Jonathan Crawford

Enterprise / Cloud / Security Architect

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**Profile**

A driven, motivated, results-focused **Enterprise / Cloud / Security Architect** with **SC Security Clearance** and extensive experience within the Public Sector, Telecoms, Utilities and Financial sectors. Vast experience in Enterprise / Cloud / Security Architecture, cost reduction, solutions design, IT infrastructure, business process planning, IT strategy, service delivery, troubleshooting, systems implementation, security models and requirements gathering.

**Skills Matrix**

Enterprise architecture | security architecture | security consultancy | solutions architecture | IT solutions | solutions integration | IT infrastructure | infrastructure management | infrastructure services | solutions design | solutions implementation | implementation management | cost savings | cost reduction | financial control | budget management | bid management | business process planning | process management | process engineering | relationship management | team management | IT systems | systems design | systems implementation | IT strategy | strategy delivery | strategy implementation | strategy management | IT services | service delivery | troubleshooting | technical assurance | business requirements | IS security | IS strategy | ISO27000 | cloud architecture | cloud security | cloud solution design | cloud implementation | cloud adoption | hybrid cloud | AWS | Azure | DevSecOps

**Personal Attributes**

* Ambitious Enterprise / Cloud / Security Architect with outstanding strategic vision and professional application
* Hardworking, trustworthy and results orientated with clear focus and direction
* A strong team leader who isn’t afraid of hands-on involvement and responsibility
* Talented and able to add value whilst enhancing creative vision
* Confidently interfaces with clients to maintain and increase customer satisfaction
* Utilises initiative and drive to instil passion and intelligence into every task undertaken
* Positive thinker with the capability to motivate teams at all levels
* Understands the importance of achieving targets and surpassing client expectations

**Career History**

6point6 – **Cloud Security Architect Feb 2022– Current**

Senior security architect working on the largest AWS account in Europe for a major government client. Reporting directly to the Head of Cyber Security and working with multiple delivery partners I was responsible for ensuring delivery cadence was not negatively impacted by cyber assurance. Ensuring good security posture was maintained in a rapidly evolving, primarily microservices-based cloud environment. Entrusted with ensuring delivery of a number of high profile PM priority initiatives remained within departmental risk appetite in challenging situations. Provided solution design services for sensitive projects. Guided the security design of the client’s digital forensics environment, ensuring compliance with new regulation. Provided technical security design assurance for global customer contact centres in 143 countries, ensuring design compliance with data residency regulation in overseas jurisdictions. Challenged existing ways of working through promoting enterprise security architecture practices. Driving standardisation through security architecture pattern development and reaching out across client portfolios to ensure broad strategic alignment and where possible reuse. Driving forward the organisational standards for authentication and authorisation enabling better business outcomes through adoption of new technologies. Responsible for the design and deployment of the first workload onto the client’s new AWS platform. Working closely with the platform team to identify, and resolve the challenges associated with being the first on-board. Active member of portfolio governance boards. Informally guiding and mentoring of the wider cyber security team.

Methods – **Cloud Security Architect Mar 2021– Dec 2021**

Security lead for a DevSecOps engagement delivering an appstack platform underpinning a data mesh architecture in AWS for a major Government Client. Responsible for all security aspects of the delivery including; derivation of security & privacy requirements, alignment with client / HMG policies and standards, authoring solution options papers for security enforcing functions, review of design governance artifacts, risk assessment and client risk presentation. Guided the establishment of a secure software development lifecycle facilitating continuous integration / continuous delivery of Terraform IaC through security enforcing pipelines. Designed security control sets aligned to NIST 800-53 and ISO27k with centralised logging, audit and forensic readiness capabilities and a roadmap for integration with emerging client SOC capabilities and services.

Developed and owned the relationship with the client’s Enterprise Risk, and Security Architecture teams, driving the formal information assurance of the tenant architectures and securing SIRO sign-off for all environments in advance of project timelines. This was achieved through integrating the security “shift-left” paradigm into the client’s existing Enterprise Security Risk Management process, creating a streamlined, iterative assurance process supporting continual development, iteration and solution maturity levels.

