

T. NAGA SIVA TATA REDDY

DevOps Engineer

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CAREER OBJECTIVE

A Proficient experience in DevOps and looking for a challenging role in a reputable organization to utilize my technical, database, and management skills for the organization's growth and enhance my knowledge about new and emerging trends in the IT sector.

WORK EXPERIENCE

2021- present : **Scepter IT Solutions Pvt Ltd**

2017-2020 : **Aspion Technologies Pvt Ltd**

Designation : **DevOps Engineer**

Having 4+ years of professional experience in **DevOps Engineer**, build, deploy and release process with various environments.

JOB DESCRIPTION

- ❖ Experience of Implementing Devops by integrating source control tools **GIT, GitHub**, Build tools like **Maven**, CI/CD tool like Jenkins and Deployment automation tool like **Ansible** practices for the Billing Development Teams using Subversion, **SonarQube, TOMCAT**.
- ❖ Experience and in-depth Knowledge of understanding in the strategy and practical implementation of AWS Cloud-Specific technologies including EC2, EBS, S3, VPC, RDS, SES, ELB, Cloud Formation, Elastic Cache, Cloud Watch, Lambda, SNS, Dynamo DB.

PROFESSIONAL SUMMARY

- ❖ Created automated build and release environment using Continuous Integration Tools Hudson/Jenkins.
- ❖ Implement Master-Slave concept in Jenkins.
- ❖ Good experience on Build Tool Maven and CI Tools like JENKINS.
- ❖ Having experience on Apache TOMCAT.
- ❖ Knowledge in Migrating the Infrastructure from on premise data centre to the AWS infrastructure.
- ❖ Migration of existing systems to AWS and using the snapshot method for the EBS volumes.
- ❖ Knowledge on Migration of databases from oracle, PostgreSQL.
- ❖ Experience in Automation of cloud using Python.
- ❖ Automating the administrative tasks using AWS Lambda services with Python
- ❖ Utilizing the Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS, DB services, Dynamo DB tables and EBS volumes.
- ❖ Configuring Auto-scaling for scale-in and scale-out based on Network and Application loads
- ❖ Handled operations and maintenance support for AWS cloud resources which includes launching, maintaining and troubleshooting EC2 instances, S3 buckets, Virtual Private Clouds (VPC), Elastic Load Balancers (ELB) and Relational Database Services (RDS).
- ❖ Created and updated Ansible playbooks.
- ❖ Automated the cloud deployments using Ansible and AWS cloud formation templates.

- ❖ Configured Ansible to manage AWS environments and automate the build process for core AMIs used by all application deployments including Auto scaling, and Cloud formation scripts.
- ❖ Written Ansible Playbooks for various DB configurations to modularize and optimize product configuration.
- ❖ Converting production support scripts to Ansible Playbooks and AWS server provisioning using Ansible playbooks.
- ❖ Developed API for using AWS Lambda to manage the servers and run the code in the AWS.
- ❖ Amazon IAM was used to maintain the user credentials and involved in creating custom IAM policies to various groups defined within the organization.
- ❖ Design high availability applications on AWS across availability zones and availability regions.
- ❖ Created AWS Route53 to route traffic between different regions.
- ❖ Created AWS Security Groups for deploying and configuring AWS EC2 instances.
- ❖ Good knowledge of RDBMS concepts and extensively worked with MySQL & PostgreSQL.
- ❖ Experience in configuring and deploying Web Applications using TOMCAT and Apache.
- ❖ Knowledge on Linux and Windows operating systems.
- ❖ Having good knowledge in Dockers, Kubernetes
- ❖ Virtualized the servers on AWS using the Docker, created the Docker files and version controlled them
- ❖ Configuring the Docker containers and creating docker files for different environments.
- ❖ Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds and automated the deployment on the application servers using the “code deploy” plug-in for Jenkins.
- ❖ Experience with Apache/Tomcat, Load Balancer (Apache, Nginx) and expertise in making configuration changes.
- ❖ Experience in Monitoring teams to identify and troubleshoot issues on servers using tools like Nagios.

Technical Skills

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|-------------------------------------|------------------------------|
| ❖ Application Server | : Tomcat. |
| ❖ Build Tools | : Ant, Maven |
| ❖ (SCM) Tool | : Bitbucket, GitHub. |
| ❖ Continuous Integration (CI) Tools | : Jenkins. |
| ❖ Databases | : MySQL. |
| ❖ Operating Systems | : Ubuntu, Linux, Windows. |
| ❖ Scripting Languages | : Shell Script, Python, Yml. |
| ❖ Web Server | : Nginx, Apache. |
| ❖ Cloud services | : AWS. |
| ❖ Monitoring Tools | : Nagios. |
| ❖ Virtualization | : VMware, Docker. |

Qualification

Completed BE(2016) in RMK Engineering College affiliated to Anna University, Chennai

