nccgroup

Security Consulting

Security Consulting Services strengthen your security position by helping you identify and reduce risk

Our global team of leading experts use their collective knowledge to help you fight the threats that you face every day.
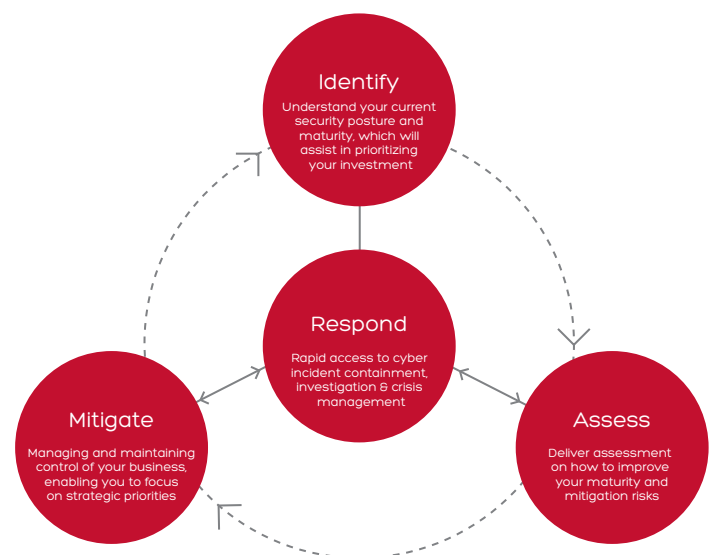
NCC Group is a global expert in cybersecurity and risk mitigation, working with businesses to protect their brand, value and reputation against the ever-evolving threat landscape. We work with every major vertical market, including financial services, technology, healthcare and online retail. Having one of the largest penetration testing teams of its kind allows us to take on projects of all sizes, often at short notice and with challenging delivery timescales.

Expertise

Our expertise is extensive and strong in addressing the most complicated security issues and challenges facing modern enterprises. The range of our penetration testing services and technical security assessments are able to identify all areas of vulnerability and help you to mitigate threats. Our tests are performed by experienced penetration testing specialists who have a wealth of knowledge in diverse IT disciplines including policy, design, implementation and development. With our team's breadth of skill sets and specialties, we can tackle any client request.

Methodology

Organizations of every size seek our guidance on how to build a strong security program. Knowing where to start can be a challenge, especially when you have to determine how many assets there are and which ones need attention first. We work with our clients to create a plan that meets their goals and costs. Our team of expert consultants work side-by-side with you to assess risks and develop workable mitigations. Customized final reports with detailed advice and discovery are thoroughly reviewed with your team, ensuring a hands-on process from start to finish. We possess expertise and experience in all phases of the software lifecycle and are uniquely positioned to help you mitigate and remediate security challenges in your organization.

Identify
Understand your current security posture and maturity, which will assist in prioritizing your investment

Respond
Rapid access to cyber incident containment, investigation & crisis management

Mitigate
Managing and maintaining control of your business, enabling you to focus on strategic priorities

Assess
Deliver assessment on how to improve your maturity and mitigation risks

Complete Transparency & Commitment to Excellence

Each team member is personally invested in the realization of a more secure future, encouraging innovation, currency and a genuine determination to contribute positively to the security of our clients. In a market saturated with highly skilled technical teams, our security experts distinguish themselves through their transparency, efficiency of product, commitment to partnership, and passion for solving your security challenges.

Transparency
We will always deal transparently, fairly and with empathy for the unique concerns your business faces.

Commitment
Our goal is to build a long-lasting partnership working with your team towards the continual improvement of security in your organization.

Efficiency
We will only provide what you need and will ensure you get the optimum value from each engagement.

Passion
Our team consists of people who genuinely love security, bringing their enthusiasm to every project.

Our Services

Application Security

Web Technologies
From high-level architecture and design reviews to comprehensive source-assisted penetration testing of server and client software components, we can review each layer of your web application or web service stack for vulnerabilities. Our detailed testing provides strong actionable recommendations to reduce your security risk.

