Tejeshwar Reddys

Senior Devops Engineer

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# Professional Summary:

**Experienced Azure/AWS DevOps Lead, SRE and Engineer with 10+ years** in Build and Release Engineering, Configuration Management, and Linux System Administration. Proven track record in robust CI/ CD pipelines, automation, and infrastructure management. Skilled in optimizing workflows, enhancing performance, and ensuring high availability. Strong in DevOps principles to streamline operations and accelerate time-to-market.

* Proficient in configuring Azure DevOps **YAML** **pipelines** especially for **Dynamics CRM** application deployment, including defining build and release pipelines, setting up triggers, and configuring environments for automated deployment processes.
* Proficient in **Microsoft Azure** across **IaaS**, **SaaS**, and **PaaS**. Experienced in deploying and managing **Azure** **APP** and **Azure** services like Storage, **Azure Active Directory**, Virtual Machines, Blob Storage, SQL Database, **Azure Data Factory**, **Web Apps** deployment, using Application Insights for monitoring, Azure Sentinel for security, and Key Vaults for key management.
* Proficient in leveraging a wide range of **AWS services** and features to architect scalable, reliable, and secure cloud solutions. Deep understanding of **AWS** services such as EC2, S3, Lambda, RDS, Cloud Formation, and more.
* Proficient in leveraging **Terraform** to automate the deployment and management of cloud infrastructure, including **IaaS** and **PaaS** services.
* Experienced in **Kubernetes** orchestration and proficient in **Helm** charts for streamlined deployment and efficient containerized application management.
* Proficient in setting up and configuring **Prometheus** and **Grafana** stack for monitoring infrastructure, applications, and services.
* Capture **applications** baseline performance deviations and implement proactive **Splunk** monitoring and alerting of production systems
* Leverage monitoring tools (such as **Splunk**/**Dynatrace**) and capabilities to find **root** **cause** for incident and **problem** **management**.
* Provide **Splunk** monitoring **subject matter expertise** and main **point of contact** for supported applications.
* Good Experience in security **vulnerability** management like **Rapid7 and remediating the CVE’s**.
* Leveraged built-in and custom connectors in **Azure Logic App** to transform data, trigger actions, send notifications, and automate tasks across different systems and platforms.
* Successfully migrated on-premises databases to Azure Blob Storage, and Azure SQL Database using **Azure Data Factory**, ensuring minimal downtime and data loss during the migration process.
* Experienced in **Python** and **Shell scripting** for task automation and rapid prototyping. Proficient in developing robust scripts to enhance operational efficiency.
* Worked on a wide range of Azure services including AKS, AD, App services, identity, hybrid connectivity, networking, and monitoring.
* Worked on **Datadog** used for Continuous monitoring infrastructure, applications, and services for performance metrics like CPU, memory, and response time
* Worked on end-to-end creation of Build and release **YAML** **pipelines** in Azure DevOps with integration with security tools like Sonar Qube, Prisma.
* Worked on building **docker** **images** for **microservices**, pushing to **ACR**, and deploying to **AKS** using **Azure** **DevOps** **YAML** pipelines.

**Technical Skills:**

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| **Operating Systems** | Redhat Linux 6,7, Ubuntu 18/20 ,Windows 2008/2010,CentOS6,7 |
| **Automation Tools** | Azure Devops, Jenkins, Terraform, ARM Templates, CricleCI |
| **CI CD Tools** | Jenkins, Azure Devops, Github actions, ArgoCD |
| **Build Tools** | Ant, Maven, MS Build, Gradle |
| **Version Control Tools** | Azure Repos, GIT, Bit Bucket |
| **Monitoring Tool** | Azure Monitor, Sentinel, Prometheus , Cloud Watch, DataDog |
| **Cloud Environment** | Azure and AWS |
| **Scripting Languages** | Python, Shell Scripting, Powershell, .Net and #C and YAML |
| **Database** | Mongodb, Postgress , Mysql , SQL, Azure SQL (Azure RDB) |
| **SCM Tools** | Ansible and Salf Stack |

**Education**

Bachelors degree from JNTUA University, Anantapuram, 2010 - 2014.

