

Mohammed Azlan Irshad

Employer Details:

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Professional Summary:

- Around 10+ Years of successful professional experience as SRE AWS infrastructure Engineer, DevOps Engineer, Build/Deploy Engineer and Release Management and Linux Administrator with proven leadership and mentoring skills.
- Expertise in managing applications by implementing AWS services which includes EC2, S3, EBS, VPC, ELB (Elastic Load Balancing), AMI, SNS, RDS, IAM (Identity & Access Management), Route 53, Lambda, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups.
- Creative in automating, configuring and deploying instances on AWS cloud environments and Datacenters.
- Developed automation and processes to enable teams to deploy, manage, configure, scale, monitor applications in Data Centers and in AWS Cloud.
- Experience with AWS provisioning EC2 Infrastructure, VPC setup, Auto Scaling for availability of EC2 Instances and availability of applications and deploying applications in Elastic load balancing.
- Experience on creating S3 buckets and managed policies for S3 buckets and utilized S3 Buckets and Glacier for storage, backup and archived in AWS and experience in setting up and maintenance of Auto-Scaling AWS stacks.
- Utilized AWS Beanstalk for conveying and scaling web applications and administrations created with Java, PHP, Node.js, Python, Ruby, Ansible and Chef on commonplace servers like Apache.
- Develop and managed cloud VMs with AWS EC2 command line clients and management console implemented DNS service through Route 53 on ELBs to achieve secured connection via https.
- Designed highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance, AMIs and Glacier for QA and UAT environments.
- Created complex Identity and access Management (IAM) policies for delegated administration within AWS.
- Used AWS Elastic Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, Nginx and IIS.
- Good Experience in configuring Azure web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure Traffic manager, App services, Analyzing Azure Networks with Azure Network Watcher, Implementing Azure Site Recovery, Azure stack, Azure Backup and Azure Automation.
- 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.
- Expertise on Migrate of IaaS, PaaS and SaaS instances between public and private clouds.
- Experience on DevOps essential tools like Subversion (SVN), Salt Stack, Chef, Puppet, Ansible, Jenkins, Docker, Kubernetes, Terraform, Git, GitHub, Subversion, Tomcat, Nginx, WebSphere, WebLogic and JBoss.
- Good experience in OpenStack services such as Horizon, Keystone, Nova, Neutron, Glance, Cinder, Ceilometer and Swift.
- Used Chef for configuration management of hosted Instances within GCP. Configuring and Networking of Virtual Private Cloud (VPC).
- Experience in Virtualization technologies like VMware ESX/ESXI, CITRIX XEN SERVER/OPENSTACK and involved in the maintenance of virtual servers.
- Implemented Terraform modules for deployment of various applications across multiple cloud providers and managing infrastructure.
- Good working experience with Docker Trusted Registry as repository for our Docker images and worked with Docker container networks.
- Experience in using Docker to run and deploy the applications in multiple containers like Docker Swarm and Docker Wave.
- Used Containerization tools like OpenShift, Docker and Kubernetes for automated deployments, scaling and management of containerized applications across clusters of hosts.
- Expertise in Writing Chef cookbooks and Recipes to automate our build/deployment process and do an overall process improvement to any manual processes.

- Implemented Chef Recipes for Deployment on build on internal Data Centre Servers. Also, re-used and modified same Chef Recipes to create a Deployment directly into Amazon EC2 instances.
- Experience on automating various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and worked on Integrating Ansible with Rundeck and Jenkins.
- Implemented puppet modules to automate the installation and configuration for a broad range of services also implemented Puppet hiera to separate data from puppet code.
- Developed strategies and supported tools to create an efficient automated integration and release process using Jenkins and implemented Continuous Integration using Jenkins and GIT from scratch.
- Expertise in build tools like Ant, Maven, Arti factory, Nexus, Gradle to write POM.XML build scripts etc.
- Good Knowledge in managing multiple corporate applications into GitHub code management repo and creating user level of access for related GitHub project directories to the code changes.
- Good Experience in branching, tagging and maintaining the version across the environments using SCM tools like GitHub, Subversion (SVN), Perforce, Tortoise SVN, IBM Rational team concert and Rational Clear Case on Linux and windows platforms.
- Good Knowledge in various Bug tracking tools like JIRA, Zabbix, Bugzilla, Rally, Remedy, HP quality center and IBM clear quest.
- Good Experience in Linux Administration (Installation, Configuration, Tuning and Upgrades of Linux RedHat and Oracle) and UNIX like Red Hat 4.x, 5.x, 6.x, Ubuntu, CentOS, Solaris.