Mobile Technologies
We provide mobile application security testing and review services to clients in many different industries. Our primary areas of expertise include security testing of mobile applications, low-level device drivers and mobile operating system components. We cover all mobile platforms and associated Mobile Device Management (MDM) or Mobile Application Management (MAM) solutions. Whether you are grappling with BYOD or corporate owned mobile platforms in your organization, or developing a mobile app or technology--we can help ensure your security exposure is as low as possible.

Desktop & Server Software
Through a combination of design review, threat modeling, code review and dynamic testing, our highly skilled team provides insight into your products ensuring a strong and sustainable security posture. Our team has unparalleled experience in enterprise software engineering, allowing for guidance that goes beyond secure coding into development structure, lifecycle and operations. We are trusted by the world's largest software organizations to help secure their flagship products and technologies, from the simple to the highly specialized.

Strategic Infrastructure Security (SIS)

Our SIS practice identifies security challenges, and provides detailed remediation advice across all of the assets that make up your company. Whether you are in need of inventory development and base line Vulnerability Assessment services, or highly sophisticated Attack & Penetration simulations, we can deliver a package of service offerings that provide you visibility and strategy over your security threats and risk. Our SIS practice provides the help you need to establish a security baseline, or test your enterprise against sophisticated attack threats such as spear phishing, 0day vulnerabilities or physical breaches.

Our services include:
- Network Security Testing
- Physical Security Testing
- Wireless Security Testing
- Attack Simulation (Red Teaming)
- Architecture and Secure Design Guidance
- Technical Security Program Development and Optimization
- Capabilities Development
- Interim Critical or Long-term Embedded Staffing
- Specialty Technical Assessment
- Cloud Infrastructure Security

Hardware & Embedded Systems

Bringing decades of real-world security engineering experience, our Embedded Systems consultants provide pragmatic guidance to all phases of commercial product development. From smart phones to smart cars, industrial control systems to IoT, we've worked on all aspects of securing solutions, including embedded OS protections, boot-chain of trust, OTA update mechanisms, silicon, circuit and assembly review. We are unique in terms of our experience with supply chain and reverse logistics security, allowing us to help you deliver resilient solutions from first design to end-of-life. We have expert led hardware lab facilities in Canada, the UK and the US and can also provide on-site expertise globally.

Our services include:

- Product design and implementation analysis
- System threat modeling and attack surface mapping
- Device hacking
- Partner vendor and component specification review & guidance
- Reverse engineering, forensics and anti-counterfeiting
- Circuit and component level security design review and testing
- Embedded firmware code review and vulnerability assessment
- Secure platform design and architecture review (TPM, TrustZone, etc)
- Trust anchoring in hardware including secure provisioning at factory
- Biometric technology integration expertise
- Product security incident triage and response

Risk Management & Governance

Our team provides world class risk management and governance services. As a trusted advisor, we bring a customer-centric, security focused approach to advisory, transformation and compliance related services that are focused on improving the overall security posture of our clients.

Our services include:

- Risk Assessment (ISO/IEC 2700x, NIST, OCTAVE, FAIR, etc.)
- Healthcare Security (HIPAA/HITECH & HITRUST)
- Financial Services (FFIEC, OCIE, etc.)
- Qualified Security Assessor (QSA), Payment Application (PA-QSA) and Point to Point Encryption (P2PE QSA) services for the Payment Card Industry (PCI) Data Security Standard (DSS)
- Federal Risk and Authorization Management Program (FedRAMP) 3PAO
- Privacy (Safe Harbor/Privacy Shield, GDPR, etc.)
- Service Organization Controls (SSAE 16 SOC)
- Security framework implementation and assessment (NIST CSF/SP800-53, ISO/IEC 27001, etc)
- Resilience (Incident Response, Business Continuity Planning, Business Impact Assessment, etc.)
- Third Party (Vendor) Risk Management
- Virtual Security Team (VCISO)

Security Defense Operations (SDO)

When an incident occurs it is essential to get the right support as soon as possible. Our SDO team offers unrivaled expert forensics investigations, malware analysis and crisis management capabilities to help clients quickly understand, contain and mitigate any breach. From mitigating the business impact of an incident to conducting detailed technical analysis, our team can assist during the critical phases of an investigation.

