

Akira Allman

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Skills

AWS: EC2 | ECR | EKS | VPC | IPsec | VPN | NAT | Site-to-Site | BGP | RDS | DMS | Lambda

Infrastructure-as-Code: Terraform | Ansible | CloudFormation

Software & DevOps: Python | Bash | Unit Testing | Agile | Scrum

CI/CD: GitLab | Jenkins | CodeCommit | CodePipeline | CodeBuild

Languages: English | Japanese | Arabic

Experience

Automation Logic | Version 1 (September 2022 - Present)

Associate DevOps Engineer

- Led the design and development of multiple infrastructural services for internal clients, utilising technology offerings such as **AWS**, **Terraform**, **Kubernetes**, **Docker** and **Ansible**.
- Advised clients during migration of legacy applications to utilise **AWS** in-memory data stores, implementing **Elasticache** to store data (**Java HashMap**), significantly reducing storage and caching costs for data provisioning.
- Facilitated lectures on **Cloud Resiliency** and **AWS Well Architected Framework**, providing architectural designs for the use of Chaos Engineering through **Fault Injection Simulator**, **System Incident Manager**, **CloudWatch** and **Eventbridge**.
- Monitored **EC2** Compute Instances by implementing **Auto Scaling Health Checks** integrated with **ELB Mount Targets**, whilst manually investigating faults through **Session Manager** and **Instance Connect**.
- Enriched automation through Continuous Integration/Deployment of pipelines via **GitLab**, enabling a scheduled clean-up of miscellaneous files in **Artifactory**.

QA Limited (January 2022 - March 2022)

Data Engineer Trainee

- Engaged in practical and theoretical implementations of **Azure** data cache and storage technologies such as **RDS**, **Data Lake and Warehouse**.
- Implemented a data platform solution through **Azure Stream Analytics**, **Databricks** and **CosmosDB**.

Projects

- 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** (SSL Certified) whilst being routed to **CloudFront** for performance enhancement and global caching purposes. Provisioned **CI/CD** for front-end and back-end applications via **GitHub** workflows.

Qualifications

Solutions Architect - Associate (Certified February 2023)

Education

University of Exeter (September 2018 - June 2021)

B.A Politics & International Relations

- First Class Honours