

Akira Allman

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Experience

Automation Logic | Version 1 (May 2022 - Present)

Associate DevOps Engineer at an International Cloud Consultancy and AWS Partner

- Produced a learning application for future cloud trainees through a black box testing solution via **Python** focused on **AWS**, **Infrastructure-as-Code**, **Containerisation** and **Continuous Integration/Deployment**. Future cohorts resultantly able to further hone their knowledge of IaC, programming and DevOps with the tests being implemented in later training programmes (featured on [GitHub/training-project](#)).
- Transitioned onto a government project as a Site Reliability Engineer. Manually investigated faults within EC2 Instances by observing service checks through **Linux**. Provided secure monitoring of EC2s through **ASG Health Checks** integrated with **ELB Mount Targets**. Developed trust and rapport with clients as a result of continually implementing frameworks for **reliability** and **resiliency**.
- Enriched automation through CI/CD via **GitLab**, enabling a scheduled clean-up of miscellaneous files in **Artifactory** minimising further work pressure on engineers and reducing time undertaken to remove miscellaneous files by **66%**.
- Implemented **Well Architected Framework**, liaising and advising clients to utilise **AWS** in-memory data stores over **RDS**. Implemented **Elasticache** to store data (**Java HashMaps**), significantly reducing storage and caching costs for data provisioning.
- Recalibrated **Ansible** playbooks, utilising modules to expand the process of querying for resources attached to EC2s (VPC, ALB, AMI), positively impacting Ansible-dependent repositories by contributing to the simplification of filtering for AWS resources.
- Spearheaded documentation of **DevOps** best practices and how to utilise client and AWS focused tools, service plus **Agile** and **Scrum** methodologies. Resulted in a **38%** reduction in the on-boarding process for new joiners, whilst proliferating knowledge of AWS, Terraform, Kubernetes, Docker and Ansible.
- Facilitated lectures on AWS Well Architected Framework, providing architectural designs for the use of Chaos Engineering through **Fault Injection Simulator**, **System Incident Manager**, **CloudWatch** and **Eventbridge**, greatly contributing to wider awareness of **cloud resiliency**.
- Designed a microservice architecture, provisioning a python script configured with API calls, securely processing requests via **service mesh proxies** configured in EC2s, routing encrypted data towards service applications (Artifactory). Seamlessly integrated with GitLab functions to provide a secure and automated process for CI/CD, prompting positive remarks from client-side and end-users.

AWS Projects

- Created a blog site dedicated to sharing personal projects, supplemented by theoretical knowledge of utilised AWS tools and services.
- Produced a **Site-to-Site VPN** connection between an **AWS VPC** and On-Prem using Transit and Customer Gateway configured with **IPSec** Tunnels utilising **BGP**. Provided high availability and dynamic routing capabilities via **Global Accelerator**.
- Built a multi-tier web application with scalability and resilience using **EFS**, **ALB** and **Mount Targets** integrated with **Auto Scaling Groups** (dynamic scaling policies, communication abstraction, DNS routing and health checks).
- Configured a personal static website through **S3** using a custom domain registered through **Route53** whilst being routed to **CloudFront** for performance enhancement. Utilised **DynamoDB** to store and increment viewer counts through functions provisioned via **Python (Lambda, boto3)**. Invoked **Lambda Function URL** to automatically invoke the function call (featured on [GitHub/resume-challenge](#)). Created various **IAM** Roles for development and production environments, establishing a strict hierarchy of access control via **AWS Organizations**.

Qualifications

Solutions Architect - Associate (Certified February 2023)

Education

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University of Exeter (September 2018 - June 2021)

B.A Politics & International Relations

- First Class Honours