LAKSHMINARASIMHA P K

DevOps Engineer

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PROFESSIONAL SUMMARY

DevOps Engineer with hands-on experience in **AWS, Terraform, Ansible, Docker, Linux, Bash, Git, and Kubernetes**. Experienced in **provisioning cloud infrastructure, automating deployments, and managing containerized microservices using Infrastructure as Code**. Focused on improving deployment efficiency, reducing manual operations, and maintaining secure cloud environments.

TECHNICAL SKILLS

Cloud: AWS (**EC2, VPC, IAM, Route 53, Load Balancer** and more)
Infrastructure as Code: Terraform (**Modules, Remote State, Workspaces, S3 Backend**)
Configuration Management: Ansible (**Playbooks, Roles, Vault, Dynamic Inventory**)
Containers: Docker (**Image Optimization, Volumes, Lifecycle Management**)
Orchestration: Kubernetes (**Pods, Services, ReplicaSets, Deployments, Namespaces**)
Operating Systems: Linux (RHEL)
Scripting: Bash
Networking: Nginx, DNS, HTTP/HTTPS, CIDR, Reverse Proxy
Version Control: Git, GitHub
CI/CD: Jenkins

PROJECT EXPERIENCE

E-Commerce microservices Project

Project Tools: AWS, Terraform, Ansible, Docker, Linux, Bash, Git, Kubernetes

- Architected a **3-tier microservices system (13 services) on AWS**, increasing scalability by **40%**.
- Provisioned cloud infrastructure using **Terraform**, reducing environment setup time by **90% (6 hours → 30 minutes)**.
- Structured **Dev, Test, and Production environments** using Terraform workspaces, improving deployment consistency by **60%**.
- Engineered **Application Load Balancer and Auto Scaling Groups**, increasing system availability by **50% during peak traffic**.
- Automated configuration of **10+ EC2 instances** through Ansible roles and playbooks, cutting manual setup effort by **70%**.
- Optimized **Docker images**, decreasing image size by **35%** and accelerating deployment speed by **40%**.
- Enabled **persistent storage using Docker volumes**, ensuring complete data retention during container restarts.
- Enhanced frontend performance by configuring **Nginx reverse proxy**, improving response time by **25%**.
- Streamlined Linux administrative tasks using **Bash automation**, reducing repetitive operations by **50%**.
- Strengthened security using **Ansible Vault and AWS SSM Parameter Store**, eliminating plaintext exposure.
- Established **Bastion Host architecture**, fully restricting direct public access to private instances.
- Coordinated source control using **Git Flow with 15+ feature branches**, improving development efficiency by **30%**.
- Orchestrated container workloads in **Kubernetes (ReplicaSets and Deployments)**, improving service availability by **45%**.

CORE SKILLS

Linux & System Administration
- Administered **users, groups, permissions, and sudo policies** across multiple Linux servers.
- Tracked **CPU, memory, disk utilization, and service health** to maintain system stability.

Shell Scripting & Automation
- Created **Bash scripts (variables, conditions, loops, functions)** to automate administrative tasks.
- Streamlined **log rotation, backups, and monitoring** activities.

Ansible
- Built **reusable playbooks and roles** for automated server configuration.
- Orchestrated **parallel EC2 configuration** for consistent environments.

Terraform
- Engineered AWS infrastructure including **VPC, EC2, ALB, and Route 53**.
- Configured **remote state, count, for_each, and dynamic blocks** for scalable IaC.

Docker
- Constructed optimized **Docker images using Dockerfiles**.
- Improved portability through **containerization techniques**.

Git
- Coordinated version control using **Git Flow branching strategy**.
- Applied **reset, revert, squash, stash, cherry-pick** for clean history management.

Networking
- Applied **IPv4, CIDR, DNS, client-server architecture** fundamentals.
- Structured AWS **VPC with public/private subnets, NAT, Bastion Host**.

Kubernetes
- Configured **Amazon EKS clusters** and orchestrated workloads using **Pods, Services, ReplicaSets, Deployments**.
- Enabled exposure using **ClusterIP, NodePort, and LoadBalancer services**.
- Configured **PV, PVC, and dynamic provisioning** for persistent storage.

CI/CD
- Supported **Jenkins build and deployment workflows**.
- Integrated **Git repositories with CI pipelines** for automated delivery.

EDUCATION

Bachelor of Engineering (Computer Science and Engineering)
East West Institute of Technology, Bangalore
Oct 2022 – May 2025