

# 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, Boto3  
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  
Prometheus & Grafana  
CloudWatch  
AWS Lambda, API Gateway  
JIRA

## 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. Responsible for **fault-tolerance, high-availability, scalability** and **security** on AWS Infrastructure and platform.
2. Good understanding and implementation of **Microservices Concepts** and **Best Practices**.
3. Responsible for **Implementation of CI/CD Pipelines** with automated build and test systems.
4. Responsible for **Production Deployment** using **Multiple Deployment Strategies**.
5. **Automating the AWS Infrastructure** and Platform Deployment with Infrastructure as a Code.
6. Build and maintain tools for **deployment, monitoring** and operations.
7. Support and **troubleshoot scalability, high availability**, performance, **monitoring, backup and restoration** of different environments.
8. Able to carry out POCs to make sure that suggested design technologies meet the requirements.
9. Evaluate **new tools, technologies** and processes to improve the speed, efficiency and **scalability of CI/CD environments**.
10. Used **Jira as a Change Management**, Work Management, Scrum Agile tool. Updating the Application team to track the status of User Stories.

### 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** and service applications using **Docker, Kubernetes**, Elastic Kubernetes Service (**EKS**), Elastic Container Services (**ECS**), CloudWatch, and other monitoring solutions.
3. Strong experience in **40+ AWS Services** in Compute, Storage, Database, IAM, Monitoring, Security vectors.

## DevSecOps Tools

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Git Hooks & Talisman  
Mutation Tests - PIT  
SonarQube  
Trivy Image Scan  
OPA Conftest  
KubeSec  
DAST  
OWASAP ZAP  
CIS Benchmarking & Kube-Bench  
Istio  
Kiali  
Falco  
KubeScan  
HashiCorp Vault

## EDUCATION

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[Education History](#)

## CERTIFICATIONS

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AWS Certified Solutions Architect -  
Associate  
Hashicorp Certified - Terraform  
Associate

4. Configured **AWS Security Services** such as IAM, KMS, ACM, WAF, Inspector, Trusted Advisor, Cloud Trail 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. Extensively **used Ansible** to **install and configure** all the DevOps tools. Also **Dynamically configured the inventory file** to avoid manual input of IP address in the host file.
9. 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.
10. **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.
11. 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.
12. Used **Terraform to automate** the EKS Cluster and **integrated Terraform in CI/CD Pipelines** to automate provisioning of Servers.
13. **Automated tasks** such as System Checks, Adding Tags, Monitoring and Remote Administration, Backup and Restore, Scheduled tasks, Clean-up, Data Visualizations, Send Notifications, CI/CD related tasks **through Python Scripting**.
14. **Configured ELK/EFK ElasticStack** for deep search and data analytics, fluentD for centralized logging, log enrichment and parsing and Kibana for powerful and beautiful data visualizations.
15. Used **Jira as Change Management** and **Scrum Agile tool**. Updating the applications team in order to track the status of the user stories and defects.
16. **Configured Prometheus Server** and its components such as Grafana, Alert Manager, ServiceMonitor, Prometheus Rules to monitor all Cluster Nodes, K8S Components, Microservices Applications and Redis Data broker.
17. **Successfully upgraded** the Kubernetes and Jenkins by following the best practices and effectively took the **backup of ETCD** database and performed timely restore drills.
18. **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
2. GCP
3. CKA Certification
4. New DevOps and DevSecOps tools that emerge during my DevOps Engineer Journey.