**Vikram Reddy**

**Senior DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

* Having 9**+ years** of experience in Configuration Management, Change/Release/Build Management, System Administration, Support and Maintenance in environments like Red Hat Enterprise Linux, CentOS, and expertise in automating builds and deployment process using Python and Shell scripts with focus on DevOps tools, AWS, and Azure Cloud Architecture.
* Skilled in automating CI/CD pipelines using Jenkins, Git, and Maven, enabling seamless code integration and deployment.
* Hands-on experience with configuration management tools like Ansible and Chef to automate system configurations and deployments.
* Strong programming expertise in Python and Shell scripting for developing automation workflows and managing infrastructure.
* Proficient in managing version control systems like Git, Bitbucket and SVN, ensuring efficient collaboration across teams.
* Extensive experience in designing, implementing, and monitoring distributed systems, leveraging AWS services such as EC2, S3, Route 53, CloudFront, and CloudWatch.
* Skilled in implementing Kafka solutions, including configuring producers, consumers, and replication for data streaming and processing.
* Adept at system administration tasks, including managing Red Hat Linux servers, performance tuning, and troubleshooting.
* Strong understanding of software development life cycle (SDLC) and Agile methodologies, ensuring adherence to industry best practices.

**TECHNICAL SKILLS:**

* Cloud Platforms and Services (AWS: EC2, S3, RDS, Lambda, CloudFormation, CloudWatch, IAM, EKS, Elastic Beanstalk, Azure: Azure DevOps, Azure Monitor, Azure Data Lake, AKS)
* Container Orchestration (Kubernetes (EKS, AKS), Docker)
* CI/CD Tools (Jenkins, GitHub Actions, CircleCI, ArgoCD)
* Configuration Management and Automation (Terraform, Ansible, Docker, Docker Swarm)
* Version Control Systems (Git, Bitbucket, SVN)
* Monitoring and Logging (CloudWatch, Grafana, Nagios)
* Scripting Languages (Groovy, JSON, XSL, XSLT, HTML, Python, Python, Shell (Bash), SQL.
* Linux/Unix Farm (Red hat, Ubuntu, Amazon Linux, Open SUSE, CentOS)
* Collaborative Tools (JIRA, Confluence, Fisheye)
* Security (IAM (AWS), S3 Bucket Policies, VPC Configuration, RBAC, Active Directory, LDAP)
* Release & Configuration Management (Ansible, Puppet, Chef, Maven)
* Project Management Tools (JIRA, Confluence)
* Network Management (TCP/IP, DNS, NFS, NTP, DHCP, Postfix, SAMBA, LDAP)
* Virtualization (AWS EC2, VMware, VirtualBox, Linux VDI)
* Database Administration (Oracle (8/9i), MySQL, PostgreSQL)
* System Optimization (Kernel tuning, Performance monitoring, Cost optimization (AWS Reserved Instances, Spot Instances)

