



» SERVICES



THE QUEEN'S AWARDS
FOR ENTERPRISE:
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NGSConsulting Services Overview

In today's world, businesses are becoming increasingly dependant upon their information technology systems and networking infrastructure. More than ever before, businesses are making greater use of distributed environments and requiring greater reliability in their network infrastructures. At the same time, they are increasing their investment in critical e-business initiatives and reliance upon untrusted network connectivity. While electronic business systems continue to evolve, so too do new threats to business continuity and integrity. Organisations are increasingly discovering that security weaknesses can severely undermine the delivery of new technologies or systems. These weaknesses may ultimately lead to a loss of investment, have a detrimental effect on an organisations reputation and even affect their market position. To discover and combat these security weaknesses, organisations must ensure that regular security analysis and reviews are carried out against their electronic assets.

NGSConsulting are experts at providing infrastructure and application-level security advice, and already provide specialist security services to many of the worlds largest and most demanding organisations. The services offered by NGSConsulting are specifically designed to identify security weaknesses within a client's environment that would adversely affect the continuity and integrity of the systems under study, and to provide authoritative remediation advice. Through a combination of analysis and complementary services, NGSConsulting works with clients to strengthen organisations against both current and future threats.

» Why assess security?

Most organisations agree that following security best practices and implementing robust security architecture elements into both infrastructure and application design represent significant steps in improving security. Unfortunately many organisations still struggle with this first rung on the security ladder. While external assessment services such as 'penetration testing' provide a 'hackers perspective' of an organisations security defences and are capable of discovering existing vulnerabilities; when combined with onsite specialist security services such as infrastructure assessments and code reviews, organisations find themselves making greater leaps in their ability to identify and respond to future threats. These security services help to ensure compliance with existing and new regulations – such as data protection and privacy laws, as well as reassuring shareholders, partners and major clients of the organisations due diligence processes and accountability.

» The Services

NGSConsulting offers a number of specialist services to cater for almost any clients security requirements. While each security service described below can be supplied "stand-alone", NGSConsulting frequently finds that a combination of complementary services are typically required to ensure the highest security levels for an organisation.

- » **Penetration Testing** - Focusing upon the Internet visible infrastructure components and hosts of a clients system, NGSConsulting utilise a proven "ethical hacking" methodology designed to identify all externally visible security flaws. Experienced consultants will work with the client, discovering vulnerabilities, evaluating the risk of the security flaws and exploiting them in a controlled manner. A comprehensive report clearly records any discovered vulnerabilities, ascertains the risk and probability of exploitation together with providing detailed remediation advice.
- » **Infrastructure Assessment** - This core on-site and remotely available service is designed to identify all security vulnerabilities and departures from best practices that are likely to pose a threat to the integrity and confidentiality of digital information assets. Utilising a methodology very similar to that of a penetration test, consultants investigate each host and any services available from multiple aspects to determine an environments ability to withstand attack.
- » **Application Vulnerability Assessment** - This world-leading service focuses upon custom application and system components developed by in-house or trusted third-party agencies. As many organisations are now discovering, security flaws within their custom applications can be a significant threat. NGSSoftware's consultants analyse and test for vulnerabilities that are specific to the custom application and the data systems it connects to. These security application flaws often allow attackers to bypass many perimeter defence systems such as firewalls and IDS/IPS.
- » **Intrusion Detection Systems Assessment** - It is common for many networked organisations to make use of IDS as part of their perimeter and internal control processes. Should clients make use of IDS countermeasures as part of their network topology, NGSConsulting offers a detailed assessment service to evaluate their deployment and effectiveness at preventing common attacks. Advice is given on how to manage IDS alerting and dealing with alert thresholds.
- » **Intrusion Detection Systems Design** - IDS can help reduce enterprise risk dramatically. However, this is only the case if the IDS solution in place has a governing set of principles with regard to both policy and procedure. The IDS design service offered by NGSConsulting allows clients to fully understand the limitations and advantages of both anomaly detection and signature based IDS solutions, as well as helping define policies and procedures to mitigate risk exposure.
- » **Firewall Assessment** - The NGSConsulting Firewall Assessment is designed to address firewall installation, configuration issues, assessment of the security of the existing firewall infrastructure, its effectiveness at protecting network resources and its ability to restrict the flow of an attack in the event of a client infrastructure compromise.
- » **Wireless Network Assessment** - The Wireless Network Assessment services provides clients with a detailed overview of their current wireless security. They provide specific details of wireless infrastructure vulnerabilities and, where necessary, detail a remedial action to be undertaken to improve the security posture of the WLAN.



