**Alamgir Ahammed**

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**Summary:**

AWS DevOps Specialist with **10 years of experience** in the IT sector, skilled in **building, deploying, and automating applications** to drive operational efficiency and seamless collaboration across teams. Proven expertise in **cloud infrastructure**, **continuous integration and delivery (CI/CD)**, and optimizing deployment processes to support scalable, high-performing applications.

* Extensive expertise in **Linux administration**, including troubleshooting, tuning, security, backup, recovery, and upgrade processes.
* Proficient in the **complete software development life cycle (SDLC)**, including software development models like **Agile**, **Scrum**, **JIRA**, and **Waterfall**.
* Skilled in **deployment automation** for microservices, utilizing **Docker Swarm** and **Ansible** for pulling images from private **Docker registries** and deploying them seamlessly to clusters.
* Experienced in building, deploying, and integrating **Java-based web applications** on **UNIX**, with a focus on **BEA WebLogic**, **Tomcat**, and **WebSphere** architectures.
* Integrated **Jenkins** with various **DevOps tools** such as **Puppet** to enhance continuous integration and deployment workflows.
* Proficient in **administrating and monitoring** source control systems, including **SVN**, **GIT**, and **TFS**, ensuring efficient version control and collaboration.
* Designed and implemented a fully automated **build-release solution** using **Maven** and **Jenkins**, improving deployment efficiency and reducing manual intervention.
* Developed automated processes for **code builds and deployments** using **Jenkins**, **Ant**, **Maven**, and **Java**, enhancing the efficiency and reliability of software releases.
* Hands-on experience with **Pivotal Cloud Foundry (PCF)** and **OpenShift/Kubernetes** architectures, including troubleshooting platform component issues and creating scalable deployment patterns for large-scale applications.
* Expertise in administering **CI/CD tools** like **Jenkins**, **Puppet**, and **Chef** for automated build processes and continuous integration.
* Collaborated with cross-functional teams to drive workforce alignment and resolve escalations, ensuring project requirements and deadlines are met.
* Automated deployments for **SaaS-based applications** on cloud platforms using **Chef Enterprise**, **Pivotal Cloud Foundry**, and **AWS**, optimizing cloud resource usage and improving scalability.
* Comprehensive understanding of **Software Configuration Management (SCM)** best practices, covering application configuration, compiling, packaging, and deployment processes.
* Developed and managed **AWS cloud resources** using **EC2 command line clients** and **AWS Services**, including **EC2**, **S3**, **Glacier**, **ELB (Load Balancers)**, **RDS**, **SNS**, **SWF**, and **EBS**, supporting high-availability and resilient cloud environments.

**Technical Skills:**

**Infrastructure as a Service (IaaS):** AWS, Azure, GCP, Linux, OpenStack

**Orchestration Tools:** Kubernetes, Docker Swarm, OpenShift, Amazon ECS, Google Kubernetes Engine (GKE), Azure Kubernetes Service (AKS)

**Infrastructure as Code (IaC) Tools:** Terraform, CloudFormation, Pulumi

**Configuration Management Tools:** Ansible, Chef, Puppet, SaltStack

**Containerization Tools:** Docker, Podman, CRI-O, containerd

**Methodologies:** Agile, Scrum, Kanban, Waterfall, DevSecOps

**Monitoring and Logging Tools:** Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Datadog, Splunk, New Relic, CloudWatch, Nagios

