

# P. MALLIKARJUNA RAO



**Mobile:** +91-9059667784 | **Email:** [techking1983@gmail.com](mailto:techking1983@gmail.com) | **Location:** Hyderabad

**Cloud + DevOps Engineer** with rich experience in Hybrid – AWS, AZURE Cloud implementation and solutions, looking forward for suitable position that provides career growth and challenges in work in a manner that will offer the best opportunity for further development of my abilities.

## PROFESSIONAL

## SYNOPSIS

- Having 13 years of experience in DevOps with Cloud Infrastructure management background.
- Extensive expertise in Application development life cycle and Software Configuration Management.
- Deep experience in the development of solutions using industry leading Microsoft technologies
- Strong practical experience of **Microsoft Azure PaaS and IaaS** technologies across data and messaging including BLOB storage, Cosmos DB, PaaS databases, API Management, Event Hubs
- Hands on experience in **Azure AD, OpenID, Databricks** and Spark.
- Well-versed with **ASP.NET, MVC, SOAP and RESTful** Services
- Hands on Experience in **AZURE DevOps** pipelines.
- Best Practices implemented for **AZURE cloud migrations**.
- Hands on experience in **AZURE POWERSHELL DSC** automations.
- Implemented best practices in **AZURE KUBERNATES**.
- Data and Ingestion Validation Architecture definition and delivery of MVP models working with supporting development teams.
- Experience with AWS Core Services: **CloudFormation, EC2, ECS/ Docker, ELB, EMR, ECS, ECR, Code Pipeline, Code Deploy, Code Build, Code Commit / Git, RDS, S3, CloudWatch, Lambda, IAM, DATA LAKE**
- Hands on experience in building & maintaining CI/CD pipeline using GIT, Jenkins, Docker & Kubernetes
- Proven knowledge in Source code management system and Artifactory repositories
- Experience in DevOps tools integration, Jenkins integration with GitHub, Jira workflow management.
- Hands on experience in Kubernetes to orchestrate the deployment, scaling, and management of **Docker** Containers.
- Building/Maintaining Docker container clusters managed by **Kubernetes** using Linux, Bash, GIT, Docker.
- Skilled in Performance monitoring of applications & ensuring effective resource utilization of cloud infra stack.
- An excellent team player with leadership qualities and coordinating abilities with effective communication.
- Profound ability to interface with developers, testers, and other team members to coordinate job tasks.
- Experience of working under cross-cultural and multilingual environments and a quick learner.

## SKILLS

### Technical Skills

- Source Code Management System -> **Git, Git hub, Bitbucket**
- Continuous integration tool -> **Jenkins, MSbuild, Temacity, OctopusDeploy**
- Build and Dependency Management tool -> **Maven, Nutget**
- Configuration Management tool -> **Ansible & Chef**
- Artifact repository -> **Nexus, Jfrog**
- Code quality gate -> **SonarQube, Checkmark**
- Container tool -> **Docker**
- Container Orchestration tool -> **Kubernetes**
- Cloud Vendor -> **AWS, AZURE**
- Cluster Manager -> **Apache Mesos, YARN, Rancher, OpenShift**

- Scripting -> **Bash shell, Python**
- Operating System -> **Linux** (Red hat Enterprises & Ubuntu) **Windows** (Server 2008R2,2012&2012R2)
- Webserver -> **NGINX, Apache Tomcat**
- Load Balancer -> **F5, HA proxy**
- Monitoring Tool -> **Nagios, Icinga, Logicmonitor, ELK**
- Threat management Tools – **Tenable.io, Amazon Guard Duty, Crowd strike,**

## CERTIFICATIONS

- Certified professional in Amazon Web Services (**AWS Certified Solutions Architect**)
- Certified professional in Azure (**70-533** Implementing Microsoft Azure infrastructure solutions)

