Nikhil - nikdevops7@gmail.com - (940) 999 7991

Summary:
An accomplished IT professional with 6+ years of experience in DevOps, Cloud, build & release engineering, and Linux system administration, specialized and certified in Amazon web services and Azure. Proficient in creating, setting up, deploying, and overseeing cloud infrastructures across AWS, Azure, and GCP environments. Strong practical background in cloud migration, CI/CD pipelines, containerization (Docker & Kubernetes), and infrastructure automation with Terraform, Groovy, Ruby, and Python. Experienced in managing multi-cloud environments with tools like Jenkins, Puppet, Chef, and ANSIBLE. Good at automating deployment workflows, improving performance, and managing successful cloud migrations for mission-critical applications. Deep understanding of the Software Development Life Cycle (SDLC) with a focus on quality and timely delivery. Strong technical expertise, problem-solving abilities, and excellent communication skills enable effective collaboration with stakeholders. Eager to leverage my skills and experience to contribute to your organization's success.

Technical Skills:

Skill Area	Tools / Technologies
CI / CD	GitLab CI/CD, Jenkins, GitHub Actions, TeamCity
Source Code Management	GitHub, GitLab, Bitbucket, Azure Repos, Apache Subversion (SVN)
Build Management	Apache Maven, Gradle, Apache Ant
Artifactory	Jfrog, Nexus
Configuration Management	Ansible, Chef, Puppet, Terraform, CloudFormation
Containerization	Docker, Kubernetes, OpenShift, Rancher
Application Security	SAML, OAuth, B2C, B2B Authentication
Scripting Languages	Python, Shell Scripting, Bash, PowerShell
Web Servers	Nginx, Apache Tomcat
OS Platforms	Linux (Ubuntu, RHEL, CentOS, Debian), Windows
Monitoring	ELK Stack, Grafana, Datadog, Nagios, AWS CloudWatch, Icinga, Prometheus

Work Experience:
Citi Bank, Irving TX **January 2024 – Present**
Role: Cloud & DevOps Engineer

- Led DevOps initiatives in designing and migrating applications to robust AWS cloud-based solutions. Spearheaded the implementation of infrastructure as code (IaC) using Terraform and CloudFormation, ensuring seamless transition and optimal performance.
- Collaborated closely with development teams to define and implement comprehensive CI/CD pipeline. This involved integrating various CI tools and CD tools to automate the build, test and deployment processes.
- Designed an optimized monitoring framework that utilized AWS CloudWatch and AWS Lambda to track and manage resource usage, resulting in a 30% reduction in cloud storage costs and a 25% reduction in computing costs. This framework provided real-time insights, automated resource scaling, and proactive alerts.
- Provided strategic, fault-tolerant, and cost-effective solutions to support different teams by leveraging various AWS services such as EC2, RDS, Lambda, and CloudFormation. It ensured high availability and reliability of resources, improved application performance, optimized resource utilization, and reduced operational overhead.
- Implemented best practices, cloud governance, and security controls across infrastructure and applications.
- Created Docker files to build the Docker images which were then pushed to image registry. Also, pulled the docker image and ran it to spin up a container as and when required.
- Managed and maintained the Kubernetes clusters, ensuring availability, scalability, and reliability of containerized applications across development, staging and production environments.
- Designed and implemented advanced cluster automation process to optimize cloud operations, ensuring seamless scalability and reliability.
- Utilized AWS CLI to efficiently manage and automate AWS resources, streamlining repetitive tasks and ensuring consistent configuration across environments. Furthermore, exploited AWS CLI for tasks such as deploying applications, managing S3 buckets, configuring CloudWatch Alarms, and scaling EC2 instances.

- Managed and enforced robust security by architecting and implementing fine-grained permissions, roles, and policies for users and groups using AWS Identity and Access Management (IAM), ensuring compliance with DevSecOps best practices and enhancing overall system integrity.
- Automated the critical patching of guest operating systems and other applications running on EC2 instances to safeguard the systems from security vulnerabilities using python automation scripts. Additionally, enhanced site reliability and resilience by hardening Windows and Linux AMI's thereby reducing the attack surface and vulnerabilities.
- Optimized the CI/CD workflows to achieve quicker release cycles and improved software quality, resulted in a 20% reduction in time-to-market and a 30% decrease in production incidents.
- Created an automatic build and deployment process for applications in various environments like Dev, Test, UAT and pre-production using shell-scripting which led to building a continuous integration and continuous deployment system.
- Configured Ansible tool to automate the setup and maintenance of servers, networking devices, and other infrastructure components by defining infrastructure as code using YAML syntax, ensuring consistency and repeatability across environments.

Environment/Tool:, Python, Shell Scripting, AWS, VSCode, Jenkins, Ansible, Docker, Kubernetes, YAML, MySQL, AWS EC2, AWS Lambda, SDLC, Selenium Web Driver, Core Java, Git VCS, JIRA, Eclipse IDE, STLC, Linux

Essity – Bengaluru, India **July 2018 – August 2022**
Role: Software Engineer - DevOps

