**Syed Fahmeed Uddin**

Remote Only

**Professional Summary:**

* Skilled Aws Azure Cloud DevOps Architect with 16+ years of hands-on experience supporting, automating, and optimizing mission critical deployments in AWS, leveraging configuration management, CI/CD, and DevOps processesg.
* version control systems (Gitlab, Github, Subversion, GIT, TFS, StarTeam and ClearCase) & code review tools (Crucible, Code Collaborator) and code search engines (fisheye, opengrok)
* Solution Design and planned the Roadmap for the Production GO-LIVE where the ETL Applications were scaled across 4 environments which includes Development, Quality (Testing) Production and DR.
* Experienced with distributed monitoring systems like Nagios, New Relic.
* Worked on configuring and installing monitoring tools like App Dynamics, Datadog, Splunk, CloudWatch for Application and EC2 monitoring.
* As an Enterprise Lean Agile & DevSecOps coach, Release Train Engineer (RTE), Scrum Master, Product Manager & Product Owner (PO) he has completed the deployment of multiple Releases and implemented the Minimum Viable Product (MVP), this included Digital Strategy, Value Stream Mapping, Road-mapping, Launching & operating Agile Release Train’s (ARTs) and associated global Cross-Functional Scrum Teams integrated with Development and Security (DevSecOps) including the Continuous Delivery Pipeline (Continuous Exploration, Integration (CI) & Delivery (CD) leading to Releases and deployment of Features. Each Program Increment (PI) was 10 weeks (5 Sprints including Innovation & Planning (I&P) Sprint).
* Experienced in troubleshooting and automated deployment to web and application servers like IBM WebSphere, WebLogic, JBOSS and JWS Tomcat, EWS Apache.
* Experience Creating custom monitoring dashboards and reports using DataDog to provide real-time insights into system performance
* **AWS Certified Solutions Architect** with excellent proven track record in providing solutions with an in-depth level of understanding in the strategy and practical implementation of **AWS cloud-specific technologies like Elastic Compute Cloud (EC2), Simple Storage Services (S3), Route 53, Cloud Formation, Elastic IPs, Virtual Private Cloud (VPC), RDS and Cloud Watch**.
* **Having 6+ years of experience in Azure Cloud. including 2 years of experience in GCP**
* Experience in Troubleshooting **AWS EC2 instances** for Status check through System Status checks and Instance Status checks alerts and rectifying if necessary.
* Expert in building and operating Containers, Microservices and Serverless environments on AWS with a focus around cost, performance, observability, and security. Interested in next - generation Cloud Native application architectures.
* Good experience on AWS services like Athena, EMR, Redshift, Aws Glue, ECS, EKS, ECR, Aurora and DMS
* Configured and managed **Elastic Load Balancing (ELB)** to implement fault tolerance and avoid single point of failure of applications.
* Work closely with Redhat and IBM Websphere when major issues arise in the environment.
* Extensive Experience in Gitlab CI and Jenkins for CI and for End - to-End automation for all build and CD.
* Strong Experience working with Data/Devops services like SVN, GIT, TFS, Jenkins, MAVEN, Ansible, Nagios, ETL Tools, snowflake on cloud Services (AWS Azure).
* Experience **of AWS Elastic Block Storage (EBS),** different volume types and use of various types of **EBS volumes** based on requirement.
* Performed LAMP installation and configuration on **RedHat**, **Ubuntu** and **Amazon** **Linux** **instances** needed for website development. Using GIT for cloning, pushing, and creating of repositories.
* Responsible of Production, Development and Test environment carrying **Windows, Ubuntu, Red Hat Linux, and Centos.**
* As a DevSecOps implementation and I am responsible for software development, recognizing the security threats, and configuring the network infrastructure, so should have up-to-the-minute details of cybersecurity threats and the latest software. possess knowledge of the implementation of risk assessment techniques and the latest security best practices.
* Extensively worked on Python 3.5/2.7 (Numpy, Pandas, Matplotlib, NLTK and Scikit-learn)
* Responsible in managing all aspects of the software configuration management process including **code compilation, packaging, deployment, release methodology and application configurations**.
* Created and wrote **shell scripts (Bash), Ruby, and Python** for **automating** tasks.
* Experience of source control management concepts such as **Branching**, **Merging, Labeling/Tagging, and Integration**.
* Cloud Providers like AWS, GCP and Azure to deploy cloud native, hybrid, or disaster recovery protected sites configuration.
* Coordinated different **teams** across the globe to deploy different **builds** to different **environments** on **parallel** **development** for **multiple** **projects**.
* Deployed **Kubernetes** **Cluster** on **Azure** with master/minion architecture and wrote many **YAML** files to create many services like **pods, deployments, auto scaling, load balancers, labels, health checks, Namespaces**.
* Managing security groups on **AWS**, focusing on high-availability, fault tolerance, and auto-scaling using **Terraform** templates. Along with **CI/CD** with **AWS Lambda** & **AWS code Pipeline.**
* Used **Kubernetes** charts using **Helm** and created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and managed releases of **Helm** packages.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** **Linux**, **Bash**, **GIT**, **Docker** on **GCP**.

