Harshwardhan Mehrotra

Devops Engineer

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SUMMARY

DevOps Engineer with 2 years of experience in automation, cloud infrastructure, and CI/CD pipelines.Automated deployments with Terraform and Helm, cutting provisioning time by 30%. Streamlined workflows for 150 applications with standardized Dockerfiles, reducing image size by 40%. Modernized cloud infrastructure, increasing scalability by 35%, and enhanced DevOps practices to reduce downtime by 50%, ensuring efficient and reliable operations.

SKILLS

Ansible, ArgoCD, API, AWS, Bash, Django, GitOps, Google Cloud, Jenkins, Linux, Windows Server, Python, REST, Spring Boot, Spring Framework, SQL, SSH, Terraform, Helm, Kubernetes, Docker, Docker Swarm, Networking, On-Prem, Automation, Infrastructure as Code, Cloud Infrastructure, CI/CD Pipelines, Grafana, Prometheus

EXPERIENCE

Cloud Administrator

Pune

ZS Associates

01/2023 - Present

ZS is a management consulting and technology firm that partners with companies to improve life and how we live it

- **Developed and implemented** automation and infrastructure solutions across Windows, AWS, and containerized environments, driving operational efficiency and scalability:
- **Designed and implemented a scalable deployment** strategy for Alterigo consisting of 15+ microservices, a GenAI product hosted on a multi-tenant EKS cluster, using ArgoCD and Helm. Optimized infrastructure to reduce costs by 75% per tenant while maintaining high availability and performance. Enhanced CI/CD pipelines, improving deployment efficiency and reliability.
- **Created a recovery script** that restored 90% of Windows servers within 24 hours during the CrowdStrike BSOD incident, outperforming industry standards 27 days).
- **Optimized enterprise processes**, including automating quarterly EC2 instance cleanup and workspace image preparation, reducing setup time from 2.5 hours to 15 minutes and cutting resource costs by 25%.
- **Designed and standardized Dockerfiles** for Python, Node.js, and .NET applications, reducing image size by 40% and minimizing the attack surface for over 150 internal applications.
- **Automated access management** for ArgoCD and transitioned all AD groups to a standardized naming convention, improving governance and team productivity by 20%.
- **Resolved critical migration challenges**, including token accessibility and MFA certificate expiration, during the China 20162019 migration project, ensuring uninterrupted operations.
- **Improved team productivity** by developing 15 custom scripts, including a multi-threaded token generator, enabling parallel AWS account targeting and reducing manual workload by 30%.
- **Modernized infrastructure**, completing Elastic Beanstalk environment upgrades and automating EC2 modernization, increasing system scalability by 35%.
- **Assisted 150 app teams** in selecting deployment solutions, enhancing DevOps practices, and guiding app optimization for seamless deployment processes.

DevOps Intern

Remote

Peace Haven

02/2022 - 12/2022

Technology company specialising in cloud solutions.

- **Designed and automated infrastructure deployments** for clients like Trident and Palmolive using Terraform and Ansible, reducing provisioning time by 30% and improving resource efficiency.
- **Optimized CI/CD pipelines** with Jenkins for multiple client applications, decreasing deployment times by 25% and minimizing downtime during releases.
- **Resolved client-reported issues** related to DevOps solutions, achieving a 95% resolution rate and enhancing system reliability for critical projects.
- **Implemented cloud solutions on AWS**, leveraging Bash scripting to automate routine tasks, cutting operational costs by 20% and improving workflow efficiency.
- **Collaborated with cross-functional teams** to align DevOps strategies with client requirements, ensuring successful project delivery and increasing client satisfaction scores by 15%.

KEY ACHIEVEMENTS

Enhanced Deployment Efficiency

Reduced deployment time by 20% through automation.

Containerization & DevOps Optimization

Standardized Dockerfiles for Python, Node.js application reducing image size by 40%, minimizing the attack surface.

KEY ACHIEVEMENTS

Critical Incident Recovery

Developed a recovery script that restored 90% of Windows servers within 24 hours, exceeding the industry recovery time of 2–7 days during the CrowdStrike BSOD incident.

Infrastructure Enhancements

Enhanced infrastructure by optimizing deployment workflows and reducing downtime for an app with 8+ microservices, while automating ArgoCD access management to boost governance and team productivity by 20%.

EDUCATION

B.Tech.- Computer Science & Engineering

MIT ADT - School of Engineering

Pune, India
08/2019 - 05/2023

PROJECTS

Secure Server Manager

08/2021 - 01/2022

A project focused on server management and security.
- Developed a system to securely store server details including authentication keys and IP addresses.

Competitive Coding Calendar

01/2021 - 07/2021

Web application to consolidate competitive coding information.
- Designed a platform to help competitive coders track competitions effectively.

PASSIONS

Personal Interests

Interests include playing badminton, swimming, and trekking.

Home Lab

Maintaining a homelab running 10+ services, serving as a platform to automate tasks and explore new tools and methodologies, providing hands-on experience with innovative technologies.