**Sai Dheeraj**

**Devops Engineer**

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**Objective:**

Design and Implement DevOps practices at a large scale using open-source tools to achieve faster application deployment cycles and to achieve high up-time of applications using a stabilized and self-healing infrastructure

**Profile Summary:**

* Having a good experience working in the DevOps area, working with various CI/CD implementations involving different phases from code compilation to deployment, Environment management, and maintenance.
* Solid experience with Linux (Ubuntu and RedHat) operating systems.
* Hand-on experience on Infrastructure as a code (IAAC) Terraform.
* Automated infrastructure Deployment by using Jenkins pipeline.
* Worked on a CI/CD Jenkins for automating the entire application deployment life cycle process.
* Worked on Jenkins jobs for end-to-end Application deployment.
* Good Knowledge of creating users and restricting permissions to the jobs and giving access to the respective jobs by customizing the permissions in Jenkins.
* Good Experience of storing artifacts in S3 buckets by enabling versioning and Enabling S3 Bucket Cross Region Replication.
* Worked on Docker like managing containers, and images, and establishing the communication between the containers.
* Knowledge on working with docker Swarm and Stack.
* Good Experience of configuration management tool Ansible.
* Hands on knowledge on core concepts in Ansible such as setup, Ad-hoc commands, Playbooks, and handlers.
* Worked on web server Apache2, Tomcat, and Databases like RDS.
* Good Knowledge in installing and configuring K8S master and K8S nodes and established communication between them.
* Well aware of the advantages, architecture, and complete workflow of Kubernetes.
* Hands-on experience in Working on AWS cloud services IAM, VPC, EC2, S3, Elastic Block Storage, Elastic Load Balancer.

**Professional Experience:**

Working as an Devops Engineer in Infosys.

**Technical Expertise:**

**Client: Liberty Global**

Liberty Global is the world’s largest international tv and broadband provider. Improving development and deployment automation techniques across large-scale data analysis and storage clusters. We aim to analyse end user access device metrics for more than 100 million devices.

Tools:

|  |  |
| --- | --- |
| Version control system | Git, GitHub |
| Integration | Jenkins |
| Configuration management | Ansible |
| Containerization tool | Docker, K8s |
| Infrastructure as a Code | Terraform |
| Application server | Tomcat |
| Cloud Environment | AWS |
| Artifactory | S3/Jfrog |
| Ticketing tool | SharePoint, JIRA, USMS |

**Roles & Responsibilities:**

* Created Infra By using Terraform with Jenkins Pipeline.
* Installed Software’s by using Ansible Playbooks.
* Deploying end product in tomcat web server and other application servers before production.
* Taking backups of code and Databases before new deployments.
* Checking and automating if the Servers are running out of disk.
* Monitoring of all the Services running on the servers.
* Integrated many tools with Jenkins like Git, Maven, S3, Terraform, and Tomcat.
* Worked on Jenkins by installing, configuring, and maintaining continuous integration

(CI) and End-to-End automation for all builds and deployments

* Configured many scheduled projects so that they can run frequently without the manual trigger.
* In case of any new project setup, creation of new jobs in Jenkins for some basic tasks.
* Configuring pre and post-build actions in Jenkins as per project requirements
* Deploying artifacts like JAR, and WAR, into application servers Apache Tomcat and storing it on Artifactories.
* Used Ansible vault to secure information like passwords and secret key files.
* Making configuration changes on Servers using Ansible
* Writing Playbooks for automating the daily tasks with Ansible Roles.
* Taking backups of Instances and taking backups of Production Databases and Providing them to Developers on Staging/ Testing Environments for testing of any issues
* Pulling the Artifacts from the S3 and Deploying them to the Tomcat server through the Ansible Playbooks.
* Maintaining Confluence pages for the Documentation for Daily tasks.
* Creating servers, AMIs, and storage blocks in S3 taking snapshots, VPCs, subnets, load balancing, and Auto-scaling in AWS.
* Administering users, groups, and roles & setting up policies by using IAM and also Creation of VPCs, S3 buckets, and Ec2 Instances automating them through Terraform.
* Manage and configure AWS services as per the business needs (ELB, EC2, S3, IAM, and VPC).

**Declaration:**

I hereby declare that the information furnished above is true up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Srikalahasti Name: A. Sai Dheeraj