

ABHISHEK SHARMA

AWS DEVOPS ENGINEER

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SUMMARY

DevOps Engineer with 2+ years of experience at HCL, specializing in the Cisco project. Expertise in creating automated deployment pipelines, managing cloud infrastructure, and optimizing system performance. Proficient in DevOps tools and practices, driving seamless development operations and infrastructure as code. Strong problem-solving skills and a commitment to efficient, scalable, and secure environments.

TECHNICAL SKILLS

- Cloud Platforms: AWS (EC2, S3, RDS, EFS, VPC, Lambda, ELB, CloudFront, CloudFormation, Elastic Beanstalk, ElasticCache, Amazon MQ)
- Containerization: Docker, Kubernetes, Amazon ECS
- CI/CD Pipelines: Jenkins, GitLab CI, GitHub Actions
- Configuration Management: Ansible
- Monitoring & Logging: Prometheus, ELK Stack ((Elasticsearch, Logstash, Kibana), AWS CloudWatch
- Infrastructure as Code: Terraform, AWS CloudFormation
- Scripting Languages: Python, Bash
- Version Control: Git, GitHub
- Operating Systems: Linux, Windows
- Other Tools: Helm, Nginx, apache, Packer, Tomcat, etc

PROFESSIONAL EXPERIENCE

HCL Technologies – DevOps Engineer (Cisco Project)

Jan 2022 - Present

Bank of America Project :

Jan 2022 - Dec 2022

As a DevOps Engineer on the Bank of America (BOA) project, I was responsible for automating and optimizing critical financial applications' deployment processes. During my tenure, I implemented several key solutions to improve efficiency and reliability in the infrastructure.

CI/CD Pipeline Development:

- Designed, built, and managed fully automated CI/CD pipelines using Jenkins integrated with Git, Docker, and Kubernetes. These pipelines automated testing, building, and deployment of applications, reducing manual intervention and ensuring continuous delivery of updates. This improved release cycle times by 30%, allowing faster deployment of updates with minimal downtime.

Containerization and Microservices:

- Led efforts in migrating monolithic applications to a microservices architecture, containerizing applications using Docker. Deployed and managed these microservices in Kubernetes clusters on AWS, improving scalability and resource efficiency. This transition enabled BOA to handle increased loads, enhanced application reliability, and simplified the deployment process.

Infrastructure as Code (IaC):

- Automated infrastructure provisioning using Terraform and CloudFormation, creating reusable, version-controlled modules for deploying AWS resources like EC2, RDS, VPC, S3, and EFS. This IaC implementation drastically reduced the time taken to set up new environments, ensuring consistent, repeatable deployments.

Monitoring and Logging:

- Integrated Prometheus and Grafana for real-time monitoring of application and infrastructure performance. Set up ELK Stack (Elasticsearch, Logstash, Kibana) for centralized logging, enabling better tracking of errors and quick troubleshooting of issues.

Security Enhancements:

- Worked on implementing security best practices by automating vulnerability scanning in the CI/CD pipeline and setting up AWS IAM roles, Security Groups, and VPC configurations to secure applications and environments. This ensured compliance with internal security policies and external regulations.

KEY ACHIEVEMENTS

- Reduced manual deployment efforts by 40% through pipeline automation.
- Led the migration to microservices architecture, enhancing application scalability and reducing downtime.
- Improved application uptime to 99.9% by optimizing the deployment and monitoring processes.

HSBC and Ford Project :

Jan 2023 - Present

Currently, I am working on HSBC and Ford projects, where my focus has been on cloud optimization, infrastructure automation, and improving operational efficiency.

Cloud Infrastructure Management:

- Designed and managed the cloud infrastructure for both HSBC and Ford using AWS services such as EC2, S3, RDS, EFS, Elastic Load Balancing (ELB), VPC, and Auto Scaling. I implemented high availability and disaster recovery strategies by using multi-region deployment setups and auto-scaling groups to handle varying workloads.

Container Orchestration and Microservices:

- Managed large-scale containerized applications using Kubernetes on EKS (Elastic Kubernetes Service) and optimized resource utilization by configuring auto-scaling and load balancing. Additionally, I designed Helm charts to package and deploy microservices across multiple environments, improving deployment efficiency and standardization.

CI/CD Automation:

- Enhanced the CI/CD processes by integrating GitLab CI and Jenkins for continuous integration, automated testing, and deployment. I also worked on Docker image creation, version control, and deployment automation, resulting in reduced manual errors and faster development-to-production cycles.

Infrastructure as Code (IaC) with Terraform:

- Implemented Terraform to automate infrastructure management, ensuring faster provisioning of environments, consistency across deployments, and reduced human errors. I created reusable modules for deploying critical services like EC2, RDS, VPC, S3, and other AWS resources, cutting provisioning times from days to minutes.

Monitoring and Logging:

- Integrated CloudWatch and Grafana for system health monitoring and alerting, ensuring minimal downtime and high availability of critical applications. Also set up Logstash for centralized logging to monitor application logs and analyze system behavior across multiple instances.

Security and Compliance:

- Ensured adherence to security standards by managing AWS IAM roles, configuring CloudTrail for auditing, and implementing encryption for data in transit and at rest. Regularly conducted security audits and vulnerability assessments to ensure HSBC and Ford's applications were secure and compliant with industry regulations.

KEY ACHIEVEMENTS

- Optimized Kubernetes clusters and AWS resources, improving resource allocation and reducing cloud costs by 15%.
- Enhanced deployment efficiency by automating the release process, reducing manual errors and deployment time by 35%.
- Ensured high availability of critical applications with multi-region deployments and automated failover mechanisms.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science Sanskriti University	2018 - 2022
Intermediate RAMA University	2017 - 2018
HIGH School BNPS Delhi	2015 - 2016

CORE AWS SERVICES EXPERTISE:

- Compute: EC2, Lambda, Elastic Beanstalk
- Storage: S3, EBS, EFS
- Database: RDS, ElasticCache, Amazon MQ
- Networking: VPC, ELB, CloudFront
- Infrastructure as Code: CloudFormation, Terraform
- Monitoring & Logging: CloudWatch, ELK Stack, Grafana, Prometheus
- Containerization & Orchestration: Docker, Kubernetes, ECS, EKS
- CI/CD: Jenkins, GitLab CI, GitHub Actions
- Microservices: Design, deployment, and scaling of containerized microservices
- Docker: Image creation, deployment, and management for scalable applications