Utilized **Kubernetes** and **docker** for the runtime environment of the **CI**/**CD** system to build, test deploy.

* Installing, configuring, and administering **Jenkins CI** tool on **Linux** machines and built Continuous Integration and Continuous delivery environment. Setup **Docker** on Linux and configured **Jenkins** to run under **Docker host**.
* 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 **Chef, VSTS** and **Jenkins**.
* Experience in Deploying and configuring Atlassian tools like **Jira,** **Confluence, Bitbucket** and **Bamboo** for hosting and issue tracking for local instances, workflow collaboration, and tool-chain automation.
* Created **RESTAPI** by the make use of **Swagger**.
* Proven Front-End experience in developing UI's using, **HTML5, CSS3, SASS, LESS, AJAX, JavaScript, JSON, XML, Angular and Node.JS.**

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **Cloud** | Microsoft Azure, Amazon Web Services, OpenStack, GCP |
| **Container Orchestration Tools** | Docker Swarm, Kubernetes, EC2 Container Services, Azure Container Services, OpenShift |
| **Configuration Management** | Chef, Ansible, Puppet, Docker |
| **Version Control Tools** | GIT, GITHUB, SVN, Perforce, Bitbucket,TFS |
| **Web and Application Servers** | JBOSS, Apache Tomcat, Web Sphere, Web Logic, Nginx, Send Mail |
| **Monitoring Tools** | Splunk, CloudWatch, DataDog, Wireshark |
| **Bug Tracking Tools** | JIRA, Bugzilla, Rally, Azure devops |
| **Build Tools** | Maven, Ant, Gradle |
| **Continuous Integration** | Jenkins, Bamboo, Hudson |
| **Scripting Languages** | Shell, Ruby, Python, PHP, JavaScript, PowerShell, JSON, YAML |
| **Languages** | C, C++, HTML5, CSS3, Bootstrap, JavaScript, TypeScript, Angular jQuery, JSON, AJAX |
| **Database** | MySQL, Oracle, Dynamo DB, Mongo DB, Cassandra, Amazon Aurora |
| **Operating System** | Red Hat, Ubuntu, Debian, Fedora, CentOS, Windows, Solaris, Mac OS |
| **Networking Protocols** | TCP/IP, DNS, NFS, ICMP, SMTP, DHCP, OSPF, BGP, UDP and RIP |

