KALPITKUMAR PAREKH

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TECHNICAL SKILLS

- **Containerization & Orchestration:** Docker, Kubernetes, Helm, Cilium
- **Infrastructure as Code & Automation:** Terraform, Ansible, Pulumi, Packer
- **Monitoring & Logging:** Prometheus, Grafana, Logstash, Elasticsearch, SNMP, ELK Stack
- **Cloud Platforms:** AWS (EKS, EC2, IAM, CloudWatch), GCP (GKE, IAM), Azure
- **Languages & Scripting:** Python, Go, Bash, PowerShell
- **Networking & Security:** Cilium, VPN, RBAC, IAM, TLS, Secrets Management, Firewalls
- **Virtualization:** VMware vSphere, Hyper-V
- **CI/CD & Tools:** GitLab CI/CD, GitHub Actions, Jenkins, Artifactory
- **Other Tools:** NGINX, Apache, Jira, Confluence, Agile/Scrum

PROFESSIONAL EXPERIENCE

DevOps Engineer - Muskoka Algonquin Healthcare | Apr 2024 – Present

- Configured and maintained 3 highly available Kubernetes clusters across AWS and on-premise environments, supporting 15+ critical applications and reducing infrastructure management overhead by 25%.
- Deployed and managed Cilium-based network policies across 30+ production namespaces, isolating critical workloads and reducing potential blast radius of security incidents by an estimated 60%.
- Built observability pipelines using Prometheus, Grafana, and SNMP for 500+ monitored endpoints; reduced alert fatigue by 30%.
- Implemented HashiCorp Vault for centralized secrets management and enforced Role-Based Access Control (RBAC) policies, reducing audit findings related to credential exposure by 40%.
- Enhanced GitLab CI/CD pipelines by implementing automated container image vulnerability scans via Git hooks, decreasing critical vulnerabilities by 40% and improving overall code security posture.
- Collaborated on root cause analysis (RCA) and implemented fault-tolerant service mesh components, improving uptime to 99.95%.

Cloud Engineer - Nutan Ayurvedic Research Centre | Jun 2021 – Sep 2022

- Automated Kubernetes Helm deployments for microservices; condensed release times by 40%.
- Introduced a new system for regularly scanning Docker images for Common Vulnerabilities and Exposures (CVEs), and directly fixed 9 CVEs per week as the most junior member on the Cloud team.
- Developed comprehensive logging solution integrating Kubernetes with Elasticsearch and Logstash, facilitating rapid root cause analysis of application errors, and concentrated the average incident resolution time by 30%.
- Defined and enforced granular IAM roles on AWS EKS, limiting access to sensitive resources and preventing unauthorized modifications by implementing a zero-trust security model.
- Orchestrated patching and configuration across 200+ virtual machines in VMware environments using Ansible, decreasing security vulnerabilities by 40% and ensuring compliance with industry best practices.

System Administrator Intern (Linux & Python Automation) - Trouble Shooting Pvt Ltd | May 2018 – Aug 2019

- Wrote Python and Bash scripts to automate firewall rule validation, system provisioning, and log rotation.
- Established standardized security protocols for Linux servers through SSH hardening, reducing unauthorized access attempts by 60% and ensuring compliance with NIST cybersecurity framework guidelines.
- Built dashboards with Grafana for server metrics, integrating SNMP and shell scripts for data collection.

PROJECTS

Multi-Cluster Observability Platform | Jan 2024 – Apr 2024

- Designed a federated monitoring architecture using Prometheus Federation, Alert Manager, and Grafana for a multi-region Kubernetes setup.

Cilium Network Segmentation & Helm CI/CD Automation | Oct 2023 – Dec 2023

- Deployed a Cilium-managed service mesh with RBAC-driven security policies; improved audit and compliance metrics by 40%.

EDUCATION

- Graduate Certificate – Cloud Development and Operations | Algonquin College, Sep 2023 – Apr 2024
- Graduate Certificate – Cyber Security Analysis | Algonquin College, Jan 2023 – Aug 2023
- Bachelor of Technology – Information Technology | Parul University, Jun 2017 – May 2021

CERTIFICATIONS

- CKA – Certified Kubernetes Administrator (Planned – 2025)
- AWS Certified Cloud Practitioner – In Progress