# MD AKMAL HUSSAIN

## DevOps Engineer (AWS Clouds)

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## WORK EXPERIENCE

**ONTRACK SOFTWARE PRIVATE LIMITED**

**www.ontrackbn.com**

2018 TO Presently
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Used Tools: VCS Version Control Systems, Git, GitHub, Btbuckets.

CI/CD: (Continuous Integration And Continuous Delivery).,
Jenkins, Tomcat Server Apache.

CLOUD-BASED:
AWS (Amazon Waveservice)
AKS (Azure K8S Service), GKS (GoogleK8S Service)

## WORK SUMMARY:

- ❖ Experience administering and deploying development CI/CD tools such as Git, GitLab, and Jenkins.
- ❖ Experience working on AWS/Azure/GCP cloud providers and managing Infrastructure as code on them, preferably using AWS CloudFormation and Terraform.
- ❖ Experience with container orchestration services, especially Kubernetes, OpenShift, and Docker.
- ❖ Experience with deploying and administering Kubernetes/OpenShift/AWS EKS clusters.
- ❖ Familiarity with Elastic Search and managing Relational Databases on Cloud.
- ❖ Experience with automating cloud-native technologies, deploying applications, and provisioning infrastructure.
- ❖ Hands-on experience with Infrastructure as Code, using Cloud Formation, Terraform, or other tools.
- ❖ Experience developing cloud-native CI/CD workflows and tools, such as Jenkins, Bamboo, TeamCity, Code Deploy (AWS), and GitLab
- ❖ Hands-on experience with microservices and distributed application architecture, such as containers, Kubernetes, and serverless technology.

## ROLES AND RESPOSIBILITIES:

- ❖ Working knowledge of Cloud platforms such as AWS, and Azure.
- ❖ OpenShift Enterprise implementation and support.
- ❖ Design, implement, and manage cloud-based infrastructure using AWS CloudFormation.
- ❖ Developed and maintained automation scripts for infrastructure provisioning and management.
- ❖ Collaborated with development teams to ensure that the infrastructure meets their requirements.
- ❖ Monitored and optimized the performance and security of our cloud-based infrastructure.
- ❖ Identified and resolved issues related to our cloud-based infrastructure.
- ❖ Implement and maintain continuous integration and delivery pipelines.
- ❖ Keep up-to-date with the latest cloud technologies and best practices.
- ❖ Expertise in AWS CloudFormation, including creating and managing CloudFormation stacks
- ❖ Experience with cloud-based infrastructure, including EC2, S3, and VPC
- ❖ Experience with infrastructure automation tools like Ansible, Puppet, and Terraform.
- ❖ Experience with source code management tools such as Git.
- ❖ Experience with containerization technologies such as Docker and Kubernetes.
- ❖ Excellent problem-solving skills and attention to detail.
- ❖ Strong communication skills and ability to work in a team environment.
- ❖ Installed Docker containers in Ubuntu, created pods, start, update, status monitoring, Reduced downtime,
- ❖ Created docker file, image building, and push in the git repository, and able to maintain VCS

❖ Installed Kubernetes in ubuntu 22.04, and related versions, AWS instances, Pods, Services, Secrets, ConfigMap.

❖ Virtualized in AWS with a different machine, Used different virtualization methods.

❖ Created a GitHub repository and configured the Docker Hub secrets.

❖ Created a new GitHub repository using a template repository in terraform.

❖ The repository contains a simple Docker file, and nothing else. Feel free to use another repository containing a working Docker file if you prefer.

❖ Created docker images, containerization, and maintained in Git repository.

❖ Open the repository Settings, and go to Secrets actions.

❖ Created a new secret named DOCKER_HUB_USERNAME and your Docker ID as value.

❖ Created a new Personal Access Token (PAT) for Docker Hub. You can name this token lockbox.

❖ Added the PAT as a second secret in your GitHub repository, with the name DOCKER_HUB_ACCESS_TOKEN.

❖ With our repository created, and secrets configured.

❖ Install the Git Bash terminal emulator

❖ Install Azure CLI.

❖ Install Terraform.

❖ Installed the Apache Tomcat 10.0.27, Installed Jenkins in ubuntu 20.04, configured and host in the web server.

❖ Configure your environment to run Terraform on Windows.

❖ Understand common Terraform and Azure authentication scenarios.

❖ Authenticate via a Microsoft account from Cloud Shell (using Bash or PowerShell).

❖ Authenticate via a Microsoft account from Windows (using Bash or PowerShell).

❖ Create a service principal using the Azure CLI.

❖ Create a service principal using Azure PowerShell.

## TECHNICAL SKILLS

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| :---: | :---: |
| Configuration Management Tool | Ansible |
| Quality Analysis | Sonar Queue |
| CI/CD Pipeline | Jenkins |
| IAC/PAAS/SAAS | Terraform |
| Containerization | Docker, Kubernetes |
| Cloud Formation | AWS |
| Data Storage | RDS, DB Mongo, MySQL. |
| IAM Policy | AWS |
| Web Server | Tomcat, Apache, Nginx |
| Shell Scripting | Power Shell, java script |
| RHEL | UNIX/Linux, Ubuntu, centos. |

I here mentioned in the document as per my experience and my knowledge, that any changes or upgradation need are highly appreciable.

Date:                                                                                    Signature:

Place: Hyderabad.