**SRE/Senior Cloud Architect/Lead(AWS/Azure/GCP/kubernetes)**

**Synovus Bank, Columbus, GA**

**Jan’ 2020 to Till Date**

**RESPONSIBILITIES:**

* Implemented **AWS** solutions using **EC2, S3, RDS, IAM, Redshift, Lambda, Security Groups, EBS, Elastic Load Balancer, Auto scaling groups, SNS, Optimized volumes and Cloud Formation templates.**
* Designed, configured and managed public/private cloud infrastructures utilizing Amazon Web Services **(AWS),** including **EC2**, Virtual Private Cloud **(VPC),** **Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer, Cloud Watch and IAM.**
* Migrated 9 microservices to Google Cloud Platform and have one more big release planned with 4 more microservices.
* Experience in using Tomcat Web Server and JBOSS/WebLogic and IBM WebSphere Application Servers for deployment.
* Branching, Tagging, Release Activities on Version Control Tools: **SVN, GitHub.**
* Designed and created multiple deployment strategies using CI/CD Pipeline and configuration management tools like Spinnaker with remote execution to ensure zero downtime and shortened automated deployments.
* Used DataDog to monitor a variety of systems and applications, including servers, databases, and cloud services, in order to identify and troubleshoot performance issues.
* Installation, Configuration and Administration of Docker and Kubernetes and managing Kubernets using Openshift.
* Developed CI/CD/CO pipeline libraries to deploy helm charts in AWS EKS using fargate profiles.
* Responsible for site reliability engineering, and automation of monitoring, and troubleshooting of RH applications using ALM tool suite including New Relic, Grafana, Prometheus, Sumologic, and Pagerduty.
* Responsible for design and maintenance of the Subversion/GITLAB, Stash Repositories, views, and the access control strategies.
* Collaboratively work closely with Executives, Managers & Leaders in “Scaling” & developing Business Value Streams, launching Agile Release Trains (ART), integration of Development with Operations DevOps/DevSecOps for setting Delivery Pipeline through to Releases.
* Deployed applications in RedHat OpenShift Container Platform and monitored logs using  
  Datadog.
* Streamlined application deployment on cloud-native platforms using OpenShift, driving operational efficiency and cost-effectiveness.
* Installation, Configuration and Administration of IBM WebSphere Application Server V7.0 on Linux and Aix.
* Worked on Creating continuous delivery pipeline using Spinnaker and Kubernetes.
* Design of Cloud architectures for customers looking to migrate or develop new PAAS, IAAS, or hybrid solutions utilizing Amazon Web Services (AWS). Used Pandas library for statistical Analysis. Worked on Python Open stack API's.
* Installation, Configuration and Management of RDBMS and NOSQL tools such as MySQL.
* Implemented **AWS high-availability** using AWS Elastic Load Balancing (ELB), which performed a balance across instances in multiple Availability Zones.
* Written a Cloud formation templates for Docker, ECS cluster with EC2 and FARGATE.
* Conducted data analysis and visualization using DataDog to identify patterns, trends, and anomalies in large datasets, helping to inform business decisions.
* Created and configured pipelines for Canary Deployments and implemented New Relic monitoring for Canary deployments, ensuring smooth and reliable testing of new features.
* Hands on Experience on ETL Process to Extract transform and Load data using (SSIS) and Wherescape, Azure ADF and reporting tools (SSRS Power BI and Tableau, Cognos).
* Setup Alerting and monitoring using Stackdriver in GCP.
* Updating the IBM WebSphere and IHS Fixpacks and Migration of IHS from 6.1 to 7.0
* Hands on experience in **Azure cloud services**, Azure Apim, Azure storage, Azure active directory, and Azure Service Bus. Managing Client's Microsoft Azure based **PaaS** and **IAAS** environment. Configured and deployed the Operations Management Suite (OMS) for monitoring and change tracking.
* Implemented a CI/CD pipeline involving GitLab, Jenkins, Chef, Docker, and Selenium for complete automation from commit to deployment.
* Created several cloud native blueprints which were approved by DoITT security team, all cloud applications were migrated to approved blueprints on the secured cloud hosting.
* Maintained up-to-date knowledge of new features and capabilities of DataDog, sharing best practices and insights with team members to improve performance monitoring and analysis.
* Worked on Spinnaker to integrate AWS infrastructure for creating the continuous deployment pipelines.
* Created CI/CD pipelines with DevSecops practice by implementing SonarQube, Checkmarx and Twistlock tools.
* AWS hosting infrastructure design and build out including Elastic Beanstalk, DynamoDB (NoSQL) and Elasticache (Redis)
* Created a POSTGREST Docker Image and store it in ECR repository and created a task, services for docker image and deploy it in EC2 and FARGATE.
* Creating JDBC, JNDI and other resources in both JBoss and IBM WebSphere Application Servers.
* Set up New Relic Monitoring and New Relic APM installations, creating tiered dashboards, alerts, and policies for non-production and production environments. Integrated PagerDuty for streamlined incident management.
* Involved in ETL Process to create snow pipelines, wherescape, Informatica and Azure Data factory pipelines to extract transform load data from data lake to Snowflake using Azure data factory, Data Bricks and Snowflake data warehousing and Master Data Management.
* Setup and build AWS infrastructure various resources like **VPC, EC2, S3, IAM, EBS, Security Group**, Auto Scaling, and **RDS in Cloud Formation JSON template**
* Customize the configuration to deploy Spinnaker in private Kubernetes Cluster.
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT.
* Developed Bigdata jobs to load heavy volume of data into S3 data lake and then into AWS Redshift and Snowflake Datawarehouse utilizing AWS services Glue and EMR.
* Performed routine management of IBM WebSphere Environment like monitoring Disk Space, CPU Utilization. Familiar with monitoring tools like Dynatrace, Splunk and SiteScope.
* Maintain and Manage over 300 applications running on various platforms like Rancher, Kubernetes, Docker, JBoss Fuse 6.0, AMQ, AWS and API Gateway.
* Supported DevOps practices for teams leveraging GitLab and used CloudFront to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.
* Automated OpenStack and AWS deployment using **Cloud Formation, Ansible and Terraform,** also deployed and administered **Open stack** services**.**
* Working on the migration of application to cloud (Google Cloud) by making the chunk of code to microservices.
* Worked on Multiple ETL tools on Implementing wherescape, Informatica and Azure ADF creating pipelines.
* Migration of Applications from IBM WebSphere V6.1 to V7.0 using WASPreUpgrade and WAS PostUpgrade scripts.
* Coach and SME for Integrating Secure Development with Operations. (DevSecOps – DevOps). Utilize DevSecOps Framework for measuring maturity. (Internal Security Operations).