**Build Automation Tools:** Jenkins, GitLab CI/CD, GitHub Actions, Bamboo, CircleCI, Argo CD, Spinnaker, TeamCity

**Continuous Integration/Continuous Deployment (CI/CD) Tools:** Jenkins, GitLab CI/CD, CircleCI, GitHub Actions, Argo CD

**Artifact Management and Repository Tools:** Nexus, Artifactory, Harbor, JFrog

**Project Management and Bug Tracking Tools:** JIRA, Confluence, Rally, Remedy, HP Quality Center, Bugzilla, Asana

**Source Code Management (SCM):** Git, GitHub, GitLab, Bitbucket, SVN (Subversion)

**Databases:** MySQL, SQL Server, DynamoDB, MongoDB, PostgreSQL, Oracle, Cassandra, Redis, Elasticsearch

**Web / Application Servers:** Apache Tomcat, Nginx, WebLogic, WebSphere, IIS, Jetty

**Work Experience:**

**Client: Western Alliance Bank-Phoenix, AZ Dec 2021 - Present**

**Senior DevOps Engineer**

**Responsibilities:**

* Oversee all stages from SCM Commit Build, Code Compilation, JUnit Testing, Code Coverage, Build and Bundling, Lead Approval, and Artifact Deployment.
* Set up and configure Jenkins servers using **Terraform** and **Ansible**.
* Utilize **Docker**, **Kubernetes**, and **OpenShift** to manage microservices for Continuous Integration (CI) and Continuous Delivery (CD).
* Launch and configure **Amazon EC2** instances for specific applications, with storage managed via **S3 Buckets**.
* Configure **IAM** policies to control access to AWS resources, refining workflows for user and role-based access.
* Create and deploy **Kubernetes Pods** and clusters using **OpenShift**, with an in-depth understanding of managing Docker containers and Kubernetes clusters.
* Manage code with **Git** and deploy to AWS via **Terraform**; automate Build/Deploy processes with **Octopus** and PowerShell scripting.
* Provision and configure **EC2 Instances**, set up auto-scaling, and create CloudFormation templates using **Ansible**.
* Hands-on experience with **Elastic Cloud Computing (EC2)**, **Simple Storage Service (S3)**, **AWS CDK**, **AWS Fargate**, **Elastic Beanstalk**, **Amazon Lambda**, **VPC**, **Load Balancing**, **RDS**, and **CloudWatch**.
* Develop **CloudFormation templates** for code pipeline deployment of applications (e.g., Spring Boot) on **EKS clusters**.
* Use **Maven** POMs for automated builds and integrate with tools like **SonarQube** and **Nexus**.
* Utilize **Chef** and **Puppet** for server management on AWS and write **Chef Cookbooks** for modular configurations.
* Develop Java APIs for **Amazon Lambda** to manage AWS services.
* Contribute to backend development using **Spring**, **JPA**, and **Hibernate** for improved application performance.

**Environment:** Amazon Web Services (AWS), IAM, S3, EC2, VPC, cloud watch, ANT, Maven, GitHub, Chef, Puppet, Ansible, Terraform, Docker, WebLogic, Kubernetes, TFS, Git, Java, Apache Tomcat, JBoss, Junit, PowerShell, Jira, Cucumber.

**Client: Jefferies-NY Apr 2019 – Nov 2021**

**DevOps Engineer**

**Responsibilities:**

* Developed and implemented Software Release Management strategies for various applications in an agile environment.
* Administrated Linux and Windows environments using Ansible, Chef and Puppet based on the needs.
* Created and Configured Jenkins server using Ansible and Shell scripts.
* Involved in daily Scrum meetings. Also involved in Iteration/Sprint planning meeting to plan the efforts for upcoming sprint based on the priority and estimated effort.
* Participated in weekly release/Environment meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI's.
* Maintained and administered GIT source code repository, GitHub Enterprise is used.
* Implemented new Docker container creation process for each GitHub branch gets started on Jenkins as Continuous Integration server.
* Extensively worked on AWS CDK (Cloud Development Kit), deployed infrastructures for a static website, or even a complex, multi-stack application that spans multiple AWS accounts and regions using Python/Typescript.
* Implemented AWS Code Pipeline and Created Cloud formation JSON templates in Terraform for infrastructure as code.
* Worked on the Deployment, Configuration, Monitoring and Maintenance of OpenShift Container Platform.
* Managing the Openshift cluster that includes scaling up and down the AWS app nodes.
* Created EKS cluster using cft template (Cloud formation template).
* Planning, Designing Automation Framework using QTP (VB Script) and Selenium and developing automation scripts for banking and investments applications on Java.
* Integrated Kafka source to read the payment confirmation messages
* Maintained and administered GIT source code repository and GitHub Enterprise.
* Implemented Maven as build tool on Java projects for the development of build artifacts on the source code.
* Developed and Implemented ANT and MAVEN Scripts to automation of build process on MAVEN build tools to test the application manually and run the JUNIT Test suites in TDD.
* Developed Shell/Python scripts to automate the deployment process.
* Owning the Activity of Upgrading, administering, plug-in management, and User Management and Job creation in Jenkins.
* Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Worked with AWS API to manage resources on AWS for many services such as EC2, S3, VPC, Cloud watch, ELB, Auto-scaling and SNS, created python script using AWS API Calls to manage all resources deployed on AWS.
* Cloud development and automation using Node.js. Python (Bot03), AWS Lambda, AWS CDK (Cloud Development Kit) and AWS SAM (Serverless Application Model).
* Deployed and hosted the application on AWS using Ops Works, automated single click deployment onto AWS using Chef.
* Implemented custom procedures to unify streamline and automate application development and deployment process with Linux container technology using Docker.
* Maintained JIRA for tracking and updating project defects and tasks.

