**Azhar Khan**

**Toronto M1B6G8**

**Cloud DevOps Engineer**

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**Professional Summary:**

* Over 7+ years of experience in IT industry mainly specialization in Azure/AWS/Cloud/DevOps Engineer experience and Experience in Configuration management, Infrastructure automation, Continuous Integration and Delivery (CI/CD).
* I can implement effective strategies for N - Tier application development in both Cloud and On-premises environments.
* Familiarity to manage network traffic.
* Experience in using version controller tools like Subversion (SVN), GIT, IBM Clear case UCM and PVCS.
* Developed Agile processes using Groovy, J Unit to use continuous integration tools Worked for designing and creating a Micro services delivery platform Initiative.
* Exposed to all aspects of software development life cycle (SDLC) such as Analysis, Planning, Developing, and Testing, and Implementing, Post-production analysis of the projects.
* Created and wrote shell scripts (Bash), Ruby, Python and PowerShell for automating tasks.
* Wrote Python Code using Ansible Python API to Automate Cloud Deployment Process.
* experience migrating Oracle, SQL Server instances to AWS RDS (Oracle to Oracle migration, Oracle to Postgres migration, Oracle to MySQL)
* Experience in dealing with Unix/Linux and Windows server administration.
* Experience with a broad portfolio of AWS infrastructure resources (EBS, S3, EC2, Elastic IP, Redshift, EMR, Route 53, VPC, Security Groups and Network ACLs)
* Expertise in Architecting and Implementing Azure Service Offering, such as Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
* Build and Deployed batch processing Micro services
* Expertise in Azure Scalability and Azure Availability - Build VMs availability sets using the Azure portal to provide resiliency for IaaS based solution and Virtual Machine Scale Sets (VMSS) using Azure Resource Manager (ARM) e in Design and perform system management, database management, configuration management.
* Experience with deploying configuration management and CI/CD services such as (Puppet, Ansible, PowerShell, Jenkins, Vagrant, Dockers, JIRA, Cloud Formation, Elastic Beanstalk)
* Strong experience with the following technologies: Linux administration, Linux scripting (python, bash), MySQL, Postgres SQL, Microsoft Windows Server OS, Microsoft SQL, Microsoft Active Directory, Microsoft Remote Desktop Services, Citrix XenApp, VMware virtualization, Backup Software

**Technical Skills:**

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| --- | --- |
| **Cloud Environment:** | Amazon Web Services (AWS), Azure Cloud |
| **Infrastructure as code:** | Terraform, Cloud Formation. |
| **AWS Services:** | VPC, IAM, S3, Elastic Beanstalk, CloudFront, Redshift, Lambda, Kinesis, DynamoDB, Direct Connect Storage Gateway, DMS, SMS, SNS, and SWF. |
| **Azure Services** | Azure SQL Data Warehouse, Azure Service Bus, Azure Analysis Service (AAS), Azure Blob Storage, Azure Search, Azure App Service, Redis Cache using Pipeline and SSIS, infrastructure-as-a-Service (IaaS), Database-as-a-Service (DBaaS), Data Migration Service (DMS), Azure SQL Data, Elastic Pools |
| **ETL Tools** | Azure Data Factory (ADF), Azure Database Migration Service (DMS), EMT SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS). |
| **OPERATING SYSTEMS:** | Azure Virtual Machine (VM), Windows Server 2016, 2012, Linux (Red Hat, CENTOS & SUSE), Ubuntu, Solaris, EC2, DEBAIN, HP-UX, Windows. |
| **Scripting:** | Shell Scripting, Groovy, Python, Ruby, Perl and Power Shell, Yaml. |
| **Automation & Configuration Tools** | Chef, Puppet, Ansible, Jenkins. |

