

Yousaf K H

DevOps Engineer | Platform Engineer | SRE | Cloud Engineer | DevSecOps Engineer

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CAREER SUMMARY

Experienced DevOps Engineer with 6+ years of expertise in cloud infrastructure, automation, and security. Proficient in AWS, Terraform, Kubernetes, and CI/CD pipelines. Proven track record in optimizing cloud costs, streamlining deployment processes, and ensuring robust security practices. Skilled in managing various tools and technologies, including monitoring, database, and scripting.

SKILLS AND STRENGTHS

- **Cloud:** AWS, Basics of GCP and Azure.
 - **Infrastructure as Code:** Terraform, Basics of CloudFormation and Ansible.
 - **CI/CD:** GitHub Actions, AWS Code pipeline, Jenkins.
 - **Containerization:** Kubernetes, Docker.
 - **Scripting:** Basics of Python, Bash Scripting.
 - **Monitoring Tools:** Grafana, Prometheus, New Relic, Zabbix, Nagios, CloudWatch, CloudTrail.
 - **Database:** RDS (Postgres, MySQL, MariaDB), DynamoDB, Redis.
 - **Operating Systems:** Linux (CentOS, RedHat, Ubuntu), Basics of Windows.
 - **Security Tools:** Checkov (Terraform), Trivy, Snyk, Gype and SonarQube.
 - **Version Control:** Git (GitHub, AWS Code Commit, BitBucket).
 - **Web Server:** Nginx, Apache.
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WORK EXPERIENCE

DevOps Engineer

Alamy Inc, Trivandrum, India,

(11/2023) - Present

- Enhanced AWS services to optimize infrastructure efficiency by 20% through strategic implementation of EC2, S3, RDS, IAM, and other services, driving scalable solutions and ensuring seamless resource management with the introduction of AWS tagging methods.
- Established AWS IAM user management using Terraform, ensuring secure access controls and adherence to best practices. Monitored IAM activities closely, with 90% of IAM modifications managed through version-controlled GitHub repositories, enhancing transparency, auditability, and governance.
- Managed Azure Active Directory (AAD) app registrations, configuring access controls and authentication mechanisms for application security.
- Optimized application deployments on AWS EKS, bolstering scalability and performance within Kubernetes ecosystems. applied CI/CD deployment workflows for EKS-based projects.
- Spearheaded Terraform implementation for Infrastructure as Code (IaC), resulting in a 15% reduction in provisioning time and enabling repeatable cloud infrastructure deployment.
- Deployed Snyk, Trivy, Gype, SonarQube and Checkov for automated security checks, enhancing code quality and infrastructure security by 90%.
- Spearheaded the implementation of Grafana and Loki, providing real-time insights that led to a 30% reduction in server response time and a 20% increase in website uptime.

Senior Platform Engineer

Quantiphi Inc, Trivandrum, India,

(08/2021) - (11/2023)

- Effectively handled project cost management on GCP, utilizing billing and budgeting tools to optimize cloud expenditure.
- Executed Blue-Green deployment strategies, reducing downtime by 100% and ensuring seamless rollbacks in case of issues.
- Orchestrated CI/CD pipelines using Code Pipeline, GitHub Actions, and Jenkins, optimizing continuous integration and deployment processes. Achieved a 25% reduction in deployment time.
- Facilitated collaboration between DevOps and development teams by spearheading sprint planning and retrospectives in Jira using Agile methodologies, resulting in a 20% enhancement in project delivery timelines and a 15% elevation in team morale.

System Engineer (Cloud Support)

Armia Systems, Ernakulam, India,

(05/2020) - (08/2021)

- Led and mentored a team of 5 cloud support specialists, ensuring efficient resolution of technical issues and effective collaboration on projects.
- Introduced robust cost monitoring strategies within client AWS accounts, leveraging native AWS tools and custom scripts to optimize spending and achieve up to 15% annual budget savings.
- Showcased expertise in managing Linux and Windows Server environments, executing troubleshooting, and implementing robust security measures.
- Utilized Ansible to conduct weekly security and patch checks across 100+ servers, ensuring compliance and safeguarding against vulnerabilities without compromising system integrity.

System Engineer (TechOps)

Activelobby Information Systems, Ernakulam, India,

(10/2018) - (03/2020)

- Leveraged Docker to containerize applications, achieving a 20% improvement in deployment consistency and scalability across environments.
- Provided hands-on support to developers in setting up cost-effective AWS infrastructure, resulting in a 20% improvement in product quality.
- Developed comprehensive documentation and blog posts to streamline the onboarding process, resulting in a 50% reduction in ramp-up time for new team members.
- Implemented Nagios and Zabbix monitoring solutions to oversee 150+ physical and cloud servers, effectively reducing downtime by 98% and mitigating spamming/phishing incidents through monitoring and alerting.

SOFT SKILLS

- Critical Thinker.
- Troubleshooter.
- Leadership.
- Communication.

CERTIFICATIONS

AWS Certified Solutions Architect Associate (AWS)

Certified Kubernetes Administrator (The Linux Foundation)

Terraform Associate Certification (KodeKloud)

Fundamentals of Ethical Hacking (Offense Hackers Academy)

EDUCATION

MSc Computer Science, (2021 - 2023), Bharathiar University, India

BTech Computer Science (2014 - 2018), North East Frontier Technical University, India