Vipul Bhagwat

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Professional Summary (DevOps Engineer)

Experienced DevOps Engineer with 4 years of experience with expertise in automating, optimizing, and managing cloud infrastructure, CI/CD pipelines, and containerized environments. Skilled in Kubernetes, Docker, Terraform, and cloud platforms (Oracle Cloud). Proficient in scripting (Bash, Python) and monitoring tools (Prometheus, Grafana). Strong experience in CI/CD (Jenkins) and configuration management (Ansible, Helm).

Experience

Qualys
DevOps Engineer   June 2024 – Current

- Automated Kubernetes upgrades using Ansible playbooks.
- Implemented Ceph CSI for dynamic provisioning of persistent volumes.
- Automated infrastructure provisioning with Terraform for consistent deployments.
- Optimized OKE worker node autoscaling, reducing costs by 40% while improving performance.
- Addressed Kubernetes security vulnerabilities and enforced security using RBAC and admission controllers.
- Provisioned and integrated GPUs into Kubernetes for AI/ML workloads.
- Streamlined OKE setup automation for efficient cluster management.
- Managed HashiCorp Vault for secure secret storage and integrated it with Kubernetes secrets.
- Managed hybrid infrastructure across on-premise and OCI environments.
- Migrated from Docker to CRI-O for improved Kubernetes container runtime efficiency.
- Improved software delivery efficiency through collaboration with development teams.
- Integrated Prometheus and Grafana for real-time monitoring, alerting, and visualizing system health and performance metrics.
- Developed ad-hoc Jenkins pipelines for devops components maintenance and binary upgrades.

Qualys
SRE DevOps Engineer   Aug 2021 – May 2024

- Led Kubernetes cluster management, including scaling, upgrades, and troubleshooting, ensuring high availability.
- Implemented monitoring and alerting with Prometheus, Alertmanager, and Grafana for real-time insights.
- Contributed to distroless image setup and configured them for Kubernetes compatibility for app teams
- Optimized Kubernetes resources to improve efficiency and reduce costs.
- Performed system upgrades, patching, and security audits on Linux-based systems.
- Collaborated with teams to troubleshoot and resolve DevOps-related issues.
- Assisted in containerizing Java Spring Boot applications and deploying them on Kubernetes.
- Migrated DevOps components from on-premises to Oracle Cloud Infrastructure (OCI).
- Administered Vault, Consul, and Nexus for secure secrets management, service discovery, and artifact storage.
- Worked on securing infrastructure for Fedramp Audits.

Qualys
DevOps Intern   March 2021 – Aug 2021

- Developed a Python-based web app to monitor DevOps components in dev and QA environments.
- Automated certificate renewal using Ansible playbooks and a Jenkins pipeline.

Technical Skills

- Containerization & Orchestration: Kubernetes, Docker, Helm
- Cloud Platforms: Oracle Cloud, AWS, Vsphere(On Premise)
- Infrastructure as Code (IaC): Terraform, Ansible

- CI/CD Tools: Jenkins
- Secrets Management: Hashicorp Vault
- Artifact Repositories: Nexus
- Programming Languages : Python, Go, Shell Scripting
- Operating Systems: Linux (RedHat, CentOS, OEL, Ubuntu)
- Observability: Prometheus, Grafana, Alertmanager
- Networking: Nginx, DNS, Load Balancers
- Version Control Tools: Git (Bitbucket and Github)
- IDEs : IntelliJ, Visual Studio Code
- Atlassian Tools: JIRA, Confluence
- Scaled Agile Methodologies
- Quick Learner, with strong communication, collaboration, active listening, and problem-solving skills

Education
Pimpri Chinchwad College of Engineering, Pune
B.E, Computer Engineering. 71.8%   Graduation Date: June 2021

Certifications/Courses
- Certified Kubernetes Administrator (CKA) (Scored 100%) here
- HashiCorp Certified: Terraform Associate Cert Prep by KodeKloud
- Learning HashiCorp Vault (Linkedin)

Projects
- K8sCapacity – Kubernetes Cluster Capacity Checker
  Developed a command-line tool, **k8scapacity**, using Golang to analyze Kubernetes cluster capacity.