

NARINDER SINGH

PERSONAL DETAILS

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PROFILE

Management of cloud-based infrastructure to optimize costs and ensure high availability. Automation of CI/CD pipelines, resulting in reduced time-to-market for product launches. Streamlining of deployment processes, effectively minimizing downtime during rollouts. Implementation of version control systems to improve team collaboration and workflow efficiency. Development of automation scripts for backup and reporting tasks, enhancing reliability and operational efficiency. Leadership in disaster recovery planning and testing to maintain business continuity and system reliability.

EDUCATION

B.Tech: Computer Science Engineering
CT University, Ludhiana, PUNJAB, INDIA

Intermediate
R.S Model Senior Secondary School, Ludhiana,Punjab

SKILLS

Linux Administration	CI/CD Pipelines
Infrastructure as Code	Disaster Recovery
Version Control	Scripting and Automation
AWS	Kubernetes
Containerization	

EMPLOYMENT

DevOps Engineer xfiniOps	Apr 2024 - Present
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- Optimized cloud infrastructure to maximize efficiency and cost-effectiveness while ensuring high service availability.
- Automated infrastructure provisioning using Terraform and CloudFormation, significantly reducing

manual processes and accelerating deployment times.

- Streamlined deployment workflows with Docker and Docker Compose and built resilient CI/CD pipelines with Jenkins, enhancing team collaboration through effective version control.
- Proactive approach to disaster recovery planning—focusing on clear RTO and RPO objectives—ensured minimal downtime and maintained critical system reliability.

PROJECTS

1. AWS Load Balancer Monitoring & Alerting

Overview: Automated monitoring and alerting for ALB, CLB, and NLB using Terraform and Amazon CloudWatch. Ensures proactive issue detection with CloudWatch Alarms and SNS notifications.

Technologies:

- **Terraform:** IaC for AWS monitoring setup
- **Amazon CloudWatch:** Load balancer performance tracking
- **AWS CLI:** Command-line automation
- **Amazon SNS:** Alerting system
- **AWS Lambda:** Automated incident response

Key Features:

- CloudWatch Alarms for key metrics (RequestCount, TargetResponseTime, UnHealthyHostCount, HTTPCode_ELB_5XX_Count)
- Dynamic Terraform logic for ALB, CLB, and NLB
- Remote state management (S3, DynamoDB)
- Alternative NLB monitoring (TCP resets, active connections)

Impact: Enhanced observability, reduced downtime, and scalable deployment.

2. CI/CD Pipeline with Docker, Jenkins & AWS ECR

Overview: Built an automated CI/CD pipeline for an Apache-based app using Jenkins, Docker, and AWS ECR. Ensures seamless integration and deployment with GitHub webhooks.

Technologies:

- **Jenkins:** CI/CD orchestration
- **Docker:** Containerized application delivery
- **GitHub:** Source control and automation
- **AWS ECR:** Secure image storage
- **Webhooks:** Auto-triggering pipeline on commits

Key Features:

- Automated build & push of Docker images to AWS ECR
- Continuous deployment with latest images
- Secure and scalable workflow

Impact: Streamlined deployment, improved reliability, and faster release cycles.