Wajahat Imam

imam27896@gmail.com 321-677-7011

**Senior DevOps Engineer/AWS Cloud/ SRE/Platform Engineer**

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**SUMMARY of Experience :**

* Overall 9+ years of IT experience in Infrastructure, Build & release, Automating, configuring and deploying instances on cloud environments and Data centers.
* Experience of the full Software Development Life Cycle (**SDLC**) and Methodologies & Validations to ensure the Quality Assurance Control.
* Experienced in Infrastructure Development and Operations involving **AWS Cloud platform like EC2, EBS, S3, VPC, RDS, SES, ELB, Auto scaling, Cloud Front, Cloud Formation, Elastic Cache, Cloud Watch, SNS, AWS Import / Export**.
* Experience in **Azure** Development, worked on **Azure** web application, App services, **Azure** storage, **Azure** **SQL Database**, **Virtual Machines, Fabric controller, Azure AD, Azure search, and Notification hub**.
* Good experience in working with different Bug Tracking Tools like **JIRA, ServiceNow, Rally, Clear Quest and Quality center(QC)**.
* Storing data, processing and performed analytic solutions using **snowflake**.
* Design, build, secure and manage clusters/workloads running on self-managed Kubernetes Amazon EKS (Amazon Kubernetes Service), Amazon ECS and AWS Fargate.
* Installed and Configured Chef Server, Workstation, Client servers and nodes. Written several recipes, cookbooks in Chef to automate the environment provisioning, Middleware Infrastructure Installations.
* Experience in Designing, Installing and Implementing **Ansible** configuration management system and in writing playbooks for Ansible and deploying applications.
* Designed **Puppet** Modules to manage configurations and automate installation process and developed automation scripting in Python using Puppet to deploy and manage Java applications across Linux servers.
* Skills in writing **Bash Scripts, Perl Scripts (hash and arrays), Groovy Scripts, Python programming for deployment of Java applications on bare servers or Middleware tools**.
* Good knowledge and experience in using **Elasticsearch, log stash, Kibana and fluent dB, Cloud Watch, Nagios, Splunk, New Relic, Prometheus and Grafana** for logging and monitoring.
* Strong experience creating **ANT/MAVEN** with Ansible scripts for deployment. Experience with Maven (Pom.xmls) and Ant (build.xmls).
* Good understanding of **Java 1.8 & JEE** design patterns, have implemented custom frameworks for clients using a combination of industry practices.
* Hands on experience with **Grafana** for visualization and to build out dashboards.
* Experience with container-based deployments using **Docker**, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Good understanding of Design Patterns, Multithreading and GO containers. Well versed in using Channels and goroutines.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple name spaced versions. .
* Good interaction with developers, managers, and team members to coordinated job tasks and strong commitment to work.
* Experience in on-call support to support the environment 24/7 as required.
* **Certifications: AWS Solutions architect -associate (AWS-ASA-34680)**
* **Education : Osmania University, 2014**

**TECHNICAL SKILLS:**

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| * Integration Configuration Management tools | * Jenkins, Bamboo, Hudson, Ant, Maven, Chef, Ansible, Puppet,AzureDevOps * Terraform,teamcity |
| * Version Control Tool | * Git, GitHub, Bit Bucket, SVN (Subversion), Tortoise. |
| * Cloud Environment | * Amazon Web Services(AWS), Azure, Open Stack, Google Cloud Platform (GCP) |
| * Tools | * CHEF, PUPPET, HUDSON/JENKINS, XL Deploy, XL Release, MAVEN, CVS, SVN, GIT, GITHUB, TORTOISE SVN, NEXUS, NAGIOS, VAGRANT, DOCKER, ANSIBLE, SPLUNK. |
| * Operating Systems | * Red Hat Linux 4/5/6/7, CentOS, Fedora, SUSE LINUX, UNIX, Windows servers [2008, 2008 R2, 2012] Windows, Ubuntu, Sun Solaris, HPUX 10.x/11.x |
| * Scripting Languages | * Yaml, Python, ruby, shell, power, shell, J son |
| * Web/Application Servers | * Apache Tomcat, JBOSS, Web Logic 9, WebSphere, Apache 2.0.x, and Nginx, IIS |
| * Database Technologies | * SQL Server, MySQL, RDS, Mongo DB, Cassandra DB,MariaDB, DynamoDb, |
| * Web Technologies | * HTML, CSS, J Query, Java Script, XML, JSON |
| * Monitoring Tools | * Nagios, Splunk, Elastic Search, Log stash and Kibana(ELK), Cloud Watch, Cloud Trial, Dynatrace |
| * Volume Manager | * VERITAS Volume manager, LVM |
| * Application Servers | * Web Logic Application Server 9, 10, Apache Tomcat 5/7, Red Hat JBOSS, |

