Ashwani Kumar V

Senior Cloud Engineer

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SUMMARY

9.11 years of experience in IT field which includes 7+ years in handling AWS Cloud environments, Build and Administer Micro-Services architecture through Kubernetes and 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/UNIX Administration
Bash Scripting, Python Scripting
Windows Server Operating Systems
AWS Cloud, Boto3
AWS Security, DevSecOps
Terraform
Ansible, Packer
Git/Git Hub, Bitbucket,
Maven, JFrog, Sonarqube
Jenkins, CI/CD Integration
Docker,
Kubernetes, AWS EKS,
Helm Charts,
Prometheus & Grafana
CloudWatch,
JIRA

AWS Cloud Administration, Terraform, Ansible, Automation, Kubernetes Administrator 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, resilient** and **security** on AWS Infrastructure and platform.
2. Good understanding and implementation of **Microservices Concepts** and **Best Practices**.
3. Responsible for **Integration 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 - Terraform**.
6. Build and maintain tools for **deployment, operations** and **monitoring**.
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. Experience with the **Project Management roles** and terms such as **Backlog, Epic, Stories, Tasks and Sprints**.

Skills and Experience

1. 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.
2. Strong experience in **30+ AWS Cloud Native Services** in Compute, Storage, Database, IAM, Monitoring, Security vectors.

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

4. Used **Terraform to build** instances and other AWS services into multiple environments such as Dev, Staging and Prod using AWS DevOps workflow.

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

6. Automated the **creation of Golden AMI** through Packer and used **Ansible for Application Configuration.**

7. 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.

8. Used **Jenkins Pipelines** to integrate 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 **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.

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

12. **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**.

13. **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.

14. Used **Jira as Change Management** and **Scrum Agile tool**. Worked on Scrum Sprint Activities and able to deliver within the sprint duration.

15. **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.

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

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

Looking Forward To Learn

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