Deepan Muthuvairavan

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SUMMARY

Principal DevOps Engineer | Infrastructure Architect | Linux & Cloud Automation Specialist

Infrastructure Architect & Senior DevOps Specialist with 18+ years of experience designing and leading automation-first platforms across hybrid and multi-cloud environments. Adept at architecting scalable, secure, and cost-effective infrastructure solutions using Terraform, Ansible, Kubernetes, and CI/CD platforms including GitHub Actions, Azure DevOps, and Jenkins.

Proven ability to build high-availability systems and DevOps frameworks for Linux-based workloads, containerized microservices, and cloud-native applications across GCP, Azure, and AWS. Deep hands-on expertise in infrastructure as code, observability, platform hardening, automation APIs, and enterprise-grade deployment pipelines.

Strong leadership in platform design, process optimization, and cross-functional collaboration with development, security, and operations teams. Passionate about enabling self-service infrastructure and driving infrastructure modernization.

ARCHITECTURE & ENGINEERING HIGHLIGHTS

- Designed a cloud-native CI/CD platform to orchestrate FastAPI apps on GCP using Docker, Cloud Run, API Gateway, and IAM controls.
- Built automation APIs (FastAPI) for managing VM lifecycle, CI pipelines, and GCP IAM via GitHub Actions.
- Designed GKE-based GitOps architecture with Helm, Kubernetes controllers, and secure API gateways.
- Standardized cloud-native CI/CD deployments using GitHub Actions, Artifact Registry, and Cloud Run.
- Automated hybrid infra rollout using Terraform modules and Ansible roles across Azure, AWS & GCP.
- Led Azure migration of on-prem workloads to Azure IaaS/PaaS using Terraform and Azure DevOps pipelines.
- Implemented Azure Landing Zones for multi-subscription architecture and RBAC/Policy-as-Code control.

- ➢ Supported multi-account automation in AWS with IAM controls, EC2 lifecycle automation, and basic migration support.
- ➢ Reduced deployment time by 60% and improved rollout consistency for Kubernetes-based platforms.
- ➢ Experienced in stakeholder communication, Agile collaboration, incident/problem management, and mentoring junior engineers.

CORE COMPETENCIES

- ➢ **Operating Systems:**Red Hat Linux, Ubuntu, CentOS, Windows
- ➢ **Automation:**Ansible, Terraform, Bicep, Jenkins, GitHub Actions, Azure DevOps, GitLab
- ➢ **Cloud Platforms:**Azure, AWS, GCP
- ➢ **Containerization:**OpenShift, Kubernetes (AKS, EKS, GKE), Helm
- ➢ **Artifact Management:** JFrog Artifactory
- ➢ **Programming & Scripting:**Python, Bash, PowerShell

ACHIEVEMENTS

- ➢ Reduced AWS infrastructure costs by 40% using automated cleanup and monitoring workflows.
- ➢ Migrated 1000+ UNIX servers from BladeLogic to Ansible with integrated CI/CD pipelines.
- ➢ Developed API-driven automation using FastAPI & Docker for managing VM lifecycle operations.
- ➢ Delivered secure and scalable developer platforms across Azure, AWS, and GCP.
- ➢ Orchestrated DAAS deployments on Nutanix Cloud with Ansible, GitLab, and Azure DevOps.

CERTIFICATIONS

- ➢ Microsoft Azure Administrator Associate (2021)
- ➢ Red Hat Certified Specialist in Ansible Automation (2018)
- ➢ Red Hat Certified System Administrator (2010)
- ➢ EMC Information Storage Associate V2 (EMCISA) (2013)
- ➢ Kubernetes Administration Training (Completed)
- ➢ Terraform Associate Training (Completed)
- ➢ Azure Bicep Advanced Training (Completed)

PROFESSIONAL EXPERIENCE

Freelance Linux Cloud Architect | Independent Projects
Dec 2024 – Present | Scotland, UK (Remote)

➢ Designed and implemented secure token-based APIs using FastAPI for VM lifecycle workflows.
➢ Built and containerized APIs using Docker and published images to GitHub/Azure registry.
➢ Automated infrastructure provisioning using Terraform across Azure and GCP.
➢ Integrated GitHub Actions for triggering secure CI/CD flows with OpenShift and Kubernetes orchestration.
➢ Enabled webhook-driven development pipeline for secure deployments by developers.

Senior Linux Platform Engineer | Haveysoft
June 2023 – Sept 2024| India (Remote)

➢ Designed CI/CD platform using Terraform, Ansible, Azure DevOps, and Python for developer use.
➢ Migrated services from on-prem to Azure and AWS; automated pipelines using GitLab and Python scripting.
➢ Created DAST security scan workflows using GitLab and AWS Lambda with cloud custodian integration.
➢ Reduced cloud costs by 40% through automated clean-up pipelines for unused AWS resources.

Senior Linux Cloud DevOps | Expedia Group UK
Feb 2022 – May 2023|Lancesoft Inc India(Remote)

➢ Designed full-stack CI/CD pipelines using Jenkins CloudBees, Spinnaker, GitHub Enterprise, EKS, and JFrog.
➢ Served as Platform Engineer supporting developer environments in Dev, Test, and Production.
➢ Provided admin and guidance on workflow tools across global teams in India, UK, and USA.
➢ Mentored teams, authored documentation on Atlassian Confluence, participated in Agile sprints using Jira.

Senior Software Engineer | Atos
April 2017 – Jan 2022| India| Projects: Deutsche Bank, Xerox, Aviva

➢ Acted as Technical Lead managing 1000+ UNIX servers and services, mentoring junior team members.
➢ Handled patching, backup, storage migration (LUNs), cluster and multipath issue resolution.

- ➢ Implemented and migrated patching from BladeLogic to Ansible, designing new private-network control node.
- ➢ Developed DAAS automation using GitLab, Ansible, PowerShell, Bash on Azure and Nutanix cloud.

Senior System Engineer | CGI Information Systems
Jun 2015 – Apr 2017 | India

- ➢ Managed production Oracle OVM and RedHat cluster infrastructure, led VM and storage migrations.
- ➢ Implemented automation using Jenkins pipelines and custom shell scripts.
- ➢ Led LVM expansion, multipath recovery, firmware upgrades, and RCA documentation.
- ➢ Mentored junior engineers and performed high-impact incident and problem management.

Linux System Administrator | IBM
Jan 2012 – May 2015 | India

- ➢ Supported RHEL, AIX, Solaris in BAU and engineering teams for mission-critical environments.
- ➢ Worked on Veritas/Red Hat clustering, P2V, V2V, and physical-to-blade migrations.
- ➢ Led major firmware upgrades, managed hardware (blade, rack servers), and SWAT/RCA ownership.
- ➢ Delivered root cause documentation and escalated issue resolution at enterprise level.