Sudarshan Powar

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SUMMARY

DevOps Engineer with 2 years of experience designing and automating cloud-native infrastructure on AWS, with a focus on system availability, scalability, and efficiency. Delivered infrastructure for projects with 10+ services using Terraform, EKS, and Jenkins. Improved CI/CD performance by 30-60% and implemented cost optimization strategies across EC2, EKS, and ALB. Experienced with monitoring, containerization, IaC, and serverless components to support high-availability production systems.

EDUCATION

Master of Science in Computer Science **Long Beach, CA**
CALIFORNIA STATE UNIVERSITY LONG BEACH ***Jan 2023 - Dec 2024***

SKILLS

- **Cloud Platforms:** Amazon Web Services (AWS), Microsoft Azure
- **Containerization & Orchestration:** Docker, Kubernetes, Helm
- **Infrastructure as Code (IaC) Management:** Terraform, CloudFormation
- **CI/CD & Automation:** Jenkins CI/CD
- **Monitoring & Observability:** Prometheus, Grafana, ELK(Elastic) Stack, CloudWatch
- **Security & Compliance:** AWS IAM, WAF
- **Scripting & Programming:** Bash, Python, JSON, YAML
- **Serverless Computing:** AWS Lambda, Serverless Framework
- **Operating Systems & Networking:** Linux, Windows Server, TCP/IP, DNS, VPN, SSH

WORK EXPERIENCE

DevOps Engineer (Koptotech) ***Aug 2022 – Dec 2022***

- Streamlined Jenkins CI/CD pipelines in a QA environment, improving build efficiency by 60% through Docker image optimization and parallelized stages.
- Provisioned and launched containerized applications to Amazon EKS with Fargate profiles in a sandbox setup, simulating auto-scaling and reducing resource overhead by 30%.
- Applied cloud security practices aligned with the AWS Well-Architected Framework, enhancing IAM enforcement, encrypted storage, and HTTPS configurations by 60% in dev environments.
- Developed serverless functions using AWS Lambda & API Gateway, gaining hands-on experience with event-driven architecture and cloud-native integration workflows.
- Built and applied reusable Terraform modules to provision scalable AWS infrastructure components, including VPC, EKS, RDS, S3, ECS, ECR, Route 53, and IAM for an e-commerce deployment.

DevOps Engineer (Coditas) ***Feb 2021 – Aug 2022***

- Provisioned secure, multi-AZ AWS infrastructure using Terraform, with VPC networking, NAT, Security Groups, IAM, bastion hosts, OpenVPN access, and Global Accelerator to improve availability.
- Migrated workloads from EC2 to EKS, enabling autoscaling, Helm-based deployments, and resource optimization to improve scalability and reduce costs by 25%.
- Engineered Jenkins master-slave architecture using EC2 spot instances as dynamic build agents, reducing compute cost by 40% and improving parallel job execution and build throughput by 30%.
- Automated tasks using Bash scripts or with EventBridge/cronjob triggers for Kubernetes bootstrapping and system maintenance.
- Set up observability using Prometheus, Grafana, & ELK to enhance availability and incident response, contributing to 99% uptime.
- Configured centralized logging with the Elasticsearch stack, Secrets Manager, reducing incident resolution time by 30%.
- Managed ingress using ALB/NGINX controllers, including reverse proxy configuration and TLS with ACM/self-signed certificates.
- Mentored 3 interns and junior engineers on Terraform, CI/CD, and infrastructure best practices to support team development.

PROJECT

Ecommerce WebApp Portal ***Dec 2024***

- Architected and deployed cloud infrastructure using Terraform to provision VPC, EKS cluster, EC2, S3, DNS, ECR, CloudFront, and ACM for a scalable e-commerce application.
- Automated deployment workflows using Jenkins CI/CD pipelines for building Docker images, pushing to ECR, and deploying services to EKS using Helm charts for backend services.
- Configured frontend hosting via S3, integrated CloudFront for CDN, secured with ACM-issued SSL certificates, and oversaw DNS routing with Route 53.

CERTIFICATIONS

AWS Solutions Architect - Associate Certification ***Aug 2021 – Aug 2024***