**Work Experience:**

**Client: Walgreens Chicago IL.                                                 Sept 21-present**

**Role: Sr. Devops cloud Engineer**

**Responsibilities:**

* Involved in designing and configuring Hybrid cloud which enabled servers containing highly sensitive data on premise while connecting with servers migrated to AWS Cloud.
* Developed python code to manipulate-parse Json data, index mapping and json files into elastic indexes.
* Used test driven approach for developing the application and implemented the unit tests using **Python** unit test framework.
* Used **Terraform** for managing the infrastructure through the terminal sessions and executing scripts in creating alarms and notifications for **EC2 instances** using **AWS Cloud Watch.** Written Ansible Playbooks for various applications and deploying them in **AWS** using **Terraform.**
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure with rancher, kops, EKS.
* Utilized Ansible and Jenkins to automate the provisioning of our identity management solution which is used to implement Single Sign On for AWS. EKS authentication integrated with SSO as well.
* Built/deployed custom Docker images from Artifactory into EKS K8s cluster as part of a Gitlab CI pipeline
* Initiating alarms in **CloudWatch** service for monitoring the server's performance, CPU Utilization, disk usage etc. to take recommended actions for better performance.
* Utilized Amazon **Route53** to manage DNS zones and also assign public DNS names to elastic load balancers IP's.
* Built servers using **AWS** which includes importing necessary volumes, launching **EC2** instances, **S3** for object static WebPages and created security groups, auto-scaling, **load balancer**, **Route 53** and **SNS** as per architecture using **IAAC** tools like Cloud formation **JSON** Templates.
* Configured Tomcat and Apache web servers for reverse proxy redirection to UI application.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated **Ansible** with Jenkins
* Wrote the Ansible playbooks which are the entry point for Ansible provisioning, where the automation is defined through tasks using YAML format to Run Ansible Scripts to provision Dev servers.
* Used Ansible to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Developed Python scripts to upload and download objects from AWS S3 buckets.
* Automated the Applications and MySQL container deployment in Docker using Python and monitoring of these containers using Nagios.
* Used **Jenkins** pipelines to drive all micro services which builds out to the **Docker** registry and then deployed to Kubernetes by Creating Pods and managed using **EKS**.
* Developed Python scripts to backup and restore database tables weekly.
* Created Kubernetes Pods, clusters, replication controllers, services, labels, health checks, and ingress by writing YAML files and deployed microservices on Docker containers.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Created automated pipelines to deploy Docker containers in AWS ECS using services like CloudFormation, S3 and Terraform.
* Created scripts in Python which integrated with Amazon API to control instance operations.
* Assisted in creating a fully automated Gitlab pipeline to setup central artifactory repository on a Kubernetes Cluster.
* Created IAM roles for the Kubernetes cloud setup.
* Integrated Kubernetes with network, storage, and security to provide comprehensive infrastructure and orchestrated container across multiple hosts.
* Created metrics and monitoring reports using Prometheus and Grafana dashboards.

Environment: AWS EC2, VMware, Windows 2008, Tomcat Apache, Cloud watch, Cloud Formation, Git, Ansible Linux, Jenkins, EC2, python 2.7, Maven, Sonarqube, Docker, AWS, Web Logic, ASB/Mule, F5, Nexus, Splunk, UNIX, Tomcat, Jasper Server, Service-Now,Windows, RHEL, , LDAP, Shell script, Kubernetes, Docker.

