


# NARENDRA K

Senior Professional

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- Having 5+ years of competitive experience in IT industry in DevOps Methodology, **Container-Orchestration** (Kubernetes), **Containerization**, **Virtualization**, **Build Engineering**, **Configuration Management**, IAAS, PAAS, Cloud Native & Micro services, Cloud Computing Technologies, Production Delivery, Automation and Cloud Administration.
- Having good hands-on experience with **Kubernetes (On AWS EKS, Azure AKS & On-Premise)**, OWASP, Docker, Open stack, Jenkins, AWS (EC2, VPC, S3, Glacier, Cloud Watch, Cloud Trail, Cloud Front, IAM, Lambda, ElasticSearch, ElastiCache, RDS, ELB, Elastic Beanstalk etc), AWS Account Migration, Istio (Service-Mesh, Network routing), SaltStack, Terraform, Prometheus, Grafana, Influx DB, Dynatrace, Logstash, Superset cluster, PM2, NodeJS, Redis, Keepalive, PostgreSQL On-Premise Cluster, MySQL, Shell Scripting, Test Link, Pingdom, Uptime Robot, Mantis, GIT, Bitbucket, VMWare and Hypervisor, Super micro servers, FortiGate firewall etc.
- Played a key role in automating the deployments on AWS using **GitHub, Terraform, Ansible** and **Jenkins**
- Well experience of working in both software as platform and software as service under complete SDLC and STLC which involves infrastructure & security design, end to end **platform setup, cost optimization, benchmarking, SOC Audits**, AWS Partner Network, complete monitoring and **alerting setup** (Voice Call, SMS & Mail), POC Setups, technical aspects in RFP, client meetings for understanding infra requirements, creating application architecture, cloud & on-premise setups, collaboratively working with development & testing teams, SLA & Infra documents preparation, presentations, downtime less production releases, production issue analysis, reporting, production servers **maintenance, deployments, monitoring** and **production failure alerting**.
- Extensive experience in setting up the **CI/CD pipelines** using **Jenkins** for the **infrastructure automation**
- Groovy and multi pipeline branching strategy. Complete end to end infrastructure automation using the **Jenkins** by using the **different plugins**.
- Good hands on in **Devops tools** and **AWS cloud**. Worked in various projects and built the infrastructure from scratch.
- Good hands in dealing with code issues by collaborating with respected dev team and maintaining the code pipelines for the build purpose. Also involved in troubleshooting the build related issues which had the configuration dependencies from the Devops Team.
- Good hands on in setting up the automated build pipelines using Jenkins and also good at writing the groovy files to automate the things. Complete understanding on CICD process to produce the validated builds to the prod environments.
- Used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker Containers**.
- Good hands on with Docker for automating the pipelines in Jenkins to run the applications on the top of the containers. Taken care in handling the all the issues related to docker containers like building new images as per the requirement, modifying the changes to running container, uploading the images from build pipelines using scripts inside the **Jenkins files**, maintaining the **ECR artifactory** for the images etc.,
- Good hands-on experience **Linux Administration** to troubleshoot the prod and QA issues on the app servers, also written many automations for backups and scripts for automation using bash.
- Good hands on with **Ansible** in deploying the artifacts and running the scripts for remote servers. Handling Inventory and applying the changes accordingly. Also used Boto3 modules to provision the **AWS infra** using the templates.
- Proficient in AWS services like **VPC, EC2, S3, ELB, Autoscaling Groups (ASG), EBS, RDS, IAM, Cloud Formation, Route 53, CloudWatch, CloudFront**.
- Experienced in creating multiple VPC's and public, private subnets as per requirement and distributed them as groups into various **availability zones** of the VPC.
- Good hands on with incident management using **ServiceNow** and good hands-on experience with Incident handling and implementing them and resolving them as per SLA.
- Qualitative experience with Application Server Configuration and Management **Apache Tomcat Servers**

