Pradeep Kumar Reddy Palleti

**Sr. DevOps Engineer**

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Flexible professional and Confident DevOps Engineer with 13+ years of IT and 7+ years of DevOps experience in various roles as Cloud/DevOps/Production Support/Build and Release Engineer with top-notch experience in automating, configuring and implementing services on cloud environments. Experienced in CI/CD tools, namely Jenkins, Docker, Kubernetes and Azure DevOps Services as well as Linux/Unix Administration and in configuration management and infrastructure as a code tool, namely, Ansible, and Terraform. Extremely Passionate about Cloud Computing and its future with extensive experience on Microsoft Azure Cloud and AWS.

# Skills

* Cloud Platforms: Azure, AWS
* Automation Tools: Jenkins
* Container Orchestration Tools: Docker, Kubernetes
* Scripting Language: Python, Shell
* Build Tools: Maven, Ant, Terraform
* Databases: Oracle, SQL Server, IBM DB2 UDB
* Scheduler: Cron Job Utility, Autosys
* SCM Tools: Git, GitHub, Bitbucket, Azure Repos, TFS
* Monitoring Tools: Splunk, Dynatrace, Nagios
* Configuration Tools: Ansible, Ansible Tower
* PM Tools: JIRA, ServiceNow
* Web Servers: Apache Tomcat
* Methodologies: Agile, Scrum, Kanban and Waterfall
* Operating Systems: Linux, AIX, Windows

# Professional Summary

* + 13+ years of experience in the IT sector in Linux/Unix Administration, Building and Deploying applications using DevOps practices such as Continuous Integration (CI), Continuous Development, and Continuous Deployment (CD) in runtime utilizing several tools like Jenkins, Ansible, Docker, Git, Kubernetes and managing cloud services with Azure & AWS.
  + Building & Automating CI/CD pipelines for different applications. Building & Maintaining Infrastructure for Applications in Azure and AWS utilizing Terraform.
  + Setup and manage servers using AWS services like EC2, EBS, ELB and Auto Scaling groups
  + Designed AWS Cloud Formation templates to create custom sized VPC, SUBNET and NAT gateway to ensure successful deployment of web applications.
  + Dealing with Azure IaaS - Virtual Machines, Cloud Services, Resource Groups, Virtual Networks, Express Route, VPN, Load Balancing, Application Gateways and Auto-Scaling.
  + Experience in deployment automation of all microservices to pull out images from the private Docker registry and deploy to Docker swarm cluster using Ansible.
  + Executed a complete automated build-release solution utilizing technologies like Maven, TFS, Jenkins.
  + Integrated ant with Shell scripts created in Bash Shell & Korn shell to automate the builds for the Java-based applications.
  + Creating an automated process for code builds and deployments with the help of Jenkins, Shell Script, Java, Maven.
  + Assigning the Azure services on locations specific to integrate with web apps and key-vaults.
  + Worked on Version control tools GIT, SVN, TFS and ClearCase to track changes made by different people in source code involving concepts like Branching, Merging, and Tags.
  + Extensive experience for Orchestration/Containerization tools such as Docker, and Kubernetes.
  + Hands on experience in monitoring & alerts, Logs visualization tools like Dynatrace and Nagios.
  + Knowledge of complete software development life cycle (SDLC) with different software development models like Agile, Waterfall models, Scrum Model, JIRA.
  + Very Good experience with UNIX Cron Jobs, Batch Processing with highly complex data model.
  + Good Knowledge on Python Scripting, Cognos and QlikView reporting tools.
  + Extensive experience to understand business requirements, do impact analysis, develop technical requirements, code, test and assist in UAT.
  + Excellent communication and interpersonal skills and involved in client interactions for scoping, effort estimates and status reporting.
  + Expertise in solving production on call issues and provide 24/7 support.

# Professional Experience

## Tata Consultancy Services/Kaiser Permanente, USA & India Apr 2020 – Present Sr. DevOps Engineer

KP modernization is migrating legacy applications into multi cloud platform, my primary responsibility is to build

scripts to deploy and test the changes automatically using CI/CD tools and host the applications in Azure and AWS cloud.

### Responsibilities:

* + Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments.
  + Implemented Azure services such as Azure Active Directory (AD), Azure Storage, Azure cloud services, IIS, Azure Resource Manager (ARM), Azure Blob Storage, Azure VM, SQL Database, Azure Functions, Azure Service Fabric, Azure Service Bus.
  + Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto- Scaling using Cloud Formation templates.
  + Worked on Azure Data Factory and Azure Synapse pipelines to copy the data from Azure Data Explorer clusters to another clusters.
  + Worked with Terraform templates to automate the Azure Iaas virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
  + Management and design of integrated build pipelines using continuous integration workflows such as Git and Azure DevOps.
  + Integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics
  + Using Ansible created multiple playbooks for machine creations and SQL Server, Cluster server and my SQL installations.
  + Implemented deployment gates in CI/CD pipeline, identifying and resolving priority issues within the defined SLAs to reduce the revenue impact and provide root cause analysis.
  + Extensive usage of Git/Azure Repos for version control activities and creating the branches, merging and releasing the code version.
  + Create services for monitoring and alerting services for servers, applications and infrastructure using Nagios and Dynatrace.
  + Containerized applications using Docker file and integrated with different Microservices.
  + Created Pods, deployments, services and replication controller in Kubernetes.
  + Implemented containerized based applications by using Azure Kubernetes Service (AKS)/Azure Container Service (ACS).
  + Experienced in writing deployment configuration files and handling stateful applications in Kubernetes.
  + Hands on experience in using ingress and Egress to control inbound and outbound traffic in Kubernetes
  + Participated in weekly defect review and SCRUM meetings.
  + Hands on Experience in writing Ansible play books, tasks, roles and templates
  + Monitoring the dashboard to see the job CPU utilization, input and output events, availability etc.

