S HEMANTH KUMAR

**DevOps Engineer**

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**Professional Summary:**

* Having around 4 years of experience as **DevOps Consultant**, this includes experience in Build & release process, Configuration Management, Cloud Services (**AWS**), and **Containers**.
* Proficient in AWS services like **EC2**, **VPC**, **S3**, configuring **security groups**, and **IAM**.
* Hands-on Experience in **DevOps** tools like **Git, GitHub, Maven, SonarQube, JFrog, Jenkins, Ansible, Docker, Kubernetes.** Managed servers on the Amazon Web Services (**AWS**) platform using configuration management tools.
* Knowing **LINUX** platform.
* Hands-on experience in installation and configuration of Git.
* Good working experience in building and deploying Java web applications on **Tomcat** and web servers in **Windows** and Linux environments.
* Having good working experience on setting up continuous integration builds with **Jenkins.**
* Worked on **Jenkins** by installing, configuring, and maintaining **continuous integration (CI)** and end-to- end automation for all build and deployments.
* Experience in Build Automation and creating **CI/CD** pipelines.
* Setting up build jobs and scheduled builds and email alerts regarding builds using Jenkins.
* Participated in the documentation of detailed build configuration, build procedures, and change history for releases.
* Knowing **Docker** to write Docker Files, create containers, images, and convert containers to images.
* Installing Plugins in **Jenkins** as per project requirements.
* Experience on containerization tool **Docker** writing **Docker files** for creating **Docker images** and containers for different environments
* Source code management is performed using GIT from the master repository.
* Ability to work efficiently in both independent and teamwork environments. Experience in Build, Release, and Software Configuration Management cycle, which involves Building Source Code, handling and administration of Version Control tool Git, maintaining **CI/CD** environment (Jenkins), performing deployments.
* Having good experience in configuration management tools like **Ansible**.
* Experience in software configurations management tools like **Ansible** and writing multiple playbooks and pushing the configurations to various nodes.
* Used Ansible Playbook to deploy Web server.
* Worked on **AWS** instances and configured DevOps tools in **AWS Linux servers**.
* Experience using CI/CD tool **Jenkins.**
* Used Jenkins & Ansible to perform automated CI Builds and Deployments.
* Experience in Continuous Integration (CI) setup. Installed Jenkins, **created build jobs,** set up **distributed builds** using Jenkins **master/slave** concepts, **plug-in** installation backup using **Jenkins.**
* Experienced in implementing and configuring tools like Git, Jenkins, Docker, and Ansible in various Linux distributions.
* Having Experience in creating Custom **Docker** images using **Docker files** and Knowledge of **Docker Networking.**
* Hands-on experience in Automation/Build such as Jenkins, JNLP Slave Nodes, Dockers, Nexus…..
* Performed all necessary day-to-day GIT support for different projects.
* Experienced in Amazon EC2 setting up instances and setting up security groups.
* Involved in functional usage & deployment of applications in Apache Tomcat Server.
* Configure the servers with the required packages.
* Good understanding of clustering **Kubernetes** and Architecture of Kubernetes.
* Created Kubernetes dashboard, Network policies.
* Installation and setting up **Kubernetes** cluster on AWS manually from scratch.
* Extensively worked with Scheduling, deploying, managing container replicas onto a node using Kubernetes and experienced in creating **Kubernetes** clusters work with **Helm charts** running on the same cluster resources.
* Proficient knowledge with Helm charts to manage and release of helm packages.

# Professional Experience:

* Working with TCS, as DevOps Engineer from September 2018 to Date.

# Education: Gradution from Avanthi institute of engineering college Narsipatnam -2017.

# Technical Skills:

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| **Operating Systems** | Windows, Linux, Unix |
| **Version Control** | GIT |
| **Continuous Integration Tools** | Jenkins |
| **Configuration Management** | Ansible |
| **Build Tools** | Maven |
| **Cloud Services** | Amazon EC2,AWS VPC, Security Groups, ELB, IAM, Cloud Formation, RDS, S3, AWS Cloud Watch, AWS CLI, Simple Services, Route 53. |
| **Infrastructure Provisioning** | Terraform |
| **Containerization Tool** | Docker |
| **Orchestration Tool** | Kubernetes |
| **Ticketing Tools** | JIRA |
| **Scripting Languages/coding** | Shell scripting |
| **Monitoring Tools** | Cloud watch, Nagios |

**PROJECT 2:**

# Domain: Insurance Role: DevOps Engineer Responsibilities:

* Responsible for Branching and Merging of code in **GIT**.
* Automate the build process using Jenkins and Maven.
* Implemented Continuous Integration using **Jenkins**, GIT, and scheduling jobs with Poll SCM
* Used Jenkins to create new jobs, manage required **plug-in**, configure the jobs selecting required source code management tool, build trigger, build system and post build actions, schedule automatic builds, notifying the build reports.
* Writing **Ansible Playbooks** and creating roles for scalability and reusability to manage the infrastructure.
* Using Ansible Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
* Creating **playbooks** in **Ansible** for configuration and Deployment activities. Automating **AWS** cloud deployments using **Ansible.**
* Creating Custom **Docker** images using **Docker file**.
* Deploying and Supporting Applications on Docker Containers.
* Managing multiple nodes for Docker container high availability.
* Writing Docker compose file to create a stack of services.
* Using Docker compose for creating multiple containers in a single service.
* Creating and managing the Docker volumes.
* Involved in Jenkins On-demand containerized Slaves for builds on Linux and Windows Docker hosts.
* Written Docker files for Containerized Build slaves for WebApp deployments
* Deploying and Supporting Applications on **Docker** Containers. Creating Custom **Docker** images using **Docker file**. Knowledge over **Docker Networking.**
* Used **IAM** to create new accounts, roles, and groups.
* Taking care of deployments using Docker and Ansible.
* Involved in deploying the applications in **QA**, **UAT**, and production environments.
* Managed **Kubernete**s charts using **Helm**, and Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** deployment and service files and managed releases of **Helm packages**.
* Provided consistent environment using **Kubernetes** for deployment scaling and load balancing to the application from dev through production, easing the code development and deployment pipeline by implementing Docker containerization with multiple namespaces.
* **Kubernetes** EKS Service was used to orchestrate the deployment, scaling, and management of Docker containers and created manifest files for Deployments, pods, secrets, Config Maps, PV, and PVC Replica Sets.

# PROJECT 1:

**Domain: HealthCare Role: DevOps Engineer Responsibilities**:

* Launching EC2 Windows / Linux instances on Amazon cloud and creating security groups, changing rules and restricting access, and configuring cloud watch alarms along with SNS notifications.
* Used security groups, network ACLs, internet gateways, and route tables to ensure a secure zone for organizations in AWS public cloud.
* Created and configured elastic load balancers and auto-scaling groups to distribute the traffic and to have a cost-efficient, fault-tolerant, and highly available environment.
* Creating branches and tags using **GIT**. Setup Git, create branches, tags, create Users and Groups, assigning permissions.
* Automate the Build Process Using **Jenkins** jobs.
* Responsible for providing support for the Build and deployment of the application.
* Creating jobs using Jenkins. Manage installations of node, deployment configuration, and administration, backup. etc.,
* Automated the Build Process using Jenkins and handled the complete Build and Release process.
* Configured and maintained **Jenkins** to implement the CI process and integrated the tool with Maven to schedule the builds.
* Deploying and supporting the applications on Docker.
* Verify Deployments logs to check for successful deployments.