**Viswanatha Reddy K**

**Site Reliability Engineer | Cloud DevOps Engineer**

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**PROFILE SUMMARY**

* As a highly skilled Site Reliability Engineer (SRE) and Cloud DevOps Engineer, I specialize in creating and maintaining robust, scalable, and secure infrastructure for modern cloud environments. My expertise lies in integrating Continuous Integration/Continuous Deployment (CI/CD) pipelines, utilizing Infrastructure as Code (IaC) with tools like Terraform, Ansible and driving automation across the entire software development lifecycle.
* My proficiency in containerization technologies, including Docker and Kubernetes, enables efficient multi-platform deployments and optimal performance in both on-premises and cloud environments such as AWS, Azure, and GCP. I leverage version control systems like Git for efficient code management, combined with automated testing and security scanning to ensure high-quality and secure deployments.
* In the realm of Business Intelligence (BI), I have extensive experience with tools like Pentaho and PowerBI, enabling data-driven decision-making through robust reporting and analytics solutions. I am skilled in working with data streaming platforms like Apache Kafka and Debezium for real-time data integration and change data capture, ensuring timely and accurate data flow across systems. Additionally, I have hands-on experience with Snowflake, utilizing its cloud data warehousing capabilities to manage and analyze large datasets efficiently.
* My role also involves managing complex infrastructure, from configuring load balancers and networks to orchestrating large-scale, cloud-based deployments. I apply a data-driven approach to performance monitoring, KPI analysis, and proactive problem-solving, ensuring system reliability and high availability. My database management experience includes schema refreshes and script application, maintaining database performance and integrity across diverse environments.
* Beyond my technical skills, I am deeply committed to Agile methodologies, fostering collaboration within cross-functional teams, and promoting continuous improvement. I also dedicate time to mentoring and training, ensuring best practices in release management, deployment strategies, and rollback procedures are upheld.
* Combining my expertise in SRE, Cloud DevOps, and Business Intelligence, I deliver robust, efficient, and insightful solutions that drive operational excellence and informed decision-making for mission-critical applications and services.

**TECHNICAL SKILLS**

**Programming:**

* **Programming Languages**: Python, Bash, Java, Groovy, Node.js
* **Version Control:** IBM Clear Case, Git, SVN, GitHub, GitLab
* **Build Tools:** Ant, Maven, Gradle
* **Infrastructure as Code (IaC):** Terraform, Ansible

**Compute:**

* **Web Servers**: JBoss, Oracle WebLogic, Apache Tomcat, Nginx
* **Cloud Platforms:** Microsoft Azure, GCP, AWS
* **Operating Systems**: UNIX, Linux, Windows, Solaris, CentOS, UBUNTU, RHEL
* **Databases and Storage:** PostgreSQL, MongoDB, Cosmos DB, Redis, Oracle, SQL Server, S3, Azure Storage, Snowflake, Azure SQL, Amazon DynamoDB
* **Job Scheduling Tools:** Autosys, Job Scheduler
* **Repositories:** Artifactory, Nexus, Harbor registry, ACR
* **Bug Tracking Tools**: JIRA, Remedy, IBM Clear Quest

**Containerization:**

* **Containerization and Orchestration:** Docker, Kubernetes, AKS, Apache Airflow, Debezium, Apache Kafka
* **CI/CD Tools:** Jenkins, GitLab CI

**Analytics:**

* **Reporting Tools:** Pentaho, Power BI
* **Azure Analytics Tools:** Azure Data Factory, Azure Databricks, Azure Data Lake Storage
* **AWS Analytics Tools:** Amazon Redshift, AWS Glue, Amazon Athena

**Observability:**

* **Monitoring and Observability Tools:** New Relic, Dynatrace, Prometheus, Grafana, ELK Stack, Splunk, Azure Monitor, AWS CloudWatch

