Nagarjuna Reddy K
DevOps Engineer

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Professional Summary

- **7 years of experience** in the field of **DevOps Engineer** in application configurations, code compilation, packing, building, automating, managing, and releasing code from one environment to other and deploying to servers.
- Experience in configuring and maintaining infrastructure in Azure cloud including **V Nets, Storage Accounts, Azure Kubernetes Service (AKS), AFD, ACR, Azure Web Apps, Azure Virtual Machines (VMs), VMSS's and Azure Monitoring**.
- Extensive hands-on experience in creating, configuring, and maintaining infrastructure on AWS cloud services including virtual private network (**VPC**), **EC2, S3, ELB, EKS, RDS, IAM** and **Auto scaling.**
- Expert in containerization of applications using **Docker** by developing custom Docker images and container.
- Experienced in implementing tools like **Ansible and Docker**, application deployment and intra-service orchestration.
- Orchestration using **Kubernetes** for managing the application life cycle.
- Developed **Helm Charts** for packaging and deploying complex applications on **Kubernetes.**
- Implemented **GitOps** workflows using **Argo CD** for continuous deployment and synchronization of application configurations.
- Experienced in installing, configuring, and maintaining **Jenkins**, **Azure DevOps pipelines, TeamCity** (Continuous Deployment (CD)) for the purpose of CI & CD automation.
- Experienced in configuration of queue messaging systems like **Apache Kafka.**
- Experience in creating scripts using **Shell and PowerShell Scripting**.
- Experience in integrating Unit Tests and Code Quality Analysis Tools like **SonarQube**.
- Experienced in installing and configuring creating **Prometheus, Grafana** and **ELK stack,** create various dashboards with metrics, alarms and notifications for server monitoring and logging**.**
- Experience with Automation tools **Power Automate, Azure Logic Apps** tools.
- Ability to work closely with teams, to ensure high quality and timely delivery of builds and releases.
- Strong at trouble shooting skills associated with application life cycle management and infrastructure.
- Successful in communicating with people at all levels and with other departments as needed to best serve the customer.

Technical Skills

Operating Systems & Cloud	Windows, Linux & AWS, Azure
CI-CD	Azure DevOps, Team city, Jenkins
Scripting Languages	Bash, PowerShell
IaC & Configuration Management	Terraform, Bicep, Open Tofu & Ansible
Version Control Systems	GitHub, Azure Repos, Bitbucket
Artifact Management Tools	Nexus, Azure Artifacts
Deployment Tools	Docker, Kubernetes & Helm Charts, Argo CD, Kong
Monitoring Tools	Prometheus, Grafana & Azure Log Analytics

- Led **GitOps** adoption using **Argo CD** across multiple teams, standardizing Kubernetes deployments and improving release consistency across environments.
- Designed and implemented reusable CI/CD pipeline templates in Azure DevOps, significantly reducing pipeline maintenance effort and onboarding time for new services.
- Enabled **zero-downtime** production releases using **blue-green deployment** strategies with Argo Rollouts.
- Built an internal developer platform using **Backstage**, improving developer self-service and visibility into tools, services, and APIs.
- Implemented Infrastructure as Code using **Terraform, OpenTofu**, and Bicep across **Azure and AWS**, reducing manual provisioning and configuration drift.
- Established centralized monitoring and logging using **Prometheus, Grafana**, ELK, Azure Monitor, and Application Insights, improving observability and incident response.
- Designed and managed hybrid cloud DevOps workflows spanning Azure and AWS for large-scale microservices and IoT platforms.

Professional Experience

DevOps Engineer – WS Audiology Pvt Ltd | 2023 – Present

Project: FitXP

- Implement **Azure infrastructure** provisioning and configuration management using **Bicep and Open Tofu.**
- Define infrastructure components (e.g., virtual machines, networking, storage) as code to enable reproducibility and version control.
- Implemented branch policies for multiple repositories using **Terraform**.
- Automate deployment and configuration of infrastructure resources as part of CI/CD pipelines using Azure Pipelines.
- Setting up local environment using **Docker, Docker-Compose setup.**
- Deployment of applications to different environments with **Umbrella Helm Charts.**
- Design and implement **GitOps** workflows using **Argo CD** for continuous deployment and synchronization of Kubernetes resources.
- Configure repositories, applications, and access controls within **Argo CD** for streamlined application deployment and management.
- Kubernetes configuration management with **Kustomize** tool.
- Zero down time deployment of application with **Argo Rollouts and Blue-Green deployment** strategies.
- Automation of **SW system tests and End2End tests** for the application with Azure pipelines.
- Troubleshoot deployment issues and ensure application configurations are synchronized across environments.
- Define pipeline configurations using YAML in **Azure DevOps** for various application types including **containerized applications deployed on AKS.**
- Creating reusable pipeline templates used by multiple pipelines.
- Automating the manual process if any, by writing the **PowerShell scripts.**
- Developed internal developer portal which acts as centralized hub for a multitude of resources, tools, and APIs that developers require throughout the software using **Backstage**.
- Setting up of **Azure Log analytics, App Insights** and **Grafana** for Continuous Monitoring and creation of dash boards.
- Implemented centralized gateway management system, which acts as entry point to APIs across the organization using **Kong Gateway**.

