Ravi Ranjan

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Summary

IT professional with **9 years** experience in **DevOps**, **SRE**, **Cloud Engineer** and **Linux Administration**. Proven record in end-to-end DevOps, cloud integration, and optimizing Linux servers. Skilled in designing efficient CI/CD pipelines. Proficient in **AWS, Azure, Kubernetes, Terraform, Ansible and Linux**. Known for enhancing system reliability, scalability, and performance. Ready to contribute expertise to the projects for organizational success.

Skills

- **DevOps | Linux | Cloud | Azure | Docker | Kubernetes | Python | Shell Scripting | AWS | Ansible | Terraform | JIRA | Git | Bitbucket**
- **MongoDB | MySQL| Cloud Computing | CICD | Jenkins | GitHub Actions | ArgoCD | Grafana | Prometheus | SonarQube | Trivy | SCRUM**
- English, Hindi – *All professional proficiency*

Professional Experience

| **Senior Software Engineer- SRE** | **Amadeus** | *Bengaluru, KA, India* | **11/2021 - Current** |

- Ensured performance of **Redhat** Linux servers through comprehensive patching, updates.
- Managed high-availability **MongoDB** clusters, performing backups, replication setup, user access management, and performance tuning.
- Utilized **MongoDB Ops Manager** for automated deployment, **monitoring, backup configuration**, and large-scale cluster operations.
- Created automated configuration management solutions using **Ansible**, including **playbooks**, **roles**, **inventory** structures etc.
- Managed **Kubernetes clusters**, **Deployments**, **Services**, **Ingress**, **ConfigMaps, Secrets**, **RBAC**, and **namespace**.
- Installed and configured **MongoDB on Kubernetes** using **Helm charts** to deploy secure, production-ready **StatefulSets** with **PV**.
- Configuring **Kubernetes autoscaling (HPA/VPA), resource limits, affinity rules, and rolling update strategies.**
- Configured Kubernetes **taints** on worker nodes with low disk space to prevent new pods from scheduling on unhealthy nodes.
- Optimized high availability for critical workloads via **pod tolerations** and **scheduling rules**.
- Configured **Nginx Ingress Controller** in Kubernetes clusters to manage and route external HTTPS traffic to internal services.
- Created **Ingress resources** to define routing rules, host-based and path-based traffic and load balancing for multiple applications.
- Managed Azure **VM, IAM, Vnet**, and **Storage Account** to maintain reliable, scalable, and secure cloud environment.
- Create **Private Endpoint** to secure Azure Storage, Key-vault and Other PaaS to avoid internet/public access.
- Using **Azure Automation Account** automated the Start/ Stop VM using **Runbook**.
- Automated routine infrastructure maintenance and OS log cleanup tasks by developing **event-driven Azure Functions** with Timer triggers, reducing manual operational overhead by **30%**.
- Automated day-to-day cloud operations on **Azure**, including scaling, **patching**, monitoring, and network configuration.
- Automated application deployment on **AWS ECS (Fargate)** using **ECR** for container orchestration with configuring Cluster and Task Definition, integrated with **CloudWatch** for logging and secured via proper **IAM roles**.
- Improve observability using **Sonar**, **Trivy**, **Azure Monitor** and Kubernetes logging, and ensure high system availability.
- Built and maintained **CI/CD pipelines** that deployed containerized applications to **Kubernetes** using **GitOps** using **ArgoCD**.
- Developed **infrastructure** using **Terraform** to provision and manage Azure resources such as VMs, VNet, Storage Accounts, Key Vault, Storage Account, Private-Endpoint.
- Orchestrated **Ansible playbooks**, **templates**, **projects**, and **inventory** using **Ansible Tower** to streamline configuration management tasks.
- Automated OS monitoring, log cleanup, and service health checks using **Python**. Reduced manual operations through **Python scripts**.
- Experience in Python, **Pandas/NumPy**, **Django, Flask**. Improved system reliability by automating **patch validation** with **Python**.