**EXPERIENCE**

**Site Reliability Engineer** Oct’2022 – Present | MD, USA

**Government Cloud Solutions,** CGI Group Inc

* Developed scalable and performant server-side applications using Node.js, focusing on microservices architecture to support high-traffic environments.
* Implemented API security and optimized performance for Node.js applications by integrating with third-party monitoring tools like Dynatrace for continuous performance monitoring.
* Managed cloud infrastructure on Microsoft Azure, ensuring high availability and scalability of services.
* Implemented automated deployment and configuration management solutions using Ansible and Terraform, streamlining operations and reducing manual efforts.
* Designed high availability and disaster recovery solutions, ensuring business continuity across multiple regions.
* Developed and managed CI/CD pipelines, automating build, test, and deployment processes, which reduced deployment times by 50%.
* Utilized Ansible for configuration management, automating server provisioning and configuration to ensure consistency.
* Optimized cloud infrastructure costs by implementing reserved instances and spot instances, achieving a 20% cost reduction.
* Automated routine maintenance tasks and scaling operations using Python and Bash scripts, improving operational efficiency.
* Developed and maintained custom scripts using Groovy to automate build, test, and deployment pipelines, enhancing the efficiency of the CI/CD process.
* Integrated Groovy scripts into Jenkins pipelines to automate complex tasks and streamline the continuous integration workflow.
* Deployed and managed containerized applications with Kubernetes, ensuring efficient resource utilization and simplified management.
* Deployed, configured, and managed high-availability Kafka clusters, ensuring optimal performance and scalability.
* Configured and maintained monitoring and alerting systems using Prometheus and Grafana, enabling proactive issue detection and resolution.
* Collaborated with development teams to integrate monitoring and logging into application pipelines, improving overall system observability.
* Conducted regular security assessments and implemented best practices to ensure compliance with organizational and industry standards. Designed and implemented a comprehensive observability framework using Prometheus, Grafana, and ELK Stack, improving system visibility and performance monitoring.
* Automated monitoring tasks and alerts configuration, reducing manual efforts and ensuring timely detection of issues.
* Led incident management processes, reducing MTTR by 30% through effective diagnostics and root cause analysis.
* Developed dashboards and reports for real-time monitoring and visualization of key metrics, aiding data-driven decision-making.
* Ensured compliance and security standards were met, implementing security monitoring and alerting mechanisms.
* Implemented and configured Dynatrace for real-time monitoring and performance management across multiple microservices, improving system reliability and uptime.
* Utilized Dynatrace for automated root cause analysis, reducing the mean time to resolution for critical incidents and enhancing overall service reliability.
* Spearheaded the design and implementation of a centralized logging and monitoring solution using Splunk, enhancing visibility into system operations and enabling proactive issue detection.
* Developed custom dashboards and visualizations to provide real-time insights and actionable intelligence for stakeholders.
* Collaborated with cross-functional teams including DevOps, security, and development to ensure effective use of observability tools and practices.
* Conducted performance tuning and optimization of monitoring infrastructure, significantly improving search performance and reducing latency.
* Provided training and support to team members and end-users on observability best practices and advanced functionalities.
* Conducted security vulnerability assessments on existing codebases, identifying critical security gaps and working closely with development teams to implement remediation strategies.
* Led the remediation of security vulnerabilities in web applications, reducing exposure to potential exploits by implementing best practices in code security, such as input validation, encryption, and secure authentication mechanisms.

**Cloud DevOps Engineer** Sep’2019 – Oct’2022 | MI, USA

**ACDCS,** CGI Group Inc

* Architected and managed Azure infrastructure, including Compute, Storage, Networking, and Load Balancers, ensuring optimal performance, scalability, and security.
* Implemented and automated CI/CD pipelines using Azure DevOps, streamlining the build, test, and deployment processes for faster and more reliable software releases.
* Provisioned and managed Azure Kubernetes Service (AKS) clusters, ensuring high availability and scalability of containerized applications.
* Deployed and managed containers using Docker, ensuring consistent application environments across development, testing, and production.
* Orchestrated container deployments and management with Rancher, improving the efficiency of multi-cluster operations.
* Automated infrastructure provisioning using Terraform, enabling consistent and repeatable environment setups across Azure.
* Implemented Ansible playbooks to automate configuration management and deployment tasks, reducing manual effort and increasing deployment speed.
* Designed and deployed virtual networks and subnets in Azure, optimizing network performance and security for cloud applications.
* Configured Azure Load Balancers to distribute traffic evenly across multiple servers, ensuring high availability and fault tolerance.
* Managed Azure Blob Storage for secure and scalable storage solutions, optimizing data management and retrieval processes.
* Utilized Azure Virtual Machines for hosting applications and services, ensuring efficient resource utilization and cost management.
* Implemented Azure Security best practices, including role-based access control (RBAC), network security groups (NSGs), and encryption.
* Configured and managed Azure Virtual Networks (VNet), enabling secure communication between cloud resources.
* Automated container deployment and scaling on AKS using Helm charts, ensuring consistent and efficient application delivery.
* Monitored and optimized Azure resources using Azure Monitor and Log Analytics, ensuring high performance and cost efficiency.
* Deployed microservices architecture on Azure, leveraging AKS and Docker to ensure scalability and resilience.
* Managed Azure App Services for hosting web applications and APIs, ensuring seamless integration with backend services.
* Automated Azure infrastructure management using ARM templates and terraform, ensuring consistency and reducing manual errors.
* Configured Azure Application Gateway for secure and efficient routing of web traffic, ensuring high availability and performance.
* Collaborated with development teams to containerize applications using Docker and orchestrate them on AKS, improving deployment speed and reliability.
* Designed and managed Azure SQL Database instances, ensuring high availability, security, and optimal performance for enterprise applications.
* Implemented data pipelines using Azure Data Factory (ADF) to automate the extraction, transformation, and loading (ETL) of data from various sources to Azure Data Lake and Azure SQL Data Warehouse.
* Configured and optimized Azure Cosmos DB for globally distributed, low-latency data storage, supporting scalable and responsive applications.
* Configured Azure Stream Analytics for real-time data processing and analytics, enabling immediate insights from streaming data sources.
* Managed Azure Database for MySQL and PostgreSQL instances, ensuring security, backups, and performance tuning for critical applications.
* Implemented data security best practices in Azure SQL Database and Cosmos DB, including encryption at rest and in transit, and role-based access control (RBAC).
* Configured and managed Azure Redis Cache to enhance application performance through in-memory data storage and retrieval.
* Deployed Azure SQL Managed Instance to bridge the gap between on-premises SQL Server and Azure SQL Database, ensuring seamless cloud migration.
* Optimized data storage and retrieval processes using Azure Blob Storage and Azure Data Lake, supporting large-scale data processing and analytics.