* Hands on experience on Backup and restore **Azure services**and in Design and configure **Azure Virtual Networks (VNets), subnets, Azure network settings, Azure Apim, DHCP address blocks, DNS settings, security policies and routing. Azure cloud services, Blob storage, Active directory, Azure Service Bus, Cosmos DB.**
* 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)**to manage **network traffic.**
* Experience in migrating on-premises applications to **Azure**and configured **VNETs**and **subnets**as per the project requirement also performed **PowerShell scripting**to do **Patching**, **Imaging**, and **Deploymen**ts in **Azure**.
* Built ETL processes to extract, transform, and load data from diverse sources such as APIs, databases, and files into data warehouses, data lakes, and data marts.
* Wrote and improved scripts/automation to improve our CI/CD processes and implemented CI pipeline using Gitlab and monitored pipeline in Gitlab.
* Cloud Providers like AWS, GCP and Azure to deploy cloud native, hybrid, or disaster recovery protected sites configuration.
* Developed AWS services automation framework using Python Boto3 library to deploy, configure and utilize AWS services like Lambda, EC2, Aws Glue, EMR, SNS, SQS, CloudWatch, DynamoDB, Step Functions, S3, VPC, IAM, RDS, etc.
* Knowledge of **Azure Site Recovery**and **Azure Backup**Installed and Configured the Azure Backup agent and virtual machine backup, Enabled **Azure Virtual machine**backup from the **Vault**and configured the **Azure Site Recovery (ASR).**
* **Involved in projects to Migrate JBoss Fuse Applications to Kubernetes. Use Canary in APIGateway to control the traffic.**
* Implemented idea of secret management for micro services, and creating service and ingress rules for each micro service. Worked on setup the **kubernetes** sandbox on **Azure Kubernetes Services** (AKS) for testing the different features.
* Worked on **Terraform** for deploying infrastructure in AWS as per the requirement.
* Involved in using **Terraform** migrate legacy and monolithic systems to Amazon Web Services and provisioned the highly available EC2 Instances using **Terraform** and cloud formation and wrote new plugins to support new functionality in Terraform.
* Build automation (Hudson/Jenkins, uBuild, BuildForge, GitLab CI) & delivery & deploy automation (Jenkins, uDeploy/uRelease/Puppet/Ansible)
* Setup process engines to clean and perform multiple data engineering techniques using complex Python libraries like Pandas, NumPy, BeautifulSoup.
* Update Management of the Virtual Machines (Windows, Linux(RHEL,SUSE) using Cloud native as well as Vendor provided patch management solutions
* Worked on **Docked-Compose, Docker-Machine to create Docker containers** for testing applications in the QA environment and automated the deployments, scaling and management of containerized applications across clusters of hosts.
* Involved in the design and deployment of several applications using practically all AWS stacks such as EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, LAMBDA, REDSHIFT, and Aws Glue with an emphasis on high availability, fault tolerance, and auto-scaling in AWS cloud creation.
* Worked with **Docker** on multiple cloud providers, from helping developers build and containerize their application **(CI/CD)** to deploying either on public or private cloud.
* On-boarding/Migrating applications to GitLab which include Prepare, Implementation.
* Played a major role in building **Docker images**; create build and deployment configurations to deploy applications on OpenShift. Developed **Ansible playbooks** to do automated recovery process upon the failure of OpenShift MASTER.
* Configured **Azure** Virtual Networks, subnets, DHCP address blocks, Azure network settings, Azure Apim, DNS settings, security policies and routing. Also, deployed Azure IaaS virtual machines and Cloud services (PaaS role instances) into secure Virtual Networks and subnets.
* Install Kubernetes Cluster using Kops
* Worked on several standard Python packages like Numpy, matPlotLib, Scipy, Pandas and PyTables etc.
* Installing, Configured and management in **Ansible** Centralized Server and creating the playbooks to support various middleware application servers, and involved in configuring the **Ansible** **towe**r as a configuration management tool to automate repetitive tasks
* Design, deploy and administer Kubernetes on Openshift and Rancher.
* Developed **Chef Cookbooks** to manage system configuration and for Tomcat, MySQL, Windows applications and versioned them on **GIT repositories** and **Chef Server.**
* Support, Manage and Admin Jira, gitlab, Jenkins, Nexus and Sonarqube tools and infrastructure.
* Worked with **CHEF Enterprise** Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks & uploaded them to **CHEF-server**, Managed On-site OS/Applications/Services/Packages using **CHEF.**
* Created the trigger points and alarms in Cloud Watch based on thresholds and monitored logs via metric filters, lambda, Aws glue functions.
* Involved in setting up builds using **Chef** as a configuration management tool and managed the configurations of servers using **Chef,** configured **Jenkins** builds for continuous integration and delivery for deployment and implementation of Chef for infrastructure as code initiative.
* Used **Azure Terraform** to deploy the infrastructure necessary to create development, test, and production environments.
* Used Elasticsearch, **Logstash and Kibana (ELK)** for maintaining system Logs and Bugzilla for tracking code bugs.
* Come up with various solutions as per requirements like Data flattening, dynamically increase and configure Compute clusters, failure handling mechanism, audit logging, etc., using multiple Python packages like Pandas, PySpark.
* Install, Configure and Administer Docker and Kubernetes.
* Maintained **ELK(Elastic Search, Log stash, Kibana) Stack** for Searching, routing and visualizing Logged Data.
* Successfully designed and implemented a scalable Data Lake solution on AWS using Amazon S3 and AWS Glue, reducing data processing time by 50% and improving data accessibility for the team.
* Designed, Planed, and created **Azure** virtual machines, Azure Apim, Implemented and managed virtual networking within Azure and connect to **on-premises** environments.
* Involved in supporting cloud instances running **Linux and Windows** on AWS, experience with Elastic IP, Security Groups and Virtual Private Cloud in AWS.
* Used tracking tool **JIRA** and also triaged the issues and maintained bugs using **JIRA tool**. Maintained JIRA for tracking and updating project defects and tasks ensuring the successful completion of tasks in sprint.
* Developed **Shell and Perl Scripts** for the purpose of manual deployment of the code to the different environments and E-mail the team when the build is completed.
* Troubleshooting the network issues involving TCP/IP, LAN/WAN networking, DNS, DHCP, SMTP, SNMP, netstat and monitored the servers and **Linux scripts** regularly and performed troubleshooting.

