Piyush Jain

Cloud DevOps Engineer / DevSecOps Engineer

+1 660-528-2871 | piyushjain.15.19@gmail.com | linkedin.com/in/piyush1414/

SUMMARY

With over 5 years as **Cloud DevOps Engineer**, experience in **Cloud**, **Azure**, **Kubernetes**, **Security**, **Terraform**, **Jenkins**, **CI/CD**, **Ansible**, **Git**, **Prometheus**, **Grafana**, **ELK**, **Helm**, **PowerShell**, **SonarQube**, and **bash** complemented by **CKA**, **CKS**, **Azure Certification**.

TECHNICAL SKILLS

Cloud Platforms: AWS, Azure, Oracle Cloud Infrastructure (OCI)
Cloud Tools: IAM, Azure AD, S3, ELB, VPC, Security Group, VNet Pairing, EC2, Application Load balancer
Operating Systems: Ubuntu, Amazon Linux, Windows
Databases: Oracle Database 18c, SQL
DevOps Tools: Kubernetes, Docker, Jenkins, Azure Kubernetes Service (AKS), Amazon Elastic Kubernetes Service (EKS), Git, Bit bucket, Azure Pipelines, Terraform, Ansible, SonarQube, Helm, Jfrog, Azure Artifactory
Security Tools: Fortify, WhiteSource (Mend), Prisma, AppArmor, Open Policy Agent (OPA), CIS Benchmark, Falco, Trivy
Kubernetes Monitoring Tools: Kibana, Prometheus, Kubernetes Dashboard, EFK Stack, Grafana
Project Management Tools: Jira, Scrum, and Confluence

EXPERIENCE

Senior Azure DevOps Engineer — March 2023 – December 2023
Bechtel India — *Remote*

- Created **PowerShell** Scripts to automate **Fortify DAST-SAST scans** for vulnerability checks, seamlessly integrating them into deployment pipelines for streamlined migration.
- Engineered **Azure CI/CD** Pipelines to automate application deployment processes, resulting in a 40% reduction in deployment time and a 25% increase in deployment frequency.
- Transitioned Azure API deployments to **APIM using 100% Terraform automation**, replacing AZ commands.
- Enhanced **Terraform automation, achieving 90% generalization** for use across environments. Using **Git** and **azure repo** for code review and source code management tool.
- Automated infrastructure creation using PowerShell scripting, resulting in a significant reduction in implementation time by 40%. Implemented AKS Workload Identities enhancing security measures.
- Utilized Terraform automation to deploy Kubernetes Clusters on Azure (AKS) Cloud, **reducing deployment time by 30%** and error rates by 70%.
- Worked **ELK for logging and Grafana**, Prometheus monitoring tools for the error detection and alerting resulting 50% decrease in error detection time.

DevOps Engineer — February 2022 - March 2023
Mercedes-Benz — *India*

- Spearheaded **Kubernetes Security Management** in Production, QA, and operational cluster oversight. Introduced and **enforce Security Best Practices within the K8s Cluster**, integrating **30% novel security** measures.
- Played a key role in **migration of legacy Applications** and Postgres Databases to K8s Cluster utilizing **Jenkins** with the **Jfrog artifactory**.
- Implementing Source Code in **Git** for the application source code repository and **Bitbucket** for the automation and server maintenance scripts. Used **Jira** for the Project management and **Confluence** for the knowledge share and documentation.
- Managing the application security with the Prisma cloud and code coverage with the **SonarQube**. Applied **network policies** to enhance network-level security within the cluster.
- Developed **Kibana Dashboards** and facilitated the transition of various clusters to **Prometheus and Kibana**, streamlining visibility by **eliminating 40% of redundant notifications**.
- Orchestrated the implementation of **RBAC across all K8s Clusters**, adhering to a least access policy. Established **Audit Policies in Kubernetes Clusters** to facilitate comprehensive user analysis, leveraging Grafana dashboards.

- Managed **S3 Buckets** for backup and file storage purposes. Managed multiple legacy application servers with the help of the **ansible** for the server maintenance and upgrades reducing the manual maintenance process by 30%.
- Writing various **bash scripts** for automating the process in the Linux serves and Kubernetes clusters.
- As Kubernetes Admin migration of in-house microservice applications to **Elastic Kubernetes Clusters** using the terraform and **helm**.

Support DevOps Engineer   August 2018 - February 2022
K21 Technologies   *Remote*

- Implemented **ETCD Data Encryption** and In-transit encryption for enhanced security. Generated server certificates, client certificates, and other application-supported files, securely mounting them to application containers.
- Orchestrated **end-to-end CI/CD workflows** utilizing **Jenkins pipelines**, seamlessly integrating Docker, Ansible, and Kubernetes tools reduced deployment time by 25% .
- Deployed **high-availability applications** with **auto-scaling capabilities** using metric server integration.
- Enforced **95%CIS benchmark** standards on Kubernetes clusters to fortify their security posture.
- Proficient in creating Kubernetes objects such as **deployments, services, ingresses, and configmap**.
- **Ensured Docker image security** prior to deployment into Kubernetes clusters.

CERTIFICATIONS AND TRAINING

- Part of Mercedes Kubernetes Community "**Kubernetes Unicorn**" as K8s Security Specialist.

- Certified Kubernetes Administrator Certificate ID- LF-ik9zeevbm3

- Certified Kubernetes Security Specialist Certificate ID- LF-h4wu7rcc7c

- Microsoft Azure Administrator 2021 – AZ-104 Certificate ID- H770-9647

EDUCATION

Northwest Missouri State University   Missouri
Master of Science in Applied Computer Science   *2024 - 2025*