## Core Competencies

### Kubernetes

Docker Containerization

Automation with CI/CD tools

### Project Management

Incident/ Change Management

Cross-functional Coordination

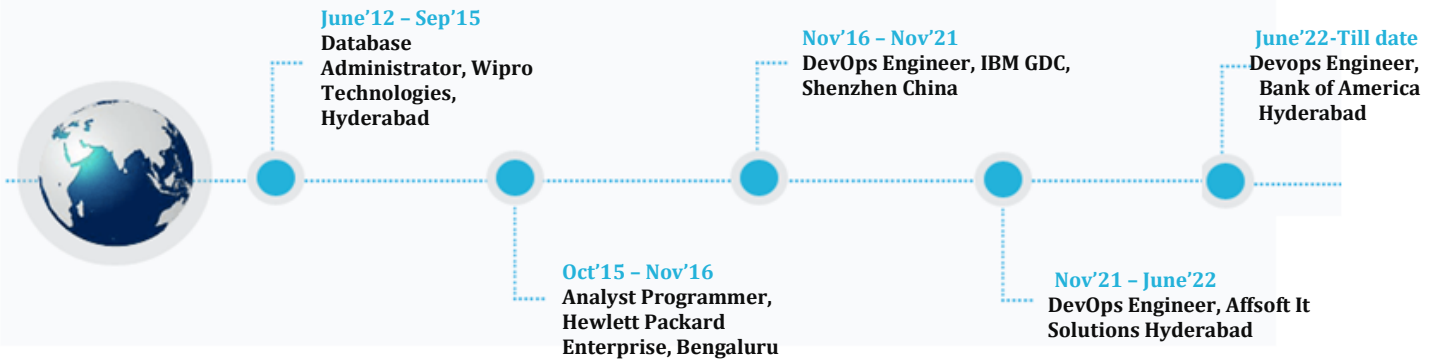
### Database Administration

Infra Setup/Enhancements

Team Building & Leadership



## Career Timeline



## Work Experience

DevOps Engineer, Bank of America, Hyderabad	June'22 – Till Date
DevOps Engineer, Affsoft IT Solutions, Hyderabad	Nov'21 – June'22
DevOps Engineer, IBM GDC, China	Nov'16 – Nov'21
Analyst Programmer, Hewlett Packard Enterprise, Bengaluru	Oct'15 – Nov'16
Database Admin, Wipro Technologies, Hyderabad	June'12 – Sep'15



## Certification:

- ▶ Azure Database Administrator Associate

### Devops Responsibilities:

- ▶ Single-handedly created Kubernetes Setup on Azure and AWS from scratch for PROD, DR, UAT and QA. Implemented ISTIO for effective network management and visualization. Done Calico implementation for secured network policies. Templatised platform components for easy image building. Made Kubernetes deployment single button click by integrating Jenkins
- ▶ Created highly available, auto-scaling and secured Kubernetes infrastructure using AWS ELB, Autoscaling Groups, Private Subnets, Bastion servers, MFA authentications, Defined User Access, Hardened Security Groups and IP Blocking. Made Kubernetes access, application calls and Database (RDS, ElastiCache and ElasticSearch) access completely private via private network.
- ▶ AWS clean-up, Cost optimization & Effective resource utilization by implementing right resource for right usage.
- ▶ Implemented cronjobs for S3bucket backups and RDS backups. Created logging setup using Logstash and integrated superset cluster with application for graph visualization.
- ▶ Handling Build and Deployment process for Java based applications.
- ▶ Perform deployments to multiple environments like Dev, QA, and UAT environments.
- ▶ Configured Jenkins Jobs for generating Project artifacts.
- ▶ Installed and Configured the Nexus repository manage for sharing the Artifacts within the organization.
- ▶ Scheduling the Jenkins Jobs using build triggers.
- ▶ Responsible for taking the source code and compiling using Maven and package it in its distributable format, such as a JAR/WAR. Perform Build activities using Maven and Jenkins tool.
- ▶ Automate the build Process Using Jenkins jobs.
- ▶ Handle multiple builds from Development team, create build jobs in Jenkins and perform deployment activities.
- ▶ Converted and automated builds using Maven. Scheduled automated nightly builds using Subversion. Maintained Continuous integration effort with Subversion along with scheduled builds.
- ▶ Monitoring daily builds using continuous integration tool Jenkins.
- ▶ Setup the Nexus Repository for deploy the artifacts.
- ▶ Troubleshooting application related issues and providing logs to developers for further investigation.
- ▶ Helping testing team by making sure that all the back-end jobs work effectively at the time of QA and UAT.
- ▶ Writing and maintaining scripts to automate daily and manual procedures.
- ▶ Automated build and deployment using Jenkins to reduce human error and speed up production processes.
- ▶ Creating the Dockerfile as per requirement and building the custom Docker images from Dockerfile.
- ▶ Creating the Docker container from Docker images maintain them accordingly.

