**Name: Mukarram Ali Mir**

**Email id:** [**mukarramalimir14@gmail.com**](mailto:mukarramalimir14@gmail.com)

**Professional Summary: -**

* Around 10 +Years of experience in encompassing DevOps migration, automation, Cloud Computing, and expertise in AWS and Azure cloud platforms.
* Design, prototype and deliver cloud-native solutions, harnessing the extensive service offerings of AWS, Azure, or OpenStack, tailored to specific cloud platforms.
* Experience in SaaS, PaaS, and IaaS for cloud implementation, covering storage, web apps, VPN gateway, container service, and monitoring with AWS and Azure.
* Experience in managing IAM policies in AWS, including group creation, user assignment, role definition, and rule-based access for organizational resource control.
* Experience in utilizing Terraform to script, launch, and manage cloud infrastructure while maintaining clean code through Workspaces and modules for infrastructure deployments.
* Expertise in deploying the Web Apps and Web APIs using Azure App Service.
* Experience in defining Terraform modules for provisioning and managing infrastructure resources, along with expertise in Terraform state management and best practices for large-scale deployments.
* Experience in using Docker and Kubernetes to deploy basic containers using Docker images, Docker Hub, and stored images in Docker registries, and Kubernetes to orchestrate Docker containers by creating cluster.
* Experience in scheduling, deploying, and managing container replicas on Kubernetes clusters and establishing a CI/CD runtime environment for building, testing, and deploying in an open-source platform.
* Installed, configured, and managed an Ansible Centralized Server, developed playbooks for middleware application servers, and utilized Ansible Tower for automating repetitive tasks.
* Experience in AWS provided Solutions like EC2 and ELB which includes Creating EC2 instances, adding EBS volumes for EC2 and familiar with VPC, Route 53, RDS, S3, IAM, SNS, SQS, ECS, EKS, SWF, SES, Auto scaling, Storage gateway, Elastic Beanstalk, CloudFormation and CloudWatch.
* Solid knowledge on IAM key concepts like federation SSO, SAML2.0, OAuth, OpenID connect, certificate/IAM lifecycle and other key concepts.
* Solid experience on Native SDK SSO flow using Hybrid oAuth Flow (Roku, Xbox)
* Experienced in Continuous Integration and Delivery of Web Apps using Azure Pipelines
* Extensive experience with Amazon Web Services (AWS) and its services, maintaining and improving infrastructure, split between physical data centers, and AWS and managing full AWS lifecycle, provisioning, automation, and security.
* Good working experience with databases like MySQL, SQL Server, DynamoDB, NoSQL, WordPress, Mongo dB and involved in creating stored procedures, functions, triggers and complex queries.
* Automating Web Sphere EAR file deploys through Cruise Control, Jenkins, Team City, and Bamboo.
* Worked in an agile development team to deliver an end-to-end continuous integration/continuous delivery product in an open-source environment using tools like puppet & Jenkins.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include Compiling, Packaging, Deploying and Application configurations.
* Extensively worked on Jenkins, Docker, and Team City for continuous integration and for End-to-End automation for all build and deployments.
* Created and wrote shell scripts (Bash), Ruby, Python and PowerShell for automating tasks.
* Experience in managing cloud software deployments, with a focus on continuous integration and deployment using GitHub, Jenkins and Maven.
* Expertise in provisioning Windows and Linux virtual machines using Azure PowerShell, Azure CLI and Azure Portal.
* Development and version control of Chef Cookbooks, testing of Cookbooks using Food critic and Test Kitchen and running recipes on nodes managed by on premise Chef Server.
* Experience in implementing the SSO authentication and authorization using Azure Active Directory.
* Installed and Administered Kubernetes for container management, developed platform to host Micro services with Kubernetes multi-Master setup, Consul cluster for service discovery, Nginx Plus as the API Gateway.

