

ROKE



Cloud Security Advice

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Service Definition

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Cloud Security Advice – Service Definition

Benefit from independent professional advice to help you identify, understand, and manage your cloud security responsibilities, accountabilities, and legal requirements. We provide in-depth technical design, testing, security architecture, risk, and assurance tailored to your needs.

Roke's Cloud Security Advisory Service provides independent advice on risk analysis and treatment in public, private and hybrid cloud environments.

We perform structured threat and vulnerability analysis at the component, system, user, and business-process levels using recognised methodologies such as STRIDE and threat-led risk assessment.

We assist with secure-by-design approach using our security architecture expertise and threat modelling.

We support the implementation of controls and mitigations at the technical and process level in line with industry standards such as NCSC (National Cyber Security Centre), NIST (National Institute of Standards and Technology) and cloud provider guidance, drawing on our cyber, software and cloud expertise.

Service Offering

- Cloud Design Services
- Security Architecture and Configuration Reviews
- Risk Management and Assurance

Roke's expertise in cloud-native and cloud-based solutions, cyber security, and data assurance means our consultants can provide guidance across the board regarding securing systems in the cloud. We bring value to customers by designing solutions that fit your needs and threat model and reviewing existing or planned deployments.

Providing a deeper understanding of your responsibilities for a system in the cloud environment reduces your risk of legal non-compliance and assures your cloud design

meets security requirements, design and business goals.

Detailed Service Definition

Cloud Design Services

Utilising Roke's expertise in cloud environments, we can assist in navigating what can be a complex ecosystem, ensuring a secure, compliant, and cost-effective solution. Roke designs and develops bespoke cloud applications and provides these as managed services.

Roke's Amazon Web Services (AWS), Azure and Google certified cloud architects and engineers provide advice and consultancy in designing a custom cloud solution tailored to your business needs. We prioritise best practices, security, scalability, and cost-efficiency.

We have a history of developing big data architectures using open-source technologies, exploring which options are ideal given their strengths and weaknesses and the associated opportunities and threats. Roke has a dedicated team of data engineers, architects, and analysts to provide bespoke, data-driven solutions. We design and implement data lake structures for storing large quantities of varied data, fusing multiple sources, and providing insights through bespoke analytics and dashboards.

Roke has experience with a number of data storage solutions and utilising technologies that best suit the requirements, often combining multiple sources to gain insights across a domain. Systems are developed with security in mind, providing monitoring and auditing

capability to manage access and authentication and optimising cost and performance. Our consultants follow security best practices as advised by cloud providers and draw on our in-house expertise.

Security and Configuration Reviews

Our Security Architecture and Configuration Reviews provide an in-depth analysis of planned and existing cloud environments, identifying vulnerabilities and misconfigurations across identity and access management, network segmentation, cloud resource configuration, logging and monitoring, and data protection controls. We incorporate threat modelling techniques to understand potential attack vectors and prioritise risks specific to your cloud setup, providing you with design assurance, code reviews, and cloud solution testing. All positively impacting your cloud security posture.

With a history in cyber security, our consultants are well-placed to guide and advise on your responsibilities in cloud environments regarding data management, securing resources, and managing access. We provide reviews across Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) offering in private, public and hybrid cloud environments according to your requirements.

Risk Management and Assurance

Cloud adoption offers many advantages, but managing risks remains critical. Our Risk Management and Assurance activities are underpinned by Roke's ISO/IEC 27001:2022 certified Information Security Management System and Cyber Essentials Plus certification, ensuring cloud security risks are identified, assessed, documented, and managed using recognised and independently assured controls. Our cloud-certified risk and assurance consultants will proactively identify and mitigate your cloud security risks, ensuring

appropriate controls are in place to meet regulatory requirements by selecting cloud security and compliance frameworks that can meet your needs.

We can assist with establishing and operating a risk management strategy to identify potential threats and vulnerabilities, ensuring appropriate resource allocation based on identified risks, and allowing you to take full advantage of operating in the cloud.

Key Services

Cloud Design Services

- Access to experienced and certified cloud architects and engineers
- Systems architecture advisory and infrastructure-as-code (IaC) design assurance
- Security-driven approach – Secure-by-Design
- Data architecture and analytics advisory, including design assurance for secure data handling Cost and performance optimisation
- Deployment auditing

Security and Configuration Reviews

- Shared responsibility assessment
- Vulnerability analysis
- Threat modelling and attack surface management
- Monitoring and auditing
- Cloud security architect insight

Risk Management and Assurance

- Establish new and operate within existing risk management frameworks
- Compliance support and readiness
- Ongoing risk monitoring and reporting
- Enforce policies and procedures to maintain security posture



Pioneering Technology for Global Security & Future Warfare

At Roke, we stand at the forefront of defence and security, delivering cutting-edge intelligence and engineering solutions that protect nations, troops, borders, critical national infrastructure and businesses. We bring the credibility of a long-standing defence and security leader, the precision of a specialist, and the agility to solve complex, high-stakes challenges with purpose and impact.

Roke is at the forefront of shaping the future of digital defence, intelligence, and national security.

We are Roke. We are Changing Worlds.

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