# Certifications:

AZ-104 – Microsoft Azure Administrator

AZ-400 – Designing and Implementing Microsoft Devops Solutions

# Professional Summary:

**Client: Optum (UHG) Nov 2021 – April 2024**

# Title : Senior DevOps Engineer

# Responsibilities:

* Implemented **Azure policies** for multiple clients prior to Azure migration. Developed and enforced comprehensive policies for resource deployment, access controls, and compliance, ensuring smooth transition and alignment with organizational requirements.
* Implemented **centralized logging** in Azure, consolidating and analyzing logs for improved monitoring and troubleshooting across diverse environments.
* Led creation of **Azure** and **AWS infrastructure with Terraform**, automating provisioning for consistency and scalability. Integrated Terraform with Jenkins for efficient CI/CD pipelines, managing and updating Azure environment seamlessly.
* Developed scalable and resilient business processes by modeling workflows with **Azure Logic App's** visual designer, orchestrating complex sequences of tasks, conditions, and triggers.
* Led creation of **Azure infrastructure with Terraform**, automating provisioning for consistency and scalability. Integrated Terraform with Jenkins for efficient CI/CD pipelines using ADO **YAML** **Pipeline**, managing and updating Azure environment seamlessly.
* Leveraged **Azure Data Factory**'s connectivity options, including self-hosted integration runtimes, to securely connect to on-premises data sources and initiate data movement to Azure storage and databases.
* Developed and maintained **GitHub** **Actions** workflows to automate CI/CD processes, enabling efficient and consistent application delivery.
* Leveraged **GitHub Actions** to deploy applications across multiple platforms, including Azure, AWS, and Kubernetes, enhancing the flexibility of deployment processes
* Created custom **GitHub Actions** to streamline workflow processes and integrate with external services, enhancing the capabilities of CI/CD pipelines.
* Integrated security tools and checks into **GitHub Actions** workflows, ensuring that security best practices are followed throughout the CI/CD process.
* Designed and implemented Azure Data Factory pipelines for MongoDB, SQL DB, and MySQL DB data workflows, enabling seamless integration and synchronization across Azure.
* With **Azure RDB** we have fully managed service tasks such as patching, backups, and monitoring.
* Designing, implementing, and managing AWS cloud infrastructure solutions based on business requirements and best practices.
* Implemented and configured **SAST (Static Application Security Testing)** tools like  **Veracode**, **Checkmarx**, **Fortify** and **SonarQube** for automated code quality analysis. Integrated seamlessly into CI/CD pipelines for enforcing standards and continuous improvement.
* Conducted comprehensive **vulnerability** assessments using **Rapid7's** InsightVM/Nexpose platform.
* Successfully reduced the number of **critical** and **high**-severity vulnerabilities by 30% over a 6-month period, enhancing the organization's security posture.
* Created **Splunk** Monitoring for High CPU Alerts, Application service pulse and log analytics.
* Also created **Splunk** **dashboards** and setup of **Splunk** alerts to constantly maintain and manage Batch Jobs, DB health and server health.
* Implemented **DAST** (Dynamic Application Security Testing) tools are Burp Suite, **Acunetix** to detect vulnerabilities during runtime.
* Implemented encryption for data at rest and in transit using **AWS Key Management**

Service (KMS), SSL/TLS, and **AWS Certificate Manage**r.