Technical Skills:

Cloud Platforms	AWS, Azure, Google Cloud Platform
SCM/Version Control Tools	GIT, GitHub, SVN, Bitbucket
Continuous Integration Tools	Jenkins
Build Tools/ Tracking Tools	Maven, ANT/ JIRA, BUGZILLA
Configuration Management Tools	Chef, Ansible
Containerization Tools	Docker, Kubernetes
Scripts/ Languages	UNIX, HTML, Bash, Ruby, YAML, Python, Perl, Groovy, SQL.
Databases	Oracle, SQL Server, PostgreSQL, MS SQL, MongoDB.
Networking Protocols	TCP/IP, SSH, FTP, DHCP, SCP
Monitoring Tools	Nagios, Splunk, CloudWatch, ELK
Bug Tracking Tools	JIRA, Bugzilla
Operating System	UNIX, Linux (Ubuntu, RHEL, Centos), Windows

WORK EXPERIENCE:

Synovus Bank, Columbus, GA

Aug 2020 - Till date

SRE / Sr. AWS Infrastructure Cloud DevOps Engineer

Responsibilities:

- Configured and Implemented various AWS services such as EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, optimized volumes, and instances, configured different storage range of S3 classes adding versioning and lifecycle policies and backup files and archive files in Glacier, used IAM and its features.
- Used security groups, network ACLs, Internet Gateways, NAT instances and Route tables to ensure a secure zone for organizations in AWS public cloud. Created scripts in Python (Boto) which integrated with Amazon API to control instance operations.
- Configured Elastic Load Balancer (ELB) including high availability of ELB using various subnets in various availability zones and used Amazon Route53 to manage DNS zones and give public DNS names to Elastic Load Balancers IPs.
- Created user-friendly interface using HTML, CSS, JSP and JavaScript for client-side validation
- Designed the user interfaces using JSPs, developed custom tags, and used JSTL.

- Experienced in implementation of JMS to exchange information over reliable channel in an asynchronous way by using ActiveMQ, RabbitMQ and Kafka as a message queue.
- Used AWS Fargate , built a serverless compute engine and provisioned ECS task definition, stored the repositories in ECR and worked on managing containers using Amazon Elastic Kubernetes Service (EKS).
- Modernized the application by moving monolithic to microservices and created repository for the Jenkins Docker image using Amazon ECS definitions to launch containers on Amazon EC2 instances.
- Provisioned the highly available EC2 Instances using Terraform and cloud formation and wrote new plugins to support new functionality in Terraform. Configured RDS instances using Cloud Formation and Terraform and used Terraform to map more complex dependencies and identified network issue.
- Used Apache Kafka (Message Queues) for reliable and asynchronous exchange of important information between multiple business applications.
- Worked on Terraform for automating VPCs, ELBs, security groups, SQS queues, S3 buckets, and continuing to replace the rest of our infrastructure and migration from traditional to cloud environment.
- Developed strategy for cloud migration and implementation of best practices using AWS services like database migration service(DMS), AWS server migration service from On-Premises to cloud.
- Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
- Developed new REST API services that work as a middleware between our application and third-party APIs that we will use using Golang. Experience writing data APIs and multi-server applications to meet product needs using Golang.
- Used HTTP Cloud Function to automatically re-deploy another HTTP Cloud Function stored on GitHub when a commit is pushed. Use Cloud Functions as an integration point between the Amazon Simple Notification Service (SNS) and Pub/Sub. The function is implemented in Node.js.
- Automated the migration of Subversion (SVN) repositories to Git while preserving the commit history and other metadata like branches, tags, and authors. Experience in managing source control repositories like GIT by creating new Repositories and creating user level credentials.
- Setup Continuous integration with Jenkins and make use of wide range of plugins available to setup smooth developer friendly workflows. Made use of Gradle and maven for building applications and written structured pom which can be consumed by Jenkins.
- Create and configured the continuous delivery pipelines for deploying Microservices and Lambda functions using Jenkins CI server. Developed Python and shell scripts for automation of the build and release process.
- Virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers. Container management using Docker by writing Docker files and set up the automated build on Docker HUB.
- Use of Docker and Kubernetes to manage micro services for development of continuous integration and continuous delivery. Have experience working Cassandra on dockers containers and Cassandra on cloud.
- Created and deployed Kubernetes pod definitions, tags, labels, multi-pod container replication. Managed multiple Kubernetes pod containers scaling, and auto-scaling. Deployed pods using Replication Controllers by interacting with Kubernetes API server defining through declarative YAML files.
- Worked on creation of Ansible manifest files to install tomcat instances and to manage configuration files for multiple applications. Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
- Managing existing infrastructure and created new infrastructure using Ansible as Configuration Management Tool.
- Responsible for automated identification of application server and database server using Ansible Scripts.

