

Arun Kumar K N

AWS DevOps Engineer

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in arun-kumar-k-n-linkdin

📍 Bangalore

Professional Summary

AWS DevOps Engineer with 3 years of experience in automating CI/CD pipelines, managing AWS cloud infrastructure, and deploying containerized applications on Kubernetes.

Proficient in Jenkins, Docker, Kubernetes, Git, AWS services, and monitoring tools, ensuring scalable, secure, and cost-efficient deployments.

Professional Experience

System Engineer, Tata Consultancy Services

05/2022 – 07/2025 | Bangalore

- Designed and maintained **end-to-end CI/CD pipelines in Jenkins** for Java & Node.js applications integrating build, testing, SonarQube quality checks, and Docker image creation.
- Automated **Kubernetes deployments with zero downtime**, ensuring smooth application rollouts.
- Implemented **Prometheus & Grafana dashboards** to track CPU, memory, and pod health, reducing MTTR by 30%.
- Managed AWS services including **EC2, VPC (public/private subnets, NAT/IGW), S3 with versioning & cross-region replication, RDS (MySQL/Postgres), Route 53, and Auto Scaling groups**.
- Optimized **Docker images using multi-stage builds**, reducing image size by 35%.
- Configured **Nginx reverse proxy with SSL termination** for secure web applications.
- Enforced security best practices: **IAM roles & policies, Kubernetes Secrets, and vulnerability scanning with Trivy**.
- Troubleshooted **Kubernetes pod failures, Jenkins pipeline errors, and AWS networking issues**, ensuring high system availability.
- Collaborated with development teams to improve **Git branching strategies and code reviews**.
- Automated **routine cloud operations with Shell scripting**, reducing manual effort and costs.

Projects

CI/CD Pipeline Automation

- Built a **Jenkins pipeline** integrating GitHub, Maven, SonarQube, Trivy, Docker, and Kubernetes (EKS).
- Automated build, test, code scan, vulnerability scan, Docker image push, and Kubernetes deployment, reducing manual effort by 70%.
- Improved **release frequency and reliability**, enabling faster feedback cycles for developers and reducing deployment errors.

3-Tier Web Application on AWS

- Deployed **frontend on S3 + CloudFront**, backend on EC2 with ALB + Auto Scaling, and database on RDS with backup/restore.
- Achieved **high availability and fault tolerance** with a multi-AZ setup.
- Implemented **cost optimization strategies** such as S3 lifecycle policies and RDS automated backups, reducing infrastructure expenses by 20%.

Technical Skills

Cloud Platforms: AWS (EC2, S3, RDS, VPC, IAM, CloudWatch, Route 53, ALB/ELB)

Devops Tools: kubernetes, Docker, Jenkins, Terraform, Git, GitHub, GitHub Actions, Ansible

Programming and Scripting: Bash, Shell Scripting, YAML, Python

Methodologies: Agile/Scrum, DevOps Best Practices

Operating Systems: Linux (Ubuntu, Amazon Linux)

Soft Skills: Communication, Client interaction, Requirement gathering, Team Collaboration

Education

B.E, Telecommunication Engineering,
Sri Sidhartha Institute of Technology

08/2016 – 07/2021