* Contributed a major role in single click pipeline which build everything related to project.
* Implemented automated pipelines for micro service deployment on Kubernetes. Utilized CI/ CD for seamless delivery of containerized apps, integrating with Kubernetes for scalability and resilience.
* Implemented DAST (Dynamic Application Security Testing) tools are Burp Suite, Acunetix to detect vulnerabilities during runtime.
* Developed and managed AWS infrastructure using CloudFormation, ensuring scalable and reliable cloud architecture.
* Provided leadership in adopting DevOps best practices across the software development lifecycle, enhancing release processes and reducing deployment time by 30%.
* Designed and optimized database schemas, indexes, and queries for MS SQL Server, improving data retrieval performance.
* Led data migration projects, ensuring seamless data movement between environments and maintaining data integrity.
* Utilized **SSIS** for **ETL** processes, automating data integration and transformation tasks.
* Created and maintained bash and Node.js scripts for automating administrative tasks and enhancing system automation.
* Conducted code reviews and collaborated with development teams to implement security features into application solutions.
* Architect and deploy **AWS** **cloud** solutions using **VPC**, Cloud Formation, **IAM**, **EC2**, and **S3** to meet business and security requirements.
* Automate infrastructure management and deployment pipelines with **Terraform** **Cloud**, reducing manual intervention.
* Lead the design and execution of test cycles, unit tests, and test scripts for embedded vehicle control systems and software applications, ensuring high reliability and performance.
* Manage and support **DevOps** toolchains, including **Jira**, **Bamboo**, **Git**/**Bitbucket**, and Confluence, optimizing workflows and collaboration across teams.
* Implement security best practices within AWS environments, including access controls, data encryption, and secure networking.
* Administer Linux servers, developing bash scripts to automate routine tasks and improve system efficiency.
* Developed and deployed cloud-native applications and services on **PAAS** services such as Azure App Service, Azure Functions, and Azure Kubernetes Service (AKS), leveraging managed services to streamline development and deployment
* Developing and maintaining infrastructure as code (IaC) using tools like AWS Terraform, to automate provisioning and configuration tasks
* Managing AWS Identity and Access Management (IAM) policies, encryption keys, network security groups, and security configurations to enforce least privilege access and data protection
* Configured Prometheus, and **AWS CloudWatch** for monitoring key metrics. Enabled real- time visibility into infrastructure and applications for proactive issue resolution and optimal reliability.
* Hands-on experience with containerization technologies such as Amazon ECS (Elastic Container Service) and Amazon EKS (**Elastic Kubernetes Service**), including **Docker** for container deployment and orchestration.
* We have integrated **Azure RDB** with Azure Monitor to provide monitoring of performance metrics such as CPU usage, storage usage, and query performance.
* With **Azure RDB** we have automatically managing replication across multiple availability zones within a region. If a primary database instance fails, **Azure RDB** quickly fails over to a secondary instance to minimize downtime.
* Designed and optimized **Azure App Services** for scalability and performance, utilizing features such as **auto-scaling**, **load balancing**, and performance monitoring to ensure optimal application performance under varying workloads
* Created Automation tasks using **PowerShell** for system management, software deployment, and configuration changes.
* Created **PowerShell** scripts to query Azure Monitor metrics or Azure Log Analytics for monitoring Azure resources.
* Created **PowerShell** scripts to schedule and manage backups of Azure VMs to Azure Blob Storage.
* Monitored and optimized Azure **IaaS** resources for performance, cost, and security using Azure Monitor, Azure Advisor, and Azure Security Center, identifying and addressing performance bottlenecks, security vulnerabilities, and cost inefficiencies.
* Used **Datadog** Monitoring for High CPU Alerts, Application service pulse and log analytics.
* Implementing Infrastructure with **Terraform** **Azure**, **Ansible**, and **Helm** **Chart**.
* Working on implementing Jenkins Groovy pipeline and experience on Dockers, Kubernetes,
* Maven, **Ansible**, GIT, Kafka.
* Created custom dashboards using **Datadog** for logs, enabling quick insights into system health and performance.

**Client: Infogain India Pvt LTd Oct 2020 – Aug 2021**

# Title: DevOps Engineer Responsibilities:

* Designed and implemented CI/CD **YAML** **pipelines** in **Azure DevOps** for automating build, test, and deployment processes for .Net Project.
* Experienced in setting up CI pipelines to automate the build process for **Dynamics CRM solutions**, including compiling customizations, solution packaging, and performing automated testing to ensure code quality and compatibility.
* Manage risks and resolve issues that affect release scope, schedule, and quality Deployment
* Experienced in integrating **ADO** **YAML** **pipelines** with source control systems such as Git, TFS, or Azure Repos, enabling version control, code collaboration, and automated deployment of changes to Dynamics CRM customizations.
* Utilized Azure Artifacts for managing and versioning dependencies, packages, and artifacts within the DevOps lifecycle.
* Integrated automated testing frameworks such as **Selenium** or NUnit into CI/CD pipelines in **YAML** for continuous testing and validation of software changes.
* Worked with Azure Kubernetes and Docker based cluster management environment Kubernetes.
* Experience in implementing Azure security best practices, including encryption at rest and in transit, Azure Key Vault, Azure Security Center, and Azure Policy.