EDUCATION	UNIVERSITY	INSTITUTION	
BSC /2004-2007	S.V. U	Sarvoda Degree College , Nellore, A.P.India	
INTER/2001-2003		K.A.C. Junior College, Nellore, A.P. India	<b>69 %</b>
SSC/ 2000-2001		Z.P.P. High School, Nellore, A.P. India	<b>55%</b>

## WORK EXPERIENCE

### Altimetrik India Private Limited

Job Profile: DevOps Consultant  
 Team Size: 8, Domain: Healthcare  
 Tenure: (SEP'20 –JAN'21)



### Job Responsibilities

- Worked on AWS Cloud Formation templates to create custom-sized VPC, subnets, EC2 instances, ELB, security groups. Worked on tagging standard for proper identification and ownership of EC2 instances and other AWS Services like CloudFront, CloudWatch, OpsWorks, RDS, ELB, EBS, S3, glacier, Route53, SNS, SQS, KMS, Cloudtrail, IAM.
- Setup and build AWS infrastructure various resources, VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in CloudFormation JSON templates. Implemented local user provisioning instances created in AWS cloud.
- Written Cloud Formation Templates (CFT) in JSON and YAML format to build the AWS services with the paradigm of Infrastructure as a Code.
- Implemented Azure pipelines, defining DevOps strategies, branching merging strategies, shaping up DevOps maturity model for an engagement
- Implemented Azure Kubernetes Services - namespaces, clusters, nodes, different Kubernetes services, mounting files, managing secrets etc.
- Automated Helm charts - packaging the module and deploying through Helm, Helm rollback, Helm versioning, Helm upgrades, managing repositories etc.
- Strong Knowledge of Azure Kubernetes, Azure Containers, Container deployment, Azure Container Images.
- Performing cost analysis of the Azure platform to identify where cost efficiencies could be had
- Good working and hands-on knowledge of Azure IaaS, Vnet, Subnets, Firewalls and NSG. Sound understanding of networking knowledge on DNS and Firewall security
- Experience with agile methods, along with having found their limitations and ways to overcome them.
- -Setting up monitoring tools like AppDynamics.
- Implemented Terraform script to automate AZURE services .
- Developed Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
- Developed Dev, Test and Prod environments of different applications on AWS by provisioning Kubernetes clusters on EC2 instances using Docker, Ruby/Bash, Chef, and Terraform.
- Integrated Docker container orchestration framework using Kubernetes by creating pods, config Maps, deployments.
- Migrated VMWARE VMs to AWS and Managed Services like EC2, S3 Bucket, Route53, ELB, EBS, etc., with Opscode Chef Cookbooks and recipes.

- Experience in setting up CI/CD pipeline integrating various tools with Jenkins to build and run terraform jobs to create infrastructure in AWS.
- AWS EC2, VPC, S3, SNS, Redshift, EMR based infrastructure automation through Terraform, Chef, Python, Bash Scripts and Managing security groups on AWS and custom monitoring using CloudWatch.
- Configured Docker file with different artifacts to make an image and using chef cookbooks deployed those Docker images to different servers for running the applications on containers.
- Created and managed Docker deployment pipeline for custom application images in the cloud using Jenkins.
- Worked on Docker cloud, Docker UCP, Docker compose, Docker Swarm and all Docker images were stored in custom built Docker DTR.
- Established Chef Best practices approaches to systems deployment with tools such as vagrant, berkshelf and test-kitchen and the treatment of each Chef cookbook as a unit of software deployment, independently version controlled.
- Developed Chef Cookbooks, Recipes in Ruby scripts and Resources, run lists, managing Chef Client nodes, and uploading cookbooks to chef-server.
- Managed configurations of multiple servers using Ansible.
- Worked with Ansible Tower to manage Multiple Nodes and Manage Inventory for different Environments and developed Python Modules for Ansible Customizations.
- Automated various infrastructure activities like Continuous Deployment, application server setup, stack monitoring using Ansible playbooks.
- Responsible for maintaining GIT/SVN Repositories, and access control strategies.
- Coordinated and assisted developers with establishing and applying appropriate branching, labelling/naming conventions using Git source control.
- Built scripts using Maven build tools in Jenkins to move from one environment to other environments.
- Maintained build related scripts developed in shell for Maven builds. Created and modified build configuration files including POM.xml.
- Used ANT and Maven as a build tools on java projects for the development of build artifacts on the source code.
- Built Continuous Integration environment Jenkins and Continuous delivery environment. Implementing and managing Jenkins DSL job to automate the new job creation.
- Automation of new job creation by implementing and managing Jenkins DSL. Setup Jenkins master slave architecture to use Jenkins as pipeline as service.
- Jfrog Artifactory Administration.
- Writing automated Unit, integration, Smoke test using – Junit, Mocha, Selenium, Cucumber
- Integrated Maven builds into Jenkins and configure GIT parameterized builds. Also installed many custom plugins along with ANT and Maven plugins.

