

Job Description

Basic Job Information

Job Title	Information Security Architect
Brand/Function	Information Technology
Department	IT Governance and Security
Job Grade	D/ D2
Location	Blakelands
Role Reports to	Chief Information Security Officer
Direct Reports	0
Budget Accountability	No

Job Purpose

The role Information Security Architect is to provide expert advice and support on the selection, design, development, justification and implementation of IT security that aligns with business goals, while ensuring that the appropriate level of confidentiality, integrity, availability, accountability and relevant compliance is maintained and aligns with the business risk appetite.

Key Areas of Responsibility

- Create and maintain security frameworks and reference architectures;
- Designing / architecting security solutions to thwart malicious attacks that could lead to the compromised of Volkswagen Group's information or systems;
- Design secure network, application and cloud architectures;
- Identify potential security risks and vulnerabilities, and recommend mitigation strategies
- Work with the Security Lead Architect, Operational IT, Business Analysts and other Architectural roles to ensure that architected solutions meet the business requirements and fit with the overall IT Security Architecture & strategy;
- Analyse existing systems and preform a gap analysis against Group security requirements and best practice;
- Performing treat modelling against applications, systems, infrastructure and process;
- Testing for weaknesses and defining audit scope in order that an outside ethical hacker can be engaged to run a thorough penetration test in order to ensure that systems are secure from attacks:
 - Liaise with technical stakeholders to discuss and explain the technical implications of any issues identified;
- Gaining a thorough understanding of an organisation's architecture (application, infrastructure and business process) in order to learn who has access and where the vulnerable points may be. After making a thorough assessment, recommend updates and improves the overall Company's security stance through software, hardware, policy and process;
- Identifying and architecting countermeasures that will protect systems when an unauthorised user attempts to gain access;
- Validating that solution designs meet the security principles, requirements and concepts;
- Always being concerned with protecting information flow;

- Participate in reviews of solution architectures ensuring that all solutions being implemented by Volkswagen group meet the principles of Security and Privacy by Design and Default;
- Ensure that appropriate Information Security standards (corporate, industry, national and international) are adhered to;
- Track and promote use of common methods and processes for achieving security solution design;
- Contribute to the continual improvement of security standards, policies, principles and guidelines;
- Track and understand current and emerging threats and vulnerabilities;
- Provide governance and alignment of architecture development to the Information Security strategies;
- Be responsible for ensuring governance of security within assigned projects, e.g. end to end traceability of all security requirements being tested and met;
- Ensure all identified risks are highlighted to the Security Architect Team Lead and added to the project risk log
- Insure the Information Systems Security Assurance process to followed and report on
- Conduct feasibility studies for new technologies, if applicable;
- Assist with Security Operational tasks as needed;
- Assist in the investigation and response to security incidents, analyse breaches to improve future defences;
- Supporting Information Security operational activities as request by the CISO.

Compliance Responsibility

- Ensure all relevant KRLS are adhered to as part of the local and AG Security obligations

Working Relationships

- All teams within VWG UK IT Department
- VWG UK Legal and Risk Department
- VWG UK Brands and Functions
- VWG UK Suppliers
- VW Group companies and Headquarter Compliance, Security and IT teams
- VW Group AG Security Projects team
- VW Group European NSC's
- Bentley, Porsche, MAN, Scania and other Group companies within the UK

Skills

- An expert knowledge and understanding of (including implementation) of Security by Design (including Privacy by Design), Defence in Depth, Attack lifecycle, Secure System Development Lifecycle
- Detailed knowledge and understanding of the latest cybersecurity frameworks and standards, e.g. NIST CSF, ISF SOGP, ISO27000, PCI-DSS, CIS, CSA CCM, MITRE ATT&CK, OWASP and their implementation.
- Extensive knowledge and understanding of security at all levels of the OSI model.
- A well-grounded understanding and experience of networking, infrastructure, middleware and software development.
- Excellent knowledge of IT networking, security infrastructure and modern operating systems, including but not limited to MS Windows and Linux
- Expert understanding of applying security principles and ensuring compliances in IaaS, PaaS and SaaS environments.

- Technical Architectural level experience, including infrastructure, networking and application
- Expert knowledge of security principles and technologies
- Perform end-end security architecture reviews
- Excellent written and oral communication skills at all levels, strong communicator and ability to articulate and communicate complex IT-related business issues to senior staff in a manner than business stakeholders will understand. Able to work effectively in a team and across multi-functional teams
- Good commercial awareness of the potential business impact of Information Security and a pragmatic approach to ensuring Information Security is a business enabler
- Understanding of Risk Management and risk methodologies
- Expert knowledge in the implementation and operation of SecDevOps
- Good working knowledge of AWS (architecture, services and tools) and how Information Security best practice should be implemented and monitored.
- Knowledge of the cloud vendor frameworks and cloud technologies, e.g. SOC2Type II, ISO27017, AWS Well-Architected Framework

Experience

- Strong knowledge and use of threat modelling frameworks and methodologies
- Practical experience of designing and developing solutions across large scale infrastructures / environments
- Cloud-based cyber security principles and architecture points
- Boundary controls, network segmentation and access control
- Identity and Access Management (including RBAC, SoD, permissions management)
- Cryptographic techniques and implementations
- Vulnerability Management and Patching
- Logging and monitoring concepts
- Serverless, Containerisation and virtual machine security
- Delivering secure solutions against project expectations
- Strong awareness of and commitment to industry best practice
- Driving change in a complex environment
- Working within a TOGAF aligned project methodology
- Extensive experience of creating and reviewing design documentation.
- Good working knowledge of MITRE ATT&CK.
- Good working knowledge and understanding of ISO27001/2, DPA 2018 / UK GDPR, EU AI Act, EU NIS 2 and relevant standards / legislation.
- Experience of Architecting innovative Information Security technology systems in a consumer-facing sector
- Experience of security management tools and techniques
- Securing and leveraging AI
- Motor industry knowledge / Retail industry experience.
- Agile methodologies, DevSecOps, etc.

Qualifications

- SABSA, TOGAF
- AWS Cloud Practitioner
- AWS Certified Solutions Architect
- AWS Certified Security Bachelor's Degree or demonstrable experience

- CISSP-ISSAP – Information Systems Security Architecture Professional
- CCSP – Certified Cloud Security Professional
- Other Cloud Vendor training
- CIPT – Certified Information Privacy Technologist
- AIGP – Certified AI Governance Professional
- COBIT

Career Pathways

- Information Security Architect – Team Lead
- Security Operations – Team Lead
- Chief Information Security Officer

Version Control

Date	Version No.	Reviewed by	Comments/Action
October 2025	1	E Morcombe	
From 2021 onwards document version control is controlled via SharePoint, the latest version of this document will be held on Life Online and therefore this document is uncontrolled if printed.			