Security for Cloud Based Services

Service Definition

We are committed
Netcompany G-Cloud Service Offering

The diagram below provides an indication of the services Netcompany can offer your organisation. This brochure focuses on Netcompany’s Security Service which aims to provide your organisation with a complete CESG Cyber Security and Risk Management Consultancy Offering.

Each of Netcompany’s cloud-based services can operate in unison to provide a cohesive end-to-end approach or in isolation to provide individual offerings for integration into your organisation.

These services include:

- Policy & Standards
- Risk Assessments
- Risk Management
- Security Architecture IA Methodologies
- Incident Management
- Audit & Review

Netcompany have fulfilled these services through deployment of the following capabilities:

- CLAS Consultancy
- Data classification
- Security Assessments
- Security & Penetration Testing
- Cyber Incident
- Digital Forensics
- Risk Capture & Management
- Defining & generating security documentation
- Security Policy definitions, documentation & adherence
- Execution of specific targeted security testing

Security for Cloud-Based Services

Netcompany has delivered a wide range of IT programmes where security has been of the utmost importance. We have worked with some of the most security aligned organisations in the UK and have been responsible for both conducting security testing as well as identifying and remediating security issues.

Netcompany maintain a skill base of Cyber Security Professionals that hold CESG Certification. Through this capability, Netcompany provides a range of security services for organisations that have already procured cloud-based services or who are currently thinking about procuring cloud services and need to understand the associated security risks.
Overview

**CLAS Consultancy**
Netcompany provides CLAS consultancy services to a wide range of clients. These services can range from performing an independent security review across a client's entire estate or critical program, or it could be the provision of a single resource to backfill a position.

The Netcompany CLAS consultants are CESG registered and provide a range of consultancy services as defined in the Security Policy Framework (SPF).

**The Netcompany CLAS consultants are able to implement the various processes and procedures across the tiers of the SPF, this includes:**

- Governance, Risk Management & Compliance
- Protective Marking & Asset Control
- Personnel Security
- Information Security & Assurance
- Physical Security
- Counter-Terrorism
- Business Continuity

Our CLAS consultants have worked in some of the UK’s most secure environments and will expertly ensure that your systems are protected and appropriately documented.

**Data Classification**
Organisations are increasingly concerned with the protection of their data and this can lead to a barrier for the adoption of cloud-based services. It is vital to understand the criticality of your data to articulate the security controls required to protect it.

Netcompany can help organisations to assess their data and appropriately classify this data to enable the correct levels of protection to be applied. We have found that organisations waste significant amounts of money by assuming all of their data needs to be protected to the highest levels, in reality it is usually true that only a subset of data requires the highest levels of protection. It is fair to say that the higher the levels of protection the more it costs to provide the protection.

Once the data has been classified, Netcompany can introduce tools to help control the data. We can also provide education to the user base to ensure they understand the implications of data classification.

Netcompany are truly independent and therefore we can recommend the correct tools to support your organisation based solely on your requirements.

Netcompany’s CLAS consultants have years of experience and are actively transferring to at least the CESG Certified Professional (CCP) Senior-Practitioner level. As a specialist consultant all Netcompany Security Practitioners are multi-disciplined and capable of interacting to all levels.
Security Assessments
Netcompany can assist your organisation by providing experienced security consultants who have a track record in performing assessments, this includes the definition and documentation of required policies, procedures and reports.

The output of the assessments will enable the understanding of your current organisational security risks and recommend solutions to the current weaknesses including but not limited to:

- IT Security Direction
- Management of Cyber Risk
- Cyber Incident Response
- Protection of Corporate Data
- Assessment and Audit – GDPR, ISO27001, Environmental Accreditation

Vulnerability, Penetration & Security Testing
We find that many organisations are uncertain of moving applications to the cloud or of receiving cloud-based Infrastructure (IaaS) or Software services (PaaS/SaaS) because they do not know how to test them adequately and ensure they are secure.

The Vulnerability, Security and Penetration testing services provided by Netcompany aim to provide assurance that the cloud solution being delivered provides the correct level of security. A coherent risk based approach is applied to prioritising and addressing any vulnerabilities and defects.

Unlike functional testing, the security testing completed by Netcompany will focus on invoking security functions often on least used system mechanisms. In addition, security testing will include a high number of negative tests that demonstrate unsuccessful attempts to circumvent system security.

Netcompany can either provide resources to complete the relevant security testing or resources to support a client through the penetration testing process. The following provides an overview of the penetration testing scope that Netcompany typically employ:

- Unauthorised changes in the network switches/routers configuration
- Unauthorised access and/or changes to dedicated security enforcing devices
- Denial of Service attacks
- Assessment again known vulnerabilities
- Where required, attempted forced entry
- Simulated attack response

A key differentiator with Netcompany is we openly engage with the cloud service providers at the planning stage to ensure buy-in and support for the testing that needs to be completed.

In all cases vulnerabilities and defects discovered during testing will be subject to remedial actions and retesting will be completed in accordance with a clearly defined defect management process.

Defect management will provide correct and contextualised risk assessment for all security vulnerabilities allowing resource to be appropriately assigned to perform remediation activities based on severity and priority.

For security testing in the cloud the key activities that Netcompany performs at the strategy and planning stages often prevents issues in execution.
Cloud Partner Assessment

Netcompany can assist your organisation by providing experienced security consultants who can identify and understand your organisations specific security requirements that may only be pertinent to your department, agency or project.

Our experts can then assess whether the defined characteristics of your cloud provider (Public, Community, Hybrid, Private) or approach (IaaS, PaaS, SaaS) will meet your security requirements.

For an organisation to make a secure deployment, it must fully understand and state its security requirements. The assessment of partners and solutions against those requirements is key to realising secure cost-effective deployments.