**TECHINCAL SKILLS**

|  |  |
| --- | --- |
| **Version Control Tools** | Git/Stash, Git, GitHub, SVN, CVS, beanstalk, Gitbucket, Bitbucket, Git. .NET Frameworks, artifact management. |
| **Cloud Services** | AWS & Azure. |
| **Configuration management Tools** | Ansible, Terraform, Puppet & Chef. |
| **Containerization Tools** | Docker, Kubernetes & OpenShift. |
| **Build Tools** | Gradle, ANT & Maven. |
| **Monitoring and Logging Tools** | Nagios, Splunk, ELK, CloudWatch, Azure Monitor, Datadog, Prometheus, Grafana. |
| **Scripting and Programming Languages** | Python, Bash/Shell, PowerShell, Azure CLI Ruby, JavaScript, JSON, C, .NET PHP, Java/ J2EE. |
| **CI/CD Tools** | Jenkins, Bamboo, Hudson. oAuth |
| **Testing and ticketing tools** | SonarQube, Selenium, JIRA. |
| **Database Systems** | Oracle, MySQL, MariaDB, NoSQL (MongoDB, DynamoDB, Cassandra). |
| **Web Servers and Application Servers** | Apache, Nginx, WebSphere, WebLogic, JBoss & Tomcat. |
| **Operating System** | UNIX, Linux, Windows, Solaris, MacOS. |

|  |
| --- |
| **Client**: **Capital One, Boston, MA**. **Feb 2021 to Present** |
| **Role**: **Sr. AWS DevOps Engineer** |

**Responsibilities:**

* Designed and deployed numerous AWS applications, extensively utilizing services like SNS, SQS, Lambda, and Redshift to ensure high availability. Additionally, I managed CloudTrail logs and objects in AWS buckets.
* Set up Route 53 for AWS instances, implemented DNS services via Route 53 on ELBs for secure HTTPS connections, and managed DNS zones, assigning public DNS names to Elastic Load Balancer IPs.
* Built CI/CD pipelines with Jenkins for end-to-end automation, enabling streamlined build and deployment processes within a single pipeline.
* Developed a cloud migration strategy, implementing AWS services such as Database Migration Service and AWS Server Migration Service for seamless On-Premises to cloud transitions.
* Responsible for setup and construction of AWS infrastructure, including VPC, EC2, S3, DynamoDB, IAM, EBS, Route 53, SNS, SES, SQS, CloudWatch, CloudTrail, Security Groups, Autoscaling, and RDS, utilizing CloudFormation templates.
* Developed jobs for OAuth token purging using python scripts
* Implementation of new tools such as Kubernetes with Docker to assist with auto-scaling and continuous integration (CI) and upload a Docker image to the registry so the service is deployable through Kubernetes. Use the Kubernetes dashboard to monitor and manage the services.
* Experienced in Building, Testing, and deploying the applications by adopting the DevOps tools like GIT, Ansible, Jenkins, Dockers, and Kubernetes. Having good working experience in AWS with EKS by using CloudFormation.
* Proficiency in using Docker Hub, Docker Engine, Docker images and Docker Registry and used containerization to make applications platform when moved into different environments.
* Installed Ansible Tower, which offers a user-friendly dashboard and role-based access control (RBAC) to facilitate team-specific access for Ansible deployments.
* Collaborated with a cross-functional team of application developers, operations engineers, architects to understand complex product requirements and translate them into automated solutions that we built.
* Created Amazon EC2 instances using command line calls and troubleshoot the most common problems with instances
* Involved in supporting cloud instances running Linux and Windows on AWS, experience with Elastic IP, Security Groups and Virtual Private Cloud in AWS
* Implemented the SSO Authentication and Authorization using Azure Active Directory.
* Configured Amazon EC2, Amazon S3, Amazon Elastic Load Balancing AM and Security Groups in Public and Private Subnets in VPC services in the AWS.
* Created CI/CD pipelines and setup auto-triggers, auto-builds and auto-deployments using Jenkins.
* Proficient with build automation, orchestration, and dependency management tools such as Ant and Maven.
* Used Ansible playbooks (YAML scripts) and terraform to automate the entire deployment process as well as the infrastructure.
* PHP, MariaDB/MySQL, MSSQL, Oracle, DevOps, ERP, OAuth, SAML, JIRA, SAP, INFOR, H/MVC, many more.
* Developed jobs for OAuth token purging using python scripts
* Virtual Layer Nutanix install on vcenter ESXi hosts. VirtuaDesk Layer.
* Wrote AWS Lambda functions and IAM policies to handle monitoring, auditing, permissions, and security automation across multiple AWS accounts including provisioning IAM access roles and least-privilege checks, locking down subnets and security groups, configuring EC2 groups and ECS clusters, auto-tagging resources, setting up CloudWatch rules and alarms, integrating with Slack.
* Developed and implemented software applications and systems using various tools and technologies including Golang, AWS, Docker, and Cassandra.
* Took over administration and design of Citrix environment (XenServer, PVS, XenApp 4-6)
* Deployed and configured Elasticsearch, Logstash, and Kibana (ELK) for log analytics, full-text search, and application monitoring, integrating them with AWS Lambda and CloudWatch.
* Deployed and managed containerized applications effortlessly through Elastic Kubernetes Service (EKS), benefiting from Serverless Kubernetes, integrated CI/CD
* Utilized CI/CD tools like Jenkins and GitLab CI/CD to automate code integration, testing, and deployment, reducing manual intervention and enhancing release consistency.
* Proficient in creating automation and deployment tools using Ruby, Bash, PowerShell, and Python, enhancing operational efficiency and reliability.
* Used Chef for server provisioning and release and deployment automation, configure files, commands, packages and automated the cloud deployments using chef.
* Designed and created multiple deployment strategies using CI/CD Pipelines and configuration management tools remote execution to ensure zero downtime, shortened deployment cycles via automated deployments.
* Expertise in Jenkins integration with various tools like Maven, Git, SonarQube, Nexus, Junit, implementing CI/CD automation by creating Jenkins pipelines and setup code repositories like SVN, GitHub, Bitbucket for performing build and release management activities like Merging, Branching, Tagging and managed.
* Developed Chef Cookbooks to modularize and optimize DB configurations, translated support scripts into Recipes, and provisioned AWS servers using Chef.
* Utilized Chef recipes to establish Continuous Delivery pipeline integrating Jenkins, SonarQube, and Vagrant, provisioning infrastructure and supporting components like Maven.