## Projects

**Project Name:** Bank of America  
**Designation:** Software Engineer  
**Team Size:** 32  
**Period:** July'22 – Till date

**Project Name:** Tactacam: USA (Minnesota)  
**Designation:** Sr Devops Engineer  
**Technical Work** Infrastructure & Security Design End to End Infra Setup/Enhancements on AWS Cloud, DR, Deployments, Monitoring & Alerting, Benchmarking, Maintenance, Production Issues, Load Balancing and High Availability.  
**Team Size:** 1  
**Period:** Nov'21 – Jul'22

### Responsibilities:

- Operated on Jenkins by installing, configuring and maintaining for continuous integration (CI) and for end-to-end automation for all build and deployments
- Migrated whole setup from native services on EC2 to dockerized services on EC2 instances from scratch for PROD, DR, UAT and QA. And automated deployments via one-click using Jenkins and Terraform templates.
- Complete Kubernetes and application monitoring with dedicated dashboards for production namespaces which include pods count, network transmit & receive, CPU usage, memory usage, persistent volume, Istio service monitoring etc using Grafana (Graphical View), Prometheus (Data Source), Kiali (Packets Flows) and Jeagar (API Tracing). Implemented Voice Call, Email & SMS alerts using UptimeRobot.
- Took initiatives in designing and architecting infrastructure to be cost effective, secured, robust, highly available and reliable.
- Complete migration of AWS resources from one account to other which includes Route53, domain hosting service, CDN, RDS, ELB, ElasticSearch, Kube Configurations, Lambda functions with minimal downtime to production applications and website.
- Implemented cronjobs for S3bucket backups and RDS backups. Created logging setup using Logstash and integrated superset cluster with application for graph visualization.
- Setting up superset cluster by enabling auto-scaling with AWS ELB, integrating with AWS RDS and AWS ElastiCache for stability and high availability.
- Performed benchmarking for the new platform and created multiple documents for resource sizing, security measures, networking strategy, load balancing, scaling and DR strategies based on RTO & RPO requirements of clients.
- Managed ad hoc commands and creation of roles in Ansible for reusability and scalability
- Used performance monitor/profiler and other monitoring tools

**Role:** DevOps Engineer  
**Technical Work** Infrastructure & Security Design, End to End Infra Setup/Enhancements on Kubernetes, DR, Deployments, Monitoring & Alerting, Benchmarking, Maintenance, Production Issues, Load Balancing and High Availability  
**Technologies:** Git, Jenkins, Maven, Ansible, Docker Kubernetes (AWS EKS, Azure AKS), Istio, Calico, AWS (EC2, VPC, S3, CloudWatch, Trail, ElastiCache, ElasticSearch, Lambda, Route53, RDS, ELB, CDN), Jenkins, Shell Script, Logstash, Prometheus, Superset, Uptime Robot, Influx, Grafana MFA (Google Authenticator), IP Blocking  
**Team Size:** 6  
**Period:** Nov'16 – Nov'21

### Responsibilities:

- Maintaining GIT repositories, administering releases and branching activities for GIT
- Single-handedly created Kubernetes Setup on Azure and AWS from scratch for PROD, DR, UAT and QA. Implemented ISTIO for effective network management and visualization. Done Calico implementation for secured network policies. Templatised platform components for easy image building. Made Kubernetes deployment single button click by integrating Jenkins.
- Created highly available, auto-scaling and secured Kubernetes infrastructure using AWS ELB, Autoscaling Groups, Private Subnets, Bastion servers, MFA authentications, Defined User Access, Hardened Security Groups and IP Blocking. Made Kubernetes access, application calls and Database (RDS, ElastiCache and ElasticSearch) access completely private via private network.

- Supervising build and deployment process for Java based applications
- Performing deployments to multiple environments such as Dev, QA and UAT environments
- Configuring Jenkins jobs for generating project artifacts; scheduling the Jenkins Jobs using build triggers
- Installing & configuring Nexus Repository Manage for sharing the artifacts within the organization
- Acquiring source code and compiling using Maven and packaging that same in distributable format, such as a JAR/ WAR
- Managing multiple builds from Development Team, creating build jobs in Jenkins and performing deployment activities
- Automating build process using Jenkins jobs
- Converting & automating builds using Maven, scheduling automated nightly builds using Subversion
- Monitoring daily builds using continuous integration tool Jenkins; maintaining continuous integration effort with subversion along with scheduled builds
- Working towards nightly builds and build setup using Jenkins
- Keeping track of all the script dates wise on a daily basis
- Establishing the Nexus Repository for deploying the artifacts
- Executing deployment of war files in Tomcat application servers using Ansible
- Troubleshooting application related issues and providing logs to developers for further investigation
- Automating build and deployment using Jenkins to reduce human error and speed up production processes
- Verifying the logs if build fails; documenting all the build and deployment related issues
- Facilitating Testing Team by ensuring that all back-end jobs work effectively at the time of QA and UAT
- Writing and maintaining scripts to automate daily and manual procedures
- Functioning towards configuring Ansible and working on playbooks
- Writing Ansible playbooks for installing the packages, services in Linux Machines and configuring, updating the same
- Developing Dockerfile as per requirement and building the Custom Docker Images from Dockerfile
- Maintaining & monitoring requests to CloudFront

