**MUHAMMAD SHAREEF**

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**PROFESSIONAL SUMMARY**

•Around 4 years of experience of IT with in building CI/CD pipelines, Infrastructure Automation and

Monitoring in

AWS including EC2, VPC, ELB, S3, EBS, and Route53, Configuration Management, Application

Development and Testing involving cloud computing platforms like Amazon Web Services (AWS),

And Google Cloud (GCP).

•Experience with highly availability and scalable infrastructure in AWS Cloud Services, (EC2, S3, ELB, Cloud Watch, SNS, SQS, Glacier, IAM, VPC) and managing security groups on AWS.

•Experience in designing a Terraform and deploying it in cloud deployment manager to spin up resources like

cloud virtual networks, Compute Engines in public and private subnets along with AutoScaler in Google

Cloud Platform.

•Experience in Designing, Architecting and implementing scalable cloud-based web applications using AWS and GCP.

•Design, Architect, building and management of IT infrastructure with complete cyber security solution

onhybrid as well as multi cloud, like AZURE & AWS.

•Working Knowledge on automation for deployment/configuration of different application servers like Web

Sphere like Apache, Tomcat and Web Containers like Nginx.

•Implemented a CI/CD pipeline involving Jenkins and Chef to complete the Automation for Deployment

•Good working knowledge of Build script and Automate solutions using various scripting languages like

Shell, and Python

•Planned and implemented VPC’s with multiple Availability Zones and multiple subnets to meet the dynamic

IP requirements

•Experience in Branching, Tagging and Maintaining the Version across the environments working on Software

Configuration Management (SCM) tools like Subversion (SVN) and GIT.

•Developed Bash script to migrate Unix/Linux servers from LDAP to Active Directory

•Implemented local Ubuntu APT server for hosting custom Debian packages, to automate the configuration

Ubuntu image running on android.

•Used Docker for containerizing applications and further scaling instances with respect to containers

•Integrated Docker container orchestration framework using Kubernetes by creating pods, config Maps,

deployments.

•Used Docker for containerizing applications and further scaling instances with respect to containers

•Configured VMs availability sets using Azure portal to provide resiliency for IaaS based solution and scale sets using Azure Resource Manager to manage network traffic.

•As a Cloud administrator responsible for building and configuring a new cloud infrastructure environment

Troubleshoot Azure related issues and engage internal teams for complex issues.

•Experienced in deploying and configuring Chef Server including Bootstrapping of Chef Client nodes for

provisioning and created (Roles, Recipes, Cookbooks and Data Bags) for configuration

•Knowledge in Designing, Installing and Implementing Ansible configuration management system and in

writing playbooks for Ansible and deploying applications

•Container management using Docker by writing Docker files and set up the automated build on Docker HUB.

•Creation of custom Docker (Container Images, Tagging and Pushing) the images and creating the Docker

Containers and Docker consoles for managing the application lifecycle.

•Migrated the development efforts from SVN repositories to Git (Bitbucket Server).

**TECHNICAL SKILLS**

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| **CLOUD** | AWS, GCP |
| **CI/CD TOOLS, BUILD TOOLS** | Jenkins, Terraform |
| **VERSION CONTROL TOOLS** | GIT, GITHUB |
| **CONFIGURATION MANAGEMENT** | Chef, Ansible |
| **MONITORING TOOLS** | Nagios |
| **CONTAINER TOOLS** | Kubernetes, Docker |
| **SCRIPTING** | Bash/Shell, YAML, Ruby |
| **DATABASES** | My SQL, Mongo DB |
| **APPLICATION SERVERS** | Apache Tomcat 5.x/7.x |
| **WEB SERVERS** | Apache HTTP, Apache TOMCAT |
| **OPERATING SYSTEMS** | AWS Linux, CentOS, Windows, Mac OS. |

**PROFESSIONAL EXPERIENCE**

**GEICO**  **Maryland**   **Aug -2021 to Present**

**Role: AWS/DevOps Engineer**

**Responsibilities:**

• Expertise in Amazon AWS Cloud Administration which includes services likeEC2, S3, Glacier, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups.

• Hands on Experience in using configuration management tools like Cloud Formation, Terraform & Ansible.

• Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment.

• Write Terraform scripts to provision AWS resources EC2, EFS, ECR, ECS, ELB, IAM roles &S3.

• Configured the Kubernetes provider with Terraform which is used to interact with resources supported by Kubernetes to create several services such as Config Map, Namespace, Volume, Auto scaler, etc.

• Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a Continuous Integration system.

• Configure monitoring and logging tools Splunk, Wily, Kibana using Python scripts and integrating it with internal servers to generate and automate reports to the management.

• Troubleshooting of Docker based applications. AWS Cloud management and Puppet automation.

• Aligned Azure and Google Cloud Platform capabilities and services with workload requirements.

• Experience in Private Cloud and Hybrid cloud configurations, patterns, and practices in Windows Azure and SQL Azure and in Azure web and database deployments.

• Building and Installing servers through Azure Resource Manager Templates (ARM).

• Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment on AWS environments through automated tools, Ansible / custom pipeline.

• Automated deployments, scaling, and operations of application containers across clusters of hosts, provided container-centric infrastructure by Kubernetes.

• Writing Python scripts to automate Database migration processes. Knowledge on Massive Data migration expertise from SQL to Postgre SQL.

• Deploying a Linux Kubernetes Clusters with ACS from the Azure CLI.

• Deploy, manage, and operate scalable, High Available, and fault tolerant systems on AWS.

• Capability to provide AWS operations and deployment and best practices throughout the lifecycle of a project.

• Experience with application/data migration to AWS and good knowledge on Chef.

Environment: AWS, Puppet, Terraform, Jenkins, Ansible, Azure, Kubernetes, GIT, WebSphere, Solaris, Jira, Linux, Web Logic, Python, Shell scripts.

**Big works Technologies - India**

**Role: Linux Admin**  **Feb 2018 – Nov 2019**

• As part of DevOps Team, Analyze the existing Projects Build and Release Process and provide the

necessary improvements and Automation avoiding repetitive manual tasks.

• Used Jenkins for automating Builds and Automating Deployments

• Designed DevOps workflow for multiple applications by Build, Release and Deploy phases through various

CI/CD pipelines using Git, Jenkins, and Chef.

• Migrating servers with the required configurations changes and testing and deploying the machines using

Chef Commands.

• used MAVEN as a build tool on java projects for the development of build Artifacts on the

source code.

• Involved in migration from GIT repos and worked with Linux system admins for the same.

• Developed Linux and Shell Scripts for manual deployment of the code to various environments

• Worked with the development team to generate deployment profiles (jar, war, ear) using ANT Scrip Jenkins.

• Created the naming strategy for branches and labels and implemented continuous integration system with

Git version control repository.

• Responsible for design and maintenance of the GIT Repositories, views, and the access control strategies.

• Releasing code to testing regions or staging areas as per the schedule published

• Managed and Created Apache Tomcat Run Environments on Linux and windows platform

• Automating the tasks using Chef Cookbooks, bash scripting.

• Assisted the end-to-end release process, from the planning of release content.

**EDUCATION**

**Masters in Infromation Security Systems**

University of the Cumberlands, Williamsburg KY –USA. Aug/2022

**Bachelors in mechanical engineering**

Osmania University, Hyderabad Telangana - India. Aug/2018