# Santosh Kumar V

MTS II - System Engineer

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## SUMMARY

* Skilled DevOps Engineer around 4 years of hands-on experience in build and deployment, support and maintenance, software configurations in **Docker- Kubernetes**, **AWS** and On-Premises **Linux** platforms.
* Experience in automating build and deployment using **Jenkins CI/CD** pipelines written in groovy.
* Worked on microservices based applications deployment to **Kubernetes** clusters and automated the deployments using **Jenkins** and **Kubernetes helm charts**.
* Migrating legacy applications deployment to **AWS**, Cloud native environments like **Kubernetes**.
* Proficient with container systems like **Docker** and container orchestration **Docker Swarm**, **Kubernetes**.
* Automated infrastructure, application configuration in AWS using **CloudFormation** and **Ansible**.
* Configured multi provider infrastructure from scratch using **Terraform.**
* Worked on implementing Cloud Solutions using various AWS Services including **VPC, EC2, EBS, ELB, ASG, Route 53, S3, RDS, CloudFormation, CloudTrail, Lambda, Elastic Bean stalk, IAM** etc.
* Good exposure on SCM tools **Git**, **GitLab** and **GitLab runner** for docker containers deployment.
* Experience in using Build Automation tools like **Ant**, **Maven**.
* Experienced in integrating code quality tools **SonarQuebe**, **Fortify** and Image scanning tool **TwistLock**.
* Worked on artifacts management tools **Jfrog**, **Nexus**.
* Application monitoring through **NewRelic**, **Prometheus and Grafana**. **ELK** is used to log events.
* Experience in deploying, maintaining applications in **Apache Tomcat**, **WebLogic**.
* Experienced in using bug tracking systems like **JIRA**.
* Configuration experience with databases **Postgre SQL**, **MongoDB**, experienced in using **SQL**.
* Hands-on experience with **Linux CLI**, **Shell Scripting** and **basics of python**.
* Good interaction with developers, managers, and team members to coordinate tasks and strong commitment to work.

## SKILLS

* **DevOps:** Git, GitLab, Maven, Ant, Jenkins, Nexus, Jfrog Artifactory, SonarQube, Fortify, TwistLock, JIRA, Apache Tomcat, WebLogic, Ansible, Terraform, Docker, and Kubernetes.
* **Cloud:** Amazon Web Services (VPC, EC2, EBS, ELB, ASG, Route53, S3, RDS, SNS, IAM, CloudWatch, CloudTrail, CloudFormation, Lambda, CLI, ElasticBeanStalk).
* **Monitoring & Alerting:** NewRelic, Prometheus, Grafana, and ELK.
* **Database:** Oracle, AWS RDS.
* **Languages:** Linux CLI, Shell Scripting, Groovy, SQL, and Python**.**
* **OS:** Linux, Windows.

## EDUCATION

* **M.Tech**, National Institute of Technology (**NIT**), Rourkela. July’2014-June’2016
* **B.Tech**, Acharya Nagarjuna University, Guntur. Sep’2010-May’2014