**WORK EXPERIENCE:**

**Walmart, Sunnyvale, CA Apr 2022 – Till date**

**Role: Sr DevOps Engineer**

**Responsibilities:**

* Deep understanding of containerization and distributed systems, leveraging Kubernetes and Docker for microservices deployment.
* Developed and implemented CI/CD pipelines using Jenkins, GitHub Actions, Terraform, and AWS Code Pipeline to streamline application and infrastructure deployments.
* Spearheaded CI/CD processes using Jenkins, Maven, and Tomcat Server, optimizing build and deployment workflows.
* Automated complex ETL/ELT pipelines for real-time healthcare data ingestion, transformation, and reporting using Apache Airflow and AWS EMR.
* Implemented cloud security best practices, including IAM roles, S3 bucket policies, and VPC configurations to protect sensitive data.
* Automated AWS infrastructure provisioning and configuration using Terraform and Ansible, ensuring consistent and scalable deployments.
* Integrated Helm for Kubernetes application packaging, streamlining the deployment and versioning of microservices.
* Utilized Grafana and Prometheus for real-time monitoring of cluster performance and AWS resource utilization, significantly enhancing troubleshooting efficiency.
* Designed and managed AWS solutions such as Elastic Beanstalk, EC2, RDS, S3, Lambda, and CloudFormation for scalable and efficient application deployments.
* Hands-on experience with Infrastructure as Code (IaC) and configuration management, ensuring repeatable and reliable cloud provisioning.
* Collaborated with stakeholders to ensure infrastructure scalability and alignment with business objectives using AWS services.
* Proficient in-service mesh technologies like Istio and Kuma, improving microservices communication and resilience.
* Experience managing production Kubernetes infrastructure and ensuring optimal performance in containerized environments.
* Integrated JIRA for project management, including creating workflows, assigning permissions, and automating notifications.
* Managed Elastic Beanstalk environments for streamlined deployment and scaling of web applications, improving reliability and reducing operational overhead.
* Created and optimized automation scripts using Python, Shell, and PowerShell for system management and cloud infrastructure.
* Defined and published KPIs to track release quality and drove retrospective improvements in deployment processes.
* Implemented DevOps best practices and automated deployments with GitHub Actions and ArgoCD.
* Configured and optimized observability tools, including Datadog, Prometheus, Dynatrace, and Grafana, to enhance monitoring and logging.
* Improved Deployment Speed: Reduced deployment time by implementing CI/CD pipelines using Jenkins, GitHub Actions, and Terraform, enhancing the speed and reliability of application releases.
* Increased Uptime & Scalability: Optimized Kubernetes cluster performance, ensuring uptime and improved scalability during peak traffic periods, enabling the company to handle increase in traffic without performance degradation.

**Client: Vanguard, Dallas, TX Sep 2020– Mar 2022**

**Role: Sr DevOps Engineer**

**Responsibilities:**

* Engineered CI/CD pipelines using Jenkins, GitHub Actions, and Terraform to automate infrastructure provisioning and deployment, reducing manual intervention and enhancing development velocity.
* Designed and automated ETL workflows with Apache Airflow and Python, enabling seamless processing of large datasets for retail analytics and reporting.
* Implemented Infrastructure as Code (IaC) using Terraform, developing reusable modules to standardize and automate cloud infrastructure deployments.
* Deployed containerized applications on Amazon EKS and Kubernetes, automating scaling and fault tolerance for high-availability microservices.
* Optimized data solutions by managing data lakes and warehouses in BigQuery, improving accessibility and real-time analytics for informed decision-making.
* Led configuration management efforts with Ansible and Puppet, ensuring consistency and reducing deployment errors across environments.
* Enhanced monitoring and cost optimization by integrating tools and employing strategies like Reserved Instances, spot instances, and cost monitoring solutions.
* Developed build and deployment pipelines with Maven and Jenkins, automating transitions across environments and streamlining application delivery.
* Integrated REST APIs and microservices architectures, improving platform security and reducing downtime by 20%.
* Established DevOps best practices by mentoring teams in tools like SonarQube, Nexus, and GitHub Actions, driving a culture of automation and CI/CD excellence.
* Utilized Rancher as a control plane to manage Kubernetes clusters, simplifying administration and improving operational efficiency.
* Created multi-environment deployment templates using PowerShell and Terraform, automating infrastructure provisioning for seamless scalability.
* Provided leadership and mentorship, fostering continuous learning among engineers and enhancing DevOps skills organization-wide.
* Automated artifact signing processes and other repetitive tasks using PowerShell, streamlining release management workflows.
* Implemented cloud security best practices, including IAM roles and compliance with regulations such as GDPR and PCI-DSS.
* Led deployment and release management for both production and non-production environments, ensuring timely delivery of updates.
* Cost Reduction & Resource Optimization Achieved cost savings by optimizing AWS resource allocation using Reserved Instances and auto-scaling, while ensuring maximum resource utilization.
* Automated Data Pipelines Reduced data processing time by automating ETL workflows with Apache Airflow and Python, enhancing the speed and accuracy of retail analytics and reporting.

