**Naresh Katikam**

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**Summary**

4+ Years of dedicated DevOps professional understands the melding of operations and development to quickly deliver code to customers. Good hands-on knowledge of Source Code Management (Version Control System) tools like Git and Subversion. Proficient in developing Continuous Integration/ Delivery pipelines. Experience with automation/ integration tools. Knowledge of major cloud service providers, like AWS, Azure etc. Hands-on knowledge of software containerization platforms like Docker and container orchestration tools like Kubernetes. Manages, maintains and supports applications and the operating environments, focusing on stability, quality and functionality against service level expectations.

**Technical Skills**

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| **Operating Systems** | Linux, Windows |
| **Cloud Technology** | AWS, Azure |
| **Version control Tool** | GIT |
| **Automation/Build Tools** | Jenkins |
| **Containerized Technology** | Docker |
| **Configuration Management Tools** | Ansible |
| **Monitoring Tool** | Cloud watch, Dynatrace |

**Experience**

**Artech infosystems | IT Senior Engineer | February 2024 to till date**

* Responsible for managing and maintaining a Jenkins instance to ensure its smooth operation, security, and optimal performance.
* Implementing role-based access control to restrict user access to specific resources and actions.
* Managing and installing necessary plugins to extend Jenkins' functionality.
* **Nodes:** Configuring and managing Jenkins nodes for distributed builds.
* **Global Configuration:** Setting global configuration parameters like email notifications, SCM polling, and build triggers.
* Creating and configuring various types of jobs, including freestyle projects, pipeline jobs, and multi-branch pipelines.
* Implementing a robust backup strategy to protect Jenkins data.
* **Backup Procedures:** Regularly backing up Jenkins configuration, jobs, and plugins.
* **Disaster Recovery Plan:** Developing a disaster recovery plan to restore Jenkins in case of failures or disasters.
* Monitoring Jenkins' performance metrics, such as CPU usage, memory consumption, and disk I/O.
* Deploying and managing containerized applications on the Kubernetes cluster.
* Scaling applications horizontally and vertically to meet changing demands.
* Managing application rollouts and updates, including canary deployments and blue-green deployments. Monitoring cluster health, resource utilization, and application performance.
* Identifying and resolving issues related to cluster components, applications, and network connectivity. Setting up alerts for critical issues and system failures.
* Implementing security best practices, including network security, access control, and encryption. Ensuring compliance with security standards and regulations. Identifying and patching vulnerabilities in Kubernetes components and applications.
* Implementing backup strategies for cluster configuration, application data, and state. Developing disaster recovery plans to restore the cluster in case of failures.
* Automating routine tasks using tools like Terraform. Integrating Kubernetes with CI/CD pipelines to automate application deployment and testing.
* Planning for future resource needs, including CPU, memory, and storage. Optimizing resource utilization to reduce costs and improve performance.
* Working closely with development teams, DevOps engineers, and other stakeholders. Effectively communicating technical information to both technical and non-technical audiences.

**Optum Global Solutions | DevOps Engineer | August 2021 to November 2023**

* Deploying, automating, maintaining and managing AWS cloud-based production system, to ensure the availability, performance, scalability and security of productions systems.
* Build, release, and configuration management of production systems.
* Using Jfrog to store the generated artifacts and versioning the artifacts with timestamp
* Integrating Git ​with Jenkins​ and Jfrog in continuous integration and configuring Jenkins with ​build triggers
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Maven to schedule the builds and automated the deployment on the application servers using the “Deploy to container” plug-in for Jenkins.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS.
* As most of the infrastructure is hosted in the AWS cloud ​and responsible for creating and managing EC2 instances.
* Creating users and groups, provided security for authentication of resources using IAM
* Providing infrastructure for production environments for installing of servers in the load balancer, web servers and database servers
* Configured email and messaging notifications, managed users and permissions, and system settings by using Jenkins.
* Developing Ansible Playbooks for different scenarios to manage the infrastructure and integrate with CI (Continuous Integration)/CD (Continuous Deployment
* Converting playbooks into roles for reusability ​and scalability
* Involved in writing playbooks for installing the different environments like DEV, QA, and production.
* Managed Kubernetes YAML manifest files and created reproducible builds of the Kubernetes applications, also managed Kubernetes manifest files and released Helm packages.
* Managing builder and Master nodes of the K8S cluster.
* Implementing a highly available, fault-tolerant, auto-scaling application in Kubernetes by effective use of Replica Sets, deployments, health checks, Namespace, Load balancers, Cluster IP, Node port, volumes, and Ingress controls, etc.
* Configured application servers (Apache tomcat, Nginx) to deploy the code
* Created and configured multiple instances on Tomcat server for different teams
* Able to create infrastructure using the AWS (Infrastructure as a code) Using Terraform.
* Using the JIRA application for reporting, status and activity planning.