**Environment:** Google Cloud Platform (GCP), FARGATE, NOSQL, DevSecOps, Pandas, Cloud native, ETL, Kubernetes, Amazon Web Services(AWS),chef, Azure, Spinnaker, Docker, Jenkins, Maven, Gitlab, Terraform, Ansible, ELK, Tomcat, Shell, Aws Glue, WebLogic, JIRA, GIT, Python, Linux.

**SRE/Senior Cloud Architect/Lead (AWS/Azure/Gcp/kubernetes)**

**Bank of America, Charlotte, NC**

**Jan’ 2018 to Dec’2019**

**Responsibilities:**

* Delivered Solutions to improve **Cloud architecture**, **deployment** for **AWS** **Private** and **Public** **Cloud**
* Managed multiple **AWS** **accounts** with multiple **VPC's** for both production and non-prod where primary objectives included automation, build out, integration and cost control.
* Worked on **automation** and **continuous** **integration** processes with **Jenkins** and **Chef**.
* Created and maintained documentation of **build** and **release** processes and application configuration to comply with audit requirements and Industry best practices.
* Design **EC2** **instance** **architecture** to meet high availability application architecture and security parameters.
* Managed the Azure Security groups and attached them to VM’s and Subnets using Azure Portal as well as PowerShell Scripts.
* Involved in designing the ETL testing strategies for functional, integration and system testing for Data warehouse implementation.
* Developed expertise in DataDog, a cloud-based monitoring and analytics platform that provides real-time insights into the performance of complex applications and infrastructure.
* Deployed code to various environments using Octopus continuous deployment and Fargate containers
* Configured application servers **(JBOSS)** to deploy the code. Configured plug-ins for the integration tools to the version control tools.
* Designed, deployed, maintained and lead the implementation of Cloud solutions using Microsoft Azure, Azure Apim and underlying technologies.
* Experience in building Docker images using GitLab-ci build automation runner
* Installation, Configuration and Management of RDBMS and NoSQL tools such as Dynamo, MySQL, HBase, PostgreSQL, MongoDB and Cassandra
* Conducted extensive DevOps and DevSecOps training, workshops for 20+ engineers
* Hands-on experience setting up Kubernetes (k8s) Clusters for running microservices. Took several microservices into production with Kubernetes backed Infrastructure.
* Deploying, configuring & Management of the different Virtual Machines (Windows server 2016, 2019, RHEL) using Cloud native tools
* Created **S3** buckets and **managing** **policies** for **S3** **buckets** and Utilized **S3 bucket and Glacier** for storage and backup on AWS.
* Configured alerts in DataDog to notify team members of any anomalies or issues, enabling faster response times and more efficient troubleshooting.
* Creating **Cloudwatch** alerts for instances and using them in **Autoscaling** **launch** **configurations**.
* **Bootstrapping** instances using **Chef** and **integrating** with **auto** **scaling**.
* Migrated some of the build jobs from Jenkins to VSTS and Agile Boards from Jira to Azure Devops Services.
* Created Elastic Containers, Elastic Load balancers, Application Load balancers, defined security groups as part of Jenkins-Fargate CI\CD setup.
* Deployed the initial Azure components like Azure Virtual Networks, Azure Application gateway , Azure Apim, Azure Storage and Affinity groups.
* Created new **Chef** **Cookbooks** and updated existing ones to automate deployments
* Analyzed the current stack, load and cost to **brainstorm** **architecture** in order to reduce the footprint and cost.
* Automated deployment from Gitlab-ci to openshift.
* Automated application packaging and deployments though **Chef**.
* Leveraged DataDog's log management features to aggregate and analyze logs from various sources, helping to identify trends and potential issues.
* Implemented relational Databases, NOSQL Database Management systems like MySQL, MSSQL, Oracle, PostgreSQL, Cassandra, CouchDB and Mongo DB.
* Successfully completed the ETL Application Build/Upgrade on Linux Operating system RHEL 8.1.
* Worked on **API** **Gateway** Integration between **SendGrid** and the App team.
* Created Governance model for DevSecOps including models for Azure designs and clouds.
* Worked on **Integration** and **Production** **AWS** **environments**.
* Designed the Azure Data Factory Pipelines to move the data from On-Premise SQL Database servers to Azure SQL Database servers using the Azure Data Factory Copy tool and Self-Hosted Runtimes.