 Environment: Azure, React JS, Dot Net, Azure Repos, Cosmos DB, Signal R, ASB, Azure DevOps, Kubernetes, Argo CD.

DevOps Engineer – Motivity Labs Pvt Ltd | 2021 – 2023

Client: Helix Sense

- This application leverages hybrid cloud architecture i.e., utilizes AWS and Azure.
- Successfully set up end-to-end data streaming from IOT devices installed in various end user premises and utilized AWS Glue to update the data into database.
- Developed IaC for automating the infrastructure creation for applications.
- Created and Configured Azure DevOps pipeline for CI and CD of all the microservices for all the environments
- Automated the release management process using centralized application using Power Apps, Power Automate and SharePoint for transparency and ease the process.
- Created and configured Nexus Repository Manager as an Artifact Management tool and integrated it with Azure.
- Enforced SAST, Code Quality and Code Coverage etc into pipelines as per industry standards.
- Configured centralized log monitoring and alerting for infrastructure and VMs using ELK stack.

Environment: Azure, **Azure DevOps, AWS, Kinesis, AWS Glue, Node JS**, **React JS**, **Python, Odoo, GitHub, PostgreSQL, Terraform, Ansible, Nexus, Android, and Swift**

Client: HH Global

- Managed organizational standards by maintaining the source code in **Bitbucket** for various applications. Setting up the new Build Environment for various products in Linux Environment.
- Maintains and extends configuration and build sub-systems on **GIT**.
- Creating and maintaining the development and release branches on **Bitbucket**.
- Implementing **Jenkins** continuous integration tool including installing, setting the jobs/plans and setting up the tool for deployment.
- Involved in installing **Jenkins** on a **Linux** Machine. And creating a **Master** and **Slave** configuration to implement multiple parallel builds through a build.
- Help engineering teams implement **new technologies** in development for future production deployment.
- Implementing **TeamCity** CI/CD tool includes installing setting the jobs/plans and setting up the tool for continuous deployment.
- Used **Docker, Docker-Compose tools** for running different individual services and optimizing the infrastructure cost.
- Configuring and monitoring **Apache Kafka** as a message queueing system.
- Deployment of applications to different environments with **K8S Umbrella Helm Charts.**
- Actively monitor and administer the applications and hosting environment to increase **efficiency**, **improve reliability**, and **minimize downtime**.
- Setting up of **Prometheus and Grafana** for Continuous Monitoring and creation of dash boards.
- Complete automation by integration of PowerApps with TeamCity.
- Automating the manual process if any, by writing the **Shell scripts.**

Environment: Azure, React JS Dot Net, Bitbucket, MSSQL, Nexus, SonarQube, Jenkins, Docker, Kubernetes, Kafka, Prometheus.

DevOps Engineer – Happiest Minds Technologies Pvt Ltd | 2019– 2021

Client: Genworth Financial

- Designed and implemented infrastructure as code (IaC) solutions using **Terraform** for provisioning and managing cloud resources on AWs
- Implement AWS solutions using VPC, EC2, S3 buckets, Elastic Load Balancer and Auto scaling groups.
- Automated configuration management and deployment processes using **Ansible playbooks**, ensuring consistency and reliability across server environments.
- Configured and maintained CI/CD pipelines in **Jenkins** to automate build, test, and deployment workflows for applications and infrastructure components.
- Developed scripts for build, deployment, maintenance, and related tasks **using Docker, and Bash**.
- Integrated Jenkins pipelines with version control systems (e.g., Git) and artifact repositories to enable continuous integration and delivery of software artifacts.
- Administration of version control system for creating and permissions control.
- Develop a continuous deployment pipeline using Jenkins groovy scripts.
- Monitoring **Jenkins'** jobs and contacting the team if progress is not evident on fixingstability issues.
- Utilized **Docker** to containerize applications and services, improving scalability, portability, and resource utilization.
- Deployment of applications to different environments with **Kubernetes Helm Charts.**
- Collaborated with development and operations teams to optimize release processes and improve deployment speed and reliability.

   Environment: AWS, Git, Maven, Jenkins, Ansible, Docker, Kubernetes.

Client: Sparsha Pharma

- Experience in Creating **branches and tags** to separate build system after a milestone releases and Create build storage archives for back tracking builds.
- Administration of **GitHub** tool includes creating **branches**, **tagging**, **access permissions.**
- Used **Maven** scripts to build the source code. Automated   build scripts using **Maven** and **Shell Scripts**.
- Configured **Jenkins** CI tool for project and setup Nightly Builds.
- Accomplished in tool automation using **Shell scripting.**
- Involved in deployment of the application using **Tomcat.**
- Performed **Build** and **Deployment** activities without any rework.
- Design highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.
- Viewing the selected issues of web interface using **SonarQube**

   Environment: AWS, Java, Git, Maven, Tomcat, Jenkins.

Education

Bachelor of Technology (B.Tech) from JNTUA – Andhra Pradesh.