

# Ashwani Kumar V

Senior DevOps Engineer

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## SUMMARY

9+ years of experience in IT field which includes 6+ years in handling AWS Cloud environments, Build and Administer Micro-Services architecture through K8S & AWS EKS.

Proficiency in working in DevOps lifecycle management environment, creating build & release pipelines, Infrastructure Automation & Configuration Management in multiple environments.

Analytical, committed, persistent individual and reliable team member. Continuously learning and acquiring new knowledge and skills.

## KEY SKILLS

Linux System Administration  
Bash, Python Scripting  
AWS Cloud  
AWS Security, DevSecOps  
Terraform  
Ansible, Packer  
Git/Git Hub, Bitbucket, Code Commit  
Maven, JFrog, Sonarqube  
Nginx, Apache Tomcat  
Jenkins, CodeBuild  
Docker, CodeDeploy  
Kubernetes, AWS EKS  
Helm Charts, CodePipeline

## AWS Cloud Administration, Terraform & Ansible Automation, Kubernetes Admin with DevOps Lifecycle

### Professional Experience

Senior Cloud Engineer, Visionet Systems Pvt. Ltd. Bengaluru

Date: July 2021 – Till date

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

Cloud Engineer, TCS, Hyderabad

Payroll: Ivytel Technologies Pvt. Ltd. Bengaluru,

Date: January 2018 – July 2021

Job Profile: AWS Administration & DevOps Engineer

Module Lead, Mindtree LTD. Hyderabad,

Date: February 2015 – December 2017

Job Profile: AWS Administration & Infrastructure Automation

### Employment History

### Roles and Responsibilities

1. Collaborate with software product development, architecture, and IT teams to ensure releases are **delivered with repeatable and auditable** processes.
2. Responsible for **application Build & Release process** which includes Code Compilation, **Packaging, Security Scanning and code quality scanning**, Deployment Methodology and Application Configurations.
3. **Architect and design the setup and configuration of CI/CD pipelines** and support/resolve technical complexities to **integrate various DevOps practices** as part of CI/CD implementation.
4. Work closely **with product teams** to find the right **trade-off between business-specific** needs and state-of-the-art **CI/CD best practices**.
5. Build and maintain tools for **deployment, monitoring, and operations**.
6. Execute and automate operational processes quickly, accurately, and securely. **Provide solutions to increase visualization, reduce errors, and improve customer experience**.
7. **Support and troubleshoot scalability, high availability**, performance, monitoring, **backup, and restoration** of different environments.
8. Troubleshoot and **resolve issues in our development**, test, and production environments.
9. Evaluate **new tools, technologies, and processes** to improve the speed, efficiency, and **scalability of continuous integration** environments.
10. Used **Jira as a Change Management/ Work Management/ Scrum Agile Tool**. **Updating the application team** in order to track the status of the user stories or defects.

### Skills and Experience

1. Embedding **Security** at every step of **SDLC** with various **DevSecOps tools**.
2. Expertise in **deploying at scale** various **containerized web, data applications**, and services using technologies such as **Docker, Kubernetes, Elastic Kubernetes Service (EKS), Elastic Container Service (ECS)**, CloudWatch, and other **monitoring solutions**.
3. Strong experience in **40+ AWS services** such as EC2, ELB – ALB & NLB, ASG,

Prometheus & Grafana  
CloudWatch  
AWS Lambda, API Gateway  
JIRA

## CERTIFICATIONS

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AWS Certified Solutions  
Architect - Associate  
Hashicorp Certified - Terraform  
Associate

## EDUCATION

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[Education History](#)

IAM, CloudWatch, Relational Database Service (RDS), S3, etc.

4. Configured **AWS Security Services** such as IAM, KMS, ACM, WAF, Inspector, Trusted Advisor, Cloud Trail, Config, and Guard Duty to secure resources at multiple layers.

5. Used **Terraform to build** multiple environments such as Dev, Staging and Prod using AWS DevOps workflow.

6. Standardized the **Terraform modules** for all the resources in AWS Cloud. This helped in **reducing the code time** and re-usability of the modules.

7. Automated the **creation of Golden AMI** through **Packer** and used **Ansible** for **Application configuration**.

8. Used **Jenkins Pipelines** to drive all **Micro Services** builds out to the Docker/ECR registry and then **deployed to Kubernetes/ECS/EKS**, and managed the application with **various Kubernetes Objects** also **integrated with Jira and Slack to send** build state information.

9. **Optimize Jenkins container configurations** such as mount docker runtime inside **container as a volume**, fixing permissions on docker.sock, and **scripted Jenkins configurations** in to a Jenkinsfile to run **Single Pipeline** and **MultiBranch** Pipeline Jobs.

10. Experience in **administering Kubernetes** and a good understanding of manifest management with Helm along with expertise in Ingress Controller and Service mesh with **Istio for pod communication and encryption**.

11. Used **Terraform to automate** the EKS Cluster and integrated Terraform in **CI/CD Pipelines** to automate provisioning of Servers.

12. **Automated** tasks related to **System Health Checks, Monitoring** and Remote Administration, **Backup and Restore, Scheduled tasks, Clean-up, Data Visualizations, Send Notifications, CI/CD related** tasks through **Python Scripting**.

13. Expert in configuring & operating **ELK/EFK Stack; Elasticsearch** for deep search and data analytics, **fluentD** for centralized logging, log enrichment and parsing and **Kibana for powerful** and beautiful data visualizations.

14. Used **Jira as change Management** and **Scrum Agile** tool. Updating the application team in order to track the status of the **user stories or defects**.

15. Configured **Prometheus Server** and its **components such as** Grafana, Alertmanager, ServiceMonitor, Prometheus Rules to monitor all Cluster Nodes, K8S Components, Microservices Applications and Redis Data broker.

16. Successfully **upgraded the Kubernetes and Jenkins** by following the best practices and Effectively took the **back up of ETCD** database and performed timely **restore drills**.

17. Performed **Cost optimization with Kubecost** to avoid overspending on the resources.

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## Looking Forward To Learn

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1. Azure Cloud, Azure DevOps, GCP
2. CKA Certification
3. New DevOps and DevSecOps tools that emerge during my DevOps Engineer Journey.