire cyber security portfolio, ensuring product success by championing cyber security product development while assuring clear understanding of complex products for clients.

## Service Credentials



## Six Degrees Credentials