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

- Worked as an individual contributor using various DevOps tools and Azure cloud services to support automation and deployments
- Installed and Configure **Jenkins**, **Docker**, **Ansible**, and **Terraform** servers to optimize infrastructure from scratch.
- Regular monitored and reported on performance metrics, maintaining optimal system health through **Prometheus** and **Grafana**.
- Worked with **Git** for repository creation, change management, and synchronized parallel development.
- Orchestrated the complete lifecycle management of **Docker** containers, Sustaining seamless deployment.
- Developed and maintained **Dockerfiles** to build consistent image.
- Created **Docker Volumes** for data persistency and **Docker Network** to establish communication between containers for quick check.
- Proficiently managed **AWS services**, including **EC2, S3, VPC, ELB, CloudWatch, RDS, DynamoDB and IAM.**
- Write and Implemented **Ansible Playbooks** for **OS hardening and other Configurational change**.
- Proficiently orchestrated **Pods, Deployments, Namespaces, and Secrets** in **Kubernetes**.
- Worked on **MongoDB Installation** and maintain the latest version update.

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- Implemented **Veracode Scan** within CICD processes, reinforcing robust security measures.
- **Created Jenkins pipelines** for Node.js and Ionic to generate Web builds, APKs, and IPA files using Android studio SDK and Xcode.
- Developed CI/CD pipelines in Jenkins triggered automatically when Bitbucket pull requests were approved, using cron-based polling to detect changes every minute.
- Integrated **Veracode** scanning into the deployment pipeline to ensure **code security compliance**.
- Performed monthly **patching** of all **Azure virtual machines** to maintain system security and performance.
- Automated servers start/stop schedules using Azure Automation by writing runbooks and configuring time-based schedules per business requirements.
- Developed basic **Ansible playbooks to perform configuration** changes such as package installation, user management, file creation, and file transfer across servers.
- Quick check execution with Ansible ad-hoc commands for server monitoring and immediate troubleshooting for CPU , Memory and FS.
- Managed Kubernetes clusters, including deployments, ingress configurations, services, and RBAC policy setup.
- Created basic Terraform templates for infrastructure provisioning and resource automation in cloud environments.

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

Client: Total Energies

- Expert in securing seamless operation and stability of Linux systems-based OS (RHEL, Ubuntu).
- Proficient in **OS updates and patch** installations using RPM and YUM, apt.
- Configured the NFS and FTP file sharing for multiple OS.
- Configured Logical Volume Manager (LVM) using a new drive by creating LVM partitions along with PVs and VGs.
- By **Shell Scripting** automate task like Check Disk Usage and Send Alert, Archive Files Older, Stop Multiple Services Before Patching.
- Add nodes, change settings, and designed Jenkins jobs for optimal project integration.
- Proficient in setting up pre and post steps build processes in Jenkins for better **Workflow Design**.
- Skilled in starting, stopping, removing, and killing **Docker containers** based on requests.
- Performed regular Linux server administration, including bi-weekly patching across all Linux nodes.
- Monitored CPU and memory utilization and collaborated with DB and App teams to take corrective actions when above thresholds
- Managed FS utilization by extending LV and coordinating with the storage team for additional disk provisioning when required.
- Handled user account lifecycle management, including creation, modification, and deletion.
- Configured NFS and FTP services to enable secure file sharing between systems.
- Write Ansible playbooks to install packages, manage users, configure services, and perform system updates across multiple nodes.
- Managed Jenkins CI/CD pipelines, including new node integration and plugin installation based on project requirements.
- Performed POCs in AWS for provisioning EC2 instances, VPCs, S3 buckets, IAM users, groups, and roles.
- Conducted POC for setting up Amazon RDS for MySQL database teams.
- Created basic **Dockerfiles** to build container images used for Kubernetes test deployments.

Roles and Responsibility

- Building and implementing new development tools, infrastructure and work to automate & improve development and release.
- Ensure that systems are safe and secure against cybersecurity threats also Identifying problems and developing software updates & fixes.
- Working with software developers to ensure that development follows established processes and works as intended.
- Perform root cause analysis of production errors and resolve technical issues and Develop scripts to automate visualization.

Education

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

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

Others

- **RedHat Ansible Automation Certified and Automation Engineering Certified**
- **A month, RHEL training and AWS training in Capgemini**