NEXT GENERATION SECURITY SOFTWARE

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- » **Workstation Security Assessment** - Depending upon policies and procedures in place, workstation security can pose as significant risk to enterprise environments as 'traditional' attacks on network infrastructures. The workstation security assessment service offered by NGSConsulting provides our clients with a thorough overview of existing workstation security and highlights the necessary remedial actions.
- » **Database Security Assessment** - Confidential databases can often be an enterprises most valuable digital asset. During the course of the database security assessment process, consultants conduct a variety of controlled intrusive and non-intrusive testing procedures that assess not only the security of the database itself, but of all associated systems.
- » **System Hardening** - A vital element in ensuring that a clients business applications and data remain secure is through systems hardening. During the systems hardening process consultants assess the business and technical requirements (as well as the limitations of each client server and system in place), working in tandem with clients to develop hardening scripts and secure configurations for applications within the environment. All are developed according to "best-practice" principles, ensuring that operability is not lost and that an assertive security posture is retained.
- » **Network Security Architecture Design** - The network security architecture design services assist clients in developing a secure, customised architecture designed to address the current and future needs of the enterprise. Consultants conduct a collaborative review of existing network architecture and define client led security requirements. These design services help ensure all architecture solutions are secure, manageable, flexible, and capable of combating future security threats.
- » **Formal Course Training, Workshops and Seminars** - NGSConsulting offers a wide range of formal security courses, delivered in hands-on classes by experienced consultants. These security courses focus upon techniques to discover and manage numerous threats. For clients with specific training requirements or who need expert advice provided to smaller groups of staff, a range of bespoke technical workshops and seminars are available that cover almost any security issue.
- » **Application Security Architecture Design** - Working in tandem with clients, consultants will assist in the architecture and design of secure software. Following client consultation and scoping of the technical requirements, NGSConsulting help design applications that meet the initial design criteria as well as identifying all the components of the project that may carry the largest business risks, making recommendations on methods and techniques designed to mitigate these risks.
- » **Application Code Review** - NGSConsulting excels at the analysis and audit of source code for mission critical applications or distributed application components, successfully uncovering almost all insecure coding practices. Working closely with the clients development team during the analysis phases, consultants will focus upon key elements of the coding structure such as authentication processes, data validation, and session management.
- » **Solutions Deployment Strategies** - This service allows clients to determine and design relevant security infrastructures. NGSSoftware's expert consultants assist clients in defining the best location, installation and provide vendor neutral advice on security products to suit their enterprise needs. This service can also provide detailed guidance on management and maintenance requirements for the solutions and the impacts it has upon the overall security posture of the enterprise.
- » **Vulnerability Remediation** - Our experienced consultants work closely with clients to develop a range of vulnerability remediation strategies and procedures. These services help our clients to develop a strategic response.
- » **Attack Forensics** - Unauthorised intrusions and attempts at intrusion can cost time, data, and money. NGSConsulting works with clients helping to develop a detailed picture of how the digital attacks occurred and track the attacker.
- » **Incident Response** - Should an organisations information systems be attacked, the information leakage has to be stopped. The intruder's point of access (and potential future points of access) must be blocked and the parties responsible identified. The services offered by NGSConsulting are about far more than just reacting to critical computer intrusions. By working closely with our clients, consultants can help identify security issues that allowed the breach (and subsequent damage) to occur, assist our clients in developing internal procedures and help raise awareness to ensure the risk for potential future breaches is mitigated. Clients are also assisted in developing response strategies, evidence gathering and forensics.
- » **Bespoke Services** - NGSConsulting employs some of the worlds leading and authoritative security consultants. Should a client have a specific security requirement not already covered by the range of services listed above, NGSConsulting is more than happy to provide bespoke security services to match their individual requirements.

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