Narasimha.R

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Azure ,AWS DevOps Engineer　　　　　　　　Mobile: +9-9705003814

GitHub URL: https://github.com/Simhasatya/rearc-quest

PROFESSIONAL SUMMARY:

Azure DevOps Engineer with **5.3** years of experience in designing, automating and managing scalable infrastructure. Skilled in CI/CD pipelines (**GitHub Actions, Jenkins, Azure DevOps**), Cloud platforms (**Azure, AWS**), containerization (**Docker, Kubernetes**), infrastructure as code (**Terraform**) and monitoring tools (**Prometheus, Grafana**). Delivered secure, high-availability and automated solutions for enterprise clients in Telecom sectors.

TECHNICAL EXPERTISE:

- Experienced in using **Git** for version control and maintaining repositories in **GitHub** and **Bitbucket.**
- Automated infrastructure provision and using **Terraform**.
- Proficient in designing and implementing robust **CI/CD** pipelines using Jenkins, GitLab CI, Azure DevOps to automate testing and deployment processes.
- Experience in leading cloud technologies namely **Azure** and **AWS**.
- Worked on **microservices** based applications deployment to Kubernetes clusters and automated the deployments using **CI/CD** tools and **Kubernetes Helm Charts**.
- Worked on implementing various **Azure** Services like **Azure Virtual Machines**, **Resource Groups**, **AKS**, **ACS**, **Vnet**, **Key vaults**, **Storage Accounts**, **Azure Redis Cache** etc.
- Worked on implementing various **AWS** Services like **Amazon VPC**, **EC2**, **EBS**, **ALB**, **ACM**, **EKS**, **ECR**, **Amazon SES**, **Route 53**, **S3**, **RDS**, **Lambda**, **IAM**, **DynamoDB**.
- Experienced in using **Ansible** for configuration management for various environments.
- Experienced in containerizing application using **Docker.**
- Implemented comprehensive monitoring solutions using **Prometheus** and **Grafana** to proactively identify and resolve system issues.
- Proficient in scripting with **Python** to automate routine tasks, enhancing operational efficiency and reducing manual intervention.
- **Collaborated with development teams to containerize Java applications using Docker and integrated them into CI/CD pipelines with Jenkins/GitHub Actions for automated builds, testing, and deployments.**
- **Implemented Maven/Gradle build automation and artifact management using Nexus/Artifactory, streamlining the release process for Java-based applications.**
- **Integrated Java microservices into Kubernetes/EKS environments with Helm charts and automated monitoring/logging setups (Prometheus, ELK), ensuring scalability and reliability in production.**
- Experienced in **Troubleshooting** issues provide technical support to the development teams.

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- Hands-on in implementing DevSecOps practices.
- Proficient in **cost optimization**, **high availability**, and security compliance across cloud platforms
- Software Configuration Management Support with **Branching and Merging strategies**, Tags, Version Control Systems, Integration Management, **Build/Release Management** and Requirement Management.
- Expertise in using build tools like **Maven** for the building of deployable artifacts such as jar, war and ear from source code and plugin management as per requirements.
  Expertise in **Application Deployments** & Environment configuration using **Terraform**.
- Experience creating, managing, and monitoring container-based deployments using **Docker images**.
- Expertise in configuring **ELK** (Elasticsearch, Logstash & Kibana), **Azure Monitor** and **Cloud watch** for Log monitoring of various environments.

TECHINICAL SKILLS:

Cloud Platforms	**Microsoft Azure, Amazon Web Services**
CI/CD Tool	**Jenkins, GitLab, Azure DevOps**
Containerization Tools	**Docker, Kubernetes**
Configuration Management Tool	**Ansible**
Infrastructure Provisioning Tool	**Terraform, CloudFormation**
Source Code Management Tool	**GitHub, Bitbucket**
Monitoring Tool	**Prometheus, Grafana, Azure Monitor, Cloud watch**
Scripting Languages	**Bash, Python**
Project Management Tools	**Jira**
Operating System	**Linux, Windows**

WORK EXPERIENCE
Working at Caterpillar from May 2024 to till date
Worked at HCL, Bangalore from April 2020 to April 2024.
EDUCATIONAL QUALIFICATION

- BABA Institute Engineering college, Visakhapatnam Kakinada University Graduated.

PROJECT SUMMARY:

#2 Project Name: Caterpillar

Description: Caterpillar has been a trusted partner in India's infrastructure growth for decades, supporting critical sectors such as mining, power, and transportation. With over 50 years of

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manufacturing in India, the company operates advanced facilities, R&D centers, and service organizations delivering solutions for global markets. Cat products have played a vital role in iconic projects like Bhakra Dam and Atal Tunnel, recognized for reliability and efficiency. Driven by innovation and a diverse workforce, Caterpillar continues to lead in building a sustainable future.