Championed the adoption of policy as code, to enforce security and compliance standards across all phases of the development lifecycle, with automated remediation in the runtime environment.

UK Home Office – **Cloud Security Architect Feb 2019 – Dec 2020**

Responsible for establishing and maintaining all aspects of a security architecture facilitating the migration of National Policing systems into the AWS cloud. This included developing the architectural design patterns, assurance wrap and operational procedures, that have allowed programs across Home Office to utilise AWS CloudHSM, delivering cost savings and enabling continuity of crypto services throughout COVID BCP. Managed the assurance of AWS services with National Policing Information Risk Team. Developed policy, standards, procedures and guidelines for the cloud paradigm. Designed architectural patterns, and reviewed partner designs. Introduced cloud enabled security enforcing functions such as automated remediation of security incidents. Developed robust protective monitoring use case testing procedures. Conducted risk assessment of products and services to be integrated into the platform. Supported the operational security team and fulfilled a security incident response escalation role. Developed a model providing traceability of risks to mitigating controls within the client’s EA tooling. Promoted the adoption of quality controls and processes to streamline assurance and minimise vulnerabilities. Developed stake holder relationships in support of continual assurance of the solutions being delivered. Designed and executed high assurance processes and procedures for the commissioning / decommissioning of crypto-services and secure sanitisation of National Policing data from cloud environments to a standard accepted by the National Police Auditors.

BAE Systems Applied Intelligence – **Cyber Security Consultant Aug 2018 – Dec 2018**

Engaged on a short term contract reporting directly to the CSO, conducting an independent, internal, Enterprise Cyber Security review. Given full autonomy of approach, the review was delivered through a series of interviews with key business, technical, and information focussed stakeholders. The report and recommendations were delivered on schedule and within budget, for board briefing in December.

Developed outline project plan to to deliver the recommendations made within the Enterprise Cyber Security review.

Co-authored AI’s 2019 Cyber Security Strategy and produced supporting presentation for board briefing.

Developed guidance for the practical application of the new BAE Group Security Incident Response capabilities with Applied Intelligence.

Dept for the Environment, Food and Rural Affairs (DEFRA) – **Lead Security Architect Jan 2018 – June 2018**

As part of the Senior Management Team, formed and led a small team of security architects responsible for driving the security assurance activities for the Defra’s £1.67B UnITy ICT consolidation programme, a key enabler for Defra’s 2020 strategy.

Streamlined and standardised the assurance process across multiple vendors through the procurement, and into the implementation phases of the programme. Developed and refined standard information assurance artifacts and governance processes that were adopted and reused Defra Group-wide.

Guided suppliers ensuring their alignment with ISO 27001/2, NCSC’s Cloud Security Principles, Defra and other applicable policies and standards, across End User Compute, Hosting, Cloud, Office 365 and Network domains.

Managed stakeholder relations within the programme and with the wider Security Operations and Accreditation team, Data Protection and other BAU functions, through challenging times with aggressive programme delivery timescales.

Represented the team and wider security community in various programme governance forums, at various levels, from senior management team through to technical systems integration working groups.

Managed the delivery of security architecture capabilities, ensuring deliverables were aligned with business maturity and needs.

Metropolitan Police Service – **Technical Assurance Manager May 2017 – Jan 2018**

Responsible for technical assurance live service change, whilst supporting continued systems development for a suite of private community cloud applications providing comms data acquisition services in support of UK counter terrorism activities, serving the UK-wide law enforcement, intelligence and other HMG user communities.

Providing technical support and guidance for the ITIL change, incident and problem management functions. Managing technical incident resolution across multiple suppliers and consumers in a complex end-to-end environment.

Redesigned the operational patching procedures for application and O/S, minimising systems maintenance windows and ensuring rapid remediation of any vulnerabilities. Established platform on-boarding and off-boarding processes to ensure consistency in the introduction of new functionality in rapidly evolving platform.