**Client: CHENNY BROTHERS , FL                                                  Nov 19-Apr 21**

**Role: Devops Cloud Engineer**

**Responsibilities:**

* Managing the application deployments from GitLab ci to Kubernetes with the help of GitLab ci pipelines, and setting up the **GitLab** repository and Runner for build automation and help the developing and deploying the services in both AWS and Azure.
* Efficient in Build and configuration of **infrastructure** in cloud development through the usage of **Terraform** tool as **IAC**, and ability of modifying the **Terraform** modules based on the requirement of development project.
* Create/Managing infrastructure automation in AWS cloud with terraform includes **EC2, EKS, ELASTIC SEARCH, ELASTICACHE, VPC, IAM etc.**
* Daily monitoring production servers using **Grafana** and **Prometheus** which is integrated with Kubernetes, exceptions and report to the team if something happen during standups.
* Worked with **AWS, lambda, Python,** and Big Query to create log solution for up to date analytics On Contract to Infor Developed DevOps tools cross-platform utilities with Python with AWS Boto3.
* Created **users, Indexes, aliases** in **Elastic Search APM** via gitlab ci pipeline by writing the scripts and integrated in the service repo.
* Created Python scripts to totally automate AWS Services which includes **ELB, Cloud front distribution, database, EC2 and database security, S3 bucket** and application configuration, this script creates stacks, single servers or join web servers to stacks.
* Worked on different cloud computing business based on the necessity such as **Iaas, Paas and Saas.**
* Configured and managed Elastic Load Balancing (**ELB**) to implement fault tolerance and avoid single point of failure of applications, thus providing high reliability and efficient usage.
* Maintained and automated the scripts by using **Python**for automated deployments.
* Familiar with **helm charts** for deployment manager to use of **charts** and templates for listed file names.
* Implemented **Pod security policies (PSP)**in AKS for required best practices and the ability to control what pods to be controlled, scheduled in AKS cluster prevents some possible security vulnerabilities or privilege Escalations.
* Built scripts on **Terraform** to launch the **Azure** VMs instances to modify the resources and handle changes.
* Configured https azure servers using **SSL** to streghthn the security of deployment.
* Managed deployments in EKS managed Kubernetes, setup multi nodes cluster and deployed containerized applications.
* Implemented HTTPS **Ingress controller**and use TLS certificate on AKS to provide reverse proxy, configurable traffic routing for individual Kubernetes services.
* Managing the Kubernetes deployments with GitLab ci k8’s runner from the pipeline.
* Troubleshoot the cicd pipelines errors, monitor the CPU metrics, APM data and Kafka logs.
* Creating **Kafka** topics, **API** keys in the confluent Kafka and store those keys in **AWS Secrets.**
* Extended support for existing product teams on how to integrate CICD into development life cycle.
* Gather new requirement with product owner and create tasks in the backlog, help with groom prioritize and estimations. Once in every two weeks perform deployment to production environment.

**Environment:** Gitlab, Terraform , Cloudformation, AWS, Azure Agile, Kubernetes, Docker, Jira, Confluence, Python, Spinnaker, , GitLab-Runner, Grafana, Prometheus, cloud computing services Iaas,Paas and Saas.

**Client: Penfed, Mclean Virginia.                                    Sept 18-Oct 19**

**Role: Cloud Engineer**

**Responsibilities:**

* Design, integration and management of Amazon Web Services (AWS) cloud solutions. Provisioning of EC2 instances and integrated into local area offices in 5-time zones. Amazon RDS, VPC construction, Security Group policies, **IAM, APIs, Route 53, CloudFormation, S3, Glacier, OpsWorks.**
* SSL Security certificate management for enterprise, maintaining certificates across multiple ssl providers, and integrating certificates into products such as **nginx, apache, tomcat, AWS-ELB**.
* Used AWS 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, and IIS.**
* Expertise in docker compatibility testing on various Linux distros, Amazon Web Services (AWS) and Google cloud Engine (GCE).
* Worked on technology for encryption to protect and document digital communication using **PKI,SSL TCP/IP** certificates.
* Used Vagrant and Ansible to install software and automate installation.
* Performed Automation Tests for the app using python Unit Test Framework.
* Having Knowledge on **AWS Lambda, Autoscaling, Cloud Front, RDS, Route53, AWS SNS, SQS, SES.**
* Developed AWS Lambda Functions using python boto3 library and configured the API Gateway to trigger those functions on respective API call.
* Created **IAM** roles for the lambda functions to access other AWS Resources.
* Used **Jenkins** and Pipelines which helped us drive all micro services builds out to the Docker registry and then deployed to Kubernetes.
* Working on CI automation tool like circleCI, github actions and ansible.
* Installed and Implemented Ansible configuration management system. Used Ansible to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management (Ansible) and experienced in writing Ansible scripts.
* Experience in writing **Ansible** scripts to configure tomcat servers and maintain application deployments.
* Designed, Installed and Implemented Ansible configuration management system.
* Wrote Ansible Playbooks with Python **SSH** as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python.
* Enhanced the User Experience through Alexa Skill Kit, hosted on AWS Lambda Function.
* Experience in Performance Tuning and Query Optimization in AWS Redshift. Managed Amazon Redshift clusters such as launching the cluster and specifying the node type.
* Hands on experience with Docker containers to maintain Docker images, Docker hub & registries.
* Implemented Terraform modules for deployment of applications across multiple cloud providers.
* Created the U-Deploy templates for components and applications, on-boarded around 200 apps into U-Deploy to achieve continuous integration.
* Integrated Maven/Nexus, Jenkins, Urban Code Deploy with Patterns/Release, Git, Confluence, Jiraand Cloud Foundry.
* Wrote python scripts using Boto3 to automatically spin up the instances in AWS EC2 and OPS Works stacks and integrated with Auto scaling to automatically spin up the servers with configured AMIs'.

