

LAHIRU SANDARUWAN

Senior DevOps Engineer | AWS | Azure | Kubernetes | Terraform | CI/CD

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Professional Summary

DevOps Engineer with 4+ years of hands-on experience designing, automating, deploying, and supporting production cloud infrastructure across AWS and Azure. Experienced in managing 50+ servers and production workloads using Amazon ECS, EC2, Auto Scaling, Terraform, Docker, CI/CD, Linux, and monitoring and observability platforms. Proven experience in highly available infrastructure, production incident response, cloud security, disaster recovery, and cost optimization, including approximately USD 1,710 in documented AWS savings. Experienced in supporting enterprise, FinTech, and government platforms and mentoring junior DevOps engineers and interns.

Professional Experience

DevOps Engineer, Treinetic Pvt Ltd

03/2022 – Present

- Managed and supported 50+ servers across AWS EC2, ECS-backed workloads, and virtualized infrastructure environments supporting production applications.
- Designed, implemented, and maintained CI/CD pipelines using AWS CodePipeline, AWS CodeBuild, Azure DevOps Pipelines, and GitHub Actions for automated application build, testing, and deployment.
- Managed Docker and Amazon ECS production workloads, including ECS deployments, EC2 launch-type workloads, Auto Scaling, load balancing, and deployment troubleshooting.
- Supported highly available and scalable architectures using Application Load Balancers, ECS, EC2 Auto Scaling, Amazon RDS, Amazon S3, Cloudflare, and MongoDB Atlas replica sets.
- Administered multiple AWS accounts including AWS GovCloud, managing IAM, networking, security configurations, infrastructure resources, and operational activities.
- Provisioned and managed AWS infrastructure using Terraform, including EC2 resources and remote backend configuration for repeatable, version-controlled infrastructure provisioning.
- Provisioned and managed Azure Virtual Machines and Azure App Services, using Azure DevOps Pipelines for automated build, testing, and deployment.
- Implemented monitoring, centralized logging, and automated alerting using CloudWatch, SNS, Lambda, Microsoft Teams, Prometheus, Grafana, Loki, Netdata, Uptime Kuma, and Container Insights.
- Investigated and resolved production incidents involving ECS deployment failures, circuit breakers, Java heap-space/memory issues, Docker disk-space issues, container failures, Laravel queues, WAF restrictions, scaling, and application/server issues.
- Implemented cloud security and traffic-control measures using AWS WAF, Cloudflare, IAM, rate limiting, SSL/TLS, firewalls, and IPsec VPNs.
- Mitigated SMS abuse through security and rate-limiting controls, preventing approximately USD 15,000 in potential Twilio charges.
- Reduced AWS infrastructure costs by approximately USD 1,710 through RDS optimization and removal of unnecessary CloudHSM resources.
- Integrated SonarQube and Trivy into CI/CD workflows for code-quality analysis and container security scanning.
- Automated application and mobile build, testing, signing, and deployment workflows across Java Spring Boot, Laravel, Node.js, React, Angular, ASP.NET, and mobile applications.
- Containerized and deployed applications using Docker, Amazon ECS, Kubernetes/MicroK8s, Azure App Service, and Linux virtual machines; used Kubernetes/MicroK8s for development and testing environments with deployments, services, ingress, persistent volumes, secrets, namespaces, and monitoring.
- Administered Ubuntu/Linux servers across production, staging, and development environments, including Nginx, Apache, Tomcat, SSL/TLS, reverse proxies, DNS, system services, logging, troubleshooting, and Bash automation.
- Managed supporting infrastructure including Mailcow email services and BigBlueButton, covering deployment, SSL, DNS, monitoring, performance optimization, and troubleshooting.
- Managed MongoDB Atlas, MySQL, PostgreSQL, Amazon RDS, and DynamoDB, including monitoring, backup validation, disaster recovery planning, and performance optimization.
- Managed production releases, infrastructure upgrades, server migrations, backup/recovery activities, disaster recovery environments, Cloudflare CDN/DNS, SSL/TLS, WAF, firewall rules, and routine production maintenance.
- Supported ISO/IEC 27001 ISMS activities through infrastructure security controls, technical documentation, audit preparation, and compliance support; also supported on-premises infrastructure and operational troubleshooting.
- Prepared deployment guides, operational procedures, and troubleshooting documentation; collaborated with engineering, QA, mobile, product, and project teams, and mentored 3 junior interns/team members in DevOps, Linux, AWS, CI/CD, deployments, and troubleshooting.