- Leveraged Azure Devops Pipelines and Jenkins to develop, implement and manage Continuous Integration and Continuous Deployment (CI/CD) pipelines, through automating the process of code integration, testing and deployment across both development and production environments.
- Defined branching, labeling, and merging strategies for the code base for all applications in Git.
- Integrated version control system (Git) with CI/CD tools to facilitate automated code builds and deployments triggered by code changes. Contributed to orchestrating automated tests within CI/CD pipelines using standard testing frameworks, aiding in early defect detection, and ensuring code quality.
- Implemented load testing as part of CI/CD pipelines, resulting in a 20% increase in application performance and ensuring scalability under high traffic conditions.
- Automated the provisioning and management of cloud infrastructure using Azure Resource Manager (ARM) Templates, Terraform, and Azure CLI, ensuring uniformity across development, testing, and production environments.
- Configured and managed a variety of AWS services including Virtual Machines (VMs), Elastic Kubernetes Services (EKS), to effectively support and scale cloud-based applications.
- Configured virtual networks, VPN gateways, Azure Load Balancers, Network Security Groups (NSG), and Application Gateways to ensure secure and reliable connectivity between cloud resources. Managed Azure Active Directory (AD) integration and role-based access control (RBAC) for resource security.
- Implemented Azure Multi-Factor Authentication (MFA) as part of Azure AD Premium to enhance user authentication security and developed custom Azure templates for streamlined deployments and advanced PowerShell scripting.
- Managed and optimized the build process using build automation tools (Maven) ensuring that it was robust, efficient, and capable of delivering consistent and reliable build outputs across different projects within the account.
- Integration of static code analysis and linting tools into the CI/CD pipeline ensured developer code adheres to quality standards before merging. Also, collaborated with development teams to troubleshoot build failures and performance issues, ensuring minimal/low level disruption to development workflows that contributed to maintaining a productive, efficient, and stable development environment.
- Implemented secured application authentication mechanisms by integrating SAML (Security Assertion Markup Language) and OAuth protocols across diverse B2C and B2B platforms.
- Incorporated automated testing frameworks into the pipeline, running unit, integration, and regression tests on each build to ensure code stability and functionality. Enabled continuous deployment to stage environments, allowing testers to validate features in an environment that closely mirrors production.
- Created automated deployment scripts and workflows with version control in place providing the Release team with ability to track changes and perform rollbacks swiftly if issues arise. The artifacts stored in Nexus repository are properly versioned as per the environment.
- Configured 'Nginx' to proxy RESTful API calls to microservices running in Docker containers. Containerized Spring and Maven applications using Docker and deployed them to Kubernetes.

- Monitoring and logging tools are used in the CI/CD pipeline to automatically track application performance and detect issues post-deployment, ensuring a smooth user experience.
- Actively participated in cross-functional knowledge sharing sessions, leading to a 30% increase in team collaboration and fostering a culture of continuous learning and continuous improvement.
- Experienced in all phases of the software development life cycle (SDLC) with specific focus on the build and release of quality software. Experienced in Waterfall, Agile/Scrum and most recently Continuous Integration (CI) and Continuous Deployment (CD) practices.

Environment/Tool: Linux, Unix, Windows, Azure DevOps Pipelines, ARM, AKS, NSG, Azure Active Directory, Nginx, Docker, Python, Shell Scripting, VMWare, SAML, OAuth, GIT, Jenkins, Bitbucket, JIRA, Confluence, Nexus, MySQL, Maven, XML, ANT, SDLC

Essity – Mumbai, India **September 2016 – June 2018**
Role: Linux Administrator

- Configured and administered a wide range of services within Linux and Unix environments, including DNS, NFS, SAMBA, Sendmail, LDAP, and FTP optimizing system performance and reliability across multiple applications and platforms.
- Assisted in the deployment and maintenance of over 200 Linux servers, honing skills in server management and configuration.
- Supported the roll-out of system updates and patches, ensuring 99.9% of system availability while protecting servers from vulnerabilities and maintaining compliance with security policies.
- Managed the creation and ongoing maintenance of user accounts and permissions across Red Hat Enterprise Linux (RHEL) as well as other operating systems, ensuring secure and efficient access control for a variety of user roles.
- Installed, configured, and deployed Linux-based systems, including Red Hat Enterprise Linux, Ubuntu, CentOS, and other distributions using automated installation methods like Kickstart for rapid server provisioning.
- Monitored system performance using tools such as Nagios analyzing logs and metrics to identify and resolve performance bottlenecks, ensuring system performance, uptime and reliability.
- Troubleshot and provided ongoing support for the configuration and maintenance of critical network services, including TCP/IP, Apache (HTTP/HTTPS), SMTP, and DNS ensuring uninterrupted access and functionality for end users.
- Managed and automated backup strategies using tools like rsync, and tar, ensuring regular backups of system data and performing recovery procedures in case of failures.
- Wrote and maintained Shell scripts (Bash, Python) to automate routine system administration tasks such as backups, system monitoring, and log file management.
- Provided technical support for production environments, troubleshooting and resolving issues related to system crashes, hardware failures, network connectivity, and software errors.
- Performed server hardening by configuring secure boot, disabling unnecessary services, and auditing system logs, ensuring compliance with security policies and industry standards (e.g., PCI-DSS, HIPAA).
- Worked closely with development teams to configure and support development environments, ensuring Linux servers met the needs for testing, development and deployment of applications.
- Maintained detailed documentation of system configurations, procedures, troubleshooting guides, and change management processes to ensure consistent knowledge sharing and operational transparency.
- Supported database teams by installing and managing MySQL, PostgreSQL, and MongoDB databases on Linux servers, ensuring efficient operation and secure data storage.
- Co-ordinated with 24/7 on-call support personnel, aiding in debugging complex system issues and ensuring swift resolution of critical incidents to minimize system downtime.

Environment/Tool: RHEL, Windows, Shell Script, Python, SVN, Kick Start, Nagios, Ubuntu, CentOS, Rsync, MySQL, PostgreSQL, MongoDB

Academic and Professional Credentials:
Bachelor of Engineering in Electronics and Communication Engineering at Saveetha University **GPA 3.6, May 2016**
Master of Science in Information Systems and Technologies at University of North Texas **GPA 3.9, Dec 2023**
AWS Certified Cloud Practitioner – Foundational
Automation Engineer Practitioner Certified – Capgemini University

Award / Reward:
Received 'Rockstar' award from Capgemini – Sogeti in recognition of the outstanding performance