Amrut Mahapatra

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About

Motivated, hard-working and passionate DevOps Engineer who loves to experiment with new technologies & tools.

Education

ITER, Siksha 'O' Anusandhan University	Bhubaneswar, Odisha
B.Tech, Computer Science and Information Technology	August 2016 - June 2020

Work History

C3M Cloud Control	Bangalore, India
DevOps Engineer	August 2021 - August 2022

- Maintained Cloudformation templates and related Python code for deploying Kubernetes and our microservices on AWS (EKS)
- Maintained Terraform and Python code for deploying Kubernetes and our microservices on GCP (GKE)
- Maintained Helm charts for our microservices
- Maintained scripts for customers for upgrading our application
- Maintained Jenkins installation for CI/CD
- Experimented with migrating databases (MongoDB, PostgreSQL) and applications (Kafka, Zookeeper) to Kubernetes which were previously on traditional VMs

CyberArk	Bangalore, India
DevOps Engineer	August 2022 - Present

- Maintained CI/CD scripts for Jenkins related to application deployment on AWS
- Maintained scripts in Groovy for Jenkins related to custom features required by our application code

Skills

- **Containers:** Docker, Kubernetes, OpenShift, Helm, Packer, Kaniko, Buildah
- **Kubernetes CNIs:** Calico, Calico eBPF, Cilium
- **Kubernetes Addons:** Rook (Ceph), cert-manager
- **Automation:** Shell, Bash, Python
- **Configuration Management:** Ansible, Packer
- **Cloud Platforms:** AWS, GCP, Azure
- **Databases:** MongoDB, PostgreSQL, Redis, Dragonfly
- **Infrastructure As Code:** Terraform, AWS Cloudformation, AWS CDK
- **Programming Languages:** Go, C
- **CI/CD and GitOps:** Jenkins, Flux
- **Monitoring:** Prometheus, Alertmanager, Grafana, Kibana
- **Source Code Management:** GitLab, Github, Artifactory, Sonatype Nexus, Harbor
- **Virtualization:** KubeVirt, KVM
- **Networking:** BGP, iptables, Open vSwitch (OVS), Open Virtual Network (OVN)
- **Misc:** Kafka, Zookeeper, HashiCorp Vault

Open Source Contributions

- **Calico:** https://github.com/projectcalico/calico/pull/8085

  Allowed specifying a custom cgroupv2 path instead of the default hardcoded value. Fixes an issue on Talos where Calico eBPF refuses to initialize because it is not able to mount the cgroupv2 filesystem.

- **Kube-ai:** https://github.com/substratusai/kubeai/pull/216

  Added support for OpenShift in the Kube-ai operator to handle pod security context, container security context and appropriate securityContextConstraints.

- **Rook:** https://github.com/rook/rook/pull/15019

  Prevent SCC violations on OpenShift for the rook toolbox pod.