Amrut Mahapatra

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Education

Bachelor of Technology (B.Tech), Computer Science
Siksha 'O' Anusandhan University (ITER) 2016 – 2020

Work History

C3M Cloud Control (Acquired by CyberArk) Bangalore, India
DevOps Engineer August 2021 - August 2022

- **Infrastructure as Code:** Designed and managed cloud infrastructure using CloudFormation (AWS/EKS) and Terraform (GCP/GKE), with Python-based automation to streamline provisioning of Kubernetes environments supporting 20 microservices across multi-cloud platforms.
- **Kubernetes Platform:** Managed and maintained **4 production and 3 development Kubernetes clusters** hosting 20 microservices (Node, Java, Python), improving deployment consistency through Helm-based workflows.
- **Release Engineering:** Automated application release and upgrade workflows using custom scripting, reducing manual intervention and improving deployment consistency for client environments.
- **Platform Modernization:** Led migration of stateful systems (MongoDB, PostgreSQL, Kafka, Zookeeper) from VM-based infrastructure to Kubernetes, improving scalability and operational flexibility.
- **CI/CD Systems:** Managed and maintained highly available Jenkins CI/CD infrastructure supporting continuous delivery across multiple services and environments.

CyberArk (now part of Palo Alto Networks) Bangalore, India
DevOps Engineer August 2022 - Present

- **Deployment Automation:** Owned and optimized Jenkins CI/CD pipelines for 15 microservices (Python, Node) supporting deployments across **11 regions on AWS**, improving deployment consistency and release reliability.
- **Pipeline Engineering:** Developed and maintained complex Groovy-based Jenkins pipelines to support multi-service & multi-region deployment workflows and custom CI/CD features tailored to application requirements.
- **Cloud Infrastructure:** Supported high-availability AWS infrastructure by building and maintaining automation that integrates application requirements with cloud service configurations, reducing manual intervention in deployments.

Skills

- **Cloud & IaC:** AWS (CDK, CloudFormation), GCP, Azure, Terraform, Ansible, Packer
- **Containers & Orchestration:** Kubernetes (EKS, GKE), OpenShift, OpenStack, Docker, Helm, KubeVirt, KVM, Rook (Ceph)
- **Networking & Security:** Calico (eBPF), Cilium, BGP, OVN/OVS, HashiCorp Vault, cert-manager
- **CI/CD & Observability:** Jenkins, Flux, Prometheus, Grafana, Alertmanager, ELK, OpenSearch

Open Source Contributions

- **Calico (PR 8085):** Enabled custom cgroupv2 path, fixing eBPF init issues on Talos [link]
- **Kube-ai (PR 216):** Added OpenShift support for secure pod/container configs [link]
- **Rook (PR 15019):** Resolved SCC violations for toolbox pods [link]
- **OpenSearch Operator (PR 1061):** Fixed insecure SSL verification config [link]
- **clabernetes:** Bug fixes, security improvements, OpenShift support [link]