## TECHWAVE CONSULTING PVT LTD

Job Profile: DevOps Consultant  
 Team Size: 20, Domain: Banking  
 Tenure: (AUG'19 – AUG'20)



### Job Responsibilities

- Managed Cloud Infrastructure administration and IaaS implementation using **Terraform**.
- Involved in **CI/CD** Pipeline orchestration and workflow management using **Jenkins**.
- Implemented **Monolithic architecture to Microservices** using **Docker** and **Kubernetes**.
- Implemented **AZURE DEVOPS** pipelines for production environment.
- Implemented **Azure Traffic Manager** to support multi-region deployment for **AZURE AKS DR**.
- Implemented **Azure CNI** networking in blue green **AKS cluster**.
- Implemented **Kubernetes RBAC** with **Azure AD**.
- Deploy **kured** in an **AKS cluster** to archive "0" downtime.
- Worked on resource limits and resource requests across **AZURE cloud**.
- Worked in Secure **AKS application** traffic via Application Gateway with **Web Application Firewall (WAF)**
- Implemented Multibranch Pipelines and Parameterized Pipelines, Parallel build in Jenkins.
- Environment provisioning, Automation, and migration activities for mission critical workloads.
- Implemented **Test Driven Deployment** in Dev, QA, Prod environment.
- Implemented automated Configuration management with **Ansible** in Production Environment.
- Implemented service discovery, health checks, load balancing, a service graph, mutual TLS identity enforcement,

and a configuration key-value store using **Hashi Corp Consul** and **Vault**.

- Automate creation of any type of machine Golden AMI image using **Packer**.
- Implemented best security practices **SecOps** following **CIS benchmark and HIPAA** standees.
- Implemented **Blue-green Deployment** strategy in Production Environment using **Kubernetes**.
- Responsible to Build, maintain, and monitor configuration standards (GITOPS).
- Design procedures for system troubleshooting and maintenance, perform root cause analysis for production errors, Investigate and resolve technical issues.
- Provide technical guidance and educate team members and coworkers on development and operations, Brainstorm for new ideas and ways to improvement development delivery.
- Implemented reusable terraform modules in AWS services like **VPC, EC2, S3, IAM, EBS, Glacier, RDS, Cloud Watch, SNS, Cloud Trail, Load Balancer, AutoScaling, Lambda, CloudFormation** (Infra as a code).
- Worked on **Hadoop migration** onto **AWS EMR with** Forklift migration approach.
- **AWS Data Lake** automation done for backup,deploy, transfer data, test.

## SUNERA TECHNOLOGIES PVT LTD

JobProfile:DevOpsLead

Team Size: 35, Domain: Telecom

Tenure: (AUG'18 – till JULY'19)



