

Callum Pember

GitHub: <https://www.callumpember.com/github/> | LinkedIn: <https://www.callumpember.com/linkedin/>

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Summary

Extensive experience as a Systems Engineer in both large corporate environments and start-ups. Involved as the Technical Lead in projects such as AWS migrations, Puppet, Chef and Ansible deployments as well as being responsible for all aspects of server and application management. Possesses a strong desire to improve technology and business processes using agile frameworks and has a firm belief that automation paves the way to success.

Work Experience

Simple, Brisbane

DevOps Technical Lead, September 2016 – Present

- Improved the CI/CD workflow by managing the implementation of feature flags, UI testing and consumer driven contracts.
- Reduced the AWS bill by \$20 000 USD per month.
- Moved the infrastructure away from single-server single-service infrastructure to container clusters running on Kubernetes.
- Developed deployment and monitoring custom tools, and integrations with existing tools to increase engineering productivity and application alerting.
- Migrated infrastructure logging to SumoLogic due to CloudWatch Logs limitations.
- Worked with other business units to promote a culture of collaboration.
- Responsible for mentoring, managing and performance reviews for DevOps team members.

Simple, Brisbane

DevOps Engineer, May 2016 – September 2016

- Re-architected and engineered existing applications to be immutable and scalable.
- Implemented a monitoring solution using Zabbix and custom code for both infrastructure and application APIs.
- Designed and implemented throwaway testing, staging and preproduction environments, allowing developers to spin up multiple environments based on the branch they are working on, thereby removing static environment bottlenecks.
- Implemented a deployment pipeline combining Jenkins, Ansible and CloudFormation for continuous automated deployments of applications and immutable infrastructure.
- Implemented Docker for all Linux application components to enable consistent environments across the entire SDC.
- Managed hundreds of servers, both auto-scaling and independent, including RHEL, Debian and Windows.
- Assisted developers to adopt AWS services, including using SDKs, writing proof-of-concepts, holding workshops, etc.
- Implemented service discovery using Consul.
- Managed a myriad of AWS services and performed cost optimizations, saving the business thousands per month.

Idea 11, Brisbane

Technical Consultant, November 2015 – April 2016

- Performed end-to-end migration of customer infrastructure to AWS.
- Managed MySQL, MS SQL and PostgreSQL database servers, including backups, managing clustering and redundancy.
- Developed custom solutions for customers in Java, PHP, Ruby and Python.
- Provided architectural advice to customer development teams and wider business.
- Automated infrastructure, development and business processes through scripts using Ansible, Chef, PHP, Bash, PowerShell and CloudFormation.
- Windows & Linux general system administration with a heavy focus on web applications including Apache, Nginx & PHP.
- Provided customers with best-practice and security audits.

- Implemented software development best practices including source control and CI/CD workflows via Jenkins, Bamboo and TeamCity.

Vroom Vroom Vroom, Brisbane

DevOps Engineer, June 2015 – November 2015

- Migrated Vroom's infrastructure from legacy servers spread throughout various datacentres into AWS.
- Setup highly available, fault tolerant infrastructure using AWS services including EC2, RDS and ElastiCache.
- Streamlined deployment processes and implemented continuous integration services.
- Implemented Zabbix as an open-source monitoring solution.
- Performed cost optimizations, reducing the infrastructure spending by 50%.
- Implemented an ELK stack, enabling both technical and business units to have a better understanding and visibility of how the sites and applications are performing.
- Managed web, SQL and application servers, including Apache, Nginx, IIS, MySQL, MS SQL and the ELK stack.

Ordys, Brisbane

Systems Administrator, March 2013 – June 2015

- Responsible for managing RHEL servers, including package management, automated deployment and service configuration.
- Implemented Puppet for Linux configuration management.
- Managed middleware application clusters including IBM WebSphere.
- Responsible for all aspects of server management including Exchange, Windows, SharePoint, SQL, SCOM & SCCM.
- Managed and maintained Citrix infrastructure with thousands of servers.
- Automated NOC processes removing all user interaction, saving NOC personnel several hours a day.
- Identified backup faults and improved processes and reporting, saving the business several hours per week and improving the reputation and confidence of I.T. to other business units.

Careers New Zealand, Wellington

Technical Consultant, September 2012 to November 2012

- Managed Apache and Nginx web servers.
- Managed and maintained backups through Veeam and ArcServe.
- Responsible for troubleshooting and resolving existing organization issues in SharePoint, Exchange and SCCM.

New Zealand Defence Force, Wellington

Senior Systems Engineer, June 2012 to August 2012

- Designed and implemented complex multi-site core network infrastructure for NZDF's Network Enabled Army project.
- Designed, installed and documented infrastructure for Microsoft SharePoint 2010, Lync 2010, Exchange 2010 as well as many third party applications.

New Zealand Defence Force, Wellington

Vulnerability Analyst, 2010 to 2012

- Established and reviewed IT security across applications, architecture and networks.
- Conducted security reviews of projects.
- Developed custom vulnerability assessment applications.

New Zealand Army, Palmerston North

Systems Engineer, 2004 to 2010

- Deployed to Afghanistan as the primary Systems Administrator, providing the NZ contingent with Satellite reach back to NZ and maintaining the camp's large network and server infrastructure.
- Built and implemented a complete server and network upgrade for the NZ contingent in Afghanistan, including migrating all servers from physical to virtual systems, upgrading from Windows Server 2003 to 2008, implementing new storage and backup solutions.

Certifications

- AWS Certified DevOps Engineer: Professional
- AWS Certified Solutions Architect: Professional
- AWS Certified Solutions Architect: Associate
- AWS Certified Sysops Administrator: Associate
- AWS Certified Developer: Associate
- Red Hat Certified Systems Administrator
- MCSE: Server Infrastructure
- MCITP: SQL Administrator
- MCITP: SharePoint Administrator
- Adult Education and Training
- First Line Management
- ITIL