

Lewis Connolly Infrastructure Engineer

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Diligent, curious, and friendly professional with an honours degree in computer science and over a decade of experience in IT operations. Technical knowledge and skills in a range of infrastructure technologies and processes of large SaaS providers.

EDUCATION	EXPERTISE	PROFICIENT	KNOWLEDGEABLE	LIMITED EXPERIENCE
2:1 BSc Hons Computer Science Heriot-Watt University 2008-2012	Scripting Virtualisation Storage Backup and Recovery System Administration Physical Infrastructure	PowerShell VMware vSphere Pure Storage FlashArray Veeam Backup and Replication	Ansible Windows Server TCP/IP Zabbix	Bash Python SQL Server

EXPERIENCE

Infrastructure Engineer Zonal Retail Data Systems September 2017–

- Utilised PowerShell to automate frequent processes (such as building ESXi hosts and failing over to replica VMs), to create custom reports to monitor environment (for example, reports on VM backup status or best practice configuration), and to generally solve problems in an efficient and repeatable manner. Used Azure DevOps Server for version control of scripts.
- Responsible for VMware vSphere environment encompassing vCenter, over forty ESXi hosts across three data centres, vRealize Operations Manager and VMware Skyline.
- Primary engineer of multiple Pure Storage FlashArrays (used to store VMs on VMFS volumes and vVols) including connectivity to ESXi hosts and asynchronous replication of volume snapshots to protect data (managed via vCenter storage policies).
- In charge of Veeam Backup and Replication servers (backup, replication, and copy jobs for VMs) and NAS servers.
- Conducted monthly reporting on capacity of compute and storage resources to aid in budget forecasting and expansion of infrastructure to maintain performance, tolerate infrastructure failures, and be prepared for disaster recovery scenarios.
- Created and maintained Ansible playbooks to automate processes (such as updating VM templates and deploying new VMs).
- Installed and networked servers and storage arrays in primary data centre.
- Ensured environments responsible for were secured against vulnerabilities through monitoring, configuration, and patching.
- Produced documentation and delivered presentations to explain and demonstrate own work to team.

Build Engineer Hewlett Packard Enterprise October 2014–March 2017

- Built and maintained non-production environments—mainly housed in single racks or portable flight cases—used as development, integration, and testing platforms or to simulate live issues/events.
- Installed and networked in datacentres and labs: servers, switches and routers, SANs, laptops, and PCs.
- Provisioned and configured multiple instances of an environment of thirty-plus VMs (Windows Server 2003 and 2008) on ESXi hosts managed by vCenter, with roles including: domain controllers and DHCP; backup and recovery; software distribution and deployment; monitoring and event management; security and anti-virus; SQL databases; Exchange and LCS.
- Administration including daily checks and taking snapshots and restoring VMs before and after use by internal engineers.
- In a two-person team, travelled to a customer site with a limited number of IT trained personnel to install patches and provide technical support for a week.
- Outside of the main responsibilities of the role, volunteered to carry out—in collaboration with another engineer—presentations and site tours for work experience students on a regular basis.

Build Integration Engineer Hewlett-Packard July 2014–September 2014

- Collated and integrated patch components (e.g., software updates, technical instructions, new processes) into release units that were installed to maintain the performance, security, and functionality of test and live environments.
- Worked with developers of technologies and subsystems that make up environments to resolve patch component defects.
- Combined patch components and documentation to create the definitive release media to be delivered to internal and external customers after passing testing (an iterative process with integration team) and verification stages.

Peripherals Integration Engineer Hewlett-Packard November 2013–June 2014

- Integrated peripherals (printers, keyboards, cameras etc.) into a large test environment and progressed their delivery as release units containing software and documentation for customer sites and end users.