National Crime Agency – **Assurance Lead / Enterprise Architect Aug 2013 – Mar 2017**

Assurance lead of a multi-discipline team responsible for assuring the work of the Agency’s Systems Integrator through a complete ICT tech refresh and modernisation program. Responsible for technical assurance of the design and delivery of key infrastructure elements including networks & gateways, VMware ESX / Oracle OVM apps hosting platform, centralised XenApp based published desktops and a distributed, fully managed, Windows 7 desktop in a multi-impact level (OFFICIAL / SECRET) environment. Developed technical and service designs for MS Office “User developed content migration” service to ensure business continuity through MS Office upgrade.

Guided and assured the delivery of the Agency’s first widely available mobile remote access solution in support of the strategic mobilisation goals, whilst working with the business to identify and restrict access to information assets and systems deemed not for consumption outside of the Agency’s controlled physical environment.

Guided and assured the development of a Protective monitoring capability to meet the requirements of GPG13 within the “Detect and Resist” space of the segmentation model that incorporated long term accounting store to evidential standards, event feeds to an outsourced Security Operations Centre for real-time monitoring, an Investigation Management capability, including machine data analytics and reporting as well as endpoint covert live monitoring capability and Intrusion Detection and Prevention in both the network and on the endpoints.

Actively participated in the development of the Authority’s 5-year ICT strategy as part of a team, building an in-house architecture function from the ground-up within a newly formed CIO office; defining terms of reference and building upon that to deliver an enterprise architecture function to support the business desire to strongly embrace technology as an enabler for the disruption and reduction of serious and organised crime.

Provided support, advice and guidance to business led workstreams enabling them to on-board new capabilities whilst ensuring they remain within the constraints of the Agency’s risk appetite and fully integrated with enterprise-wide services. Ensuring that, where supplier boundaries were crossed, the solutions functioned, technically and contractually to as to appear “as one” from a service and user perspective.

Older

Fivium - G-Cloud Consultancy Services May 2013 – June 2013

Department of Trade and Industry / BERR / BIS - Security / Technical Architect Nov 2004 - Mar 2013

Centrix Networking - Technical Architect Apr 2004 - Oct 2004

Internet Designers Limited Sep 2000 - Apr 2004

*BT Global Services* - Solutions Designer Apr 2003 - Apr 2004

*BT OpenWorld* - Security Architect Aug 2002 - Apr 2003

*PSNI* - Bid Leader / Delivery Manager Jan 2002 - Aug 2002

*BT Ignite Content Hosting* - ASP Solutions Designer Sep 2000 - Dec 2001

TXU Europe - Technical Design Authority Mar 1997 - Sep 2000

**Certifications**

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| * TOGAF 9.1 Certified * SABSA Chartered Security Architect (SCF) * Certified Information Systems Security Professional (CISSP) * Certified Cloud Security Professional (CCSP) * Certified Secure Software Lifecycle Professional (CSSLP) * DevSecOps Foundation (DSOF)℠ * Cloud Industry Forum Certified Professional - Advanced (Level 2) - expired * Microsoft Certified: Azure Solutions Architect Expert * Microsoft Certified Solutions Expert: Cloud Platform and Infrastructure (MCSE) | * AWS Security Specialty * AWS Certified Solutions Architect – Professional * AWS Certified DevOps Engineer – Professional * AWS Certified Solutions Architect – Associate * AWS Certified Developer – Associate * Citrix Certified Enterprise Administrator (CCEA) * Microsoft Certified Systems Administrator (MCSA Windows 2000, 2003) * Microsoft Certified Systems Engineer (MCSE Windows 2000, 2003) * Softricity Certified Professional (SCP) |

**Education**

Anglia Ruskin University - **HNC Electrical and Electronic Engineering**

**Professional Associations**

The Chartered Institute of Information Security - **Associate and Founder (ACIIS)**

The Institution of Engineering and Technology - **Member / Incorporated Engineer (MIET, IEng)**

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