**DevOps Engineer** Nov’2015 – Sep’2019 | Hyd, IND

**Advantage 360,** CGI Group Inc

* Configured and managed HA-Proxy for load balancing and high availability of web applications, ensuring optimal performance and failover capabilities.
* Implemented and maintained Nginx as a reverse proxy server, optimizing web traffic management and improving application performance.
* Developed and deployed Node.js applications, leveraging its asynchronous nature to build scalable and efficient server-side solutions.
* Integrated Redis as a caching and message broker system, enhancing application performance and reducing database load.
* Implemented SSO (Single Sign-On) solutions, improving user experience and security by centralizing authentication across multiple applications.
* Deployed and managed JBOSS EAP (Enterprise Application Platform) for running Java-based applications, ensuring robust and scalable enterprise solutions.
* Configured and maintained Apache Tomcat servers, supporting the deployment of Java-based web applications and ensuring optimal performance.
* Automated job scheduling with Autosys, managing and monitoring complex job workflows to ensure reliable execution of tasks across the infrastructure.
* Configured and deployed BIRT (Business Intelligence and Reporting Tools) to generate customized reports, delivering actionable insights to stakeholders.
* Implemented and supported BI (Business Intelligence) tools, facilitating data-driven decision-making with comprehensive dashboards and analytics.
* Administered and integrated OnBase for enterprise content management, streamlining document management and workflow automation processes.
* Managed COBOL application builds and deployments, ensuring the seamless integration of legacy systems with modern infrastructure.
* Led database schema creation and refresh activities, ensuring accurate and efficient database structure updates to support evolving application needs.
* Established and applied appropriate branching, labeling/naming conventions using GIT source control.
* Configured GIT plugin to offer integration between GIT and Jenkins.
* Deployed build artifacts to application server using Maven and wrote Maven files to automate integrated build activities on Jenkins.
* Designed and built AWS infrastructure using various resources such as VPC, EC2, S3, IAM, EBS, Security Groups, Auto Scaling, Transfer for SFTP, CloudWatch, RDS & AWS CLI.
* Implemented rapid provisioning and management for Linux using Amazon EC2, Ansible, and custom Bash scripts.
* Implemented life-cycle policy for snapshots.
* Created alarms and notifications for EC2 instances using CloudWatch.
* Triggered AWS Lambda functions using CloudWatch scheduled events.
* Managed IAM service in AWS for assigning roles and polices to users and used the IAM console to create custom users and groups.
* Created S3 buckets and maintained and utilized the policy management of S3 buckets and Glacier for storage and backup on AWS.
* Worked with Jenkins pipeline suite for supporting the implementation & integration of continuous delivery (CD) pipelines.
* Installed, configured, and administered Jenkins Continuous Integration (CI) tool on Linux machines along with adding/updating plugins such as GIT, Maven, and Ansible.
* Used Ansible as a configuration management tool to automate daily tasks, rapidly deploy critical applications, and proactively manage change.
* Provisioned, operated, and maintained systems running on AWS and configuration management using Ansible, and deployed microservices using Ansible.
* Enabled SSH access to servers from the jump server without key or password using Ansible and the shell.
* Involved in configuration automation and centralized management with Ansible and implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
* Worked with Ansible for deployment of security tools, Nagios agents, and Nagios Servers in different environments.
* Created shell scripts for scheduling automated backups from a file system (mounted as a local mount point) to a local disk using rsync and sent email upon completion.

