Ravi Ranjan

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Summary

DevOps and Cloud Engineer with **9+ years of experience** in automating, deploying, and managing cloud-native infrastructure using **Microsoft Azure**, **Terraform**, **Ansible**, and **Kubernetes**. Implementing **CI/CD pipelines**, **secure identity management**, and **infrastructure as code** using **Terraform Modules and Provisioners**. Strong experience with **Azure VM/VMSS**, **RBAC**, **Key Vault**, **Azure Functions**, **Helm**, **HPA**, and **drift detection**. Adept in using DevOps principles to improve scalability, reliability, and delivery velocity in enterprise systems.

Key Skills

- **Cloud & Infrastructure:**
  - **Azure** (VM, VMSS, VNet, NSG, Storage, Key Vault, Azure Monitor, Functions, Service Principals, Managed Identities, RBAC)
  - **AWS** (EC2, S3, IAM, VPC, CloudWatch)
  - **RHEL, CentOS, Ubuntu** (System Hardening, Kernel Tuning, Patch Management)
- **Infrastructure as Code & Scripting:**
  - **Terraform** (Modules, Provisioners, Drift Detection, Remote State, AzureRM and AWS Provider)
  - **Vault** (Secret Management Integration with Terraform/K8s)
  - **Shell Scripting**, **Python**
- **Automation & Config Management:**
  - **Ansible** (Tower, Roles, Playbooks, Vault Encryption)
  - **CI/CD: Jenkins**, **Argo CD, GitHub Actions**, Bitbucket Pipelines.
- **Kubernetes & Containers:**
  - **Kubernetes** (Deployments, Services, PVC, Ingress, HPA, Node Affinity, Taints & Tolerations, RBAC, **Helm**, Init and Sidecar Containers)
  - **Docker**, ReplicaSet, DaemonSet, StatefulSet, ConfigMaps, Secrets, Ingress Controllers
- **Monitoring & Observability:**
  - Azure Monitor, Log Analytics, Prometheus, **Grafana**
- **Databases & Storage:**
  - MongoDB (Ops Manager), MySQL, Azure Blob, NFS, LVM

Professional Experience

Senior DevOps Engineer   Amadeus   *Bengaluru, KA, India*   **11/2021 - Current**

- Provisioned and managed **Azure VM**, **VMSS**, **VNet**, **NSG**, and Storage using **Terraform modules**.
- Configured **Service Principals**, **Managed Identities**, and **Azure RBAC** for secure access control and automation.
- Integrated **Vault** and **Azure Key Vault** for secret injection in both Terraform and Kubernetes deployments.
- Created **Helm charts** and deployed Kubernetes workloads with **init containers**, **sidecars**, **affinity**, **taints/tolerations**, and **HPA**.
- Used **Azure Functions** for automating infrastructure events like secret rotation and post-deployment validation.
- Built custom dashboards and alerting systems using **Azure Monitor**, **Log Analytics**, and Prometheus.
- Migrated MongoDB clusters from on-prem to Azure with Mongosync C2C and automated operational tasks via Ansible.
- Hardened RHEL servers (PAM, firewall, SELinux, patching) and maintained OS compliance across environments.

DevOps Engineer – Build & Release   FIS   *Pune, MH, India*   **12/2019 - 11/2021**

- Designed reusable **Terraform templates** to manage Azure and AWS infrastructure with **Vault**-based secret automation.
- Maintained and secured Ansible roles/playbooks to deploy infrastructure components and baseline OS configurations.
- Built Jenkins pipelines integrating Helm, Veracode scanning, and custom lifecycle automation.
- Administered Kubernetes clusters, managing deployments, ingress, service discovery, and **RBAC policies**.
- Integrated **Azure Monitor** and Application Insights for full-stack observability across environments.

Associate Consultant   Capgemini   *Pune, MH, India*   **06/2016 - 12/2019**

- Supported enterprise RHEL environments with patching, security auditing, kernel tuning, and NFS/FTP configurations.
- Automated system tasks using **Shell** and **Python**, improving release speed and consistency.
- Set up Jenkins CI/CD jobs with pre/post-build steps, Docker image creation, and testing pipelines.
- Helped establish container standards and contributed to Kubernetes YAML definitions for test environments.

Education

Bachelor of Technology   WBUT   *Kolkata, WB, India*   **07/2011 - 07/2015**

- Major in **Computer Science and Engineering** with CGPA **8.01**