Sharad Vanth

DevOps Engineer
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PROFESSIONAL SUMMARY:

Dynamic **DevOps Engineer** with 4+ years of hands-on experience in the IT industry, specializing in harnessing the power of cloud platforms like **Microsoft Azure** and **AWS**. I excel in automating infrastructure with **Terraform** and **Ansible**, deploying scalable microservices using **Docker** and **Kubernetes** (AKS), and ensuring seamless CI/CD pipelines through tools like **Azure DevOps**, **Jenkins**, **Maven**, and YAML. My expertise extends to managing critical cloud services (**Azure VM**, Entra ID, Virtual Networks, AWS **EKS**, **EC2**, RDS) and optimizing performance with proactive **monitoring** using **Prometheus, Grafana,** and Azure Monitor. I'm skilled in securing code with **SonarQube** and vulnerability scanners, and I bring a strong background in scripting with **Python**, C#, **Bash**, and **Shell**. Whether it's managing databases like **MySQL**, PostgreSQL, or **MongoDB**, or driving collaboration through **Git/GitHub**, I'm committed to delivering reliable, efficient, and secure solutions that drive business success.

TECHNICAL SKILLS

Cloud Environment	AWS, Azure, Hetzner
Build tools	MAVEN, ANT, Gradle
CI/CD Tools	Jenkins, Azure DevOps, GitHub Actions, Gitlab
Artifacts Management	Nexus, Artifactory and Jfrog
Databases	MySQL, MongoDB, Cassandra, SQL, SQL Server, No SQL.
Scripting/Programing Languages	Shell, Python, C, YAML, Groovy
Version Control	Git, GitHub
Operating System	Linux, RHEL/ CentOS 5.x/6.x/7, Windows
Networking	TCP/IP, NFS, DNS, DHCP, SMTP, FTP, SSH, load balancer
Infrastructure as a code	Terraform, ARM, CloudFormation, Ansible
Monitoring	Azure Monitor, Prometheus, Grafana, Node exporter, Blackbox exporter, Splunk, Cloud watch
Containerization & Orchestration Tools	Docker, EKS, ECS, AKS, Kubernetes, Helm
SAST & Code Analysis tools	SonarQube, Owasp DP, Trivy

WORK EXPERIENCE

Company: Maxil Technology **May 2024 – Till Date**
Role: DevOps Engineer **Chicago, Illinois**

- Reengineered the CI/CD Jenkins pipeline for Maxjobs Product, achieving an 80% reduction in feature rollout time from development to market, and boosting efficiency in Kubernetes cluster in 23%.
- Enhanced application deployment and scalability by 50% using Docker for containerization and Kubernetes for orchestration. Improved monitoring by 40% with Prometheus and Grafana and streamlined team collaboration by 30% with Git and GitHub for version control.

Company: Fifth Third **Sep 2023 – April 2024**
Role: DevOps Engineer **Cincinnati, Ohio**

- Implemented Azure Services such as Entra ID (AAD), Azure VM, Azure Virtual Networks, Azure Resource Manager, SQL Database, Azure Service Principal, Azure Blob Storage, Azure Container Registry, Azure Kubernetes Service.
- Developed automation scripting using Ansible-playbooks to deploy and manage Java applications across Linux servers. Using Ansible deployed web applications to K8's. Involved in writing the ansible playbooks for installing the docker across multiple nodes.
- Developed CICD pipelines using Jenkins to automate the SDLC processes and integrated with the SonarQube, OWASP-DP for SAST to enhance DevSecOps practices.
- I automated routine tasks using shell scripting, resulting in a 30% reduction in manual effort and a notable increase in operational efficiency.

Company: Cognizant **Jan 2021 – July 2022**
Role: DevOps Engineer **Hyderabad, India**

- Leveraged AWS cloud services including EKS, EC2, RDS, S3, IAM and VPC, to guarantee the availability, security, and peak performance of AWS cloud-hosted applications.
- Implemented Terraform to automate AWS infrastructure deployment, defining resources like EC2 instances

and VPC as code, reducing provisioning time by 50% and minimizing deployment errors by 75% ensuring consistent configuration and enabling rapid scalability.
- Transitioned from manual Docker deployments to automated Kubernetes deployments using Helm charts, reducing operational errors and improving scalability. Achieved 40% faster releases cycles and enhanced reliability in handling peak traffic.
- Deployed a Jenkins-based CI/CD pipeline integrating with tools (Maven) for secure Kubernetes deployments. Monitored system metrics using Prometheus and Grafana in Jenkins, reducing time by 40% and enhancing security and system stability, resulting in a 30% decrease in incident response time.
- Leveraged Splunk for monitoring and analyzing performance across 50+ virtual machines, creating custom dashboards and alerts that improved incident response time by 30% and enhanced overall system visibility.
- Identified and resolved the lack of real-time monitoring and alerting by implementing Prometheus and Grafana. Set up alerts for CPU usage exceeding 80% and application downtime over 5min, with notifications sent to the team via Slack/Email, improving response times and system stability.
- Implemented blue-green deployment strategies, ensuring zero downtime during application updates.

Company: Sunshine Techno Systems **Aug 2019 – Aug 2020**
Role: Software Engineer **Hyderabad, India**

- Gained valuable experience by initiating an e-commerce project, transitioning to a microservices architecture, and achieving a notable improvement in scalability and performance by 40%.
- Containerized microservices and deployed to Kubernetes clusters, troubleshooting the build & deployment issues.

EDUCATION

University of Cincinnati, Master of Science, Information Technology | Cincinnati, OH
Aug 2023
Relevant Courses (Principles of Cybersecurity, Cloud Computing, Data-driven Insights, System Administration.)

PROJECTS

- **Deployment of Boardgame Multitier Web Application** [GitHub]
  - Automated CI/CD workflows with Jenkins, integrating Maven and JDK for Java projects, using Terraform for infrastructure setup, and Ansible for Docker/Kubernetes configuration. Improved code quality and security with SonarQube and OWASP Dependency-Check, reducing vulnerabilities by 30%.
  - Deployed artifacts to JFrog, built/scanned Docker images with Trivy, and managed deployments on Kubernetes. Monitored applications using Prometheus, Grafana, and Blackbox Exporter, improving artifact deployment efficiency by 25% and accelerating feature deployment cycle by 50%
- **Online Boutique 11-Microservices E-commerce Application** [GitHub]
  - Designed and implemented a robust CI/CD pipeline using Jenkins for a multi-branch microservices web application, reducing deployment times by 40% and ensuring 95% successful deployments. Leveraged Docker to optimize containerized images, reducing image size by 30%, and pushing them to Docker Hub.
  - Orchestrated deployments onto AKS, improving scalability and resource utilization by 50%. Automated infrastructure provisioning with Terraform, reducing deployment errors by 60%, and integrated GitHub webhooks, cutting release cycle times by 35%.

CERTIFICATIONS

- Microsoft Azure Fundamentals
- Microsoft Azure Administrator Associate
- AWS Cloud Quest
- Achieved certification in Python Data-Structures, Retrieving, Processing on Coursera
- Achieved certifications in DevOps, CI/CD, Jenkins through LinkedinLearnings
- Completed Certifications in Git, Linux, Docker, Kubernetes, DevOps, Terraform, Ansible on KodeKloud