Manu Kumar K C

manukumargowdakc@gmail.com | +353 894013459

https://www.linkedin.com/in/manu-kumar-kc/ | https://github.com/manukumarkc

Profile

Cloud DevOps Engineer with 3 years of experience in Azure and AWS, specializing in Site Reliability Engineering (SRE), cloud automation, and infrastructure management. Skilled in CI/CD automation, container orchestration (Docker, Kubernetes, ECS, EKS), and Infrastructure as Code (Terraform, ARM) Strong expertise in networking, virtualization, and cloud security, with hands-on experience managing mission-critical systems. Proficient in root cause analysis (RCA), performance optimization, and cloud automation to enhance scalability, reliability, and high availability. Experienced in monitoring, incident response, and DevOps best practices to ensure resilient and secure cloud infrastructure.

Technical Skills

Cloud Platforms: AWS (EC2, S3,IAM,Cloud Formation ECS,LoadBalancer, RDS, EKS), Azure (VM, Storage, Azure DevOps, Key Vault).
Infrastructure as Code (IaC): Terraform, ARM Templates
System Administration : Linux (Ubuntu, RedHat), Windows.
Networking Concepts: DNS, Route53, Load Balancing, TCP/IP, VPN, Firewalls,DHCP,IP Management.
CI/CD Pipelines: Jenkins, AWS CodePipeline, Azure DevOps.
Monitoring Logging: Prometheus, Grafana, Azure Monitor, Log Analytics, AWS CloudWatch, SonarQube
Incident Response Troubleshooting: Root Cause Analysis (RCA), Performance Optimization.
 Security Compliance: .IAM, RBAC, Secure Cloud Design, DevSecOps.
Programming: Python (Intermediate), Bash, PowerShell, YAML.
Containerization Orchestration: Docker, Kubernetes (EKS, AKS), Helm, ArgoCD, Docker-Compose.

Work Experience

Cloud-DevOps Engineer, LTIMindtree Ltd -India   Dec 2021 – Jan 2024

- **Cloud Infrastructure Management:** Deployed, configured, and monitored Azure resources Virtual Machines,Storage,Network,Hybrid Cloud setup, ensuring scalability, performance, and security.
- **CI/CD Automation:** Built and optimized CI/CD pipelines with Jenkins, Azure DevOps for automated deployments.
- **Monitoting and Performance:** Monitoring Performance Optimization – Utilized Azure Monitor, Log Analytics, and Application Insights to track cloud health, troubleshoot performance issues, and optimize system efficiency.

  Backup Disaster Recovery – Implemented and maintained Azure Backup, Site Recovery (ASR), and snapshot policies to

  ensure high availability and business continuity.
- **Incident Management:** Participated in high-severity incident response, troubleshooting VM infrastructure failures to maintain platform stability and high availability 24/7.
- **Monitoring Performance Optimization:** Configured Prometheus, Grafana, and Azure Monitor, Log Analytics to track system health and optimize performance.
- **Security Compliance:** Implemented IAM policies, Azure Firewall, VPNs, and RBAC to ensure secure access control.

DevOps Engineer Intern, DevOps and Cloud Labs – Remote   June 2003 – Aug 2003

- **Automated Cloud Deployments:** Developed and deployed an e-commerce web application using AWS, Terraform, and Jenkins.
- **CI/CD Implementation:Built end-to-end CI/CD pipelines for automated deployments on AWS using Docker, AWS EKS, ArgocD , Jenkins, and Terraform.**
- **Multi-Cloud Management:** Gained hands-on experience with AWS Control Tower for managing multi-account

environments.

- **Monitoring Security:** Integrated Prometheus ,Grafana, NodeExporter, Blackbox exporter, Trivy, OWASP and SonarQube for real-time monitoring and vulnerability scanning

Education

National College of Ireland, MSc in Cloud Computing   Jan 2024 – Jan2025

PESITM, India, BE in Electronics and Communications   Aug 2017 – June 2021

Certifications

AWS Solutions Architect Associate (AWS-SAA C03)

Microsoft Certified Azure Fundamentals (AZ-900)

Certified Kubernetes Administrator- CKA (Udemy)

Projects

Netflix Clone – DevSecOps Implementation   GITHUB REPO NETFLIX

- Built a Netflix-like streaming app focused on DevSecOps best practices, integrating CI/CD pipelines and automating deployments on AWS.
- Designed and secured CI/CD pipelines with Jenkins, SonarQube, and Trivy for automated testing and vulnerability scanning.
- Orchestrated containers with Kubernetes (EKS) and Docker, ensuring scalability, resilience, and high availability.
- Configured Prometheus Grafana for real-time monitoring, alerting, and performance optimization.
- Implemented a microservices-based architecture to enhance modularity, scalability, and ease of maintenance.
- Applied DevSecOps principles, embedding security controls across the development lifecycle.
- Deployed the application on AWS EKS with auto-scaling, ensuring seamless traffic management during peak loads.
- **Technologies Used:** AWS, Docker, Kubernetes (EKS), Terraform, ArgoCD, Jenkins, SonarQube, Trivy, Prometheus, Grafana.

2048 Game App – CI/CD Pipeline with Cloud Deployment   GITHUB REPO
2048GAMEAPP

- Developed and deployed a 2048 game application using HTML, CSS, and JavaScript.
- Built a Jenkins CI/CD pipeline for automated builds, testing, and deployments, with containerized deployments on AWS EKS.
- Leveraged Jenkins for automated deployments to AWS EKS clusters, exposing the application on NodePort.
- Hosted the application on AWS EKS, utilizing Kubernetes for orchestration, scaling, and managing containerized workloads.
- Automated infrastructure provisioning and configuration using Shell scripts, AWS CLI, and Kubernetes manifests for seamless environment setup.
- Implemented build automation using Maven and Git for version control, ensuring reliable and efficient software releases.
- Enhanced system monitoring with AWS CloudWatch and Kubernetes-native monitoring solutions, with automated alerts for potential performance issues.
- **Technologies Used:** AWS, Jenkins, AWS EKS, Kubernetes, Git, Maven, Shell Scripts, Docker, AWS CloudWatch.