

Narasimha

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PROFESSIONAL SUMMARY

Over 9 years of extensive IT experience in software integration, Linux administration, and cloud services, with a focus on DevOps, SRE, and Cloud Operations.

- Good knowledge and experience in multi-cloud platforms which includes **AWS, Azure, GCP, DigitalOcean** and **Hetzner** cloud.
- Experience in AWS Cloud Computing Services such as **EC2, S3, EBS, EFS, VPC, ELB, ECS, IAM, Cloud Trail, CloudFront, Cloud Formation, Elastic cache, Cloud Watch, Lambda, SQS, SNS, RDS, AWS Security Hub, AWS config, DynamoDB, Route53** and **managing security groups**.
- Extensive involvement in **LINUX/UNIX** system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, and Troubleshooting.
- Designed **AWS Cloud Formation** templates to create custom sized VPC, Subnets, **NAT** to ensure successful deployment of Web applications and **database** templates and expertise in architecting secure VPC Solutions in AWS with the help of Network ACLs, Security groups, and public and private network configurations.
- Provided release engineering support and Automated **Fortify/ BlackDuck/Sonar/Preloads** as part of DevOps strategy that Improves **build-test-release** process through automation and productivity tools developments.
- Experience in branching, merging, tagging, and maintaining the version across the environments using version control tools such as **GIT, GitHub** and **GitLab**.
- Proficient in building deployable **Artifacts** (War, Jar, Ear, Zip, Tar) from source code and maintained by using Maven (Pom.xml), Ant (Build.xml) and Gradle (Build.gradle) and worked with Yaml & Groovy DSL Scripts and Jenkins file to Automate Configuration in **Jenkins** and **Azure DevOps**.
- Designed and implemented Azure ExpressRoute and Hub-and-Spoke architectures for various use cases, such as connecting **on-premises** data centers to Azure, and creating a secure, scalable network infrastructure on Azure. Networking technologies such as **Virtual Private Networks (VPNs)**, Azure Virtual Networks, Network Security Groups (NSGs), and Azure Load Balancers.
- Hands on experience on Backup and restore **Azure** services. Designed and configured **Azure Virtual Networks (VNETs)**, subnets, Azure network settings, DHCP address blocks, **DNS** settings, security policies and routing.
- Experience working with the release and deployment in **JAVA, Javascript, Python, Android, IOS** and **ASP.net** web applications environment.
- Expertise in working with **Terraform** Infrastructure automation and automated the provisioning of both AWS and Azure infrastructure by utilizing Execution Plans, Resource Graphs and Change Automation features extensively used to support tier-0 with applications where **high availability** is required.
- Worked with the **Groovy scripts** in Jenkins to execute jobs for a continuous integration pipeline where **Groovy Jenkins Plugin** and Groovy Post Build Action Plugin is used as a build step and post build actions.
- Extensive experience in **Kubernetes** cluster management, including creating Pods and Nodes, deploying microservices from **Docker Registry**, managing **Helm charts**, manifest files, and application workloads. My experience spans across various cloud platforms such as AKS, EKS, and GKE, as well as self-hosted Kubernetes and Kubernetes management platforms like **Rancher**
- Proficient in implementing **Istio** to manage and secure **service mesh** in Kubernetes environments, including knowledge of Istio architecture, Istio components, and Istio networking and with the architecture, workflows, and best practices of Jenkins, Azure DevOps, Argo CD and experience building continuous delivery (CD) for Kubernetes and Istio-based apps.
- Used **Kubernetes** to orchestrate the deployment, calling and management of container application workloads. Extensive working Knowledge on **Docker, Docker Hub, Docker Compose, Docker Swarm**, Network/Volumes,

DockerFile For building Images primarily for middleware installation & domain configurations, Evaluating Kubernetes for Docker container Orchestration.

- Utilized **Ansible Tower** to create projects, **Inventory files**, **jinja2** templates, used **Python** SSH as the wrapper to manage configurations of AWS & Azure Nodes and being able to test them on Azure, AWS Instances.
- Experienced in working with the deployment of applications to **Tomcat**, **WebSphere**, **WebLogic**, **JBoss Servers**.
- Good knowledge and experience in different observability tools like **Elastic Stack (Elasticsearch)**, **Prometheus**, **CloudWatch**, **Nagios**, **Splunk**, **databog** and **Grafana** for logging and monitoring. Experienced with principles and best practices of Software Development Life Cycle (SDLC) and Software
- Experience in implementing projects using **Agile** and **Waterfall**, **Scrum** Methodologies.
- Good interaction with developers, managers, team members and clients and gathering requirements, analyzing, and working with the team accordingly. Proven ability to learn and rapidly adapt to new challenges.

