

SENIOR CLOUD/DEVOPS ENGINEER – TEAM LEAD

(AWS, AZURE, DEVOPS WORKFLOW)

Ashwani Kumar V

Mobile: (+91) 7989 121 975

avardhineni7@gmail.com

avk-sd.medium.com

linkedin.com/in/avk-sd

github.com/SimplifiedDevOps

Professional Summary

- **10.5 Years** of Experience in IT, this includes **4+ Years as Module Lead/Lead Engineer**.
- **Over 6 Years** of Experience as **DevOps Engineer, Senior Cloud/DevOps Engineer**.
- Proficient in **AWS and Azure** cloud computing platforms.
- Experience with **Linux system administration** tasks such as user management, disk management, software installation, and package management.
- Proficient in scripting languages such as **Bash and Python**.
- Expertise in infrastructure-as-code (IAC) tool **Terraform** and Configuration Management tool **Ansible**.
- Proficient in using **Git commands**, including branching, merging, and resolving merge conflicts. Additionally, experienced in using **GitHub/Bitbucket** to manage repositories and collaborate with team members on code reviews, pull requests, and issue tracking.
- Experience with containerization technologies such as **Docker and Kubernetes**.
- Skilled in designing, building, and maintaining efficient and automated CI/CD pipelines using tools like **Jenkins and GitHub Actions**.
- Adept in leveraging **SonarQube** for static code analysis to ensure code quality and security by identifying and addressing issues such as bugs and vulnerabilities.
- Proficient in configuring and managing **Prometheus & Grafana** to collect and analyze metrics from various data sources and generate alerts based on defined thresholds.
- Skilled in creating and customizing dashboards, visualizations, and alerts in **EFK Stack** to monitor and troubleshoot application and infrastructure performance and issues.
- **Strong troubleshooting and problem-solving skills**.
- Integrated **DevSecOps tools and services** to enable automated application building, testing, securing and deployment.
- Proficient in utilizing **Azure DevOps** for managing code repositories, building and releasing applications, and tracking project progress, resulting in faster delivery times and improved collaboration within teams.
- Experienced in creating and maintaining **Jira projects, boards, and workflows** to track project progress, identify bottlenecks, and optimize team performance to **facilitate Agile and Scrum Methodologies**.

Education

- Master of Science (MSc.) in IT, 2011 from University of East London, London.
- PG Diploma (Computer Systems & Networking), 2009 from University of Greenwich.
- B. Tech (ECE), 2006 from T.R.R College of Engineering, Hyderabad, Affiliated to Jawaharlal Nehru Technological University.
- Board of Intermediate (M.P.C), 2002 from J.V.S Jr. College, Vishakhapatnam.
- Xth CBSE, 2000 from Kendriya Vidyalaya No.1, Nausenabaugh, Vishakhapatnam.

Projects

- Automated **Golden AMI** through Packer & Ansible.
- Utilized **Terraform to design and deploy** a fully automated **EKS cluster infrastructure** on AWS, leveraging best practices for security, scalability, and reliability.
- Implemented **end-to-end CI/CD Pipelines** for Java & Node.js applications.
- Automated **installation of DevOps tools** through Ansible.
- Automated **Day-2 DevOps tasks** through Python Scripting.
- Implemented **Dynamically Increment of Application version** in Jenkins Pipeline.
- Integrated **Security Practices** into the CI/CD pipeline to proactively identify and mitigate potential vulnerabilities.
- **Implemented GitHub Actions** as a replacement for Jenkins in a project, resulting in improved scalability and more efficient CI/CD pipelines through its cloud-based infrastructure and parallel task execution capabilities.

Professional Accomplishments

- AWS Certified Solutions Architect – Associate
- Received **PAT ON BACK award** for completing In-Place upgrade of AWS Aurora MySQL DB successfully before EOL using Terraform & minimum downtime.

Work Experience

Infostretch Corporation (India) Pvt. Ltd. (Apexon), Hyderabad, Sep'22 – May'23

Position: Cloud/DevOps Lead Engineer

Job Profile: Infrastructure & Deployment Automation, and Kubernetes Admin.

- Leading the **migration** of continuous integration and deployment processes from **Jenkins to GitHub Actions**, resulting in increased efficiency, streamlined workflows, minimum maintenance and less cost.
- Experience in **migrating on-premise databases** to Amazon Aurora using **AWS Database Migration Service (DMS) or AWS Schema Conversion Tool (SCT)**.
- Successfully executed a **cost-effective In-Place upgrade of Aurora MySQL** from version 5.6 to 8.0 using Terraform scripts, ensuring minimal downtime while meeting the End-of-Life requirements.
- Understanding of **Aurora architecture and performance tuning**, including optimizing query execution plans, managing database cache, and configuring read replicas.
- Ability to use AWS **monitoring and alerting tools**, such as AWS CloudWatch and Amazon RDS Enhanced Monitoring, to monitor database health and performance.
- Knowledge of SQL and ability to write and **optimize SQL queries for databases**.
- Familiarity with **database backup and restore procedures**, including using AWS Backup, snapshot management, and point-in-time recovery.
- Experience with **integrating Terraform scripts with CI/CD pipelines**, to automate Infrastructure creation and testing application workflow.
- Familiar with **Aurora database security** and compliance, including encryption management, authentication/authorization, and auditing/logging.
- Implemented **Kubernetes security best practices** to ensure secure containerization, including limiting access control, implementing network policies, pod security policies and using secure communication protocols such as TLS encryption.

