

Phillip Albert Bailey

AWS Solutions Architect and Dev(Sec)Ops consultant.

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About

Hands-on, agile minded, enthusiast and passionate Cloud Computing technologist dedicated to drive and deliver robust and innovative solutions through codified, secure, scalable, reusable end to end cloud based solutions. Always eager to learn about new techniques and cutting edge technologies to support business goals with high efficiency and value for customers.

Areas of expertise

Architecting adhering to AWS Well Architected Framework Design Principles.
Cloud Infrastructure Hardening.
Secrets Management and Protection.
Defence in Deep and Security Assessments.
Monitoring and Proactive Detection.

Technologies

AWS Services, HashiCorp (Terraform - Vault - Packer), Docker, Kubernetes, Ansible, CloudCustodian, Python, GitHub, GitLab, Jenkins, DataDog, Unix, Linux, Continuous Integration/Delivery, Test Driven Development.

Professional Certifications



AWS Certified Solutions Architect - Associate

Note to Recruiters and Agencies.

I work as a consultant with focus and dedication on Cloud infrastructure automation and DevOps practices. I'm happy to hear from you about direct contract work in these fields, please do not contact me in regard of permanent positions.

Employment

10.2018 03.2019

InchCape, Plc. E-COMM DIGITAL PLATFORM – LONDON, UK
AWS Solutions Architect and Dev(Sec)Ops Engineer. CONTRACTOR

- Achieved consistent and repeatable AWS cloud infrastructure deployment through codified practices and automated pipelines (CodeBuild-CodePipeline).
- Directed the adoption of AWS Kubernetes (EKS) to improve applications and services speed and reliability from development to production release.
- Accelerated Kafka streams applications time to production via Docker images deployed into Kubernetes.
- Reduced secret sprawl introducing AWS secrets manager and Parameter Store.
- Introduced and implemented CloudTrail security events detective controls and realtime notifications.

- Attained and standardised AWS AMIs security hardening via Packer and CIS Benchmarks.
- Streamlined consistent and repeatable Cloudwatch metrics, alerts and dashboards via Terraform scripts.

11.2017 08.2018

HSBC - Digital Platform Operations - LONDON, UK
AWS Cloud Solutions Engineer and DevOps consultant. CONTRACTOR

- Accomplished highly secure, codified and resilient multi-account AWS infrastructure following the "AWS well architected framework" to comply financial regulatory requirements.
- Assembled Golden AWS AMI Vulnerability Assessment pipeline with the use of Amazon Inspector.
- Programmatically secured and hardened Github enterprise service to enhance identity and access control across teams and users along with enabling mandatory code reviews and approval for pull requests.
- Obtained AWS infrastructure compliance and real time remedy through extensive use of AWS Lambda Python functions and CloudWatch events.
- Devised secrets management and rotation via Credstash and Ansible.

03.2017 10.2017

ARTS ALLIANCE MEDIA - Cloud Platform Operations - LONDON, UK
AWS Cloud Solutions Engineer and DevOps consultant. CONTRACTOR

- Architected and implemented fully federated multi-account (+10) AWS Infrastructure with cross account IAM user management and mandatory MFA authentication.
- Organised and developed extensive Terraform modules catalog (VPC, VPN, Security Groups, Cloudtrail, EC2, ECS, ELB-ALB.) to boost code reuse and compliance.
- Standardised AWS ECS/ECR service build and deployments via Jenkins2 pipelines.
- Integrated AWS Cloutrail stream into Datadog monitoring and alerting system.

07.2015 13.2017

MARKS AND SPENCER DIGITAL - Ecommerce Platform Operations - LONDON, UK
AWS Cloud Solutions Specialist and DevOps Engineer. PERMANENT

- Fostered and mentored DevOps principles and capabilities across multidisciplinary scrum teams.
- Coordinated and produced secure AWS multi-account architecture to empower teams to safe develop, deploy and run their applications.
- Introduced and engineered Terraform and Ansible modules infrastructure catalog to allow teams to consume and cooperate on secure and standardised infrastructure code practices.
- Designed platform anomalies detection and alerting system with use of AWS Lambda and Slack.
- Achieved performance monitoring as code with the use of Terraform codified DataDog metrics, alerts and dashboards.
- Defined and implemented Documentation As Code via Markdown language and custom scripts.

12.2013 06.2015

COWALERT.COM - Dairy herds fertility and health monitoring platform. - EDINBURGH, UK
DevOps Engineer and AWS Cloud Solutions Specialist. PERMANENT

- Standardised underlying AWS cloud based infrastructure (VPC,SG,IAM Roles) adopting Puppet as infrastructure as code tool.
- Reached full lifecycle of +500 hosts implementing Puppet code orchestrated by Foreman.
- Designed and implemented Zabbix monitoring infrastructure to monitor +500 hosts.
- Refactored and upgraded legacy puppet code (+60 modules) from Puppet v2 to v3 with a modular approach and high standard code style.

10.2012 12.2013

BT RAPID RESPONSE UNIT (DISCLOSURE SCOTLAND) - NEWCASTLE, UK
LINUX SYSTEMS ENGINEER

- Build and hardened production Linux Red Hat Enterprise servers via Puppet.
- Streamlined Red Hat Enterprise servers patch management via Red Hat Satellite.
- Implemented Git version control to centralize change management of deployment scripts.
- Implemented Zabbix custom plugins.

05.2012 10.2012

NIELSEN.COM - SARAJEVO, BIH
LINUX SYSTEMS MANAGER

- Coordinated technical setup of new nielsen.com datacenter in Sarajevo (Bosnia and Herzegovina).
- Designed secure and redundant network with Cisco technologies.
- Implemented backup solution for mission critical databases.

06.2004 05.2012

NIELSEN.COM - ZAGREB, CROATIA
LINUX SYSTEMS MANAGER

- Oversaw high availability and mission critical systems and the IT infrastructure of Nielsen local datacenter.
- Designed Network Intrusion detection and prevention sensors system based on my custom made Linux distribution Smooth-Sec along with firewall/router BSD distribution PfSense.
- Built and launched custom made MDS (Media Delivery Server) to deliver video commercial breaks recordings to advertisers and other industry players.

2001 2014

MULTIMEDIA INSTITUTE - ZAGREB, CROATIA
LINUX SYSTEMS ADMINISTRATOR

- Overhauled institute servers setup and monitoring.
- Strengthened management and security operations of high volume mail and web serves.
- Centralised DNS management and domain configuration +400 domains.

1994 2000

ITALIAN NAVY
ELECTRONIC WARFARE OFFICER

- Air Defence Radar Operations supervisor on Destroyer Audace (D551).
- Electronic Warfare officer (SIGINT) on Destroyer Audace (D551).
- Deputy cipher officer (COMSEC).
- Embargo enforcement team and intelligence gathering during the former Yugoslavia conflict. Operation Maritime Guard (NATO) and Sharp Guard (NATO/WEO).

Education

1992 1994

ITALIAN NAVAL ACADEMY - (Livorno, Italy)
Electronic Warfare and Signal Intelligence Cadet.

1988 – 1992

NAVAL COLLEGE A Cappellini - (Livorno, Italy)
Merchant Navy Deck Officer Cadet