

## CHITTIBABU BOYA

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### Professional Summary:

- Certified CKA, CKS, CKAD(Kubernetes), Terraform, AWS CSA, CCNA and RedHat IT professional with over 15+ years of experience as a DevOps Engineer, SRE, Cloud Architect and System Admin.
- More than 5+ years of experience in container orchestration using Kubernetes, Docker Swarm, AWS EKS..etc.
- Over 7+ years of experience in IaC(Infrastructure as Code) with the help of Terraform, AWS CloudFormation.
- Configuration Management using Ansible and Chef, Excellent knowledge on programming & scripting languages of Python and Bash.
- Over 5+ years of experience in defining/executing AWS Cloud-based large solutions.
- Expert in migrating on-Prem and legacy applications to cloud platforms by considering Resilience, High Availability, Security and Cost optimisation.
- Expert in designing and developing CI/CD solutions with any given industry standard tools like Github Actions, Jenkins, ArgoCD..etc
- Expertise in all phases of Software Development Life Cycle (SDLC) including system analysis, requirement gathering/specification, designing, deploying, developing, installing and configuration
- Adept in the entire gamut of AWS, Azure Cloud Technology, Linux Administration and DevOps Engineer
- Technically competent in creating/designing AWS users, groups, credentials, and profiles with AWS IAM Security Groups and executing AWS solutions by utilizing EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups and Route 53
- Dexterous in branching, tagging and maintaining versions across the environments by utilizing SCM tools like GIT, and Subversion (SVN)
- Highly energetic and enthusiastic in learning and implementing innovative technologies and methods

### Work Experience

- I am currently working as a **DevOps Engineer** at **3K Technologies LLC**, California, USA, since April 2022.
- Worked as a **Cloud Architect** at **3K Softech Pvt Ltd.**, Bengaluru, from August 2019 to April 2022.
- Worked as a **Technical Lead** at **Quest Global Ltd.**, Bengaluru, from August 2016 to August 2019.
- Worked as a **System Admin** at **Bristlecone India Pvt Ltd.**, Bengaluru, from Mar 2015 to August 2016.
- Worked as a **Senior Operations Engineer** at **OnMobile Global Ltd.**, Bengaluru, from November 2008 to March 2015.

### Technical Skills:

<b>Private/Public Cloud:</b>	AWS, OpenStack, RackSpace, Azure
<b>CI Tools:</b>	Jenkins and TeamCity
<b>Monitoring Tools:</b>	Datadog, Nagios, Zabbix, Pingdom
<b>Caching Tool:</b>	Memcache
<b>Code Versioning Tools:</b>	GIT, SVN
<b>Project Management Tools:</b>	Jira, confluence
<b>Infrastructure Automation tools:</b>	Terraform, Cloudformation, Ansible and Chef
<b>Container Technology:</b>	Docker, Kubernetes
<b>Logging and Analytics:</b>	Elastic Search, Logstash, Kibana, Splunk
<b>Artifact Repository:</b>	JFrog, Nexus and Maven
<b>Databases:</b>	PostgreSQL, Oracle, MySql and Maria DB
<b>Application/Web Servers:</b>	Tomcat-7, Jboss-7.x, Apache(httpd), Ngnix and GlassFish
<b>Operating Systems:</b>	Windows and Linux

### Projects:

**Project:** Roche Diagnostics (3K Technologies LLC.,)

**Description:**

Roche Diagnostics Develops, manufactures, and markets instrument reagent systems that automate tissue and slide staining in anatomic pathology laboratories. These products assist in the diagnosis and treatment of cancer and infectious diseases. As a cloud architect, we deliver services to host tissue analysis supported software's on AWS cloud platform.

**Responsibilities:**

- Automating all the major AWS services provisioning using CloudFormation templates. With one-click Resources provisioning using Nested template concepts and eliminating manual intervention to the minimal.
- Utilizing CloudFormation templates to automate entire AWS services provisioning and one-click resource provisioning with Nested template concepts
- Migrating/maintaining build and test environments into the AWS cloud infrastructure and transferred local server infrastructure into AWS including test/development environments
- Key role involvement in defining AWS Security-Groups like virtual firewalls that controlled the traffic flow to AWS EC2 instances and utilizing CloudWatch for generating monitors, alarms, and notifications for EC2 instances
- Configuring Elastic IP/Elastic storage, EBS, FSX, CloudFront and Microsoft AD also supporting AWS Cloud environment with 100+ AWS EC2 instances
- Creating and managing AWS users/groups with IAM, designing user's credentials/ profiles with AWS IAM and executing AWS solutions by utilizing EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups and Route 53
- Preparing customized policy documents, roles, assume roles, cross-account access policies and setting up API gateway, load balancers, target groups, autoscaling so on...

Software & Tools Used: AWS, BitBucket, Jenkins, Jira, JFrog, SumoLogic, Sysdig, Dome9.

**Project: Apple Inc., Radar Bug tracking tool (Quest Global Ltd.,)****Description:**

Radar is a developer's Bug/Issue tracking Apple's internal tool like JIRA, Radar tool used across all the project teams for managing and keep tracking of all the issues and new features requests. As a DevOps Engineer, we take care of hosting platforms, building, Integrating and deploying business solutions for all the Prod and Non-Prod environments on different platforms like On-Premises datacentres and Public Cloud Platforms.