|  |
| --- |
| **Client**: **Comcast, Mount Laurel, NJ**. **Apr 2018 - Jan 2021** |
| **Role**: **Sr. AWS DevOps Engineer** |

**Responsibilities:**

* Implemented automated deployment pipelines using Jenkins and GitLab CI/CD, enabling seamless and consistent application releases.
* Involved in CI/CD workflows with GIT, Nexus, Octopus, and Maven, optimizing build and deployment pipelines for efficiency.
* Integrate oAuth implementations with AWS API Gateway.
* Designed and maintained infrastructure as code (IAC) using Terraform and Ansible, resulting in improved scalability and reduced provisioning time.
* Deployed and set up Amazon EC2 servers using Linux and Ubuntu AMIs, configuring applications as required through Jenkins pipelines.
* Worked wif various services of AWS: EC2,VPC,ELB, DMS,Security Groups, Autoscaling, Route53,EBS, S3, Lambda, ECR, SNS, EKS,IAM, etc.
* Experience and understanding of AWS Cloud-specific technologies such as EC2, EBS, S3, VPC, RDS, SES, ELB, EMR, ECS, CloudFront, CloudFormation, Elastic Cache, CloudWatch, Redshift, Lambda, SNS, DynamoDB, and Kinesis.
* Written in Shell to launch clusters, including EMR, EC2, and Amazon RDS, streamlining cluster deployment.
* Automated infrastructure with Terraform, enhancing auditability by tracking all changes in a version control system like Git.
* Worked on virtualization technologies like Citrix Desktop.
* Set up CI/CD pipelines for Microservices and integrated tools such as Maven, Bitbucket, SonarQube, Nexus, Docker, Slack for providing immediate feedback to DEV teams after code check-in.
* Used Ansible and Ansible Tower as configuration management tools to automate repetitive tasks, expedite critical application deployment, and proactively handle changes.
* Created Azure Resource group and provided role-based access control to users using Azure Management APIs
* Experience in AWS Ansible Python Script to generate inventory and push the deployment to.
* Used AWS Beanstalk to deploy and scale diverse web apps (Java, PHP, Node.js, Python, Ruby) efficiently, streamlining development and operations.
* Microsoft Servers 2008,2012,2016, RDS for hosting virtual application to be deliver in the store.
* Developed proof of concept for automated deployment status updates using Vert.x (push notifications), HTML, CSS3, JavaScript, JUnit, and Java.
* Configured Zookeeper, Kafka, and Logstash clusters for data ingestion, optimizing Elasticsearch performance, and utilizing Kafka for real-time data streaming.
* Installed, Managed and Configured monitoring tools such as Splunk, Nagios and CloudWatch for monitoring the logfiles, Network Monitoring, log trace monitoring and the hard drives status.
* Designed and worked with team to implement ELK (elastic search, log stash and Kibana) Stack on AWS.
* Responsible in deploying the application WARs, EARs in WebLogic application servers and troubleshoot any deployment issue.
* Created playbooks for OpenStack deployments and bug fixes with Ansible.
* Used Bash and Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs and scheduling Lambda functions for routine AWS tasks.
* Experience in working with GIT to store the code and integrated it to Ansible Tower to deploy the playbooks.
* Wrote the Vagrant scripts to spin up servers on the developer work stations.
* Designed & Implemented Configuration Management (PowerShell DSC)
* Responsible for orchestrating CI/CD processes by responding to Git triggers, human input, dependency chains, and environment setup.
* Worked with Docker Management Platform, Leveraged Custom Docker Images as Containerized Apps with the Docker Engine as a Multi Stack Application.
* Installation and configuration of monitoring tools Splunk, EFK, Grafana, and Prometheus for different environments.
* Experienced in performing installation, configuration, up grading & maintenance of OpenStack cloud environments and administration activities like capacity planning, performance management, day-to-day monitoring, troubleshooting, problem determination and resolution, Release and Configuration Management and/or SDCL process, user account management & security, Backups & Restore.