### Job Responsibilities

- Manage and maintain CI/CD pipeline set up of multiple Development teams.
- Worked in **Microsoft Assessment and Planning (MAP)** Toolkit in Migrations.
- Worked on **Lift and Shift Migration** approach in Azure migration.
- Worked on **Azure Site Recovery Capacity Planner tool**.
- Implemented Configure, Govern, Security, Protection, Monitoring of the Optimize the Azure cloud environments.
- Implemented **Hybrid Runbook Workers** for Azure **Automation** allows to run runbooks on machines located in your data center to manage local resources.
- Implemented **Azure PowerShell DSC Automation Runbooks** work with Web Apps in Azure App Service, Azure Virtual Machines, Azure Storage, Azure SQL Database, and other popular Azure services
- Management of Azure subscriptions and resources
- Implementation and management of storage solutions
- Deployment and managing virtual machines (VMs)
- Configuration and management of virtual networks
- Identity management
- Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
- Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
- Exposed Virtual machines and cloud services in the VNets to the Internet using Azure External Load Balancer.
- Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
- Implemented high availability with Azure Resource Manager deployment models.
- Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
- Setup Azure Virtual Appliances (VMs) to meet security requirements as software based appliance functions (firewall, WAN optimization and intrusion detections).
- Leveraged VNET system routes and underlying route table that holds Local VNet Rules, On-premise Rules, Internet Rules and IP Forwarding as design basis.
- Designed User Defined Routes with custom route tables for specific cases to force tunneling to the Internet via on premise network and control use of virtual appliances in the customer's Azure environment.
- Associated routes with VNets via the route table per relationship constraints.
- Implemented AKS Cluster blue-green deployment.
- Managed IP Forwarding for VMs and role instances acting as virtual appliances.
- Experience in **ALM** (Application Lifecycle Management) tool integrated with various internal tools for application

build, deploy and monitoring.

- Implemented Terraform reusable modules and terraform lock and worked with terraform workspaces to improve centralized management Infra automation.
- Implemented microservices for Spring boot applications automated CICD pipeline through **Jenkins**.
- Responsible for Proactive monitoring & managing of application services in High Availability
- Helping Dev community in implementing the best practices in various DevOps phases from SCM to Delivery, in QA & Production environments. Handle code deployments in all environments from Test, Pre-Prod, UAT & LIVE
- Used Kubernetes to orchestrate the deployment, scaling, and management of **Docker** Containers.
- Building/Maintaining **Docker container clusters** managed by **Kubernetes** Linux, Bash, GIT, Docker.
- Build and test automation tools for infrastructure provisioning using CloudFormation (**IaC**).
- Experience in various Deployment strategies in QA & production.
- Experience with continuous integration tool **Jenkins** and integrating it with GitHub with webhook configuration. for automatic build trigger with every GitHub commit.
- Implement customer integrations, build tools to reduce occurrences of errors and improve customer experience.
- Developed scripts to automate visualization, create self-healing monitoring architecture, monitor metrics, and develop ways to improve.
- Handled L2 and L3 technical support on Build, Deploy and configuration management using **Ansible**
- Designed cost effective, fault tolerant and highly available systems.
- Consult with peers and work closely with multiple agile development teams for feedback during testing stages.
- Implemented **ELK** setup in production environment.
- Implemented **Rancher** in Production environment to manage Kubernetes clusters.
- Hands on experience in using AWS services like **VPC, EC2, S3, IAM, EBS, Glacier, RDS, Cloud Watch, SNS, Cloud Trail, Load Balancer, Auto Scaling, Lambda, CloudFormation** (Infra as a code).
- Worked on **AWS DATA LAKE** setup and configurations and automations.

## VISUAL BI TECHNOLOGY PVT LTD

JobProfile: DevOps-Build&Release

Team Size: 40, Domain: Cloud

Tenure: (OCT'14 – till MAY'18)