**Responsibilities:**

- Played a vital role as an Architect to manage the client expectations, client issues, also supported business development operations, and pre-sales activities including demo, PoC and writing proposals
  - Executed centralized logging using Elasticsearch, Logstash, Kibana (ELK) and added Redis in between client and server Logstash nodes for caching/persistence to enable real-time online updates to the Logstash configuration
  - Involved in setting up Ansible Tower for scheduling playbooks, writing playbooks, defining inventory, dynamic inventory and integrating with Cloud Compute Instances and GIT for Playbooks versioning Management to track changes in Playbook
  - Configured Azure Virtual Networks (VNETs), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies, routing and deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNETs & subnets
  - Defined Virtual machines/cloud services in the VNETs to the Internet using Azure External Load Balancer and designed VNETs/subscriptions to conform to Azure Network Limits
  - Installed/configured application on AWS EC2 instances, created AWS Machine Images (AMI) and set-up databases in AWS using RDS, storage by S3 buckets and configured instance backups to S3 bucket
  - Provided support on setting up AWS environment, adding a port to security groups, NACLs to VPC and utilized AWS-CLI to suspend an AWS Lambda function and automate backups of S3 buckets & EBS
- Software & Tools Used: AWS, GitLab, SourceTree, Ansible, Jenkins, Linux and Apple Native tools.

**Project: SAP SuccessFactors (Bristlecone India Pvt Ltd.,)****Description:**

SAP SuccessFactors is the global provider of cloud-based Human Capital Management Software. Human capital management application suite integrates Onboarding, social business and collaboration tools, a learning management system (LMS), performance management, recruiting software, applicant tracking software, succession planning, talent management, and HR analytics to deliver business strategy alignment, team execution, and maximum people performance to organizations of all sizes across more than 60 industries.

**Responsibilities:**

- Played a vital role as a Cloud Engineer to maintain/monitor regular operations, developed cloud formation scripts to automate EC2 instances, created cloud formation templates and deployed AWS resources
  - Provided opportunity for IaaS VMs & PaaS role instances to access from other services in the VNet with Azure Internal Load Balancer and execute high availability with Azure Classic and Azure Resource Manager deployment models
  - Proactively worked on Jenkins for continuous Integration (CI), end-to-end automation and integrated GIT into the CI environment along with Jenkins and subversion
  - Responsible for designing Network Security Groups (NSGs) to control inbound/ outbound access, network interfaces (NICs), VMs and subnets and Setup Azure Virtual Appliances (VMs) to attain security requirements as per software-based appliance functions (firewall, WAN optimization and intrusion detections)
  - Configured Elastic Load Balancer (ELB), Virtual Private Cloud (VPC), Load Balancer/ Auto Scaling Group also created Elastic IPs for attaching and detaching to instances as per client request
  - Utilized NSGs for layer 4 Access Control List (ACLs) and worked on multiple AWS instances to set the security groups, elastic load balancer/AMIs and auto-scaling to design cost-effective, fault-tolerant and highly available systems
- Software & Tools Used: **RackSpace Cloud**, Chef, Ruby, Jira, Jenkins, Windows, Linux and SAP Native tools.

**Project : Mobile VAS Applications (OnMobile Global Ltd.,)****Description :**

OnMobile is a pioneer in mobile entertainment for carriers across the globe. As a mobile entertainment service specialist in emerging and high-growth markets, over 1.5 billion mobile users in 74 countries use OnMobile services every month.

**Responsibilities:**

- Installed/configured HP-Chassis, rack servers, blade servers, operating system, hosting applications, routers, and switches
- Configured NetApp, RedHat cluster suite and created aggregates, NFS/CIFS volumes and ISCSI Volumes
- Automated daily tasks using shell scripts, applied monthly/weekly patches for applications and tested application behavior post-deployment
- Handled source code repository in GIT, developed best practices of branching/code merge to custom the requirements of team development and involved in build, release and CI process
- Collaborated with software engineers to develop supporting tools and deployed Apache servers to run web applications
- Executed chef cookbooks for OS component configuration to maintain AWS server and performed day-to-day system/application sanity check
- Involved in FTP server creation, troubleshooting, package management, maintained onsite servers and updated daily sanity checklist, acceptance Test & Site Handover to the local operations engineer

Software & Tools Used: Jira, Jenkins, Git, Shell Script, Windows & Linux

**EDUCATION:**

Master of Computer Applications - 2022

Bachelor of Commerce (B.com.) - 2005

**Certifications:**

- Certified Terraform Associate (**HCTA0-003**), Mar 2024
- Certified Kubernetes Application Developer (**CKAD, CKA & CKS**), Jun 2022
- Amazon Web Services Certified Solutions Architect (**AWS-CSA**), April 2017
- RedHat Certified Engineer (**RHCE**) Certification, Dec 2011
- Cisco Certified Network Associate (**CCNA**) Certification, Sep 2007
- Microsoft Certified Professional (**MCP**), June 2007
- Hardware and Networking Certified Professional, Jetking, Feb 2006