Projects

Project #1:

Client	: Scepter IT Solutions Pvt Ltd.
Role	: DevOps Engineer
Tools	: Jenkins, Git, Linux, Maven, Shell script, Docker, AWS.
Duration	: March 2021 to till date

Roles & Responsibilities:

- Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using **GIT** source control.
- Responsible for design and implementation of policies, branching methodologies.
- Configured and maintained **Jenkins** to implement the **CI** process and integrated the tool with **Ant** and **Maven** to schedule the builds and automated the deployment on the application servers using the “code deploy” plugin for Jenkins.
- Wrote shell scripts and scheduled using CRON job.
- **Continuous Delivery** is being enabled through **Deployment** into several environments of Test, QA, Stress and Production using **Jenkins**.
- Automate the builds and deployment of **projects** using Jenkins.
- Implement, maintain and support reliable, timely and reproducible builds for project teams
- Hands on experience in automating builds and deployment process using Shell scripting.
- Expertise level knowledge of Amazon EC2, Amazon S3, Amazon RDS, Elastic Load Balancing and Cloud Watch.
- Involved in fixing the **Bugs** in the build script.
- Preparing the builds, scripts by using the maven build tool on the red hat Linux platform.
- Scripting in multiple languages on Linux and Windows – **Batch**, **Shell** script etc.
- Respond constantly and aggressively to automated test and build issues.
- Manage configuration of Web App and Deploy to **AWS** cloud servers.

Project #2:

Client	: Aspion Technologies Pvt Ltd
Role	: DevOps Engineer
Tools	: Jenkins, Git, Linux, Maven, Shell script, Docker, AWS.
Duration	: March 2017 to Dec 2020

Roles & Responsibilities:

- Worked on building and deploying Java code through **Jenkins**
- Worked closely with development team and SQA team for product releases
- Design, investigation and implementation of public facing websites on **Amazon Web Services (AWS)**
- Using **Jenkins Amazon Web Services (AWS)** Code Deploy plugin to deploy to **AWS**

- Configured **Elastic Load Balancers** with **EC2** Auto scaling groups
- Manage deployment automation using Ansible
- Implemented **AWS** solutions using **EC2, S3, Elastic Load Balancer and Auto scaling groups**
- Supported small to medium sized projects using **GIT**
- Worked on integrating **GIT** into the **continuous Integration (CI)** environment along with **Jenkins**
- Deployed **Docker** Engines in Virtualized Platforms for containerization of multiple applications
- Developed a continuous deployment pipeline using **Jenkins**
- Supporting Local System Administrators to troubleshoot **Configuration Management** and Network issues
- Created and maintained continuous build and continuous integration environments in **SCRUM** and **AGILE** projects
- Worked as a system administrator for the build and deployments process on the enterprise server
- Automation of daily tasks using Shell scripts
- Used these scripts to replicate production build environments on a local dev boxes using **VMWare** and **VirtualBox**
- Created Docker images using a Docker file, worked on Docker container snapshots, removing images, and managing Docker volumes
- Good Experience in creating Docker Containers leveraging existing Linux Containers and AMIs in addition to creating Docker Containers from scratch
- Practical experience with the deployment and configuration of Docker infrastructure on Ubuntu OS for container pipeline automated deployment in all required environments to support scaling AND service discovery.

Project #3:

Client	: Aspion Technologies Pvt Ltd
Role	: DevOps Engineer
Tools	: Jenkins, Git, Linux, Maven, Shell script, Docker, AWS, Nagios.
Duration	: March 2017 to Dec 2020

Roles & Responsibilities:

- Involved in designing and deploying multitude applications utilizing almost all the AWS stack (Including) EC2, Route53, S3, RDS, Dynamo DB, SNS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud Formation
- Utilized AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups
- Performed deployment of application code to production environments
- Performed system monitoring and maintain Logs using Cloud Watch and implemented best practices for cloud architecture and development
- Utilized S3 bucket and Glacier for storage and backup on AWS
- Implemented Continuous Integration using Jenkins and GIT and used both GIT and Bitbucket source control systems to manage code

- Identify Configuration Items (CI) and document their characteristics after every deployment, delivered the Release notes on Confluence site
- Involved in editing the existing ANT (Build.XML) files in case of errors or changes in the project requirements
- Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments
- Configure and ensure connection to RDS database running on MySQL engines and responsible for Plugin Manage
- Merged release branches to the trunk after the production release and resolved the conflicts if any during the merge in GIT
- Monitoring CPU, memory, physical disk, Hardware, and Software RAID, file systems, network using Nagios

STRENGTH

- ❖ Ability to work independently and meet deadlines.
- ❖ Ability to work in a team & achieve organizational goals.
- ❖ Willingness to learn

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Place: Hyderabad

T. Naga Siva Tata Reddy