**Professional Experience:**

LBC Tech, Toronto, Canada, Nov 2019 – Present

**Azure DevOps Engineer**

**Responsibilities:**

* Administrating and supporting company’s Cloud infrastructure, ensuring it is secure, resilient and performance and responsible for complete **DevOps** activities and coordinating with development team.
* Involved in configuration for web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure traffic manager, App services.
* Created AWS EBS volumes for storing application files for use with AWS EC2 instances whenever they are mounted to them and installed PCF.
* Deployed VNETs and site-site VPN using PowerShell and deployed VMs into various subnets and enabled communications between subnets.
* Developed **PowerShell** scripts and ARM templates to automate the provisioning and deployment process.
* Successfully created pipeline of deployment & operation activities where all code is written in java, **python** & stored into BitBucket, for staging & testing purpose.
* GIT branches. Deployed **microservices**, including provisioning **AZURE** environment.
* Extended support for existing product teams on how to integrate CICD into development life cycle.
* Creating JIRA confluence articles for recent development performed POC and tech designs.
* Expertise in using **Nexus** and **Arti factory** Repository server for **Maven** and **Gradle** builds.
* Implemented cluster services using Docker and Azure **Kubernetes** **services** (AKS) to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Jenkins CI/CD pipeline.
* Maintained and automated
* Developed **Ansible** playbooks to manage Web Applications, Environments configuration files, Users, Mount, points and packages. Implemented Continuous Integration using Jenkins and GIT.
* Ensured, successful architecture and deployment of enterprise grade PaaS solutions using Private Cloud Foundry (PCF) as well as proper operation during initial Application migration and net new development.
* Moved all Kubernetes container logs, application logs, event logs and cluster logs, activity logs and diagnostic logs into Azure Event Hubs and then into **Splunk** for monitoring.
* Daily monitoring production servers using **Grafana** and **Prometheus** which is integrated with Kubernetes, exceptions and report to the team if something happen during standups.
* Managing **Azure** **DevOps** build and release pipeline. Setting up new repos managing the permissions for various

Scripts by using **Python** for automated deployments

* Drive end to end deployment of various components on the Azure cloud platform.
* Configured V-net integration, Active directory, Encryption, and security on Azure using **ARM** templates and PowerShell scripts.
* Preferable Azure by creating multilevel **hybrid pipeline** of CI & CD helped clients to achieve Kubernetes platform.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, stack monitoring using **Ansible** Playbooks using **Jenkins**.

Loblaw Companies Limited, Toronto, Canada, January 2018–Octember2019

**AWS Cloud Engineer**

**Responsibilities:**

* Experience in creating the company's **DevOps** strategy in a mix environment of Linux (RHEL, Ubuntu, CentOS) servers along with creating and implementing a cloud strategy.
* Extensive working experience with different **SDLC** methodologies such as **Agile** and **Waterfall** with an ability to be creative and to take self-initiatives to execute/manage multiple projects in parallel during time critical situations.
* Configured **Jenkins** as a build engine to build and deploy applications to **DEV**, **QA**, **UAT** and **PROD** environments.
* Configured in setting up **CICD** pipeline integrating various tool with **Jenkins** to build and run **Terraform** script **templates**.
* Experienced managing release planning and **branching** strategy of GIT servers and worked on creating repositories in **GIT** Stash for multiple applications configured **GIT** repositories in CI setup in Jenkins and Injected **Groovy** scripts in Jenkins for dashboard and customized email triggers.
* Set-up databases **using RDS, storage using S3 bucket** and configuring instance backups to S3 bucket.
* Automated various infrastructure activities like **Continuous Deployment**, Application Server setup, Stack Monitoring using **Ansible Playbooks** and integrated **Ansible** with Jenkins also provisioned and patched servers using **Ansible**.
* Experience in migrating on-premises data center to **AWS** cloud using VM Import/Export, **AWS** Data Migration Services.
* Chef, Puppet, Jenkins continuous development, Power shell, PHP, Python, C#, **Java, JavaScript, and Unix/Linux scripting**.
* Maintain and deploy builds in **UAT and Production environment.**
* Extensively Worked on **Docker** service rolling updates to implement **zero downtime PROD** deployments and worked with **Docker Trusted Registry** as repository for our **Docker** images and worked with **Docker swarm**.
* Experience working with **chef** Enterprise and **Chef** Opensource, **Chef** DK, **Chef** Workstation **chef** server and client working with the configuration/Deployment tools like **chef** (Knife, recipe, cookbook).
* Integrated **Splunk** Enterprise with **Dynatrace** to monitor the performance of the application, managing **Splunk** Forwarder on centralized deployment server.
* Developed backup and recovery engine for VM backup/recovery using VMware vSphere APIs.
* Maintained the user accounts (IAM), Cloud SQL, Cloud DNS, VPC, **RDB**, Cloud Datastore Cloud Bigtable, **SQS** and other services in **AWS**.
* Used **Chef** for configuration management of hosted Instances within **GCP**. Configuring and **Networking** of **Virtual Private Cloud (VPC).**
* Designed and implementing **AWS** Cloud Infrastructure by creating **templates** for **AWS** platform also used **Terraform** to deploy the infrastructure necessary to **create development**, test, and **production environments**.
* Experienced on **Docker** and **Ansible** to build automation pipeline and Continuous Deployment for code using Jenkins and wrote Ansible Playbooks to automate Ansible Servers using **YAML scripting**.
* Experience working with the **OpenShift** RedHat Enterprise which allows developers to quickly develop, host and scale applications in a self-manage cloud environment.
* Build servers using AWS, importing volumes, launching **EC2, RDS**, creating security groups, auto-scaling, **load balancers** (ELBs) in the defined virtual private connection.