TECHNICAL SKILLS

Cloud Technologies	Azure, AWS, GCP, Hetzner
Operating Systems	Ubuntu, CentOS, RedHat, Linux, Windows.
CI/CD Tools	Jenkins/Hudson, Azure DevOps, GitLab CICD
IaC & Configuration Management Tools	Terraform, Ansible, Chef, Puppet
Version Control & Build Tools	GitLab, GitHub, Bitbucket, Maven, Ant, Gradle
Scripting & Programming Languages	Python, JSON, YAML, Groovy, Bash shell, Power shell, Go
Network Protocols	DNS, DHCP, Routers/Switches, NIS, NFS, WAN, LAN, FTP/TFTP, TCP/IP
Containerization & Orchestration	Docker, Kubernetes, EKS, AKS, GKS
Databases	MySQL, PostgreSQL, NoSQL (MongoDB, DynamoDB), Maria DB, Cosmos DB
Web Servers	Web Logic, JBoss, WebSphere, Apache Tomcat, Nginx
Monitoring Tools	Splunk, DataDog, Dynatrace, ELK, Azure App Insights, Cloud Watch, Grafana, Prometheus
Bug Tracking Tools	JIRA, Service Now

CERTIFICATION

Microsoft Certified: Azure Administrator Associate (Az-104)

EDUCATION QUALIFICATION

Completed Bachelor of Technology - Jawaharlal Nehru Technological University Hyderabad

WORK EXPERIENCE

Role: Sr. SRE/DevOps Engineer

(Jan. 2021 - Present)

Client: Verizon - USA.

- Involved in designing and deploying multitude applications utilizing almost all of the **AWS** stack (Including **EC2, Route53, S3, RDS, DynamoDB, SNS, SQS, IAM**) focusing on high-availability, fault tolerance, and auto-scaling.
- Implemented **CI/CD pipelines** using Jenkins & **Docker** which improved development efficiency by 80%, allowing developers to quickly test new Features without sacrificing quality or performance.
- Designed the Release Plans while coordinating with Stakeholders including Project Management Lead, Development Lead QA Team Lead
- Implemented CI/CD using **Jenkins** and configured **DevSecOps** strategies, used Static Analysis Security Testing (SAST) and Dynamic Analysis Security Testing (DAST) to eliminate security flaws, vulnerabilities present in the source code and running application.
- Migrated On-Premises Applications to **AWS** Cloud and defined comprehensive strategy around security as part of AWS migration strategy.
- Administered **Jenkins**, Proposed and implemented branching strategy suitable for **agile/scrum** development in a Fast-Paced Engineering Environment.
- Collaborated with **QA teams** to design automated **testing** platforms, improving **code quality** and decreasing testing time by 30%.
- Provisioned the **AWS App Mesh** for network traffic controls on **EKS, ECS, EC2 instances, AWS Fargate** and integrated monitoring tool cloud watch to automatically export the data to **New Relic** and **ELK Stack**.
- real-time incident response, employing **ELK, Dynatrace** and **New Relic** to analyze and mitigate performance-related issues in mission-critical systems.
- Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD pipeline** to build, and test deploy.
- Written Python, **Groovy** and Shell Scripts to do CI/CD using Jenkins, Git in GitLab and to improve application security. Worked on Automation tools like **Ansible & Maven** and thereby deployed artifacts to Jfrog.
- Set up constant **security** checks as part of the **CI/CD pipeline** and monitoring to prevent or respond faster to any events that might occur.
- Involved in Design discussions of Tier0 application implementations with **Canary/ Blue-Green** Deployment in production on Kubernetes cluster and services are packed by **Helm** charts.
- Handling the deployment/Implementation Plan. Working on Code migrations in Production and Non-Prod Env
- Established processes and tools to maintain code base integrity, including check-in validation rules and Branch/merge processes. Also Used Bash and **Python** Scripts for automating the daily tasks.
- Provided **24x7 on-call support** for production / non-production environments.

Technical skills used: AWS, Azure services, ISTIO, Docker, Kubernetes, Ansible, Terraform, Maven, Jenkins, DevSecOps, Elastic Stack, New Relic, GIT, GitLab.

