**JASON SALTER VCP6-DCV MCSA CCA**

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**VIRTUALISATION AND SERVER INFRASTRUCTURE**

DESIGN | BUILD | IMPLEMENTATION | MAINTENANCE

A seasoned professional with over 25 years of expertise in the police, healthcare, and defence sectors. Specialising in secure government environments, adept at utilising best practices to enforce secure communication and networks. Excelling in both virtual and physical environments, including design, build, implementation, and configuration of on-premise, cloud, and hybrid platforms. Excellent communication skills and dedicated to providing top-quality work individually or as part of a team.

**CORE COMPETENCIES**

* **Private Cloud Technologies –** Highly skilled in VMware, Hyper-V and Nutanix HCI to manage, support and optimize physical server resources.
* **Public Cloud Technologies –** Certified in Microsoft Azure, AWS and M365 technologies with expertise in moving from an on-premises to cloud hosted platform.
* **Problem Solving and Analysis –** In-depth understanding of SaaS, PaaS and IaaS cloud solutions, providing consultancy and delivery of secure solutions that reduce risk, and technical debt.

**CORE TECHNOLOGIES**

* **Containerization** – Docker, Podman, Kubernetes (K3S, K8S) and RedHat OpenShift
* **Automation / IaC** – Terraform (OpenTofu), Ansible
* **CI/CD Tooling -** GitHub Actions, GitLab CI
* **Security** – HashiCorp Vault secrets management
* **AWS** – EC2, VPC Networking, S3, EBS, Serverless solutions
* **Azure –** IaaS, SaaS, AD/AD Connect, VPN Tunnelling, RBAC, Virtual Networking
* **Virtualization** – VMWare ESXi, VCSA / NSX/ vSAN / vROPS, VMware Cloud Foundation, Hyper – V, Failover Clustering, Nutanix HCI, P2V Migration VMWare Converter
* **Domain Services** – Active Directory, ADFS, DNS, DHCP, Group Policy, PKI Certificate Services
* **Backup and Recovery** – Veeam B+R Suite, Veeam One, Rubric Backup and Recovery
* **Storage** – Azure Blob, AWS S3, NetAPP ONTAP, HP 3-PAR
* **Servers** – HPE ProLiant, Dell PowerEdge, Cisco UCS

**PROFESSIONAL EXPERIENCE**

**DevSecOps Engineer**  **May 2024 – Present**

**Government (Defence) - Contract**

* Designed and built a scalable, automated containerised Kubernetes environment.
* Configured Linux templates using HashiCorp Packer (Ubuntu/RedHat).
* Employed IaC toolsets like OpenTofu for consistent infrastructure redeployment.
* Utilised Ansible for application configuration automation.
* Completed RedHat OpenShift (OCP) training, including auto-scaling deployments, troubleshooting, and best practices for OCP environments.
* Developed and deployed CI/CD pipelines using GitLab.

**Senior Infrastructure Engineer** **Jan 22 – May 24**

**Government (Defense) – Parico IT**

* Facilitating specific customer needs quickly and iteratively, through building Proof of concept environments based on the Statement of Work or bespoke requirements.
* Using IaC (Infrastructure as Code) technology **Ansible** for specific configuration of resources to ensure efficient management of servers.
* Utilised **Terraform** to standardize and automate environment deployments.
* Managed CI/CD code repositories and versioning with GitHub.
* Implemented CIS Benchmarks to enhance security and resiliency.
* Providing software assurance to existing infrastructure programs, advising clients on best practices in line with the latest NCSC guidelines and recommendations.
* Upskilled in Cross-Domain architecture and working alongside niche suppliers to ensure security of data is upheld between security boundaries, whilst meeting client’s needs.
* Produced HLD/LLD documentation for architectural solutions and handovers.