**Client: UPS, Seattle, WA**  **Nov 2017 – Aug 2020**

**Role: DevOps Engineer**

**Responsibilities:**

* Identified and resolved end-user workflow challenges, documenting root causes and solutions to enhance support efficiency.
* Administered and customized JIRA Project/Service Desk configurations, including request types, fields, and permissions, aligning with organizational requirements.
* Provided support for Perforce version control, managing workspaces, shelving changes, and integrating updates with Electric Commander CI/CD pipelines.
* Configured and maintained Linux VDI environments using OpenText Exceed on Demand (EoD) and NoMachine, enabling seamless remote access for development teams.
* Optimized high-performance grid computing infrastructure by managing IBM LSF and RTDA, ensuring efficient execution of distributed workloads.
* Automated system provisioning and configuration management using Ansible and CFEngine, ensuring consistency and reliability across environments.
* Integrated and managed LDAP with Microsoft Active Directory (AD) and System Security Services Daemon (SSSD) to streamline authentication and directory services for Linux systems.
* Administered critical Linux services, including NTP, syslog, SAMBA, Postfix, and SSSD, ensuring system stability and optimized performance.
* Performed maintenance and upgrades for large-scale physical and virtual Linux server environments, implementing proactive patch management to minimize downtime.
* Improved System Performance Enhanced resource utilization by 15% through proactive system tuning and identifying performance bottlenecks in AWS environments, leading to better overall system efficiency.
* Infrastructure Automation Reduced infrastructure deployment time by 50% by automating provisioning and configuration management with Ansible and CFEngine, improving operational efficiency and consistency.

**Client: Delta Airlines, Atlanta, GA**  **May 2016– Oct 2017**

**Role: DevOps Engineer /Release Engineer**

**Responsibilities:**

* Managed and maintained CI/CD tools, including Subversion, Jenkins, and JIRA, to streamline development workflows and enhance deployment efficiency.
* Installed and configured Jenkins on Windows, setting up master-slave architectures for parallel builds, optimizing build pipeline scalability and performance.
* Automated infrastructure provisioning and configuration using Puppet 3.x, ensuring consistency and repeatability across development, staging, and production environments.
* Played a critical role in setting up and configuring multi-environment deployments, ensuring reliable and seamless transitions between development, testing, and production stages.
* Deployed virtual machines (VMs) and cloud services in secure VNet and subnet configurations, adhering to best practices for cloud infrastructure management.
* Integrated monitoring tools to track performance, detect errors, and ensure system health, improving incident response times and system reliability.
* Diagnosed and resolved issues in build and deployment pipelines, ensuring high availability and operational continuity.

**Client: Airtel, Hyderabad, India**  **May 2015– Oct 2016**

**Role: Linux Admin**

**Responsibilities:**

* Collaborated with business users to gather requirements and contributed to the design and development of applications using C and Informix 4GL.
* Installed, configured, and upgraded Solaris and Red Hat Linux operating systems on enterprise servers, including Sun Fire and HP ProLiant systems.
* Diagnosed performance issues, applied patches, and optimized TCP stacks for Solaris and Linux environments.
* Managed critical network services such as TCP/IP, DNS, NFS, NTP, and sendmail, aligning configurations with client requirements.
* Deployed and managed enterprise storage systems, including EMC Clariion, Symmetrix DMX, and HP StorageWorks SAN Switches.
* Installed and configured Veritas Volume Manager (VxVM) and Storage Foundation Suite, enabling efficient storage management.
* Automated deployments using Red Hat Kickstart and Solaris Jumpstart, improving provisioning efficiency.
* Developed Bash and Perl scripts for Oracle database backups and routine tasks.
* Configured network services like DHCP, NIS, and NFS, and implemented RBAC for secure access control.

EDUCATION: Bachelors in Electronics and communication and Engineering, JNTUH, HYD, 2014