Cyber Incident

Netcompany provides pre-emptive and reactionary services for organisations that are either worried about a cyber incident occurring or who have already been the victim of a security incident.

Netcompany provides “Plan and Review” services that examine how an organisation would handle a cyber incident. Cloud-based services can often put in place restrictions which can prohibit investigating a cyber incident fully. Cloud services suppliers are often not set-up to support an organisations needs in the event of them being a victim of a security attack.

The “Plan and Review” services provided by Netcompany will look at both the technology services being received and also the commercial model in which they exist – many contracts often have ambiguous terms regarding data confidentiality, data integrity and recovery after a data breach – all of which are key to be able to respond to a cyber incident.

The review will run use-case scenarios to determine the risks involved, as well as the level of mitigation and continuity plans that are in place to be able to both respond and investigate a cyber incident. Software as a Service (SaaS) in particular can often found to be poor in security provisions.

Where a client has contacted Netcompany as a result of an incident occurring, then our qualified CLAS consultants will follow a CESG approach to any Cyber Incident Response (CIR). This will typically follow the below approach.

- Determine the extent of the incident.
- Work to ensure immediate impact is managed.
- Provide recommendations to remediate the compromised sources.
- Provide recommendations to increase security across the network.
- Produce an incident report to describe the scope of the problem, the technical impact, mitigation activities and an assessment of business impact.
- Give an impact assessment – where the incident affects end-user or customers.

The output from the review will typically be a report presented to your key stakeholders of your organisation with the key aspects clearly articulated.
Digital Forensics
In this continually connected world, organisations need to be increasingly aware of who is accessing their systems and data. The number of devices that can carry an ever-expanding amount of data is growing rapidly and this can raise the risks that organisations face.

We are finding that organisations are increasingly using Digital Forensic services as a result of a security breach or an internal investigation.

Netcompany provides a range of digital forensic services:

- Computer Forensics
- Mobile Device Forensics
- Network Forensics
- Data Analysis Forensics
- Database Forensics

The forensic process that Netcompany uses includes seizure of the data sources, forensic imaging (acquisition), analysis of digital media and the production of a report into collected evidence.

Acquire – in cloud-based solutions then the information is acquired by obtaining a “live” logical copy. Data hashing is used to verify that the copy is accurate.

Analyse – a variety of techniques are used to recover evidence: deleted files; live analysis; volatile data; cross-drive and steganography.

Report – a comprehensive report will be produced which provides details of the data sources acquired and a reconstruction of the events that have occurred.
Compliance to UK Government Standards

All the services that Netcompany provides either support or comply with UK Government policies:

- Technology Code of Practice
- Digital Service Standard
- Adherence to GDS principles & procedures where relevant

In procuring any service from Netcompany we support the procuring authority in ensuring compliance.

Our G-Cloud services look at cloud adoption as a first principle. The key aim of any service we deliver is to provide one that meets the user needs, and this is inherent in our service definition and design stages.

In implementing technology solutions we aim to make them:

**Interoperable**
By complying with open standards and using RESTful APIs wherever possible for integration and utilising common government solutions.

**Open**
By adopting open source standards and following open data principles.

**Secure**
By designing and implementing services and components of any system according to government best practice and by following the principles set out in the Security Policy Framework, Security Classification Policy, Cloud Security Principles and the National Technical Authority for Information Security information risk management guidance.

**Accessible**
By adopting UK government accessibility guidance and designing services that are supported by a range of web browsers or via assistive technology.

The services we provide aim to promote good practice and avoid duplication of effort through re-use and sharing.
netcompany is the fastest-growing IT service company in the UK and the most successful in Northern Europe with 11 offices in 5 countries and over 1,800 employees. Our vision is to become the leading challenger by accelerating digital transformation for public and private sector customers to support sustainable, strong societies, social mobility, successful services and better lives for citizens.

Our clients succeed through our transparent and deliverable-driven methodology and a highly skilled team of IT professionals providing end-to-end citizen and user centric IT services from development through to maintenance and operations. Details of which can be clearly demonstrated through our wide range of digital transformation case studies gained through some of the most challenging programmes and projects faced by public and private sector organisations today.

We truly value our client relationships, that’s why we always strive to form close partnerships creating the best possible foundation, experience and quality of delivery. We also understand that our employees are the key to maintaining our position as the most skilled and fastest growing IT consulting firm. That is why we have created a business model where we constantly focus on developing our employees to continue to be the best in the industry.

We deeply understand the UK’s commitment to continue to be a world leader in Digital Government and Society and believe our cross-government experience, coupled with our outcome delivery commercial approaches provides the UK Government with a unique partnership experience. All our solutions are based on modern, legacy-free technology and industry standards. We build scalable, robust solutions that will adapt to changing processes, fully anchored in your organisation using Agile methodologies to accelerate your digital transformation.

When you engage with us you experience an ability to quickly and efficiently onboard specific skills and teams to meet your objectives, commercial terms that align to your outcomes and with proven delivery models that can easily scale to complex and large scale multi-supplier programmes and projects.

Our full range of services include Digital & Technical Advisory, Cloud Strategy, Transition & Transformation, Programme & Project Management, Web & Mobile Application Development, Data Analytics & Artificial Intelligence, Cyber Security and Secure DevOps.
The Netcompany team is passionate about delivering cost-effective, innovative technology solutions and services to the public sector.

Our team is made up of some of the best technologists in Europe, each of whom are 100% focussed on providing real value.

You have our commitment that each engagement will be a complete success and we provide financial guarantees which incentivise us to always deliver.

To arrange a discussion about how Netcompany’s approach to Security for Cloud Based Services can help your organisation, please call 0800 567 7196 or email: info.uk@Netcompany.com