Environment: EC2, S3, RDS, EBS, GIT, MAVEN, LINUX, Windows, EC2, MY SQL, Python, java, Docker, Kubernetes, Ansible.

Cardinal Health, Columbus, Ohio

March 2019 – July 2020

SRE / Sr. AWS Infrastructure Cloud DevOps Engineer

Responsibilities:

- Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.

- Wrote AWS Lambda functions in python for AWS's Lambda which invokes python scripts to perform various transformations and analytics on large data sets in EMR clusters.
- Experienced in using AWS Elastic Beanstalk as Platform as a service (PaaS) to manage the AWS cloud environment.
- Collaborated in the automation of AWS infrastructure via Terraform and Jenkins - software and services configuration via chef cookbooks.
- Managing Cloud Services using AWS Cloud Formation, which helped developers and businesses an easy way to create a collection of, related AWS resources and provision them in an orderly and predictable fashion.
- Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
- Responsible for day to day Build and deployments in Dev, QA, pre-production and production environments. Implemented AWS high-availability using AWS Elastic Load Balancing (ELB), which performed balance across instances in multiple availability zones.
- Responsible for building scalable distributed data solutions using Hadoop Eco System.
- Implemented a centralized logging system using log stash configured as an ELK stack (Elastic search, Log stash, and Kibana) to monitor system logs, AWS Cloud Watch, VPC Flow logs, Cloud Trail Events, changes in S3 etc.
- Maintained DNS records using Route53 to Improve Fault Tolerant Connections and using Load balancer, Security groups and NACLs.
- Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
- Created snapshots and Amazon machine images (AMI) of the instances for backup and creating clone instance.
- Experience in Designing, Architecting and implementing scalable cloud-based web applications using AWS and GCP.
- Built and configured a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
- Configured AWS cloud infrastructure as code using Terraform and continuous deployment through Jenkins.
- Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment.
- Built and managed a large deployment of Red Hat Linux instances systems with Ansible, Terraform Automation and provision virtual servers using vagrant and kitchen in Oracle VM virtual box, provisioned servers in Amazon EC2.
- Installed & maintained XEN & VMWare servers with multiple VM's running a multi VLAN Physical & VM environment.
- Built a presentation to present the design of hosting architecture on Windows Azure.
- Focused on containerization and immutable infrastructure. Docker has been core to this experience, along with Mesos, Marathon and Kubernetes.
- Extensive experience monitoring the servers using Nagios, ELK, Cacti and New Relic. Configured Docker containers for Branching purpose and deployed using Elastic Beanstalk.
- Experience in Setting up Chef Workstation, Bootstrapped instances using Chef and integrating with Auto Scaling.
- Experienced with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment.
- Implemented Ansible to manage all existing servers and automated build/configuration of new servers.
- Implemented Continuous Integration using Jenkins and GIT from scratch.
- Implementing multi-tier application provisioning in OpenStack cloud, integrating it with Jenkins and SonarQube.
- Developed build scripts using ANT/MAVEN and Gradle as the build tools for the creation of build artifacts like war or ear files.
- Dealt with errors in pom.xml file to obtain appropriate builds using maven build tool.
- Used sub modules in the GIT and educated users working with sub modules in GIT.
- Developed and scheduled bash shell scripts for various activities (deployed environment verification, running database scripts, file manipulations, Subversion (SVN) etc.)
- Worked with different bug tools like JIRA, IBM Clear Quest.