* Provided support in the performance testing using JMeter task includes developing test plan, test script and reports.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, CHEF, and custom Ruby/Bash scripts.
* Configuring Sharding, monitoring, and identify the proper shard key Selection, inserting large amounts of data Performing Security measures, backups and restore backups for MongoDB.

|  |
| --- |
| **Client**: **AT&T, Atlanta, GA**. **Sep 2015 - Mar 2018** |
| **Role**: **Sr. DevOps Engineer** |

**Responsibilities:**

* Managed Ansible Playbooks with Ansible modules, implemented CD automation using Ansible, managing existing servers and automation of build/configuration of new servers.
* Created Ansible playbooks to provision EC2 instances on AWS.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Deployed the static content to Apache web servers and applications to Tomcat Application server.
* Responsible for CI and CD using Jenkins, Maven and Ansible.
* Experience in writing Ansible playbooks to standardize job execution, centrally manage Ansible playbooks, and enable repeating execution using the Ansible Tower web interface.
* Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Developed chef Modules for installation & Auto healing of various CI&CD tools like Jenkins, MSSQL, Nexus etc. these modules are designed to work on both windows and Linux platforms.
* Expert in installing and configuring Continuous Integration tools such as Bamboo, Build Forge, Cruise Control and Hudson for build and deployment automation.
* Implemented Continuous Integration and Continuous Delivery using Azure Pipelines.
* Developed Chef Cookbooks for database configurations, optimizing product settings, and transformed production support scripts into Chef Recipes for AWS server provisioning.
* Use Amazon RDS MySQL to perform basic database administration. Set up DynamoDB for NoSQL data for other teams on lightweight Docker containers with elastic search and quick indexing.
* Utilized Ansible for configuration management of hosted Instances within AWS.
* Integrated existing systems into AWS/EC2 cloud infrastructure. Built/maintain ansible playbooks and used that to push out bi-weekly application updates.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Experience documenting and installing various 3rd- party applications throughout the Citrix Virtual Layers Environment.
* Used Ansible Vault in Ansible playbooks to safeguard sensitive data and created and used Ansible templates to produce customized configuration files for hosts.
* Developed AWS Lambda and AWS S3 using Golang.
* Created Chef Recipes and cookbooks, profiles and roles using Ruby and JSON scripting and have migrated all nodes from Ansible configuration system to chef system.
* Ability to build deployment, build scripts, automated solutions using Bash, SHELL, Ruby, and Python.
* Implemented a production-ready Kubernetes cloud architecture with microservice container orchestration that is load balanced, highly available, fault tolerant, and auto scaling.
* Created tools using python, shell scripting, and XML to automate some of the tedious operations.
* Administered Git, establishing release branches, assisting with branching, reporting, and providing project and end-user support.
* Configured and used Git repository in Azure Repos for version controlling
* Hand on experience with installed and configured Citrix Xen servers.
* Developed a branching and tagging technique to keep the source code in the GIT repository current; With the use of GIT source control, proper branching, labeling, and naming rules were developed in coordination with developers.
* Experienced in Writing Chef Recipes to automate our build/deployment process and do an overall process improvement to any manual processes.
* Established Chef best practice, approaches to systems deployment with tools such as vagrant, test-kitchen and the treatment of each Chef cookbook as a unit of software deployment, independently version controlled.

