Aarathy S

DevOps Engineer

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Professional Summary

DevOps Engineer with 3.9 years of experience in cloud infrastructure, CI/CD automation, Kubernetes orchestration, security remediation, and observability in large enterprise environments. I handle P1/P2 production incidents, deliver releases and patches, migrate workloads to new EKS platforms, and automate repetitive operations, including with AI-assisted tooling. Hands-on with AWS, Azure, Docker, Kubernetes, Helm, Jenkins, GitHub, Dynatrace, and Linux.

Key Achievements

- Automated the build, scan and deploy pipeline (Maven, SonarQube, Nexus), cutting a half-day deployment activity to 1–1.5 hours.
- Reduced hands-on effort for recurring release and patch work by about 80% (2–3 hours to 30 minutes) with an AI-assisted workflow that keeps human approval at critical steps.
- Sustained 99.9% uptime for critical services through proactive Dynatrace alerting and standardized dashboards, fixing issues before users were affected.
- Resolved P1/P2 production incidents and tickets, including service outages, failed deployments, and urgent security fixes, with RCA and preventive follow-up.
- Led the migration of multiple environments, including production, to a new EKS platform, and found and fixed the platform gaps that surfaced during the move.
- Fixed critical security exposures across production workloads and servers: upgraded base images for container vulnerabilities and removed compromised certificate authority roots from Java trust stores.

Technical Skills

Cloud: AWS (EKS, IAM, Secrets Manager, VPC endpoints, EFS), Azure

Containers & Orchestration: Docker, Kubernetes, Helm, External Secrets, cert-manager, ingress controllers

CI/CD & Artifacts: Jenkins (declarative pipelines), GitHub, Maven, SonarQube, Nexus, Artifactory

Security: Vulnerability remediation (base image upgrades, rebuild and redeploy), certificate trust-store inspection and remediation, secrets management

Monitoring & Observability: Dynatrace (dashboards, threshold alerting, DQL, problem analysis)

Operating Systems: Linux (RHEL), Windows

Practices & Tools: Incident management (P1/P2), RCA, release and change management, Jira, ServiceNow, Confluence

Automation: AI-assisted workflow automation

Certifications

- Microsoft Certified: Azure Administrator (AZ-104)
- AWS Certified Solutions Architect – Associate
- Red Hat Certified System Administrator (RHCSA)

Experience

Allianz Technology – Junior DevOps Engineer | Feb 2023 – Present

- First responder for P1/P2 production incidents, owned end to end in Jira and ServiceNow: triage, fix or rollback, stakeholder updates, and RCA with Dev, QA, and Infrastructure teams.
- Designed and automated Jenkins CI/CD pipelines (Maven build, SonarQube code scan, Nexus artifact publishing, and deployment), cutting a half-day deployment activity to 1 hour.
- Owned recurring production patch and release cycles: branches and backups, PR-based merges, build and deploy jobs, and version reporting. Built an AI-assisted workflow with human approval gates for these cycles.
- Migrated workloads to new AWS EKS clusters (configuration repositories, database access, secrets, certificates, production deployments) and contributed to cluster provisioning.
- Fixed platform gaps found during the migration (private endpoints, registry credentials, storage drivers, IAM roles) and handed them to the platform team so they weren't lost on upgrade.
- Fixed critical (CVSS 9+) container vulnerabilities in production: audited the workloads, moved unsupported base images to maintained ones, then rebuilt and redeployed the services.
- Fixed a compromised certificate authority exposure on Java runtimes: logged into the affected servers, checked the trust-store certificates, and deleted the compromised roots.
- Ran Kubernetes deployments, scaling, and upgrades for containerized applications, plus production releases, configuration changes, and AWS secrets.
- Sustained 99.9% uptime for critical services by building proactive Dynatrace threshold alerts (memory and CPU above 90%) and standardized dashboards, so degradations were caught and fixed before users were affected.
- Managed Maven artifacts in Nexus and Artifactory, and troubleshot Jenkins failures to improve pipeline stability.
- Wrote High-Level and Low-Level Design documents and POCs.

Projects	**Release & Patch Automation – Jenkins, Jira, GitHub** • Automated branching, backups, build and deploy orchestration, and Jira reporting for recurring releases. • Added approval gates for merges and deploys, and automatic handling of known failure patterns. **EKS Platform Migration – AWS, Kubernetes, Helm** • Moved several environments to new EKS clusters, covering networking, secrets, certificates, database connectivity, and cluster upgrades. • Validated each stage with post-deployment checks. **CI/CD Pipeline Optimization – Jenkins, Maven, SonarQube, Nexus** • Built declarative pipelines with GitHub-triggered builds, code scanning, and artifact publishing, improving scalability, consistency, and reliability. **Observability & Performance Tuning – Dynatrace** • Designed dashboards, threshold-based alerts, and diagnostic workflows so that issues such as memory spikes above 90% were caught and fixed before users were affected. **Workflow Automation – Jira + ServiceNow** • Automated incident tracking and reporting, improving consistency and reducing manual effort.
Leadership and Communication	• First responder for P1/P2 production incidents, ensuring timely service restoration • Supported change and release management in Agile teams • Coordinated RCA across Dev, QA, and Infrastructure; clear incident and RCA reporting • Stakeholder and client communication, including escalation handling
Education	B.Sc. Zoology – Kerala University