## CERTIFICATIONS

* AWS Certified Solutions Architect – Associate Nov’2020-Nov’2023

Validation Number: 4QC40KGJCJB4QDST

## WORK EXPERIENCE

**DevOps and Automation Engineer, Verizon Data Services India, Hyderabad Feb’2020-Current**

* Designed and implemented Jenkins CI/CD with multiple components to support weekly releases and out-of-cycle releases based on business needs
* Automated microservices based applications deployment to kubernetes clusters using docker and kubernetes helm charts.
* Worked on Kubernetes configamaps to store the configuration data of all the applications at one place and automated its deployment to cluster using Jenkins jobs.
* Implemented Kubernetes Secretes to save sensitive data of applications and configured Kubernetes basic-auth for ingresses used.
* Enabled Kubernetes Crontab for schedule pod running.
* Creating and building Docker images, containers and writing docker files.
* Resolved multiple issues in kubernetes cluster environment.
* Migrating legacy applications deployment to AWS.
* Performed AWS servers Re-hydration on monthly basis to meet to meet the security standards of the organization.
* Supported 100+ AWS EC2 instances over multiple environments.
* Automated AWS infrastructure configurations in AWS using CloudFormation.
* Multi provider infrastructure creation and maintenance using Tearraform.
* Wrote AWS Lambda functions using Python for internal automations in AWS environment.
* Involved in development of test environment for various applications in AWS.
* Extensively used Ansible for application configuration.
* Writing Ansible playbooks for application deployment to different environments.
* Responsible for design of different release environments for new projects.
* Configured and maintained monitoring, alerting, event logging with NewRelic, Prometheus, Grafana and ELK.
* Maintained GitLab as SCM for various deployments.
* Configured Maven and Ant as build automation tools and integrated with Jenkins.
* Maintained Jfrog as Docker private repository as well as repository manager for dependency, build artifacts management.
* Integrated SonarQube, Fortify to analyze code quality and resolved related issues.
* Deployed applications into Tomcat and WebLogic and given maintainance support.
* Extended support to various applications to ensure stable and reliable environments.
* Resolved 15+ JIRA tickets related Jenkins, Jfrog artifactory, Docker, Kubernetes, Sonar etc.
* Used SQL to query relational databases like Oracle, AWS RDS.
* Managing day-to-day software configuration management activities for multiple product lines.
* Responsible for product deployments into QA, STAGE and PROD environments.
* Wrote multiple shell scripts to automate day to day manual tasks.
* Documenting all the implementations, enhancements, monitoring, and maintenance, troubleshooting in all the environments using one confluence.

**DevOps and Cloud Engineer, Tata Consultancy Services, Hyderabad Mar’2017-Jan’2020**

* Create and maintain Jenkins CI/CD pipelines for build and deployment automation.
* Managing and Monitoring Jenkins (Auditing, Project based Security, Authorization and access management).
* Configured and maintained GitLab as SCM, Maven as build automation tool.
* Writing Ansible playbooks for application configuration and deployment automation.
* Deploy and maintain web applications on to Apache Tomcat servers and configured it to host the client's websites.
* Configured and managed Nexus as Docker private repository as well as repository manager for dependency, build artifacts management.
* Procuring and configuring the server as per the needs of the release and the application.
* Identify, troubleshoot and resolve issues related to build and deploy process.
* Creating and building Docker images, containers and writing docker files.
* Deployed microservices based applications into kubernetes clusters using Jenkins pipelines.
* Resolved multiple issues with kubernetes cluster environment.
* Worked with various kubernetes configmaps, secterts and Crontab.
* Given support to multiple Jenkins CI/CD pipelines and resolved issues.
* Maintained SonarQube as code quality check tool to analyze the application code.
* Used Maven as build automation tool and integrated with Jenkins.
* Created public, private subnets and EC2 instances as per requirement and distributed them as groups into various availability zones of the VPC.
* Managed EBS volumes and creating snapshots, expanding EBS volumes as per the application requirement.
* Configured firewalls using security groups (SG) and Network Access Control Lists (NACLs) in AWS.
* Created and configured elastic load balancer and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Configured Elastic IPs as per the application requirement.
* Created S3 buckets in the AWS environment to store files, sometimes which are required to serve static content for a web application.
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Extensively used CloudFormation to configure and track AWS infrastructure.
* Used IAM for creating roles, users, groups and also implemented MFA to provide additional security to AWS account and its resources.
* Worked with Route 53 as DNS.
* Wrote AWS Lambda functions using Python for internal automations in AWS environment.
* Maintained the monitoring and alerting of production and corporate servers using CloudWatch service.
* Monitoring infrastructure and application health using Prometheus and Grafana.
* Managed all the bugs and changes into different environments using the Jira tracking tool.
* Used SQL to query relational databases like Oracle, AWS RDS.
* Automated day to day manual tasks using Shell Scripts.
* Support Lead developers with Configuration Management issues.
* Documented all the issues, troubleshooting and configurations.