Technical Skills

Cloud & Infrastructure

AWS, Azure, AWS GovCloud, EC2, ECS, VPC, ALB, EC2 Auto Scaling, RDS, S3, SQS, Lambda, CloudWatch, CloudFront, Route 53, WAF, ACM, CloudTrail, SES, CloudHSM

Linux & Automation

Ubuntu Linux, Bash, Shell Scripting, Linux Administration, Cloud-init, Service Management, Log Analysis, Production Troubleshooting

Web & Application Servers

Nginx, Apache, Tomcat, HestiaCP, CyberPanel

CI/CD & DevOps

AWS CodePipeline, AWS CodeBuild, Azure DevOps Pipelines, GitHub Actions, Git, Docker Hub, SonarQube, Trivy

Monitoring & Observability

Prometheus, Grafana, Loki, Netdata, Uptime Kuma, AWS CloudWatch, Container Insights

Containers & Orchestration

Docker, Kubernetes, MicroK8s, Helm, Amazon ECS

Networking & Security

Cloudflare, AWS WAF, SSL/TLS, IPsec VPN, DNS, Firewall Configuration, Load Balancing, Domain Management

Infrastructure as Code

Terraform, Terraform Remote Backend, AWS Infrastructure Provisioning

Databases & Messaging

Amazon RDS, PostgreSQL, MySQL, MongoDB Atlas, DynamoDB, AWS SQS, RabbitMQ, CloudAMQP

Production Experience

DigitalMOFA [🔗](#), Government Visa & Document Platform

- Architected and managed secure production cloud infrastructure supporting government visa processing and document legalization services.
- Implemented CI/CD automation, infrastructure security hardening, monitoring, and production operations.
- Supported scalable and reliable cloud deployment with focus on security, data protection, and service availability.

DigitalINVEA [🔗](#), National Passport Renewal Platform

- Designed and maintained highly available cloud infrastructure supporting a national passport renewal service.
- Focused on scalability, performance optimization, production reliability, and automated deployment workflows.

Unite [🔗](#), FinTech & Digital Banking Platform

- Architected and automated AWS infrastructure for a FinTech and digital banking platform supporting international banking services.
- Implemented CI/CD-driven deployment workflows with focus on secure and scalable infrastructure.

Weleta [🔗](#), Document Management & Digital Signing Platform

- Designed and deployed scalable AWS infrastructure for a document management and digital signing platform.
- Implemented CI/CD automation and containerized deployment practices for high-volume document workflows.

TeleSign Document Platform [🔗](#)

- Built and maintained secure cloud infrastructure for a high-volume document signing platform.
- Supported high-concurrency workloads, secure digital-signature workflows, data integrity, and automated deployment pipelines.

CBEDOCS [🔗](#), Document Management Platform

- Supported cloud infrastructure, CI/CD automation, automated deployments, and production environment maintenance.

CEA [🔗](#), Production Web Application

- Managed deployment workflows, CI/CD automation, monitoring, troubleshooting, and performance optimization.

Chamturf [🔗](#), Cloud Application Platform

- Deployed and maintained cloud-hosted application infrastructure with automated CI/CD pipelines.
- Implemented monitoring and supported availability through proactive troubleshooting.

CoreWatch [🔗](#), Cloud Monitoring & Observability Platform

- Supported cloud monitoring and observability infrastructure, CI/CD deployments, and infrastructure automation.
- Managed secure networking, DNS configuration, and application security hardening.

Tebeka [🔗](#)

Getin [🔗](#)

Muallemi [🔗](#)

Education

Bachelor of Information and Communication Technology (Honours), University of Kelaniya [🔗](#)

2017 – 2021

Certifications

• Kubernetes and Cloud-Native Associate (KCNA) — KodeKloud [🔗](#)

• Amazon Elastic Container Service (AWS ECS) — KodeKloud [🔗](#)

• Jenkins — KodeKloud [🔗](#)