**Onward Technologies | DevOps Engineer | October 2019 to July 2021**

* 3+ years of experience in **Configuration Management and DevOps Engineering**.
* Comprehensive experience in design and implementation of Continuous Integration, Continuous Deployment and DevOps Operations working with technologies and platforms including **Linux, Git, Maven, Jenkins, AWS, Ansible, Docker**.
* Experienced in automated continuous build process that reviews the source code and other build outputs which notifies to concern team
* Experienced in Installing, Upgrading, Configuring and Administrating Red Hat and Ubuntu Linux platforms
* Managing separate build pipelines and deployment servers for Branches to get internal test outputs
* Expertise on setup source code repository **GIT** & Build tools **MAVEN** on servers and managed with **Jenkins** for scheduled automatic checkout, build and deployment.
* Expertise with necessary modifications in pom.xml for the deployment configurations on TOMCAT and NEXUS servers.
* Well versed in build pipelines & maintain build process in Jenkins.
* Simplified the build and deployment process with concepts of upstream and downstream on Jenkins mainly for the maven projects and running the builds and deployments in a single view on one build.
* Good knowledge on different pipelines of Jenkins in automation processes which are declarative and scripted.
* Experienced on Deploying static and dynamic webpages [.war files] using CI/CD tools like Jenkins, Ansible in standalone and clustered environment.
* Managed Server configurations, Package installations and management of files through Ansible by using Playbooks or with Ad-Hoc commands depending on task.
* Experience with cloud infrastructure of AWS and computing AMI virtual machines on Elastic Compute Cloud (EC2).
* Build servers using AWS, Launching EC2 instances, Attaching EBS on servers, creating security groups, Auto-scaling, S3 management, knowledge in defining virtual private connection (VPC).

**Renovision Automation Services Pvt Ltd | Support Engineer | October 2017 to October 2019**

* Administering Linux Servers. Having Good work experience on LVM. Monitoring the Logical volume manager. Provide SUDO access to application-level users.
* Maintenance and scheduling backup jobs using cron-tab. User administration and management like add/change/delete and password reset. Implementing Special bit permissions and ACLs.
* Installation & configuration of Linux, Worked on, Red Hat Linux, Centos. Setup FTP, NFS etc. Servers and Setting up Network.
* Resolve day-to-day issues on Linux operating system and Application software’s. Manage Linux issues with help of basic commands like vi/vim -editor, find, who, uname, Uptime, last etc.
* Setting up Linux server, Troubleshoot Linux issues for local infrastructure. Establishing networking environment by designing system configuration, directing system installation, defining, documenting, and enforcing system standards
* Design and implementation of new solutions and improving resilience of the current environment. Maximizing network performance by monitoring performance, troubleshooting network problems, scheduling upgrades and collaborating with network architects on network optimization.
* Undertaking data network fault investigations in local and wide area environments, using information from multiple sources. Securing network system by establishing and enforcing policies and defining and monitoring access.
* Identify, research, analyse, diagnose, resolve and close escalated technical problems in a quality and timely manner. Provide comprehensive diagnostic, root cause and troubleshooting support, accurate problem resolution and make findings available for future troubleshooting and analysis.

**Education**

Completed bachelor's degree in the Stream of Electronics and Communication Engineering.

**Declaration**

I hereby declare that all the data and information provided above are true and correct to the best of my knowledge and I hold responsible myself for any irregularities if found.

**Katikam Naresh**