- Hands on experience with IAM to set up user roles with corresponding user and group policies using JSON.
- Designed Methodologies to troubleshoot based on the issues and documented all the procedures to educate team members.
- Implemented, integrated and managed Perforce as well as instituting accurate and automated build and release methodologies for Binary compilation for Apache HTTP/HTTPS, Tomcat, PHP and MySQL.
- Experience with threat modeling, especially for web application and web APIs.
- Working knowledge of using WebSphere App servers, Tomcat in building and deploying applications.
- Build high performance web services, using languages such as python.
- Experienced in build and deployment of Java applications on to different environments such as QA, UAT and Production.

Environment & Tools: EC2, Elastic Load Balancing, Elastic Bean Stalk, ECS, CloudFront, CloudFormation, Elastic Cache, CloudWatch, Route 53, Redshift, Lambda and Dynamo DB, LAMP, Nagios, Terraform, Kubernetes, Docker, Tomcat, WebSphere, Nexus, Chef, Ansible, Jenkins, Maven, Bash scripts, SVN, and GIT.

American Electric Power, Columbus-Ohio

May 2016 - Feb 2019

SRE / Sr. AWS Infrastructure Cloud DevOps Engineer

Responsibilities:

- Created AWS CloudFormation templates to create custom-sized VPC, subnets, EC2 instances, ELB, security groups. Worked on tagging standard for proper identification and ownership of EC2 instances and other AWS Services like Cloud Front, cloud watch, RDS, S3, Route53, SNS, SQS, Cloud Trail and Worked on Simple Storage Service (S3), Simple Notification Service (SNS) and CloudWatch.
- Involved in Architect, build and maintain Highly Available seclambdaure multi-zone AWS cloud infrastructure utilizing Chef with AWS CloudFormation and Jenkins for continuous integration.
- Migrated services from a managed hosting environment to AWS including service design, network layout, data migration, automation, monitoring, deployments and cutover, documentation, overall plan, cost analysis, and timeline.
- Developed HTML5 Mobile application with HTML5, Java, Jenkins, IIS, Java, SaaS, big data, cloud, POC, RBDMS, Java Script, jQuery, JSON and RESTful web service.
- Used API's, chef, python and AWS CloudFormation Templates, migrated automated on cloud deployments.
- Used Terraform in AWS Virtual Private Cloud (VPC) to automatically setup and modify settings by interfacing with control layer.
- Maintained multiple cookbooks in Chef by converting production support scripts to Chef recipes to automate the configuration and management of servers.
- Created Chef Cookbooks and Recipes to deploy new software and plugins and Used Ansible for configuring and managing multi-node configuration management over SSH and PowerShell.
- Created inventory, job templates and scheduling jobs using Ansible Tower. Downloaded and managed Ansible roles from Ansible Galaxy to automate the infrastructure. Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications.
- Created Ansible Playbooks to provision Apache Web servers, Tomcat servers, Nginx, Apache Spark and other applications.
- Setup Continuous Delivery pipeline using Ansible playbooks. This primarily consists of a Jenkins to run packages and various supporting software components such as Maven.
- Worked in all areas of Jenkins setting up CI for new branches, build automation, plugin management and securing Jenkins and setting up master/slave configurations.
- Developed build using MAVEN as build tools and used CI tools to kick off the builds move from one environment to other environments.
- Virtualized the servers on AWS using the Docker, create the Docker files and version control to achieve Continuous Delivery goal on high scalable environment, used Docker coupled with load-balancing Nginx.
- Worked with Docker for convenient environment setup for development and testing. Installed Docker Registry for local upload and download of Docker images and even from Docker hub.
- Involved in setting up Kubernetes (k8s) clusters for running microservices and Implemented a Kubernetes Container Orchestration solution within OpenStack allowing for easy management, creation & recovery of OpenStack assets.
- Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes AWS infrastructure and Docker container orchestration.
- Created repositories, branches, tags in Git and assist the developers to fix merging issues and to

