**Name**

[**xxxxxxxx @gmail.com**](mailto:lakshmaiah.ndk@gmail.com)

Devops/AWS Engineer

**+91 xxxxxxxxx**

**Career Summary:**

4+ years of rich experience in various IT technologies includes, DevOps, AWS administration. Loves to understand, build, migration and operate distributed systems and system operations. Aspiring to work for a leading organization where I can utilize my technical and domain capabilities and make meaningful contributions to the organization’s growth and success.

**Technical Skills**

AWS Web Services : EC2, S3, VPC, Route 53, IAM, RDS, ECR, EKS, ELB , Auto Scaling, SSM,SNS.

DevOps Tools : Jenkins, Terraform, ELK, Packer, Ansible, Puppet, Git, Maven,Gradle

Orchestration Tools : Docker Swarm, Kubernetes

Web Servers : Apache, Nginx.

Application servers : Apache Tomcat.

File Systems : GlusterFS,EFS.

DB Server : Postgresql, MangoDB,MySQL,Aerospike

Monitoring Tools : Kibana, CloudWatch.

Log Aggregation Tools : ELK

Scripting Languages : Bash, Python

**Professional Summary**

* Extensive working knowledge on various tools like **Git, terraform, Kubernetes, ELK, packer, Jenkins, Ansible, Docker, Docker Swarm and Maven, Gradle,kafka,Sonarqube.**
* Worked on Automated the cloud deployments using **Terraform.**
* Extensively involved in infrastructure as code, change automation using Terraform, Managed AWS infrastructure as code using **Terraform.**
* Building the applications using the Maven,Gradle.
* Automated the build and release management process with CI/CD across Dev, QA, Staging and Production environments including monitoring changes between releases.
* Created multiple terraform modules to manage configurations, applications, services and automate installation process for web server and AWS instances.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by **Amazon Elastic Kubernetes Service for Kubernetes (EKS)**.
* Experience installing and developing on ELK Stack.
* Used **Elasticsearch** for powering not only Search but using **ELK stack** for logging and monitoring our systems end to end Using Beats.
* Responsible to designing and deploying new ELK clusters **(Elasticsearch, logstash, Kibana, filebeat, Metricbeat)** etc.
* Experienced in creating, configuring and maintaining Infrastructure on AWS Cloud services including **Virtual Private Cloud (VPC), EC2, EKS, ECR, RDS, S3, Route53, SNS, SSM, CloudWatch and IAM**.
* Proficient in creating playbooks to deploy Java applications on tomcat by using **Ansible**.
* Automating and Managing the Infrastructure on using Ansible.
* Creating Playbooks in Ansible for Configuration and Deployment activities.
* Worked on Docker files, swarm Managing Images and Containers and configuring the **Docker swarm** and **docker networks.**

**Education Qualifications:**

* **B.Tech** with specialization in Power electronics and drives from **xxxxxxx Institute of Technology & Science** in the year xxxx.
* **M.Tech** with specialization in Power electronics and drives from **xxxxxxx University** in the year xxxx.

**Professional Experience:**

**xxxxxx Technologies Pvt.Ltd**

**Project: Hyppr, aum July xxxx to Till Date**

**DevOps Engineer**

**Accomplishments:**

* Creating CI/CD pipelines by integrating Git, Gradle, and Docker, Kubernetes.
* Created a Continuous Delivery process to include support building of Docker Images and publish into a private registry.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes.
* Created apiresources like pods, Deployments,Configmap,Secrets,RollingUpdates and managed using Kubernetes.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Install nginx-ingress, elasticsearch, kibana,Filebeat,Metricbeat through helm.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Configured the ELK stack for application logs, and syslog's and system metrics, DockerMetrics using the beats plugins like Filebeat, Metricbeat.
* Expert on Terraform for building, changing, and versioning infrastructure safely and efficiently.
* Built and configured virtual data center in the AWS cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, inbound and outbound Security Groups, Route Tables, Elastic Load Balancer.
* Experience in creating S3 buckets, managed policies and utilized S3 Buckets and Glacier for storage, backup and archived in AWS.
* Implemented Kafka producer and consumer applications on Kafka cluster setup with help of Zookeeper.
* Have knowledge on partition of Kafka messages and setting up the replication factors in Kafka Cluster.
* Install, configure, backup and existing PostgreSQL, MangoDB, Aerospike databases.

**xxxxxx November xxxx to July xxxx**

**DevOps Engineer**

**Project: AI/ML**

**Accomplishments:**

* Creating repositories, new users for GIT, creation of new version-controlled branches, troubleshooting version control tool errors.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Container management using Docker by writing Dockerfiles and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Managed local deployments in Kubernetes, creating local cluster and deploying application containers.
* Creating Different namespaces for resource isolation, Providing RBAC permission to developers.
* Design, build and manage the ELK (ElasticSearch, Logstash, Kibana) cluster for centralized logging and search functionalities for the App.
* Responsible to designing and deploying new ELK clusters (Elasticsearch, logstash, Kibana, beats, etc.
* Elasticsearch and Logstash performance and configuration tuning.Write all the Grok filters in Logstash to trim the data.
* Created Dashboard’s and Monitored Data in Kibana, Used Elasticsearch for powering not only Search but using ELK stack for logging and monitoring our systems end to end Using Beats.
* Analyzing container logs and metrics through ECK (Elastic cloud Kubernetes).
* Write terraform scripts from scratch for building Dev, Staging, Prod environments.
* Automating build process for creating JAR/WAR artefacts using Maven.
* Installation, configuration and writing playbooks in Ansible.
* Leading the automation of implementation and configuration work through Ansible
* Automate the build process using continuous integration tools JENKINS.
* Worked on installing plug-ins, creating jobs, integrating test cases.
* Installed and configured Master/Slave Jenkins in a server and Client.
* Exposure to writing Linux shell scripting.

**xxxxxx Systems,**  **September-xxxx to October-xxxxx**

**Cloud Engineer**

**Accomplishments:**

* Experience in working on AWS and its services like AWS IAM, VPC, EC2, ECS, EBS, RDS, S3,Lambda, ELB, Auto Scaling, Route 53, Cloud Front, Cloud Watch, Cloud Trail, SQS, and SNS.
* Experienced in creating complex IAM policies, Roles and user management for delegated access within AWS.
* Understanding of EC2 storage and S3 storage, EC2 networking and deploying an EC2 linux instance.
* Adding an Elastic IP to linux instance, Allowing Networ Access, connecting to linux instance using ssh
* Created a key pair, adding a new disk, adding a swap and moving file to EC2 instance.
* Created folders in buckets and adding objects to buckets and folders and adding permission to S3 storage.
* Configured an S3 bucket for hosting website.
* Configured Ec2 Instances for high availability with Auto Scaling [Using EFS] along with ELB and changing the metrics/configurations as per the client request.
* Increasing EBS backed volume storage capacity when the root volume is full using AWS EBS Volume feature.
* Increasing EBS backed volume storage capacity when the root volume is full using AWS EBS Volume feature.
* Created AWS Route53 to route traffic between different regions.
* Writing/Manipulating Ansible playbooks and shell scripting to automate tasks and configurations.
* Good knowledge on Git
* Troubleshooting EC2 Instance Issues like: Instance limit exceed errors, Instance going from pending state terminating state, Insufficient instance storage capacity.
* Setting up Cloud Watch Alerts and Alarms for various AWS Services.
* Troubleshoot all occurring problems on 24\*7 bases.