

AKHIL KRISHNA
AWS DevOps Engineer

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PROFILE SUMMARY.

IT Professional total **5+years** of Experience in Software Development and Relevant experience **4.6years** Skilled at Operating in a wide range of Platforms like **AWS** and **Linux**. Having experience in **DevOps/AWS Software Configuration Management** which includes **Build Automation, Continues Integration, Continues Deployment, Continues Testing** and **Continues monitoring** using **Automation Tools**.

Professional Summary

- Good experience in AWS with provisioning & resource management and setting up Enterprise infrastructure on **Amazon Web Services (AWS)**.
- Experience in configure AWS services like **VPC, EC2, Auto scaling, AMI, EBS, ELB, IAM, Cloud Watch, RDS and S3**.
- Experience of configuring highly available, secure and robust **VPC** in **AWS**. Configured security groups, Network Access Control List, Routing Tables.
- Using volumes to provide persistence storage to containers. Worked on scaling our apps using metrics.
- Experience of configuring **Auto-scaling, Load Balancers** to handle the load on servers.
- Cloud Watch for monitoring server metrics, creating alarms & integrating with auto scaling in AWS.
- Took ownership of the task to be delivered and working extra hours if required to ensure that delivery is not impacted.
- Ability to learn and master new technologies and to deliver outputs in short deadlines.
- Experience on working with **GIT** and **GitHub** - Created Repositories, branches and providing access permissions to the developers over branches.
- Extensively worked on **Jenkins** for **CI/CD** and for End to End automation for all build and deployments using pipeline scripts and freestyle jobs.
- Deploying and Automated deployment of artifacts to various environments like **DEV, QA, and UAT/STAGING** through freestyle and pipeline script.
- Verify Deployment logs to check for successful deployments.
- Expertise in building automated **CI/CD pipeline** with the help of **Jenkins**.

- Configured Jenkins nodes to build jobs & distributing the load of Jenkins server and Achieved parallel builds using **master-slave** configuration.
- Good experience in writing **Ansible** Playbooks and deploying applications and provisioning Cloud services.
- Good Experience in containerization tool **Docker** and configuring the customized Docker containers and creating docker files for different environments.
- Good Experience in container orchestration tool **Kubernetes**. I am able to run stateless and stateful applications on k8s cluster, using health-checks, configmaps, and secrets, placement strategies using Node or pod.
- Expertise in Helm makes the deployment highly configurable. Applications can be customized on the fly during the deployment. By changing parameters, you can use the same chart for multiple environments such as dev, staging, and production

TECHNICAL SKILLS:

Operating systems	Linux(Ubuntu, Redhat, centos),Windows
Configuration management Tool	Ansible
CI/CD Tool	Jenkins,GOCD,
Web & Application Servers	Apache, Tomcat
Cloud Technology	AWS
Infrastructure automation	Terraform
Containerization Tool	Docker
Orchestration tools	Kubernetes
Monitoring Tools	Nagios
Code Coverage	SonarQube.
Binary Repository Manager	Nexus, Jfrog
Version Control Tool	Git, Github,Bitbucket , Harness,Gitlab
Build Management Tool	Maven.
Scripting Language	Shell & python & Groovy

Educational Qualification:-

Bachelor of Computer Applications (Computers), Rabindranath Tagore University.

Professional Experience:-

Currently working as DevOps Engineer at **IDFC First Bank** (payroll is **Datamatics**) , Bangalore from Mar 2023 to till date

Worked as a Devops Engineer at **Kingston Info Solution Services** from Jan 2019 to Mar 2023

PROJECTS:-

CLIENT:-IDFC First Bank

Description: Customer Data Platform is a mechanism IDFC used to gather information about various customers related queries. This helps in detecting the customers from on boarding, login and transactions.

Environment: AWS, GOCD, TwistLock, Jfrog, Docker, Kubernetes, Git, Terraform, python, Gitlab.

Role:- Devops Engineer

Responsibilities:

- I have been working closely with a team whose key responsibilities are creating and managing infrastructure for **Developers, testers and DB administrators** in a way to accomplish automation.
- Used **Bitbucket** repository to run **GOCD** job for Continuous Integration.
- Responsible for installation & configuration of Elastic agents on GOCD server to support various Java builds and publishing Docker images to the **Jfrog artifactory**.
- Implemented **Docker** containers to create customized images of the applications and creating image pull secret to pull the required image from the Artifactory.
- Deployments are Created and managed by using **Kubernetes Helm Charts**.
- Worked on setting up staging and production environment for **CI workflow** using GOCD, Gradle, Bitbucket, Twist lock, and Jfrog for every step in CI.
- Implemented **Continuous Delivery pipeline** involving **GOCD, Kubernetes Helm** to deploy the Docker image from build to higher environments using Manual intervention.
- Created **Service account & RBAC** to provide necessary permission for pods to get access for secrets and configmaps while doing deployment.
- Created **service** and attached to the **Service monitor** which expose to target port helps to scrape the metrics and send it to Prometheus.
- Deployed Prometheus stack and Prometheus operator in EKS cluster to check the health status for all the namespaces
- Deployed Grafana and add Prometheus as a data source over there for data visualization of cluster utilization and resources used by the cluster.
- Deployed ELK for Advanced logging to check the logs properly on timely basis for all the namespaces.

Project#2: Aviva

Role: DevOps engineer

Environment: AWS, RHEL, Git, Jenkins, Maven, Docker, Ansible, Terraform, Tomcat, and Kubernetes.

Description:

Aviva is a British multinational Insurance company headquartered in London. It had about 18 million Customers across its core markets of the UK. Aviva is a general insurer and a leading life and pension provider. Aviva is also second general insurer in Canada.

Responsibilities:

- Implemented AWS solutions using VPC, EC2, S3, RDS, IAM, Elastic Load Balancer, Auto-scaling, Security groups and cloud watch, Lambda.
- Creating various alarms in AWS to have continuous monitoring of resources and billing in AWS.

- Designed high availability environment for Application servers and database servers on EC2 by using ELB and Auto-scaling.
- Installing, configuring and administering Jenkins CI/CD tool. Creating CI/CD pipelines by integrating Git, GitHub, Jenkins, and Ansible.
- Hands on experience in provisioning, orchestration, packages, services, configuration and deployment using Ansible.
- Extensively Worked on Ansible and written playbooks for automation change configuration, provisioning, application deployments, services and packages on On-site servers.
- Managed servers on the AWS platform instances using Terraform.
- Using docker, I have written the customized Docker file for my application and building the docker images and storing it in Docker Hub registry then running the containers from that docker image whenever requirements needed.
- Creating a docker network and connecting docker containers to that particular network interface, creating the docker volumes and attaching containers to that volumes and backing up the Logs.
- Implemented Jenkins pipeline for deploying my customized Docker containers into the Kubernetes cluster.
- Implemented Jenkins for Continuous Integration Builds and Notifications exclusive for Dev as a self-help feature.
- Deployment automated through Jenkins Job with corresponding environment.

Declaration

I hereby declare that all the information furnished above is true and correct to the best of my knowledge and belief.

Place: Bangalore

Date:-