Key Responsibilities:

- Designed and implemented **Azure Kubernetes Service (AKS)** clusters to support migration from monolithic to microservices architecture, ensuring scalability, reliability and high availability.
  Automated end-to-end deployment pipelines using Azure DevOps, integrating builds, test, security scans and release stages. Thereby enabling faster and reliable application delivery.
- **Used Azure Monitor, Log Analytics, and Cost Management** to monitor cluster performance, track resource consumption, and identify opportunities for optimization.
- Maintain Git Repositories, Handling Releases and Branching activities for GIT.
- Managed multiple build processes from the development team, created and optimized Jenkins build jobs,
- Maintained Git workflow and version control using GitHub and Bitbucket for managing feature branches, merges, and release tags.
- Designed and managed CI/CD pipelines using Jenkins for automating build, test, and deployment workflows across development, UAT, staging, and production environments.
- Developed Ansible playbooks for automating server provisioning, configuration management, and service deployments.
- Created and optimized Terraform modules to provision infrastructure on AWS, ensuring version-controlled, repeatable infrastructure as code (IaC).
- Automated routine DevOps tasks using Python, Shell scripting, and Ansible modules, improving operational efficiency and reducing manual errors.
- Configured SonarQube with Jenkins for static code analysis, enforcing code quality and vulnerability checks before deployment.
- Integrated Prometheus and Grafana for real-time monitoring, alerting, and visualization of application and infrastructure metrics.
- Configured cron jobs for periodic task execution and scheduled Jenkins jobs for automated maintenance and deployment routines.
- Debugged build and deployment issues across multiple environments, ensuring minimal downtime and fast incident resolution.

#1 Project Name: INFOR

Client: XM

Description: Infor is a global leader in industry-specific business cloud software, trusted by over 60,000 organizations worldwide. The company delivers complete cloud suites that enhance user experience, leverage data science, and integrate seamlessly with existing systems. With its cloudfirst approach, Infor helps enterprises drive digital transformation, improve efficiency, and adapt to market disruptions while enabling sustainable growth and innovation.

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Key Responsibilities:

- Implemented solutions using AWS tools and services like **EC2, S3**, **RDS**, **EBS**, **Elastic** and application **Load Balancer**, and **Auto scaling groups**.
- Working on **AWS EC2 Instances** creation, setting up **AWS VPC**, launching **AWS EC2** instances with different kinds of private and public subnets based on the requirements for each of the applications.
- Setting up **AWS Firewall** rules and worked on **Cloud Front** (Content Delivery Network) to deliver content from **Cache** location.
- Working on **AWS Elastic load balancing** for deploying applications in high availability. Working on **AWS Auto Scaling** for providing high availability of applications and EC2 instances based on the load of applications by using **AWS Cloud Watch**.
- Built **Jenkins** jobs to create AWS infrastructure from **GitHub repos**.
- Experience with **AWS S3** services creating buckets, configuring buckets with permissions, logging, versioning and tagging.
- Implemented, supported and maintained all network, firewall, storage, operating systems, and software in Amazon's Elastic Compute Cloud.
- Coordinate with developers with establishing and applying appropriate **branching**, labeling/naming conventions using **GIT** source control.
- Involved in editing the existing **MAVEN** files in case of errors or changes in the project requirements.
- Managed **Ansible Playbooks** with **Ansible roles**. Created inventory in **Ansible** for automating the continuous deployment **Self-Initiated Portfolio Project**

Project Summary:

Project Name: Rearc Quest – Node.js WebApp on AWS ECS with TLS

Role: Cloud (AWS) & DevOps Engineer

GitHub URL: https://github.com/Simhasatya/rearc-quest

- Project Overview: This project showcases a complete DevOps pipeline and cloud infrastructure setup for deploying a Node.js application using modern DevOps tools and practices.
- Key Responsibilities:
- Containerized a Node.js web application using Docker and published images to Amazon ECR.
- Deployed the application using AWS ECS (Fargate) with high availability and service discovery
- Provisioned AWS infrastructure (VPC, ALB, ECS, IAM, ECR, etc.) using Terraform (Infrastructure as Code).
- Configured an Application Load Balancer (ALB) with listeners for HTTP (port 80) and HTTPS (port 443) using self-signed TLS certificates.
- Defined application endpoints: /docker, /tls, /loadbalanced to verify container deployment and load balancing.
- Developed and applied Kubernetes manifest files in a local cluster (for testing) as part of the IaC proof-of concept.
- Built an automated CI/CD pipeline using both Jenkins pipelines and GitHub Actions, incorporating image build, test, push, and ECS update.

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- Demonstrated dynamic app configuration using environment variables and secure task definitions in ECS **Declaration:**

I hereby declare that the information furnished above is authentic and true to the best of my knowledge and belief.

Place: Bangalore   **Narasimha.R**