Surendrakumar Deshpande

Platform DevOps Engineer

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Profile

Highly skilled Platform DevOps Engineer with 9 years of experience in building, optimizing, and managing scalable DevOps platforms to support modern software development lifecycles. Specializes in designing platform architectures, automating CI/CD pipelines, and managing cloud-native infrastructure. Proficient in Kubernetes, Docker, AWS, and leading DevOps platforms like Jenkins, GitLab CI/CD, and Azure DevOps. Proven track record of developing robust DevOps platforms that streamline development pipelines, enhance developer productivity, and ensure scalable and resilient operations. Adept at collaborating with cross-functional teams to drive platform innovation and maintain high uptime and performance. Designing API Gateways with authentication other security measures to expose API's securely.

Areas of Expertise

Cloud Computing - Platform Engineering - Amazon Web Services(AWS) - Kubernetes - Helm - Apache APISIX - Docker - Jenkins CI - Terraform - Azure DevOps - GitOps Flux - PCI-DSS Compliance - SOC 2 Compliance - Python - Git - Packer - ElasticSearch Logstash Kibana (ELK) - Splunk - Core Java

Professional Experience

Staff DevOps Engineer, *(Blackhawk Network, India)*   **Remote, India** *03/2023 - present*

- Built and maintained a self-service developer platform, enabling teams to deploy and manage applications autonomously
- Implemented and maintained APISIX as an API gateway to manage traffic and improving request handling and security.
- Integrated APISIX with Kubernetes, enabling dynamic upstream registration
- APISIX plugins for authentication and rate-limiting, optimizing API traffic management.
- Configured monitoring with Splunk and CloudWatch to reduce downtime by 30%.
- Reduced cost by 40% by using AWS spot instances in lower environments wherever applicable
- Developed Helm charts and Kubernetes manifests for containerized application deployments.
- Built and automated the creation of custom Amazon Machine Images (AMI) using Packer, ensuring secure, lightweight, and standardized server images for deployment.
- Ensured compliance with organizational security standards by embedding pretested security baselines into custom AMI
- Reduced ALB costs by 20% using AWS ALB ingress controller for managing traffic efficiently.
- Collaborated with security teams to regularly audit and update infrastructure to maintain compliance with regulatory standards.
- Implemented Infrastructure as Code (IaC) for all the services using AWS Cloud-formation.

Senior DevOps Engineer, *(Blackhawk Network, India)*   **Remote, India** *09/2021 - 02/2023*

- Enhanced bot protection efficiency by integrating data-dome agent, reducing bot attack attempts
- Improved cyber attack protection by integrating signal science agent and cloud WAF, reducing incidents.
- Designed and implemented scalable, highly available systems on AWS Cloud.
- Added new AWS service catalog products for application teams to self-service the infrastructure
- Automated infrastructure provisioning with Terraform reducing provisioning time by 40%.
- Built CI/CD pipelines with Jenkins to streamline deployment processes.
- Managed gateways using Apache Web Server with certificate based authentication.
- Helped teams to adopt AWS Service Catalog products for provisioning infrastructure.
- Achieved 80% migration of traditional applications to containerized deployments using Docker and Kubernetes.
- Increased operational efficiency through Containerizing applications to build container images.
- Helped application team troubleshoot issues during deployments and in production environment.

Technical Architect - DevOps, *(In Time Tec)* **Bangalore, India** *07/2015 - 09/2021*

- Migrated traditional applications to containerized deployments using Docker and Kubernetes.
- Utilized GitOps practices (Flux, Kustomize) for managing declarative configurations.
- Implemented IaC practices using AWS Cloud-formation and Terraform.
- Bought down infrastructure provisioning time by 60% through automation.
- Automated CI/CD for micro-services using Jenkins and shared libraries, improving deployment consistency.
- Centralized build and deployment for projects using Jenkins Global Shared libraries, enhancing efficiency.
- Enhanced team productivity by developing Python and Bash scripts for task automation.
- Provided onboarding support to developers on DevOps platform and standardized resource usage.
- Configured ELK Stack for log analysis improving incident response time.
- Trained freshers on DevOps tools and practices, enhancing team skill set and productivity.

Certifications

- Certified Kubernetes Administrator (April. 2022) - [The Linux Foundation](#)
- AWS Certified Solutions Architect - Associate (June. 2022) - [AWS](#)
- AWS Certified Cloud Practitioner (March 2021) - [AWS](#)

Education

B.E Information Science Engineering *Visvesvaraya Technological University* **Belgaum, India** *2011-2014*
Diploma in Information Science *Department of Technical Education* **Bangalore, India** *2008-2011*

Skills

- **Cloud Platforms:** Amazon Web Services AWS
- **CI/CD:** Jenkins CI, Github Actions, Azure DevOps
- **Containerization and Orchestration:** Docker, Kubernetes, Helm
- **Infrastructure as Code (IaC):** Terraform, CloudFormation
- **Scripting:** Python, Groovy, Bash
- **Monitoring and Observability:** EFK, ELK, Splunk, New Relic
- **Version Control and Collaboration:** GitHub, Bitbucket, GitLab, Atlassian Confluence
- **Security and Compliance:** Signal Science, Datadome, Sonarqube, Twistlock, Snyk
- **Soft Skills:** Presentation, Planning, Organized, Creative Problem-Solving, Teamwork, Active Listening, Adaptability, Analytical Thinking

Languages

- **English**
- **Kannada** [Native]
- **Hindi**
- **Marathi**