**Build and Release Engineer** May’2013 – Oct’2015| Hyd, IND

**Total Source**, Sreeven Infocom Limited

* Managed Git branches for version control, including creating, merging, and managing feature, release, and hotfix branches to streamline development workflows.
* Implemented branching strategies and pull request workflows to ensure code quality and collaboration across development teams.
* Developed and maintained Maven build scripts (pom.xml) for automating the compilation, testing, packaging, and deployment of Java applications.
* Configured Maven build profiles to handle different environments and deployment scenarios effectively, enhancing build flexibility.
* Designed and implemented Jenkins pipelines for CI/CD, automating build, test, and deployment processes to improve release efficiency and reliability.
* Created and managed Jenkins jobs for continuous integration and deployment, integrating with various tools and services to ensure seamless workflows.
* Automated deployment tasks using Ansible, including environment provisioning, application configuration, and software installation to ensure consistency across environments.
* Developed Ansible playbooks and roles for automating server configuration, middleware deployments, and application updates.
* Utilized Ansible Tower for centralized management of automation tasks, scheduling playbook executions, and monitoring deployment status.
* Administered Linux servers, performing system updates, patch management, and security hardening to maintain a stable and secure operating environment.
* Configured and managed Linux-based build and deployment environments, ensuring efficient execution of build scripts and applications.
* Monitored Linux server performance using tools like top, htop, and vmstat to troubleshoot and resolve performance issues.
* Managed middleware deployments and upgrades, including configuring and maintaining application servers (e.g., JBOSS, Websphere) to support business applications.
* Performed middleware upgrades and patch management, ensuring system stability and compatibility with new software versions.
* Executed database activities such as backup, restore, and optimization to maintain data integrity and performance.
* Maintained complex T-SQL queries, views, and stored procedures in multi-database environments, ensuring optimal database performance.
* Managed database schema changes and data migration tasks, coordinating with development and operations teams to minimize disruptions.
* Troubleshot and resolved build, deployment, and database issues, identifying root causes and implementing corrective actions to prevent recurrence.
* Developed and maintained documentation for build, release, and deployment processes, including setup instructions, troubleshooting guides, and process workflows.
* Collaborated with development, QA, and operations teams to align build, release, and database processes with overall project goals and deliver high-quality software.

**System Engineer** Aug 2010 – Apr 2013 | Hyd, IND

**Manufacture,** TCS

* Enhanced build automation and continuous integration processes using Jenkins, streamlining and optimizing automated builds and deployments.
* Administered and implemented CI tools like Jenkins and Atlassian Bamboo 3.4 for automated builds and deployments, ensuring efficient and reliable processes.
* Utilized Ant and Maven for the automatic compilation, packaging, testing, building, and deployment of J2EE applications to the JBoss Application Server.
* Wrote and maintained build scripts using Maven pom.xml and Ant build.xml to ensure smooth and reliable build processes.
* Managed Maven archive repositories to download artifacts during the build and used them to upload build artifacts after successful builds.
* Performed server administration tasks across Windows and Linux environments, using tools like Nagios and New Relic to monitor and analyze server performance and ensure system stability.
* Administered, supported, and monitored databases, proactively resolving issues and maintaining server health.
* Maintained complex T-SQL queries, views, and stored procedures in multi-database environments with minimal supervision.
* Executed database maintenance activities including backups, restores, and optimization to ensure data integrity and availability.
* Managed patch updates and service pack updates for SQL Servers, keeping systems current with the latest enhancements and security fixes.
* Implemented database mirroring and log shipping as part of disaster recovery plans to ensure high availability and data protection.
* Managed workloads independently while collaborating with colleagues to complete larger-scale tasks in a distributed team environment.
* Followed standard practices for migrating changes to test and production environments and provided technology support to meet business requirements.

**CERTIFICATIONS**

* Exam 70-533: Implementing Microsoft Azure Infrastructure Solutions
* HashiCorp Certified: Terraform Associate (003)
* Google Cloud Certified Associate Cloud Engineer

**EDUCATION**

* Bachelor of Technology in Information Technology in 2010

VITS (JNTU) – Anantapur, Andhra Pradesh