**Project Name:** Deutsche Bank (Frankfurt)  
**Designation:** ITO Service Delivery Consultant  
**Team Size:** 10  
**Period:** Sep'15 – Nov'16

#### Responsibilities:

- Creating servers as per the application requirement in AWS cloud. Assigning VPC and creating new VPC's as per the requirement.
- Build creation for all sub products in Windows, Linux and Mac operating systems.
- Automated build creation process with Jenkins. Automation process includes code compilation, builds creation, builds signing, builds upload to local server and email notification in both build success and failure cases with proper log attached.
- Created script to track changes between previous build and current build using Perl script.
- Developed documentation regarding build automation process and took presentation for various development and testing teams to use the process effectively.
- Prepare unit test case scenarios and perform unit test cases to provide quality to the code.
- Work with management and development team to get proper requirement regarding changes in build and develop the build code to meet the requirements.
- Monitoring the servers on daily basis to minimize the server issues like CPU issues, Memory issues and used to automate them by using log rotation according to log policies and reducing the server issues.
- Maintaining GitHub branches for the build and release purpose. And also used to create the branches according to the development.
- Reporting on issues to the Team Lead in scrum meeting to update the issues related to infra and resolving them according to SLA.
- Good hands on ITIL process experience, complete flow analysis and creating the SOPs according to severity of the issues on daily basis. Also involved in Creating the incident, Service requests and resolving them on priority basis.
- Analysing on issues related to PROD, QA and UAT and resolving them as per SLA.

**Project Name:** First Merchants Corp (United States)  
**Designation:** Analyst Programmer  
**Role:** Sybase & SQL DBA  
**Technologies:** ASE 12.X.X, 15.X.X SQL Server 2000/2005/2008/2008R2 and 2012 Versions  
**Operating Systems:** Sun Solaris 5.8, 5.9, 5.10, UNIX, Windows 2003/2008  
**Team Size:** 9  
**Period:** June'12 – Oct'15

## DB Admin Responsibilities:

- ▶ Working on production, development and UAT servers, ensure availability of production databases to end-users and development database to developers in a 24x7 environment.
- ▶ Working on major server builds, Managing database consistency checks and other scheduled maintenance jobs for the weekend
- ▶ Troubleshooting the daily development/QA/production problems.
- ▶ Maintenance of development/QA/production Databases.
- ▶ Monitoring and fine-tuning systems (It includes OS Tuning, Network Tuning, Database Tuning, ASE Tuning, Memory Tuning and Query Tuning) to support Online (OLTP) Users, Trading and daily reports for better performance.
- ▶ Installing Adaptive Server and Backup Server and Managing the jobs running on the various servers.
- ▶ Establishing connectivity between clients and servers
- ▶ Creating and Maintaining user databases and backing up and restoring databases
- ▶ Managing and monitoring the use of disk space, memory, and connections
- ▶ Diagnosing system problems & troubleshooting
- ▶ Providing 24/7 On-Call support critical production databases
- ▶ Refreshes from Production backup to Test and Development environments
- ▶ Scheduling backups and other maintenance tasks using scheduled jobs
- ▶ Experience in installation and configuration of MS SQL Server 2000/2005/2008/2008R2 and 2012 versions.
- ▶ Expert in Database Backup, Recovery and Disaster Recovery procedures.
- ▶ Performance Tuning, Query Optimization, Client/Server Connectivity, Database consistency checks using DBCC Utilities.
- ▶ Hands on experience in the Migration of SQL Server 2000 databases to SQL Server 2005.And Migration of SQL Server 2005 databases to SQL Server 2008
- ▶ Used Performance Monitor/Profiler and other Monitoring tools.
- ▶ Administered, maintained and implemented Standard Operating Procedures for ensuring the security and integrity of the company database SQL server authentication, server roles, database roles and permissions

## Personal Details

**Languages Known:** English and Telugu  
**Address:** Hyderabad, INDIA

## DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and belief

Place: Hyderabad  
Date:

Signature

NARENDRA K