Our services include:

- Incident Triage & Response
- Digital & Network Forensics
- eDiscovery & Litigation Support
- Person of Interest Investigations
- Corporate Investigation Services
- Incident Response Readiness Reviews
- Security Compromise Assessment
- Targeted & Advanced Persistent Threat Services

Cryptography Services

Clients often rely on cryptography to protect their infrastructure and data. In most cases, the best advice is to use standard libraries and established best practices. NCC Group's Cryptography Services help those whose novel use of cryptography cannot follow a script. Our world-class experts are credited with improving the design and implementation of cryptographic libraries, distributed ledger technology, IoT devices, secure messaging implementations, and critical infrastructure.

Our services include:

- Protocol design and implementation analysis
- Cryptographic primitive implementation analysis
- Product reverse engineering and cryptography analysis
- Enterprise deployment and key management analysis
- Training for developers and implementers

Bug Bounty Services

Bug bounty programs have proven successful in identifying vulnerabilities in software and web assets. By inviting the global bug finder community to continuously look for security vulnerabilities, you can locate and fix issues before criminals can exploit them. We offer consulting on setting up vulnerability disclosure and bug bounty programs as well as full-spectrum triage services. The triage and validation services are provided by experienced NCC Group security consultants who address all incoming reports and work hand-in-hand with your security team throughout the full-lifecycle, from initial report to final resolution. This service can be provided on all leading bug bounty platforms or used with your in-house solution.

70,000+
bug reports triaged in
Bug Bounty programs

Security Training

Our security experts regularly construct instructor-delivered workshops, executive briefing, classes, and end user security training that equip the target group for success by accurately and effectively communicating real world threat intelligence and knowledge.

Some examples of our security training portfolio include:

- End-user security training
- Security training for specific job roles (HR, IT, Executives etc.)
- Security training for security staff
- Red Team / Blue Team workshops & events
- Industry and community training events
- State-of-the-Nation / Threat Intel. Briefings
- Instructor-led training at premium security conference world-wide
- Web Application Security Best Practices
- Mobile Application Security Best Practices (Covering Android & iOS)
- Secure Development Lifecycle Implementation
- Cryptography
- Secure Coding
- Secure Code Development Training for: C/C++, Java, and .NET

NCC Group training can also be customized to meet your requirements to ensure a secure environment and meet compliance requirements. If you do not see a course that fits your needs, please contact us to customize a program for your organization.

Transportation Services

The Transport Cybersecurity Practice provides services that align with every stage of the Secure Development Lifecycle, from design, development and implementation through to incident response planning, to ensure that security is designed into products and systems from day one.

We also provide more strategic services including security program management, security policy review and capability maturity assessments.

Security assurance concepts such as threat modelling are used to identify all the different entry points accessible to a hacker in order to understand what potentially could be achieved by attacking these points. The output often informs penetration testing activities to identify potential real-world vulnerabilities and recommendations are then proposed to mitigate or reduce the associated risks.

Our team help manufacturers to create products that can better withstand cyber attacks, and give customers peace of mind when using connected technologies, regardless of the mode of transport they are using.

NCC Group Sectors

In addition to our Transporation Cybersecurity Practice, NCC Group also conducts sector-specific work to target any industry's unique security needs.

We provide specialized work in the following sectors:

- Entertainment and Media Systems
- Finance
- Retail
- IOT
- Oil & Gas

About NCC Group

NCC Group is a global expert in cybersecurity and risk mitigation, working with businesses to protect their brand, value and reputation against the ever-evolving threat landscape.

With our knowledge, experience and global footprint, we are best placed to help businesses identify, assess, mitigate & respond to the risks they face.

We are passionate about making the Internet safer and revolutionizing the way in which organizations think about cybersecurity.