## Tata Consultancy Services/APTIV PLC, USA May 2017- Mar 2020 DevOps Engineer

GES application mainly used for E & S, Powertrain and DPSS business requirements like Object Management

Framework, Parts and Document number assignment & management, Change Management, EBOM, ECAD Vaulting, Software release, Package engineering. My primary responsibility is to host application using Azure services and create pipelines for continuous Integration and Delivery.

### Responsibilities:

* + Working experience with Azure Resource Manager (ARM) to deploy, update, and delete multiple Azure resources, as well as migrating on-premise resources to Azure with Azure site Recovery (ASR), and Azure backups.
  + Designed and automated AZURE Infrastructure as a Service (IaaS) and Platform as a Service (Paas), Saas capabilities which includes virtual machine, container services, virtual network and other cloud services.
  + Created builds and release pipelines in Azure DevOps and did deployments to multiple platforms by implementing CI/CD.
  + Worked with Azure Monitoring tools such as Azure Log Analytics, Azure Network Watcher, and Azure Service Health to diagnose and minimize service degradation.
  + Extensive usage of Git/Azure Repos for version control activities.
  + Utilized Terraform as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
  + Involved in configuring Azure app services on cloud platform using Terraform.
  + Develop multiple, terraform configuration files to automate the deployment of the applications to different Prod/QA Environments.
  + Used GIT for creating the branches, merging and releasing the code version.
  + Created release pipelines to deploy into cloud as well as on-premise using deployment groups and swap slot tasks.
  + Management and design of integrated build pipelines using continuous integration workflows such as Git and Azure DevOps.
  + Containerized applications using Docker file and integrated with different microservices.
  + Created a CI/CD pipeline to deploy Docker containerized applications.
  + Managed Docker orchestration and Docker containerization using Kubernetes.
  + Used Kubernetes to orchestration the deployment, scaling, and management of Docker Containers.
  + Implemented containerized based applications by using Azure Kubernetes Service (AKS).
  + Created Pods, deployments, services and replication controller in Kubernetes.
  + Deployed YAML files to create many services like pods, deployments, auto scaling, load balancers, labels, health checks, Namespaces, config map in Kubernetes.
  + Utilized Kubernetes for the runtime of the CI/CD system to build, test deploy.
  + Involved in sprints and planned releases with the team using ServiceNow and GTS.
  + Configured and implemented storage blobs and Azure files – created storage accounts, Configured the content delivery network, custom domain, Managing access and storage access key.
  + Documented all the process of CI/CD Pipeline to make sure that all the steps are completed successfully and for feature reference of Dev teams.

## Tata Consultancy Services/FCA, USA July 2013 – Apr 2017 PL/SQL Developer | Application Lead

TREAD (Transportation Recall enhancements, Accountability and Documentation) application submits

quarterly reports to NHTSA. Chrysler has to provide the report to NHTSA in the format specified by them and the issues count is classified into predefined categories. The system takes the data from several Data Sources, process through scripts, stored procedures and finally populates the data into TREAD system for generating and submitted reports to NHTSA. My primary responsibility is developing new scripts, stored procedures and Cognos Reports for the applications that are needed to be reported to NHTSA.

### Responsibilities:

* Created As-Is Process documentation, ETL Mappings, identified the gaps in existing process and proposed TREAD to be Architecture to meet all the business requirements with better performance as part of TREAD Blueprinting project.
* Interacting with the client to understand the project requirements and transform into new database objects like tables, views, functions, stored procedures.
* Developed ETL jobs using shell scripting to extract data from source systems, transform data as per business logic and load into database and schedule them using Cron Job Utility.
* Performed code reviews for all deployments and mentoring team members.
* Performed SQL tuning using Explain Plan.
* Analyze SQL statements, reorganize database objects, partitioned tables and indexes for better performance of queries and application.
* Developed and generated TREAD reports using Cognos.
* Maintaining daily batch cycle and providing 24-hour production support.

## Tata Consultancy Services/FCA, India Jun 2010 – Jun 2013 PL/SQL Developer

Cost Service Tool (CST) is a preprogram approval tool which provides the details of cost associated with a part and grouped together to form a vehicle which helps in finding the final cost of the new vehicle. CST is a tool which provide the details of cost for list of parts and that can be viewed through Report. My primary responsibility is creating schemas, tables, stored procedures and creating backend cron jobs for data extract and load into application.

### Responsibilities:

* Involved in creating detailed Functional Documentation that includes all Business requirements and technical specifications.
* Generated DDLs to create/alter the database tables, views, MQTs, functions and tablespaces,
* Developed PL-SQL stored procedures that will get triggered by web interface to add/update/delete the data or to return the results to the caller based on the selected input values.
* Coded PL-SQL stored procedures to perform data loading, error handling and tied to ETL process.
* Extensively used load cursor approach to move the data between multiple environments.
* Developed ETL scripts to load the data into staging area. Provided all business rules for the database for loading data.
* Involved in handling the changes in compiling scripts according to the database changes
* Developed reports using complex queries as per client request as a part of production support
* Performed SQL tuning using Explain Plan
* Responsible for performing code reviews

# Certification

* Azure Certified Administrator
* Microsoft Certified on Azure Fundamentals
* IBM Certified Application Developer DB2 UDB v.9.1 Family

# Education

**Master of Technology** with specialization in Embedded Systems & Technology at SRM University, Chennai, India, 2009.