

TALHA JUIKAR

DevOps Engineer



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Mumbai

PROFESSIONAL SUMMARY

Results-driven **DevOps Engineer** with a strong focus on optimizing software development and IT processes. I am passionate about leveraging my technical skills in a collaborative, dynamic environment that prioritizes continuous improvement. My goal is to contribute to the success of a forward-thinking company while fostering mutual growth.

SKILLS

Linux Administration: RHEL-based (RHEL/Rocky/Alma) and Ubuntu.

Cloud Providers: Amazon Web Services (AWS), Microsoft Azure, Nutanix HCI.

IaC and Configuration Management: Terraform, Ansible.

CI/CD: Gitlab, Jenkins, GitHub Actions, ArgoCD.

Containerization And Orchestration: Docker, Kubernetes, AWS ECS, EKS, Nutanix Kubernetes Platform (NKP).

Observability: ELK Stack, Prometheus, Grafana, Loki, Open telemetry, Jaeger.

Programming and scripting languages: Shell Scripting, Python.

WORK EXPERIENCE

Network Techlab (India) Limited

Cloud Infrastructure Engineer

Thane

July 2023 to Current

As a Cloud Infrastructure Engineer specializing in DevOps, I design, deploy, and manage scalable cloud environments. I automate workflows, enhance system performance, and ensure seamless integration between development and operations teams. My role involves optimizing infrastructure for reliability and efficiency while implementing best practices in CI/CD, monitoring, and security to support agile development processes.

- Implemented **Agile** practices in **CI/CD** pipelines, enabling frequent releases and immediate **feedback loops** to enhance product quality.
- Designed and implemented **multistage, multibranch pipelines** in **Jenkins** to deploy to multiple environments improving overall efficiency by **30%** simplifying the deployment process.
- Integrated **GitLab CI/CD** with **ArgoCD** for automated pull-based deployment, where changes to Git repositories triggered **continuous deployment** pipelines, reducing manual intervention and improving deployment speed by **40%**.
- Implemented CI/CD pipelines that leverage Kubernetes features for **blue/green deployments, canary releases**, and A/B testing to reduce risk and improve reliability in application deployment.
- Utilizing a **multi-cloud Kubernetes** strategy that provides disaster recovery capabilities for SaaS platforms, ensuring business continuity across different cloud providers.
- Troubleshooting and optimizing complex networking issues, such as ingress controller configurations, service discovery, and network policies for secure inter-service communication.
- Designing and implementing storage solutions for **stateful applications**, including dynamic provisioning and **disaster recovery** strategies.
- Deploying and managing **service meshes** to address real use cases in **microservices** communication, security, and observability.
- Implementing **high availability** configurations to ensure **zero downtime** for critical applications during updates or failures.
- Developing **Custom Resource Definitions CRDs** to address specific use cases like database backups or creating **IngressRoutes** in **Traefik**.
- Planning and executing Kubernetes cluster upgrades and migrations with minimal downtime,

migrating applications between clusters or cloud providers.

- Setting up and **fine-tuning logging and monitoring** solutions to provide actionable insights into application and infrastructure performance in live environments and analyzing performance metrics and logs to identify bottlenecks and optimize resource utilization.
- Analyzing **costs and implementing strategies to optimize cloud spending**.
- Utilizing Infrastructure as Code with **Terraform** to quickly create infrastructure such as Virtual Private Cloud (VPCs)/Vnet, subnets, EC2/AzureVM, Database Instances, Load balancers, Internet Gateways, S3Buckets/Blob Storage in a multi-cloud environment, optimizing processes and achieving time savings of up to 45% and cost savings of up to 25% for the organization.
- Write and maintain **Ansible** playbooks to automate configuration management, application deployment, system updates and implement **configuration management** practices, using Ansible to enforce desired states on servers and applications.
- Implementing automated scripts using **bash scripting** to carry out maintenance operations and system administration activities in a hybrid cloud environment.
- Creating custom tools or scripts to automate routine maintenance tasks, improve monitoring alerts, or streamline deployment processes based on specific operational challenges encountered.
- Participating in strategic planning and collaborating with different teams and IT leadership to ensure our development strategy aligns with business objectives.

CERTIFICATION

AWS Certified Solutions Architect - Associate • Amazon Web Services, Inc
Certification ID 8274d41c42494121a579bb51783c2195

Red Hat Certified System Administrator (RHCSA) • Red Hat, Inc.
Certification ID 230-087-900

Nutanix Certified Professional - Multicloud Automation 6 • Nutanix

PROJECTS

- **Ansible role for deploying Kubernetes cluster** [GitHub](#) | [Ansible Galaxy](#)
 - Quickly spin up a Kubernetes cluster with your choice of CNI and Container runtime.
- **Private Container Registry**
 - Deployed a cloud native Private registry with Harbor for container images and Helm charts.
- **Highly available 3-Tier webapp**
 - Created a 3-Tier note taking app using MERN stack. Setup end to end CICD using GitHub Actions to build, test and deploy the application onto a EKS cluster. Set up logging and monitoring using Elasticsearch, fluentbit and open telemetry.
- **DNS Server and Reverse Proxy**
 - Set up a central DNS server using BIND and utilize Traefik as a reverse proxy for multiple applications.
- **IoT with Docker Swarm**
 - Deployed HomeAssistant and Thingsboard platforms on a docker swarm cluster to manage, automate, observe and visualize the IoT devices.

EDUCATION

B.E Electronics and Telecommunication Engineering 2019 to 2023
Anjuman-i-Islam's Kalsekar Technical Campus (Mumbai University)