Visionet Systems Pvt. Ltd. Bengaluru,

July'21 – July'22

Position: Senior Cloud/DevOps Engineer

Job Profile: Build and Release Management, Deployment Automation, and Kubernetes Administration.

- Experienced with container orchestration and the ability to **use Kubernetes** to manage complex containerized applications in a **scalable and fault-tolerant manner**.
- Proficiency with **container networking** and the ability to use Kubernetes to manage network resources, including **load balancers, ingress controllers**, and network policies.
- Understanding of **container security** and the ability to use Docker and Kubernetes to implement security best practices, including container isolation, resource limits, and network security.
- Ability to **troubleshoot Docker and Kubernetes issues**, including debugging application and container issues, analyzing logs and metrics, and diagnosing network and performance issues.
- Familiarity with **Azure DevOps**, including using Azure Pipelines for **continuous integration and continuous delivery (CI/CD)** and managing Azure Repos for source control and the ability to use **Terraform to deploy infrastructure** resources using Azure Pipelines or other DevOps tools.
- Experience with pipeline as code and the ability to create, modify, and **troubleshoot Jenkins pipeline scripts**.
- Experience in writing and managing **Ansible playbooks** to automate server and application deployment, configuration, and maintenance.
- Skilled in managing AWS Elastic Kubernetes Service (EKS) clusters, worker nodes, and integrating with other AWS services such as ECR, RDS, S3, and VPC.
- Proficient expertise with **Helm & Helmfile** to manage and release of **Helm Packages**.
- Experience with configuring **Prometheus & Grafana** to collect and store metrics from containers, hosts, and services.
- Experience in writing **Python scripts** to automate common AWS tasks and workflows.
- Assisted in the development and implementation of the **DevSecOps Strategy** to include the integration of security controls and processes to ensure that security is incorporated throughout SDLC.

TCS, Hyderabad,

Jan'18 – July'21

Position: Cloud/DevOps Engineer

Job Profile: AWS Administration, Infrastructure Automation & DevOps Engineer

Payroll: Ivytel Technologies Pvt. Ltd. Bengaluru,

- Proficiency in **AWS cloud administration**, including experience with **Amazon EC2, Amazon RDS, Amazon S3, Amazon VPC, AWS Lambda, API Gateway and services**.
- Understanding of **AWS security and compliance**, including knowledge of **IAM, KMS, AWS Config, and AWS Trusted Advisor**.
- Experience with **AWS networking**, including the ability to create and **manage VPCs, subnets, security groups, and other networking resources** on AWS.
- Familiarity with **AWS monitoring and logging** tools, including **CloudWatch** and **CloudTrail**, and the ability to use them to **monitor and troubleshoot AWS resources**.

- Skilled in **AWS cost optimization**, monitoring usage, identifying cost-saving opportunities, and optimizing resources for efficiency.
- Experience with the **AWS Terraform provider**, including the ability to use it to manage AWS resources and the ability to create custom **Terraform modules** for AWS.
- Experience with **DevOps tools**, including **Git, Jenkins, and Ansible**, and the ability to use them to automate infrastructure and application deployments on AWS.
- Created **Jenkins CICD** pipelines for continuous build & deployment and integrated **Jfrog and SonarCloud** plugins in Jenkins for Code quality check.
- Understanding of **DevOps practices** and the ability to use **Docker and Kubernetes** to build and deploy applications in a CI/CD pipeline.
- Configured **Docker as Jenkins agents** to provide a scalable and consistent build environment for CI/CD pipelines.
- Contributed to a **Kubernetes-based platform**, improving performance and reliability of a large-scale web app, and reducing manual deployment and scaling processes.
- **Continuous learning and professional development**, including staying up-to-date with the latest AWS features and DevOps Tools.

Mindtree LTD. Hyderabad,

Feb'15 – Dec'17

Position: Module Lead

Job Profile: Azure Cloud Administration & Infrastructure Automation

Client: Microsoft, Hyderabad

- Experience with **Azure Virtual Machines (VMs)**, including creating, configuring, and managing VMs, as well as **troubleshooting common VM issues**.
- Knowledge of **Azure Storage solutions**, such as Blob storage, File storage, and Queue storage, including the ability to manage and configure storage accounts.
- Proficient in Azure networking, including virtual networks, subnets, NSG, ASG, load balancers, and troubleshooting network connectivity.
- Experience with **Azure Active Directory (AD)**, including managing user accounts, groups, and permissions, as well as integrating with on-premises AD.
- Expertise in **monitoring and logging in Azure**, including setting up alerts, using **Azure Monitor**, and configuring log analytics.
- Understanding of **Azure security**, including securing Azure resources, managing access control, and implementing security best practices.
- Experience with **Azure Backup and Disaster Recovery**, including setting up backup policies, creating recovery plans, and testing failover.
- Experience with the **Azure Terraform provider**, including familiarity with its features and the ability to use it to manage Azure resources.

Aster Minds Enterprise Solutions Pvt. Ltd. Hyderabad

May'14 – Feb'15

Position: Messaging Server Consultant (Client: Microsoft BLR, C2H)

Job Profile: Exchange & O365 Migration

Zenith InfoTech Pvt. Ltd. Mumbai

July'12 – May'14

Position: Server Engineer (L3)

Job Profile: Exchange Server Administration