* Created and managed Linux machine to handle Jenkins-Fargate CICD setup from the scratch
* Worked on Docker for container orchestration with Kubernetes container storage, automation to enhance container platform multi-tenancy also worked on with Kubernetes architecture and design troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
* EMR cluster, Kafka Cluster, Cassandra Clusters and implemented system alerts on DataDog.
* Implemented Continuous Integration (CI), Continuous Deployment (CD) and Continuous Testing (CT) using Jenkins and Gitlab.
* Involved in industry standard cloud-native authentication mechanisms (OAuth, OpenID)
* Worked on setup and managing- SSIS and ETL tool BODS – Batch jobs, Application jobs and monitoring the application.
* Created Password Less Authentication between **EC2** **servers** (Cloud) and **DDE** **servers** (On-prem).
* Provided support for **AWS EC2, EBS, Trusted Advisor, S3, Cloud Watch, Cloud Front, IAM, Security Groups, Auto-Scaling AWS CLI Auto Scaling and Cloud Watch Monitoring creation and update**.
* Deployed microservices in Prod.
* Developed build workflows using Gradle, Gitlab-ci , Docker and openshift.
* **Azure** IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets, designed VNets and subscriptions to conform to Azure Network Limits.
* Created and wrote shell scripts **Bash, Ruby, Python and PowerShell** for setting up baselines, branching, merging, and automation processes across the environments using SCM tools like **GIT**, **Subversion** (SVN), **Stash** and **TFS** on **Linux** and **windows** **platforms**.
* Implemented **Chef recipes** for automated orchestration of **Cassandra** **clusters**.
* Worked on **Upgrading Cassandra** from old 2.x to 3.0 version.
* Implemented **EC2** **backup** strategies by creating **EBS** **snapshots** and attaching the volume to **EC2** **instances**.
* Setting Gitlab respository and Runner for build automation.
* Migrated many Avi load balancers to cloud native AWS and Oci load balancers.
* Utilized **OpsCenter** and **Splunk** to **monitor** & **troubleshoot** **Cassandra** related issues.
* Rehydrating **AMI's** of all the servers to the latest release every 60 days.
* Built ETL processes to extract, transform, and load data from diverse sources such as APIs, databases, and files into data warehouses, data lakes, and data marts.
* deployed **Kubernetes** **Cluster** on **Azure** with master/minion architecture and wrote many **YAML** files to create many services like **pods, deployments, auto scaling, load balancers, labels, health checks, Namespaces**.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** **Linux**, **Bash**, **GIT**, **Docker** on **GCP**.
* Utilized **Kubernetes** and **docker** for the runtime environment of the **CI**/**CD** system to build, test deploy
* Worked on DR Strategy by Failover to **US-WEST** from **US-EAST** and falling back to **US-East**.
* Worked on Installation and Configuration of **Confluent** **Kafka**.
* Implemented **Azure DevOps Pipelines for CI/CD setup**, deployed applications automatically by enabling the triggers to deploy.
* Automating backups by shell for Linux to transfer data in **S3** **bucket**.
* Creation of gitlab-ci.yml for kicking build process in stages that run in docker container.
* Configured user access and limits using **AWS** Identity and Access Management (**IAM**) and implemented Multi factor authentication.
* Created alarms in **CloudWatch** for monitoring the server performance, **CPU** **utilization**, **disk** **usage** etc., to take recommended actions for better performance.
* Designed and configured secure **Virtual Private Cloud (VPC)** through private and public networks in AWS and created various subnets, routing table, internet gateways for servers.
* Setup **SCM** Polling for Immediate Build with **Maven** and **Maven Repository** (**Nexus** Artifactory) by installing **Jenkins Plugins** for **GIT** Repository
* Configuring JUnit coverage report and integration Test cases as part of build in Gitlab Runner.
* Composed **python** and **shell** scripts to do all **CI**/**CD** using **Jenkins**, **Git** in **GitHub**, to access the databases to retrieve and archive data and to improve application security.
* **End to End** **deployment** ownership for projects on **Amazon** **AWS**, this includes **Python** **scripting** for **automation**, scalability, build promotions for staging to production etc.