Fidelity Investments, Montreal, Canada, July 2016 – December 2017

**DevOps Engineer**

**Responsibilities:**

* Engineered Amazon Web Services (AWS), utilizing a strong knowledge of Elastic Compute Cloud (EC2), Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, Cloud Front, Elastic Filesystem, RDS, VPC, Route53, Cloud Watch, Cloud Trail, Cloud Formation, and IAM.
* Auto-scaled AWS instances to design cost-effective, fault-tolerant, and highly reliable systems; configured various AWS Compute Services (e.g. EC2, Lambda, Elastic Beanstalk).
* Built and managed policies for S3 buckets; used S3 bucket and Glacier for storage and backup on AWS.
* Developed the Docker swarm cluster and deployed Docker services in the Docker swarm cluster.
* Authored Python scripts in AWS Lambda to communicate with API gateway and process CRUD data operations on the Databases.
* Created detailed AWS Security Groups, which behaved as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances; managed Multiple AWS instances, assigning the security groups, Elastic Load Balancer, and AMI’s.
* Defined AWS security groups, which acted as virtual firewalls to control the incoming traffic onto one or more AWS EC2 instances.
* Configured AWS Identity and Access Management (IAM) users and groups, as well as Dot net Core applications into application servers.
* Worked on Terraform to create the existing architecture for a secure infrastructure provisioning.
* Solving complex issues related to Various DevOps and DevSecOps areas.
* Understanding the software architecture and transforming the monolith to a microservices environment.
* Managed GitLab and Bit Bucket account to provide access to Developers and store source code.
* Deployed AWS Elastic beanstalk applications developed with Java, PHP, Node.js, Python, Ruby, and Docker on Apache and IIS
* Integrated Docker container orchestration framework using Kubernetes by creating pods, configuring maps, and managing deployments.
* Designed multi-masters and multiple-worker Kubernetes cluster for a production environment.
* Migrated cloud from physical data center towards Amazon Web services (AWS) across Public, Private, and Hybrid Cloud Environments.
* Produced and implemented complex applications and distributed systems into public cloud infrastructure (e.g. AWS, GCP, Azure).
* Developed and automated Java/J2EE to a web application server in an Agile continuous integration environment.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins, GitHub, and AWS AMI’s; virtualized AWS Servers using the Docker; and generated/version controlled Docker files.

Walmart, Mississauga, ON, Canada, April 2014 to June 2016

**Build and Release/Devops Engineer**

**Responsibilities:**

* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management.
* Involved in performing application deployment to AWS Elastic Bean Stack environment.
* Configured & deployed Java applications on Amazon Web Services (AWS) for a multitude of applications utilizing the AWS stack, cloud formation.
* Implemented automated application deployment and written deployment scripts and automation scripts.
* Created and updated PUPPET manifests and modules, files, and packages stored in the GIT repository.
* Maintained and Administered GIT Source Code Tool.
* Implemented a continuous Delivery Pipeline with Docker, JENKINS and GitHub to build a new Docker container automatically using JENKINS whenever a new GitHub branches are created
* Worked on Oracle Databases there by connecting different environments to these databases in lower and production environments
* Created environment on AWS platform, AWS Hadoop EMR cluster, Kafka Cluster, Cassandra Clusters and implemented system alerts on DataDog.
* Used the command line interface to manage apps, services in Pivotal Cloud Foundry as well as Apps manager.
* Create, bind the user defined and built in services in Pivotal Cloud Foundry (PCF).
* Build, Test and deploy applications by using pivotal cloud foundry
* Working knowledge of several types of configuration management tools like Puppet, Chef, Ansible, Salt and Vagrant.
* Use agile methodology throughout the project. Involved in weekly and daily bases release management.
* Involved in source control management with GitHub and GitLab Enterprise level repositories. Regular activities include configure user’s access levels, monitor logs, identifying merge conflicts and managing master repository.
* Worked on setting up Upstream and Downstream Jobs in JENKINS.
* Worked on Multi project jobs in JENKINS and used pipeline plugin to manage them.

**Education:**

* Bachelor of Computers in Mahatma Gandhi Kashi Vidyapaith, India.
* #open to work