- implement the parallel development process.
- Used Splunk to monitor server and application logs.
- Experienced in creating custom Build & Deployment automation solutions in scripting languages including Python, Shell, UNIX shell, Ruby, Perl and PowerShell
- Creating and branching and merging strategy with multiple branches and used Git as source code management repository to keep track of version changes.
- Configured JIRA workflows according to the needs to the CM team and integrated the project management features of with the build and release process.
- Applied software patches and upgrade server and client software for various NOSQL products to stay in compliance with security standards.

Environment: AWS, Lambda, Jenkins, Auto Scaling, Web logic, Nexus, JIRA, Ansible, Oracle, Terraform, Python, Maven, Java, Linux, Apache TOMCAT, ELK, GIT, LDAP, NFS, NAS, MS Share point, XML, Fedora, Windows, Splunk, Perl Scripts, Shell Scripts, Chef, Ansible, OpenStack, Docker, Kubernetes, OpenShift

Silicon Valley Bank, Santa Clara , CA

Feb 2013 – April 2016

DevOps Engineer

Responsibilities:

- Interacted with client teams to understand client deployment requests.
- Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
- Worked closely with Project Managers to understand a code/configuration release scope and how to confirm a release was successful.
- Build, manage, and continuously improved the build infrastructure for global software development engineering teams including implementation of build scripts, continuous integration infrastructure and deployment tools.
- Extensive use of red and Ansible to Package Applications using Containers.
- Created Jenkins jobs for multiple releases and export to NEXUS repository
- Created Gradle build script and configured it in Jenkins for build process.
- Created Jenkins jobs to listen for changes in SVN and GIT and execute the sequence of targets including compile, Junit, create jar and war file.
- Created repositories according the structure required with branches, tags and trunks.
- Attended sprint planning sessions and daily sprint stand-up meetings.
- Used sub modules in the GIT and educated users working with sub modules in GIT.
- Configured plugins for the integration tools to the version control tools.
- Extensive use of Chef and puppet for server automation and configuration management.
- Worked with the developers to configure plugins through Eclipse to develop the code.
- For check in process used Tortoise SVN as a migration tool.
- Involved in migration of Artifactory & Git server.
- Good in provisioning and deployment tools like Puppet and Chef.
- Developed and maintained Perl/Shell scripts for build and release tasks.
- Extensively used ANT tool to do the builds, integrated ANT to Eclipse and did local builds.
- Integrated Maven with Jenkins for the builds as the Continuous Integration process.
- Used .NET master pages, themes, Validation controls, and Content place holders, CSS3, HTML 5 and Web Forms for UI development in Test Driven Development.
- Strong in building Object Oriented applications using Java, writing Shell Scripts and Perl Scripts on UNIX.
- Use of Docker containers to run various applications and Deployment.
- Organized a daily stand-up post-deployment meeting to review all issues being tracked. Ensure every issue has an owner and that it is resolved while capturing the specific details about the issue, resolution, and which organizations and individuals provided the resolution.
- Documented all post-deployment issues in a log and assist in resolving these issues where applicable, maintaining timely updates within the log. Manual and Automation process of creating branches tags and code merging
- Ensured all steps are successfully completed and document their completion times and issue logs.

Environment: Perl Scripting, Puppet, Shell Scripting, Subversion, TFS, Jira, ANT, Maven, Spring TC Server, Jenkins, Web sphere.