**Client: Sysintelli software and services Pvt ltd, India Sept 2017– Jul 2018**

**Role: DevOps Engineer**

**Responsibilities:**

* Authored **Terraform** modules for infrastructure management. Authored and published a module to the Terraform registry for enterprise customers to deploy our product inside their AWS environment. And Set up build and deployment automation for **Terraform** scripts using Jenkins.
* Develop **Docker** images to support Development and Testing teams and their pipelines and Assisting in design micro services deployment using Docker.
* Orchestration of **Docker** images and Containers using Kubernetes by creating whole master and node.
* Maintaining the security groups in **EC2, VPC** and controlling the inbound and outbound traffic that can reach the instances.
* Tasks performed on performance tuning, capacity planning for AWS environments, monitoring, resource utilization and alerts using CloudWatch; implement hybrid architectures, routing private connections, peering and infrastructure zoning by **VPC;Cloud Formation** templates to deploy infrastructure for environment creation;CodePipeline to design and implement a **CI/CD** pipeline.
* Optimized volumes and **EC2** instances & Created multi AZ VPC instances & Used **IAM** to create new accounts, roles and groups.
* Configured **S3** to host static web content, versioning and lifecycle policies to and backup files and archive files in Glacier.
* Used Kinesis to aggregate the logs of web application and then move those logs to AWS Redshift.
* Configured the **Kubernetes** cluster on **GCP** to establish communication between pods and MySQL instance on RDS of **AWS**.
* Deployed **Docker** containers by using images stored in repository using Kubernetes, both on premise and on **AWS** cloud.
* Prepared Java/J2EE development structure for Eclipse, maven
* Used the Eclipse as IDE, configured and deployed the application onto **WebLogic** application server using **Maven** build scripts to automate the build and deployment process.
* Troubleshooted emerging application issues, from **WebLogic** configuration side.
* Setting up the cluster environment for WebLogic Server integrated with multiple workflows.
* Developed various helper classes needed following Core Java multi-threaded programming and Collection classes.
* Implemented the use of **Nagios** tool for monitoring and analyzing the network loads on the individual machines by enforcing custom Nagios monitoring, notifications and dashboard to exhibit various metrics using **Shell** Scripting and add-ons.
* Branching, tagging, and maintaining the versions across the environments using **Git** on **Linux** and Windows
* Involved in **Jira** as defect tracking system and configure various workflows, customizations and plug-ins for Jira bug/issue tracker.
* **Environment:**Amazon Web Services (AWS), Amazon EC2, Amazon EBS, Amazon Storage Services S3, CloudWatch, Auto Scaling, Route53,IAM, Glacier, AWS Opsworks, AWS Cloud front,PCF,Ansible, Java,J2ee, Oracle, Web logic, Jenkins, Nagios, Consul, Nexus, Vagrant, Linux.

**Client: AmitySoft technologies Pvt ltd, India Jun 2014 – Aug 2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Developing automated process for builds and deployments using Jenkins, Ant, Maven, Sonatype Nexus, Shell, Python and Java.
* Setup of Virtual Private Cloud (**VPC**), **Network ACLs, Security Groups and route tables across Amazon Web Services.**
* Configuration and administration of Load Balancers, **Route53**, Network and Auto scaling for high availability.
* Integrated GitHub web hooks into Jenkins to automate the code check-out process.
* Migrated various applications and services of teams from on-premise to **AWS cloud using AWS resources like EC2, VPC, S3, Security Groups, etc.,**
* Generated Ant, shell scripts for build activities in QA, Staging and Production environments.
* Worked on the transition project which involves migration activities from Ant to Maven in order to standardize the build across all the applications.
* Migrated source code management tool form SVN to GitHub, and ensured to have identical configuration.
* Managed Users and Groups in **GitHub** and involved in troubleshooting client spec issues and user issues.
* Configured local Maven repositories and multi-component Ant projects with Nexus repositories and scheduled projects in Jenkins for continuous integration.
* Maintained configuration files for each application for build purpose and installed on different environments.
* Directed the Release Management Calls to synchronize with the Developers, Testers and DBA teams for successful Release.
* Administered and integrated the Version Control Systems like Subversion and Git with **Jenkins**.
* Developed Ant and Maven scripts to automate the compilation, deployment and testing of Web and J2EE applications.
* Developed **Python** (2.6) and shell scripts for automation of the build and release process.

**Environment:** AWS, Git, putty, Linux, windows, SVN, Java/J2EE, Ruby, Eclipse, Ant, Jenkins, Maven, Jira, Junit, Unix/Linux, Tomcat Apache Application Server.