**Environment:** Azure (Web Roles, Worker Roles, ETL, Fargate, Gitlab, DevSecOps, Cloud Native, SQL Azure, Azure Storage, Azure AD, Resource Groups, Office365, RBAC), NOSQL, OpenStack (Kilo/Liberty), Chef, Ansible, Docker, Kubernetes, Maven, Jenkins, GIT, Cassandra, AEM, Python, Jira, Dynatrace, Terraform.

**Cms Energy , Atlanta, GA**

**SRE/Aws Architect/Azure Engineer**

**Jan’2015 – Dec’ 2017**

**Responsibilities**:

* Created dynamic routing/load balancing capability enabling large application scaling, used ingress rules, and Ingress Controllers - **Nginx**.
* Migrating the production infrastructure into an Amazon Web Services VPC utilizing the AWS Cloud Formation, EC2, S3, Managing the infrastructure using **Chef/OpsWorks**, **CloudWatch**, EBS, Route53, IAM and Maintaining the infrastructure using autoscaling, load balancing and Migration of production **MySQL** database into RDS/ ElastiCache.
* Identify risks and vulnerability reported in **Azure** security center and Redlock and remediate them.
* Work Experience of the data immigration into cloud S3 and for permission using **IAM**, LDAP, Versioning, Lifecycle, Cross-Region replication, for hosting the Static web contents.
* Experience on Networking in **AWS**, **VPC**, Data center to Cloud Connectivity, Security Groups, Route Tables and ACL’s in AWS.
* Worked on Migration Strategy and developed a POC migrating VMware/On-premises datacenter to AWS utilizing, **AWS** EC2, S3, RDS, VPC, and Direct Connect.
* Deploying windows Kubernetes (K8s) cluster with Azure Container Registry (ACR) from Azure CLI and Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and Octopus Deploy.
* Setup and build AWS infrastructure various resources, **VPC** EC2, S3, IAM, EBS, Security Group, Auto Scaling, RDS in Cloud Formation JSON templates.
* Troubleshoot on Azure Resources like Load Balancer, VPN Gateway, Express Route, Application Gateway, Virtual Machines, and Network Connectivity.
* Worked on integrating KMS to AWS CloudTrail to monitor logs used by keys for compliance Databases.
* Strong Experience in implementing Data warehouse solutions in AWS Redshift, worked on various projects to migrate data from on premise databases to AWS **Redshift**, RDS and S3.
* Encrypted **EBS** Volumes using KMS Service, monitoring Regular Health checks using **CloudWatch** and notifying using the services like **SNS**, **SQS** using the SMTP protocols, Setup and administer DNS system in AWS using Route53.
* Created recommendations on how to duplicate a subset of on-premise machines to the **Azure Infrastructure as a Service** (IAAS) offering which will be used for Disaster Recovery. This analysis included the specifics to synchronize on-premise data with SQL Server and SharePoint instances hosted in VMs.
* Installing, Configured, and management in **Ansible** Centralized Server and creating the playbooks to support various middleware application servers.
* Developed **Ansible Playbooks** to setup Continuous Delivery Pipeline.
* Integration of **Maven/Nexus**, **Jenkins**, Urban Code Deploy with Patterns/Release, **Git**, **Confluence**, **JIRA,** and **Cloud Foundry**.
* Managed Kubernetes charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Configured and supported SAML based Identity & Service Provider connections with several SaaS Partners.
* Hands on experience in IAM requirement analysis, implementation of Access Gateways and SAML based integrations.
* Created **Azure DevOps Projects** which provision Azure resources along with a **Git** repository, Application Insights integration and a continuous delivery pipeline using **Visual Studio Team Services** **(VSTS)** setup to deploy to **Azure**.
* Designing AWS VPC Cloud for large Instances and Migrating **AWS** Cloud EC2 Instances to AWS Cloud VPC.
* Experience in PaaS service like cloud foundry for the continuous delivery which leverages the developers across multi-applications that can used in various environment without any changes.
* Created SQL stored procedures to do full data export and incremental changes to Elasticsearch indexes.
* Experience in analyzing Heap dumps, Thread dump, Memory leak, and Verbose GC analysis.
* Experience in configuring Splunk monitoring tools for monitoring the server/app status, Disk space issues, and log parsing.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions
* Involved in setting up the continuous integration (CI) using source control, and configured build definition within Azure DevOps and configure continuous delivery (CD) to automate the deployment of applications to Azure web apps.
* Generated certificates with the key tool, **OpenSSL**, and get a certificate signed with VU signing authority and imported to key store in the respective environment.
* Coordinate with the networking and security team to get the firewalls enables for the applications.
* Experienced in working with the Database teams like **Oracle**, **SQL** Server, and **DB2**.
* Worked with Functional and Project leads and other business groups to identify, analyze, and document the business requirements.
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.

