

RAKESH SINGH

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PROFESSIONAL SUMMARY

DevOps Engineer with 3+ years of experience in IT system administration and cloud technologies, specializing in designing and automating infrastructure deployments on AWS. Proficient in containerization (Docker, Kubernetes), continuous integration and deployment (Jenkins, GitHub Actions), and Infrastructure as Code (Terraform). AWS Certified solution Architect with a strong foundation in cloud migrations, automation scripting, and monitoring solutions. Committed to building scalable, secure, and highly available systems in fast-paced environments.

CERTIFICATIONS

- AWS CERTIFIED CLOUD PRACTITIONER - 2024
- AWS CERTIFIED SOLUTION ARCHITECT - ASSOCIATE - 2025
- DevOps Beginners to Advanced (Hands-on Projects) - 2025
- CYBER SECURITY AWARENESS - 2024

TECHNICAL SKILLS

- Cloud Platforms: AWS (EC2, S3, Lambda, RDS, IAM, VPC, CloudFront, CloudFormation, cloud watch,Route 53, SNS, SQS)
- DevOps & Tools: Docker, Kubernetes, Git, Jenkins, Terraform, GitHub Actions
- Scripting: Python (Proficient), Bash, Powershell
- Infrastructure: Windows Server, Linux Administrator, Active Directory, DNS, INTUNE, DHCP
- CI/CD:GitHub Actions, Jenkins pipelines
- Monitoring: AWS Cloud watch, Secure RT

PROJECTS

- **Vprofile App - Cloud Hosted Profile Portal**

Objective:

Migrated a traditional on-premises application to AWS using a Lift-and-Shift approach, ensuring high availability, scalability, and security.

Tech Stack:

AWS (EC2, ELB, Auto Scaling, S3, EFS, Route 53)

Key Highlights:

- Deployed infrastructure with AWS EC2 instances behind Elastic Load Balancer and Auto Scaling groups.
- Configured S3 for object storage and EFS for shared storage.
- Set up Route 53 for DNS management and high availability.
- Impact: Achieved 99.9% uptime, improved scalability, and reduced infrastructure costs by 20%.

Link: <https://vprofileapp.rakeshinfo.xyz>

- **CONTINUOUS INTEGRATION USING JENKINS & DEVOPS TOOLS**

Objective:

Designed and implemented a CI pipeline to automate build, test, and deployment processes.

Tech Stack:

Jenkins, GitHub, Maven, SonarQube, Nexus, Slack, AWS EC2

Key Responsibilities:

- Created Jenkins pipelines triggered automatically on GitHub commits.
- Integrated Maven for Javau builds and SonarQube for static code analysis.

- Automated artifact management using Nexus Repository.
- Configured Slack notifications for build and deployment status.

Impact:

- Reduced manual intervention by 40%.
- Improved deployment speed and bug detection efficiency by 30%.

- **EMart – Cloud-Native E-commerce App Deployment (Full DevOps Pipeline)**

Objective:

Deployed a microservices-based app (Angular frontend, Node.js, Java) on AWS using Docker, Kubernetes, and CI/CD tools.

Key Tools:

Docker, Kubernetes, Jenkins, GitHub Actions, AWS (EC2, RDS, S3), Nginx, Terraform

Highlights:

- Containerized all services and managed deployment with Kubernetes.
- Configured Nginx as an API gateway.
- Used Jenkins and GitHub Actions to automate build and deployment.
- Reduced manual deployment efforts by 80% and improved reliability.

PROFESSIONAL EXPERIENCE

- **WIPRO TECHNOLOGIES PAYROLL (RENOVISION)**
SYSTEM ADMINISTRATOR

18/11/2021 - Present

Key Responsibilities:

- Automated routine server management tasks using PowerShell and Terraform.
- Supported internal cloud migration projects by provisioning AWS services (EC2, IAM, S3, VPC) for dev/test environments.
- Deployed and monitored AWS EC2 instances and managed hybrid infrastructure using Active Directory and VMware.
- Implemented basic CI pipelines for internal applications using Jenkins and GitHub Actions.
- Monitored AWS and on-premises workloads using AWS CloudWatch and Secure RT.
- Participated in cloud enablement initiatives as part of Wipro's cloud-first strategy.

EDUCATION

- J.C. Bose University, YMCA | MBA (International Business) 2023
(Pursued alongside full-time job)
- UIET, Kurukshetra University Kurukshetra | (B-TECH, CSE) 2020
- Faridabad Convent School | 12th 2015
- Faridabad Convent School | 10th 2013

STRENGTHS

- Strong Technical Foundation
- Team collaboration
- Analytical thinking and Problem Solving
- Quick Learner and Adaptable to New Technologies