|  |
| --- |
| **Client**: **Chewy, Boston, MA**. **May 2013 - Aug 2015** |
| **Role**: **DevOps Engineer** |

**Responsibilities:**

* Designed and implemented Puppet code to standardize and streamline the deployment of Linux and Windows servers, including packages, services, and file configurations and implemented Puppet code to standardize and streamline the deployment of Linux and Windows servers, including packages, services, and file configurations.
* Experience with ANT as a build automation tool, creating build and deployment scripts in Bamboo to automate builds, deployments, and environment transitions, including adapting ANT files for project requirement changes.
* Developed automated build and deployment using Maven and Jenkins using Tomcat as the application server.
* Experience in Configuration Management policies and practices with regards to SDLC; along with automation of scripting using BASH/Shell, Perl scripting.
* Configured Rancher and created/imported clusters using EKS .
* Created and configured the Virtual Networks and subnets using Azure CLI.
* Monitored system and Tomcat/WebSphere server performance using Nagios, Zabbix, JMX, and Console, troubleshooting and optimizing for peak functionality.
* Created puppet manifests and modules to automate system operations.
* Administered Ansible playbooks and roles for AWS resource management (EC2, RDS, VPCs, security groups)
* Building a Command line tool to interact with RESTful API using in Golang.
* Extensive experience in Application Deployments and Environment configuration using Chef, Puppet, Ansible.
* Experience with PAAS/IAAS development: using Angular JS, Docker, Ansible.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Designed and implemented AWS IAM policies, effectively regulating access and permissions across diverse AWS resources, such as EC2, S3, RDS.
* Delivered solid business value by designing an active-active AEM Publisher strategy to double capacity
* Experience writing data APIs and multi-server applications to meet product needs in Golang.
* Created backend Java web service (using Eclipse) to be used by the front end.
* Designed, deployed, managed and scalable AWS EKS Kubernetes clusters, guaranteeing robust application availability and scalability through effective management.
* Used Perl & Shell scripts to automate build & release process; managed Maven project dependencies.
* Deployed the web services code To JBOSS App server using Serena deployment utility to trigger the Maven scripts to deploy to the correct locations on the server.
* Used Helm charts for application integration across various ports, encompassing service, deployment, and ingress YAML files for streamlined configuration.
* Configured and managed Nagios for monitoring over existing AWS Cloud platform, Cloud Watch.
* Build Nagios monitors for new services being deployed
* Proficient in crafting Terraform (TFS) scripts for cloud infrastructure, covering Development, Staging, Production, and Disaster Recovery setups from scratch.
* Performed code line GIT pushes (releases) to production and customer servers and developed and improved GIT push scripts.
* Standardized change management process with adoption of Rancher (for Kubernetes) with AWS EKS.
* VDA Installation on XenApp Terminal Servers and VDA installation on all VDI Master Images to deliver vdi and virtual applications to users through Citrix Store and Remote Desktop Services, RDS. External and Internal.

**Education:**

* **Bachelors in Computer’s Science from Osmania University**