**Senior Infrastructure Consultant March 19 – Jan 22**

**NHS - Contract**

* Key Technologies – VMware / Nutanix / Azure / AD / Rubric
* This project focused on the migration and re-platforming of 400+ legacy servers hosted on **VMware** ESXi. I lead project discovery, providing a full understanding of the server discovery, all application requirements and dependencies (storage/networking/client access/integration). I documented and designed a new solution within the NHS’ primary new datacenter and led the presentation of the designs to internal stakeholders, both technical and clinical. I was responsible for the full build, testing and implementation of this design within the trust. I conducted feasibility assessments to merge the new solution with other trusts, building towards the strategic goal of a centrally hosted solution.
* As part of this, costing and compatibility for placing the system into **Azure** Public Cloud or On-Premises **Nutanix** HCI was completed.
* I built excellent relationships with 3rd party suppliers ensuring successful and timely migrations of existing DB and Front-end applications from existing infrastructure to new servers.
* I implemented Web Load balancing using **Citrix** NetScaler, set up Azure application gateway for external access, and created rules on the **Palo-Alto** firewall for providing secure communication Improving the solutions resiliency and ensuring appropriate security standards.
* I worked alongside the platform and networking teams to ensure full decommissioning of old legacy infrastructure within the datacenter, cleaning up old backups, removing FW policies and ensuring equipment has been correctly disposed of. This removed technical debt, and out of support equipment from the estate.
* This was an extremely challenging but rewarding role during the Covid-19 pandemic.

**VMware Cloud Consultant Dec 12 – Dec 18 FCDO Services - Contract**

* Lead on the design, implementation, and maintenance for numerous Windows and Linux environments across vSphere, Hyper-V and Citrix XenServer. These multi-tenanted customer cloud environments were hosted across various secure classification levels, and I ensured each met their specific security requirements and lockdown requirements.
* Completed essential infrastructure Datacenter maintenance & upgrades; HP Blade server installation + configuration, racking and installing new storage shelves on NetApp, as well as a full datacenter move to a new DR site improving resiliency and security.
* NetApp SAN/NAS storage technologies including Snapmirror within HA Pairs, ONTAP 7-Mode Fibre Channel MetroCluster and ONTAP C-Mode multi-site configuration. Administration and Management of filers including presentation of iSCSI LUNs (Hyper-V), and NFS 3.1 Exports (VMware), as well as AttoBridge SAS and Brocade configuration.
* Working with Cisco UCS Flexpod environments (NetApp, Cisco, and VMware). Provision of Service Profiles, Templates and Policies to build a custom baseline unique to the customer’s complex requirements and security lockdowns.
* Development of PowerShell / PowerCLI automation scripts to manage and deploy IaaS, PaaS, and SaaS VMs and customizations, improving the team's efficiency.
* ITHC remediation tasks – Implementing security hardening based on CESG guidelines.

**Senior Systems Administrator May 02 – Dec 12**

**Cambridgeshire Constabulary**

* Full virtual Server Migration of Hyper-V to VMWARE. Managing the planning and implementing the V-to-V migration of a Windows 2008 R2 Hyper V infrastructure to VMware ESX.
* Novel to Microsoft File Migration. Facilitating a business decision to migrate away from Novel E-Directory to Microsoft Active Directory. Mitigated user issues by ensuring both directory structures were available in parallel so resources could be accessed from both environments.
* Design and implementation of a collaborative IL3 system running a shared resource domain. Working with architects from Unisys, a 2-node Oracle Database cluster setup was designed split over 2 Datacentres for the main application. A Citrix XenApp 5 farm was also created with a fully resilient setup, with multiple web Interface servers, mixture of Physical and Virtual servers as well as mixture of DAS, and SAN storage over multiple sites.

**QUALIFICATIONS & TRAINING**

* **RedHat OpenShift Administration**
* **Certified AWS Solutions Architect Associate**
* **Certified Microsoft Azure Administrator (AZ-104)**
* **Certified Microsoft 365: Teams Administrator (MS-700)**
* **VMware Certified Professional 6 – Data Centre Virtualization (VCP6-DCV)**
* **Certified Microsoft Certified Solutions Associate – Windows Server 2012 R2 (MCSA)**
* **Certified Citrix Administrator V6 (CCA)**
* **Veeam Backup and Replication V8 Administrator**
* **Certified CompTIA A+ Certified**

**HOBBIES & INTERESTS**

Outside of the workplace, I maintain a strong passion for IT, which extends to my personal life. I maintain a cloud-based lab where I experiment with virtualization, CI/CD tools and do my best to stay up to date with new emerging technologies.

Outside of IT, I am very family oriented, with my young son always keeping me on my toes. I love nature and being outside for walks and enjoy traveling to new places. I have a huge passion for health a fitness and love to keep healthy and strive to always improve myself year on year.