

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

DevSecOps Tools

Git Hooks & Talisman

Mutation Tests - PIT

SonarQube

Trivy Image Scan

OPA Confest

KubeSec

DAST

OWASAP ZAP

CIS Benchmarking & Kube-Bench

Istio

Kiali

Falco

KubeScan

HashiCorp Vault

EDUCATION

[Education History](#)

CERTIFICATIONS

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, 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. 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 **administrating 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, Monitoring** and Remote Administration, **Backup and Restore, Scheduled tasks, Clean-up, Data Visualizations, Send Notifications, CI/CD related** tasks through **Python Scripting**.
14. Expert in configuring & operating **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/defects**.
16. 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.
17. 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**.
18. Performed **Cost optimization with Kubecost** to avoid overspending on the resources.

Looking Forward To Learn

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