K Nikhil Reddy

Cloud DevOps Engineer

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Profile

Accomplished DevOps Engineer with over 7 years of experience in Linux systems, Site Reliability Engineering (SRE) , and IT Infrastructure-as-Code. Proven track record in build / release management and cloud-based environments. Expertise in configuring Jenkins pipelines, implementing Microservices frameworks using Spring Boot and Node.js, and automating deployment workflows. Adept at engineering and maintaining CI/CD pipelines to ensure efficient, reliable build, test, and deployment processes. Skilled in automating tasks with Lambda functions and Ansible scripts for configuration management. Known for critical thinking, attention to detail, and delivering high-quality results in dynamic, fast-paced environments.

Professional Experience

Openshift Admin, *Bank of America*   08/2024 – present │ Plano, United States

Environment : Kubernetes │ OpenShift │ Python │ Hive │ Docker software│ Helm│ Git Jenkins │ Ansible │ SQL │ Cloud DevOps Tools │ Agile Methodologies

- Administer Trino/Starburst applications on Kubernetes and OpenShift environments, ensuring optimal performance and reliability.
- Deploy and upgrade Trino/Starburst images using Helm charts, automating processes to reduce deployment time and errors.
- Collaborate with end user Support to troubleshoot issues and optimize SQL queries, leading to improved application performance and user satisfaction.
- Communicate complex technical concepts to non-technical stakeholders, bridging the gap between IT and business units.
- Proactively troubleshoot and resolve technical issues, reducing response times and enhancing system reliability.
- Develop and maintain Python and Hive scripts for data processing, automating repetitive tasks and improving data handling efficiency.
- Utilize cutting-edge DevOps tools and techniques, continuously improving processes and workflows.
- Create and maintain detailed technical documentation, ensuring all processes are well-documented and easily accessible.
- Lead knowledge-sharing sessions and training for team members, fostering a culture of continuous learning and collaboration.
- In process of implementing new OCR solutions - Spring Boot, OpenShift, and Microservices, and co - develop containerized applications - Docker, Spring Boot, Kubernetes, and OpenShift.
- Scheduled, deployed, and managed container replicas onto a node cluster using Kubernetes, converted VM applications to
- Microservices, and deployed as Kubernetes-managed containers.
- Created Docker Slave Nodes for Jenkins using custom Docker Images and pulled them to ECR. Consistently guided SMEs in the use of Splunk to create dashboards, reports, and alerts.
- Reduced manual intervention by automating routine tasks by leveraging Lambda functions.

Cloud DevOps Engineer, *Sapphire Software Solutions, Inc.*   08/2023 – 08/2024

- Demonstrate proven use of Splunk for configuration and installation process. Effectively provision and manage EC2 instances to consistently meet critical application scalability requirements. Implement Microservices framework with Spring Boot, Node.JS, and OpenShift containerization platform (OCP) .

- Leverage use of AWS services e.g., EC2, VPC, RDS, Cloud technologies, CloudFormation, Cloud computing, CloudWatch, CloudFront, Cloud infrastructure, Route53 . Create an environment on AWS platform, Kafka Cluster, and Cassandra Clusters. Implement system alerts on Datadog. Configure
- Configure and deploy application packages onto the Apache Tomcat server. Implement a new ELK cluster for enterprise logging and Maintained Elasticsearch, Logstash, and Kibana. Use Elastic Beanstalk for streamlined deployment of web applications. Install and upgrade Splunk apps and handle configurations.
- Enable users to use Git and SVC by implementing Git mirror for SVN repository. Configure automation and centralized management with Ansible andCobbler Implement Ansible to manage servers and automate the build/configuration of new servers. Use monitoring tool Jira, triage issues, and maintain all bugs.
- Pioneered the transition to containerized applications using Docker and Kubernetes, facilitating a move from VM-based deployments to microservices.
- Automated Jenkins pipeline processes with custom Docker images, improving CI/CD efficiency.
- Reduced manual interventions through Lambda function automation, streamlining routine tasks.
- Contributed experience with AWS Ansible Python Script to generate inventory and push the deployment to manage the configurations of multiple servers using Ansible.
- Developed an API for managing monitoring and alerting hardware resources in a Linux OS environment using C#, C, mono framework, and integration with Linux modules and protocols.

