

Rishika V

DevOps Engineer/SRE



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PROFESSIONAL SUMMARY:

DevOps Engineer /SRE with 7+ years of experience in designing, implementing, and maintaining robust infrastructure solutions. Proficient in automating deployment processes, optimizing system performance, and managing cloud environments. Committed to enhancing operational efficiency and collaborating with cross-functional teams to deliver high-quality software solutions.

TECHNICAL SKILLS:

- **AWS:** CLI, SDK (boto3), IAM, EC2, ELB, VPC, S3, Lambda, CloudWatch, ElasticBeanstalk
- **Azure:** CLI, SDK, IAM, VM , Load Balancer, Virtual Network, Blob Storage, Azure Monitor, Azure App Service
- **CI/CD:** Jenkins, AWS CodePipeline, AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy, GitHub Actions
- **SCM:** Git and GitHub
- **Network protocols:** DNS, HTTP, HTTPS, SSH
- **Scripting Languages:** Python, Bash
- **Operating Systems:** Linux OS
- **Infrastructure Management:** Ansible ,Terraform
- **Container Orchestration:** Docker, Kubernetes
- **Monitoring & Logging:** Grafana, ELK stack, DataDog, Dynatrace, Splunk
- **Project Management:** Jira, Confluence
- Agile Methodology

CERTIFICATIONS

- AWS Certified Solution Architect - Associate
- HashiCorp Certified Terraform Associate

PROFESSIONAL EXPERIENCE

DevOps Engineer/SRE at Verizon

Mar 2023 - Present

- Collaborated with the DevOps agile team to implement SRE principles and practices for designing and developing cloud solutions with a focus on reliability, scalability, and high availability. Utilized Azure services such as Azure Virtual Machines, Azure Kubernetes Service (AKS), and Azure App Service to deploy and manage cloud solutions.
- Configured Jenkins jobs with Git and Maven for generating artifacts and maintaining backups in Jenkins, Proficient in implementing GitHub Actions for automating workflows and enhancing development processes in modern software delivery pipelines.
- Implemented automated monitoring and alerting systems utilizing tools such as Grafana and ELK stack to proactively identify and resolve issues, ensuring adherence to Service Level Agreements (SLAs) and Service Level Objectives (SLOs) across AWS and Azure environments while aligning with business objectives and regulatory standards.
- Made consumption of data easier by automating the tasks that connect network tooling, scripting and databases through the use of standardized API automation.
- Created Terraform scripts for automated infrastructure provisioning in AWS, OpenStack, and Azure environments, ensuring scalability and reliability across multiple cloud platforms.
- Implemented containerization strategies using Docker and Kubernetes to encapsulate applications into containers, facilitating streamlined deployment, scaling, and management within cloud environments.
- Utilized Ansible playbooks to set up continuous delivery pipelines, including provisioning AWS and OpenStack environments.
- Created a dashboard for actionable insights to internal tools such as Code coverage, Defect tracker using Python and Grafana with ES and Cassandra as DB.
- Actively participated in on-call rotations to provide 24/7 support for critical systems, responding to and resolving incidents in a timely manner to minimize service disruptions across Azure, AWS, and OpenStack environments.

DevOps Engineer at HCL Technologies Ltd.

Nov 2021 - Dec 2022

- Built, maintained continuous Integration/Continuous Delivery systems leading to an improvement to ship new releases by 30%.
- Build and release software baselines, code merges, branch and label creation and interfaced between development and infrastructure.
- Manage configurations such as application properties, server settings, etc., using Ansible playbooks.
- Created private cloud using Kubernetes that supports all environments.
- Collaborated with software engineers to implement reliability-focused design patterns and architectural improvements in applications to reduce failure rates and improve overall system stability.
- Performed all necessary day-to-day GIT support for different projects. Responsible for design and maintenance of the GIT repositories and the access control strategies.
- Actively leveraging Terraform to automate various infrastructure provision for Prod, Dev, and QA cloud staging environments.
- Conducted performance tuning and optimization of Kubernetes clusters, including optimizing container images, tuning resource requests and limits, and identifying and resolving performance bottlenecks.
- Maintained and executed build scripts using Maven by coordinating with development and quality assurance teams in Linux Environments.
- Created Terraform Scripts to create customized VPC, subnets, EC2 instances, ELB, security groups. Worked on tagging standard for proper identification and ownership of EC2 instances.
- Played an active part in migrating the conventional build and deploy process to CI/CD process.
- Demonstrated leadership within the DevOps agile team by providing mentorship and guidance to junior team members, fostering their growth and development in areas such as cloud architecture, automation, and SRE practices

Software Engineer at Tata Consultancy Services

Aug 2016 - Nov 2021

- Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test, and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
- Worked with Docker and Kubernetes on AWS, from helping developers build and containerize their application (CI/CD) to deploy on cloud.
- Developed robust, scalable, modular, API-centric infrastructures and added environments into handling deployments using code pipeline and AWS code deployment for various deployment scenarios.
- Worked with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability, and performance.
- Updated old code bases to modern development standards, improving functionality.
- Designed GIT branching strategies, merging per the needs of release frequency by implementing GIT workflow on Bitbucket.
- Conducted capacity planning exercises to ensure systems could handle expected traffic spikes and growth, collaborating with stakeholders to optimize resource allocation.
- Implemented chaos engineering practices to test system resilience and identify potential failure points, making proactive improvements to enhance overall system reliability.
- Recommended and implemented automation improvements to streamline team and project workflows, enhancing overall productivity and efficiency.
- Automated data consumption processes by connecting network tooling, scripting, and databases through standardized API automation, simplifying data retrieval and analysis.
- Regression tests on Juniper Routers for different stages of FRS releases.
- **Technical Competence:** Basic Networking (OSI Model, TCP/IP, TCP, UDP, HTTP, HTTPS, SSL, FTP, ICMP, DNS, DHCP, ARP), Core Networking (Subnetting, VPN, NAT / PAT, CIDR, Security). Routing Protocols (RIP, OSPF, EIGRP)

EDUCATION

- Bachelor of Technology in Information Technology, GRIET, 2017