Role: SRE/Cloud Engineer

(Feb. 2019 - Aug. 2020)

Client: ClearWater - USA.

- Participated in the complete project lifecycle, spanning requirement analysis, design, coding, and implementation, while also contributing to daily stand-up and sync-up meetings for effective collaboration with team members.
- Automated infrastructure provisioning using Infrastructure as Code (IaC) tools such as **Terraform**, resulting in a reduction of deployment time by 50%.
- Created custom **Azure AD** roles and **RBAC** roles for development teams and configured least privileged access to provision Azure resources using privileged identity Access management (**PIM**).

- Built an application environment to operate at high availability in different **Azure** regions by using Vnet's VM's, CDN, Azure Traffic Manager, App Services-Web Apps, Active Directory, Storage Queues, Cognitive Services, Azure Search, Storage Blobs, Redis cache, API Management and SQL Database.
- Troubleshooted the server issues like service, performance, memory issues, password expiry & account lock.
- Worked on installation, configuration, and administration/maintenances of DevOps tools such as **GitHub, JIRA, Confluence, ServiceNow, Nexus/Jfrog Artifactory, Ansible, Chef, Docker, Kubernetes, Terraform, and CloudFormation on Windows, Prometheus, Grafana** and **Linux platforms**.
- Worked on Git, Issue Tracking, pipeline management and Documentation with **GitHub** to Automate and integrate the code checkout process.
- Innovatively integrated **Jenkins, SonarQube**, and **Fortify** for automated security testing, leading to a 20% reduction in vulnerability identification and resolution time.
- Worked on DEV, UAT, non-prod and Prod environments for build & deployments via **Jenkins, Argo CD, K8S**.
- Helped dev team with all the configuration either in **application** or **web server** whenever required.
- Designed and implemented observability best practices, effectively reducing mean time to resolution (MTTR) for incidents by 40% using a combination of **Datadog** and **Prometheus**.
- Done POC's centralized logging and monitoring using the **ELK Stack**, providing real-time insights into system performance and troubleshooting.

Technical skills used: AWS, GCP, Azure services, Terraform, Docker, Kubernetes, Ansible, Maven, Jenkins, Python Scripts, ELK Stack, Dynatrace, Datadog, GIT, GitHub, JIRA, UNIX / LINUX.

Role: Cloud Engineer

(Nov. 2016 - Jan. 2019)

Client: MTN - Ghana.

- Work with the architectural lead for the migration of several applications to **AWS Cloud** as per the Cloud Reference Architecture.
- Implemented Large Scale Cloud Infrastructure (250+ servers) using **AWS resources** - IAM, Elastic IP, Elastic Storage, Auto Scaling, VPC, EC2, EBS, APIs ELB, Route 53, RDS, SES, SNS, SQS, OpsWorks, EMR, CloudFormation, S3, Lamda (Server less), Elastic Beanstalk, ECS and CloudFront.
- Creating **RDS** instances, taking snapshots and restoring the backup during major deployments.
- Creating IAM roles to provide access to users, applications, or services to access AWS resources.
- Using specialized **Splunk** queries, I worked on **Splunk** dashboards, visualizations, setups, reports, and indexers as well as new table datasets according to requirements.
- Creating and mounting **EFS** on multiple servers to ensure Synchronization of data across the servers.
- Migrating AML's and RDS snapshots across accounts to different regions.

Technical skills used: AWS, VMWare, Chef, Jenkins, Git, Splunk, Jenkins, UNIX / LINUX, Maven, Shell Scripting.

Role: Software Engineer

(June. 2015 - Oct. 2016)

Client: Aashika - India

- Understanding the client requirement and developing the code using **Python** and **JAVA**
- Developed the code by using Python - Login, Register information modules.
- Implemented database access using **Django ORM**. Used **MySQL** as backend database and MySQLdb of python as database connector to interact with **MySQL** server.
- Developed **SQL** Queries, Stored Procedures, and Triggers Using **Oracle, SQL, PL/SQL**.
- Designed and developed the presentation layer using JSP. Implemented the JSPs, **Spring MVC** in the Spring MVC Framework to effectively handle the workflow of the application.
- Designed and developed base classes, framework classes and common reusable components.
- Developed Interactive GUI Screens using **HTML, CSS, JSPs**.

Technical skills used: Python, Django, Java, Java Script, Spring, HTML, CSS, JSON, MySQL, Apache, Eclipse.