Devops Engineer, *THE SCCL LTD. | HYDERABAD*   07/2019 – 07/2022
- Utilized XML Web services with SOAP protocol for transferring data between different applications, Ansible Tower to schedule playbooks and the GIT repository to store our playbooks, and Docker containers and Docker consoles for managing application lifecycle. Set up an automated build on Docker HUB and deployed CoreOS Kubernetes Clusters to manage
- Docker containers with lightweight Docker Images as base files.
- Developed Spark applications using Spark-SQL in Databricks for data extraction and transformation. Tested SAAS and PAAS API platform built on Java and Open-source stack. Used JavaScript and AngularJS directives for validation purposes and
- Angular JS framework to bind HTML template to JavaScript.
- Effectively worked on Apache Hadoop and used Kafka for the messaging system and Spark to process large data sets.
- Created S3 buckets, managed policies for S3 buckets, and utilized S3 bucket and Glacier for storage and backup on AWS. Supported WebSphere, WebLogic, and JBoss application Server.
- Expertly used JIRA, triaged highly complex issues, and maintained bugs using the JIRA tool.
- Used EC2, S3, and RDS while designing and deploying a scalable, resilient infrastructure on AWS.
- Successfully launched Amazon EC2 Cloud Instances using Amazon Images Linux/Ubuntu, as well as configuring launched instances concerning specific applications.
- Seamlessly implemented Prometheus and Grafana for monitoring containerized applications, as well as providing real-time
- insights into optimized system performance.
- Improved scalability and portability across development, testing, and production environments by implementing Docker for containerization of applications.
- Integrated security practices into CI/CD pipeline, including efficiently incorporating code analysis tools and vulnerability scanners.

System Administrator/Linux Admin, *Tech Indya IT Services Pvt. Ltd.*   05/2016 – 06/2019
- Ensured optimal performance and security for critical applications by configuring and managing Windows Server environments. Developed Software engineering Release Management processes, including key documentation.
- Designed and maintained Subversion/GIT Repositories, views, and access control. Automated build and release management processes, including change monitoring. Implemented TCP/IP networking protocols, DNS, and DHCP configurations.
- Managed SAN and NAS solutions to optimize storage-specific efficiency.

- Enhanced security posture of critical systems by implementing firewalls, encryption protocols, and access controls. Deployed and managed Ansible playbooks for configuration management and optimized consistency. Conducted basic database administration tasks for MySQL databases for ongoing data integrity.
- Skillfully maintained application-specific configuration files for building and installing on different environments. Integrated database deployment automation using Redgate SQL Change Automation and DB Up tools. Queried and analyzed data from Data Tax Cassandra for searching, sorting, and grouping.
- Developed and tested critical backup and recovery procedures to ensure data integrity.
- Encapsulated Business Rules in PL/SQL packages and the data written to the database.
- Reduced repetitive tasks and manual errors by implementing Bash scripts for Linux servers. Identified and resolved system and network issues, technical and operational support, resolving issues, data collection & incident management, virtualization, Multi-tasking incident response, Ticketing, including hardware & Software
- Collaborated with Business Analysts and Project Managers to meet release, build deadlines and cost management

Founder & CEO, *FunctionBank.com*   05/2013 – 05/2019
- Founded and scaled an innovative platform that streamlined venue and empty land bookings nationwide.
- Drove business growth, leading to a successful acquisition in 2019.

Skills

Programming & Scripting
Python, Go, JavaScript, Groovy, Bash Scripting

Scripting Languages
Shell, Ruby, Python, PowerShell

Version Control Tools
GIT, GitHub, GitLab, Bitbucket, SVN

Automation Tools
Chef, Puppet, Ansible, Terraform

Containerization Tools
Docker, Kubernetes

Networking
Load Balancing, NAT, TCP/IP, DHCP, DNS

Observability tools
Prometheus, Grafana, Elasticsearch

Project Management
Jira, ServiceNow, Kanban

Data & BI Tools
Snowflake, Power BI, Power BI API

Operating Systems
Windows, Linux, UNIX, CentOS, Red Hat

Cloud Services
Amazon Web Services - EC2, S3, ELB, Elastic Beanstalk, Elastic File System, RDS, Route 53, CloudWatch, CloudFront
GCP Service - Compute Engine, Cloud Storage, Cloud Load Balancing, App Engine, Filestore, Cloud SQL / Cloud Spanner, Cloud DNS, Operations Suite, Cloud CDN
Azure Service - Virtual Machines, Blob Storage, Load Balancer, App Service, Files, Cosmos DB, DNS, Monitor, CDN

Database & Big Data
Hive, SQL, PostgreSQL, MongoDB, Redis

Automation Tools
Chef, Puppet, Ansible, Terraform

Build Tools
Maven, Gradle, NPM

Web Servers
WebLogic, Apache Tomcat, WebSphere

Education

Master of Computer Information Science, *Southern Arkansas University*

Bachelor of Electronics & Communications Engineering, *Sri Indu College of Engineering*