**Environment:** GIT, AWS, Jenkins, Terraform, Ansible, SVN, Puppet, Open Stack, Docker, Selenium, Kafka, ANT, Jira, Maven, VSTS, PowerShell (bash), Apache Tomcat Application Server, Salt stack.

**Client: Primerica-Duluth, GA Jan 2017 – Mar 2019**

**DevOps Engineer**

**Responsibilities:**

* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Worked on Administration, maintenance and support of Red Hat Enterprise Linux servers.
* Create, maintain and administrating GitHub and Subversion repositories as source code managements.
* Created end to end automation of Continuous Deployment and Configuration Management in UDeploy.
* Provisioned and configured Tomcat and Apache instances using shell/Perl/groovy in UDeploy.
* Working on build Systems such as Make, Maven.
* Converting the ANT Build projects to Maven Build projects.
* Manage deployment automation using Puppet, Custom Puppet Modules and Ruby.
* Configured and Managed Jenkins for running the automated Builds and Deployments to CI Dev Servers.
* Creating new build jobs, Integration testing jobs and deploy jobs in Jenkins to automate the process.
* Developed procedures to unify, streamline and automate application development and deployment procedures with Linux container technology using Docker.
* Involved in maintaining Art factory Server for managing code artifacts like jars, wars, ear files.
* Wrote ANT Scripts to automate the build process.
* Used Jenkins and Ansible for Continuous Integration and AWS continuous deployment in Multiple environments.
* Created node group and joined using EKS Cloud formation template and kubectl using code pipeline
* Created Cloud formation template for code pipeline to deploy pod with spring boot application on eks cluster.
* Worked on a POC to improve cloud deployment reviewing Cloud Formation, Chef and Terraform.
* Create Jenkins job to build the artifacts using maven, deploy the Terraform templates to create the stack.
* Optimized the Cassandra cluster by making changes in Cassandra configuration file and Linux OS configurations.
* Bootstrapping instances using Chef and integrating with auto scaling.
* Performed application server builds in EC2 environment and monitoring them using cloud watch.
* Prepared JUnit test cases and executed server configurations.
* Defined high level strategy and positioning of IaaS and PaaS for Cloud consumption.
* Implemented & maintained the branching and build/release strategies using ClearCase.

**Environment:** Red Hat Linux 5.0, GIT, SVN, Maven, Hudson, Jenkins, Shell, Perl, Python, ANT, Cassandra, Stack storm, Apache Tomcat, SQL, Unit, Jira AWS, CHEF, Clear Case.

**Client: Relitech Systems Pvt Ltd- Bangladesh Jan 2014 – Sep 2016**

**DevOps Engineer**

**Responsibilities:**

* Provided CM and Build support for more than 3 different applications, built, and deployed to the production and lower environment.
* Proficient in developing Web Services (SOAP, RESTful) in python using XML, JSON.
* Defined and Implemented CM and Release Management Processes, Policies and Procedures.
* Installed and Configured Jenkins Plugins to support the project specific task
* Kept track of all the releases and request of the developers through Infrastructure management tool.
* Designed and implemented Subversion metadata including elements, labels, attributes, triggers, and hyperlinks.
* Controlled Subversion (branch) access to successfully run parallel development and release.
* Configured Jenkins as a common build engine to build and deploy applications to DEV, QA, and UAT and PROD environments.
* Implemented, maintained, and supported reliable, timely and reproducible builds for project teams.
* Maintained build related scripts developed in ANT, Python and Shell. Modified build configuration files including Ant's build.xml.
* Worked with development team to migrate Ant scripts to Maven.
* Researched and implemented code coverage and unit test plug-ins with Maven/Jenkins.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds.
* Worked with development/testing, deployment, systems/infrastructure, and project teams to ensure continuous operation of build and test systems on Agile methodology.
* Installed, configured, and administered WebSphere Application Server on Solaris Server.

**Environment:** Ant, Maven, Jenkins, Linux, Solaris, Python, Shell Scripting, WebSphere, Oracle, Nexus.

**Education:**

Bachelor of Commerce, Major in Management, National University, 2001