### Job Responsibilities

- Led implementation of Office 365 and Azure Active Directory for single sign on, authentication, authorization, and Azure Role-based Access Control (RBAC).
- Installed, configured, administered, monitored Azure, IAAS and PAAS, Azure AD.
- Used Windows Azure portal to manage Virtual Network and Traffic Manager
- Created, managed, monitored VM using Windows Azure portal admin
- Created, managed, monitored Web site using Windows Azure portal admin
- Used Azure BLOB to access required files and Azure Storage Queues to communicate between related processes.
- Implemented **AZURE DevOps** pipelines for .net applications.
- Designed and developed standalone data migration applications to retrieve and populate data from Azure Table / BLOB storage to on premise SQL Server instances.
- Smoothly created pre-production environments and manage the portion of traffic going to them. Debug in the cloud when needed and roll back if issues are found.
- Azure Network Configuration - Created resource groups using resource manager which allow to see cost/billing and monitoring information for resources within a resource group and manage access to those resources as a set for individual customer.
- Attend ongoing client meetings to introduce and answer Azure PAAS and IAAS questions as they arise, covering important application migration considerations and options.
- Served as process owner under an Agile Scrum project implementation, leading session for sprint planning, sprint review and sprint retrospective meetings.
- Managed AWS Cloud Infrastructure & contributed in implementing the best practices.
- Involved in code release deployments as **Release Manager** and working on **Jenkins**.

- Involved in automation of routine tasks using shell & **Groovy scripting** to write Jenkin pipelines.
- Hands on experience in using AWS services like **VPC, EC2, S3, IAM, EBS, Glacier, RDS, Cloud Watch, SNS, Cloud Trail, Load Balancer, Auto Scaling, Lambda, CloudFormation** (Infra as a code).
- Implemented DevOps Toolchain setup for a monolithic application using DevOps Tools like GIT, Jenkins.
- Created and Managed **Docker and Kubernetes** containers in Dev and QA.
- Written **CHEF cookbooks** & managed automations for continuous code deployment.
- Experience in RHEL migration activities. Managed file systems and disks using LVM, etc.
- Done Automations using shell scripts with AWS CLI to manage AWS resources for cost optimization in EC2, and S3 operations say snapshot & AMI creation and deletion, Cloud watch alarm management & other sysadmin tasks.
- Experience in Axway - Cross File Transfer (CFT) to facilitate secure data transfer to the client network.
- Maintaining & managing Backup strategy for application & databases in Production.
- Troubleshoot day to day Cloud Infrastructure issues like disk space, memory, CPU etc.
- Respond to production issues as per SLA. Experience in Application & Production Support.
- Disk management, backups and restores using third party software.
- Worked on various Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
- Used Maven as a build tools on java projects for the development of build artifacts on the source code.
- Created build/deploy documentation in confluence for various applications.
- Documented project's software release management procedures with input decisions.
- Implemented Ansible Playbooks to manage the configuration files and to manage them as services.
- Created views and appropriate meta-data, performed merges, and executed builds on a pool of dedicated build machines.
- Designed workflows, screens, field configurations and components as part of Projects definition for JIRA as an administrator.

## KANSAS IT SOLUTIONS PRIVATE LIMITED

JobProfile: Build&Release-Engineer

Team Size: 80, Domain: Healthcare

Tenure: (AUG'08 – till SEP'14)

### Job Responsibilities

- Collaborated with QA and Development organizations to identify needs and establish priorities
- Automated the build process in order to streamline the multi-platform (RFID products) build process and eliminate build errors; developed automated sanity testing after each build.
- Clearly documented the build process and the subsequent changes
- Troubleshooting build breakages in a timely manner
- Strong hardware knowledge (Configuration and Management)
- Working on Windows PowerShell scripting, SCCM, WSUS
- Working on of VMware infrastructure
- Working on VMware vSphere (ESXi and vCenter)
- Working on Redhat Linux, Ubuntu, Centos, Windows 2003,2008, GPO and ACL for build activities.
- Strong implementation knowledge of Hyper-V and SCVMM
- Ability to translate technical issues into understandable business language for end users
- Designing and developing new methods for improving the development environment
- Troubleshooting tools and setting up of build servers
- Generated packages for multiple OS, DB and web servers
- Created scripts that automate or improve the builds for all client side platforms – iOS, Android, Windows, and Mac using Git and Jenkins, among other tools.
- Created and documented processes to automate unit testing, building and delivering to HockeyApp, iTunes Connect, and TestFlight for QA.