**Environment**: AWS, Docker, JIRA, Udeploy, Unix/Linux CentOS 7, Azure, Python, Node.js, Apache Tomcat, Kubernetes, SQL, Nginx,Splunk.

**FEI Systems, Colombia, MD**

**AWS Cloud Engineer**

**Jan’2012 – Dec’2014**

* Responsible for architecting, designing, implementing and supporting of cloud based infrastructure and its solutions.
* Proficient in AWS services like VPC, EC2, S3, ELB, Auto Scaling Groups(ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.
* Experienced in creating multiple VPC’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.
* Used security groups, network ACL’s, internet gateways and route tables to ensure a secure zone for organization in AWS public cloud.
* Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
* Possess good knowledge in creating and launching EC2 instances using AMI’s of Linux, Ubuntu, RHEL, and Windows and wrote shell scripts to bootstrap instance.
* Used IAM for creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources.
* Written cloud formation templates in Json to create custom VPC, subnets, NAT to ensure successful deployment of web applications.
* Implemented domain name service (DNS) through route 53 to have highly available and scalable applications.
* Maintained the monitoring and alerting of production and corporate servers using Cloud Watch service.
* Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
* Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Created snapshots to take backups of the volumes and images to store launch configurations of the EC2 instances.
* Responsible for Continuous Integration and Continuous Delivery process.
* Used AWS Lambda to run servers without managing them and to trigger and run code by S3 and SNS.
* Implemented Cloud Trail to capture the events related to API calls made to AWS infrastructure.
* Developed installer scripts using Python and UNIX for various products to be hosted on Application Servers.
* Implementation using Jenkins along with Python and Shell scripts to automate routine jobs.
* Created function in Lambda that aggregates the data from incoming events, then stored result data in Amazon Dynamo DB and S3.
* Provided python build script for building and deploying the application.
* Implemented Continuous Integration using Jenkins and GIT from scratch.

**Environment:** AWS (EC2, VPC, ELB, S3, EBS, RDS, Route53, ELB, Cloud Watch, CloudFormation, AWS Auto Scaling, Lambda, Elastic BeanStalk), GIT, SQL, Jira, AWS CLI, Unix/Linux, Ruby, Shell scripting, Jenkins, Chef, Terraform, Nginx, Tomcat, JBoss.

**Georgia Department of Corrections, Atlanta, Georgia**

**DevOps Engineer**

**Jun’2008 – Dec’2011**

**Responsibilities:**

* Involved in CI/CD process using GIT, Nexus, Jenkins job creation, Maven build and Create Docker image and use the docker image to deploy in gcloud clusters.
* Worked routing Protocols (RIP, RIP V2, IGRP, EIGRP, OSPF), Virtual LANs, LAN, WAN and Ethernet.
* Extensive Knowledge and hands-on experience implementing PaaS, IaaS, SaaS style delivery models inside the Enterprise (Data center) and in Public Clouds using like AWS, Google Cloud, and Kubernetes etc.
* Provisioning environments for Engg and QA as per the requirements and chasing timelines.
* Created dynamic routing/load balancing capability enabling large application scaling, used ingress rules and Ingress Controllers - Nginx.
* Point team player on Kubernetes for creating new Projects, Services for load balancing and adding them to Routes to be accessible from outside, Creation of Pods through new application and control the scaling of pods, troubleshooting pods through ssh and Stackdriver/splunk logs.
* Orchestrated CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup.
* Provide the permissions and required access to all the pub/subtopics and sinks to push/write the data to Stackdriver.
* Working with monitoring of CPU, network resources and load using Nagios XI and Nagios Core.
* Create custom log metrics using Stackdriver logging and create charts and alerts using the custom log metrics.
* Developed a continuous deployment pipeline using shell scripts in Jenkins.
* Containerized all the ticketing related applications using Docker.
* Working with Engg and upstream teams like OpenAPI on day-to- day environment issues on DEV and TEST env.
* Scheduled, deployed and managed container replicas onto a node cluster using Kubernetes.
* Help provision and manage cloud container clusters with Chef and Puppet.
* Trained staff on Kubernetes administration.

**Environment & Tools:**  Kubernetes, GitHub, Jenkins, Docker, JIRA, Unix/Linux CentOS 7, Nexus V3, Bash Shell Script, Python, Nagios, Apache Tomcat, MongoDB, SQL, Nginx, RHEL 7, Stackdriver,