**SENIOR CLOUD ENGINEER**

**AWS CLOUD ADMINISTRATION, AUTOMATION FROM**

**TERRAFORM & ANSIBLE, KUBERNETES ADMIN WITH DEVOPS LIFECYCLE**

**Ashwani Kumar V**

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Professional Summary

1. 9+ years of experience in IT field which includes 6+ years in AWS Cloud, DevOps, and Containerization.
2. Expertise in implementing full DevOps Lifecycle automation, including Configuration Management, Build Automation, Release Management, Deployment Automation and Infrastructure Management.
3. Analytical, committed, persistent individual and reliable team member. Continuously learning and acquiring new knowledge and skills. Performed well in different environments in onshore and distributed teams.

Skills Matrix

|  |  |  |
| --- | --- | --- |
| **SKILLS** | **PRODUCT/TOOLS** | **RATING /5\*** |
| Cloud Computing | AWS | \*\*\*\* |
| Infrastructure Automation | Terraform, CloudFormation | \*\*\*\* |
| Configuration Management | Ansible, Packer | \*\*\*\* |
| Operating System | Windows, Linux | \*\*\*\* |
| Automation/Scripting | Bash Script, Python | \*\*\*\* |
| SCM/VCS | Git,GitHub,GitLab, Bitbucket, Code Commit | \*\*\*\* |
| DevOps Tools | Maven, Sonarqube, Jfrog, Nexus | \*\*\*\* |
| CI/CD Pipelines | Jenkins, CodeBuild | \*\*\*\* |
| Container Orchestration | Docker, Kubernetes, ECS, EKS, Helm Charts, Code Deploy | \*\*\*\* |
| Monitoring | Prometheus & Grafana, Cloud Watch | \*\*\*\* |
| DevSecOps Tools | Trivy, OPA, KubeSec |  |
| Serverless Architecture | AWS Lambda, API Gateway | \*\*\* |
| Ticketing | Jira | \*\*\*\* |

Certifications

1. AWS Certified Solutions Architect - Associate
2. Hashicorp Certified - Terraform Associate

Education

**Master of Science (MSc.)** (Innovative Technology), 2011 from University of East London, London.

[Education History](https://github.com/SimplifiedDevOps/dashboard/blob/main/avk_resume/Education_History.txt)

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: Azure Migrations, AWS Administration & Infrastructure Automation**

**Module Lead, Mindtree LTD. Hyderabad, Client: Microsoft, Hyderabad**

**Date: February 2015 – December 2017**

**Job Profile: Azure Administration & Migrations**

**Messaging Server Engineer, Aster Minds Enterprise Solutions Pvt. Ltd. Hyderabad,**

**Client: Microsoft, Bangalore**

**Date: May 2014 – February 2015**

**Job Profile: Exchange & O365 Migration**

**Server Engineer (L3), Zenith InfoTech Pvt. Ltd. Mumbai,**

**Date: July 2012 – May 2014**

**Job Profile: Exchange Server Administration**

Role 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 **visualiza**tion, 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, 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 using ELK 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, Redis Data broker.
16. Successfully upgraded the Kubernetes and Jenkins by following the best practices.
17. 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, GCP
2. Azure DevOps
3. New DevOps and DevSecOps tools that emerge during my DevOps Engineer Journey.