**Client: Trianz Holdings PVT LTD, India Dec 2019 – Oct 2020**

# Title: Senior Systems Engineer Responsibilities:

* Managed S1 and S2 issues via group chats and bridge calls, ensuring swift resolution and minimal downtime, meeting SLAs.
* Resolved domain connectivity issues by managing configurations and troubleshooting for seamless device integration, ensuring operational continuity and security.
* Managed Linux administration, including system installation, configuration, troubleshooting, and performance tuning over Ubuntu, CentOS, Red Hat Vm’s.
* Implemented **Salt Stack** configurations for **provisioning**, managing, and **automating** **infrastructure** resources.
* Documented **Salt Stack** configurations, deployment procedures for the project scope.
* Shared knowledge and provide training to team members on using **Salt Stack effectively for IaC.**
* Developed reusable **Salt formulas** and states, version-controlling infrastructure configurations, and integrating with CI/CD pipelines for automated deployment.
* Proficient in **Azure VNet** **and Subnet configuration**, designing secure network architectures for efficient **traffic** **routing** and isolation to meet project needs.
* Implemented security best practices and compliance controls **in Azure environments** to protect against security threats and vulnerabilities.
* Installed **Argo CD** on our **Kubernetes** clusters using **Helm** **charts** manifests and we configure it to integrate with our **Git** **repository** where application manifests are stored.
* We have integrated **Argo CD** with monitoring tools **Prometheus**, **Grafana** to get visibility into application health and performance.
* Coordinate with multiple teams to ensure builds are delivered and deployed on time.
* Contracted to serve as **the JIRA Systems Administrator** for the international **JIRA**/**Confluence** infrastructure, including all associated programs, plugins and systems.

**Client: Mintree LTD, India Apr 2015 – Aug 2018**

**Title: Site Reliability Engineer**

**Responsibilities:**

* End to End Infrastructure Monitoring.
* Identify and mitigate the service impacting issues on **MSDN** core components within Defined SLA.
* Created Virtual Machines in Azure cloud.
* Environment baselines for **Virtual** **Machines** and **Application** Configurations
* **SSL** **certificates** management.
* **Application** **Monitoring** and Troubleshooting.
* Troubleshoot and Provide **RCA** for **Major**/**Critical** Incidents/Outages.
* Deploy code changes into Test, UAT and Production environments.
* Applying Redirect rules on legacy sites.
* Experience in **Migration** from **on-prem to Azure cloud.**
* Managing secrets and certs in **Azure key vaults** which are required for configuring websites or applications.
* Create and Configure **Traffic Manager Profiles** to route traffic to **Web** **App** endpoints based on business requirement.
* Configuration of new alerts in **Azure** **Resources**.
* Responsible for availability and performance of Microsoft’s official websites such as MSDN & TechNet, Docs, Docs Learn and MVP including revenue generating Subscriptions, Visual Studio, Blogs, Wiki, Forums, Social, Search and Profile.
* Hands on SQL related issues.
* Responsible for SQL Server Database Backups, Restorations, Job failures, Cluster Management and High Availability.
* Familiar with Monitoring tools like App Insights, **SCOM**, **OMS** and **MS** Flow.
* Quickly **triage** and fix customer issues.
* Prioritization of issues based on overall **impact** and **immediate** impact.
* Update knowledge base with troubleshooting guides and lessons learned.
* Prepare weekly/monthly reports with alert trend using **Power** **BI** tool.
* Performance Monitoring and Resource Management of Hosts & VM’s.

**Client: HighPurple Solutions. India SEP 14 – Feb 15**

**Title : Web Engineer – Trainee**

**Responsibilities:**

• Email Marketing.

• Lead Generation Campaigns.

• SEO Analysis.

• AdWords PPC and Keywords analysis.

• Email Campaigns Via tools like Lead square and Amazon Small email Service.

• Social Media Organizing (SMO).

• Facebook Marketing and Campaigning