**Mubarik H**

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**DevOps Engineer**

**Profile Summary**

* 7+ years of experience in the field of **DevOps** Engineering in configurations, codecompilation, packaging, building, automation, managing and releasing code from one environment to another and deploying to servers.
* Experienced in **Jenkins** by installing, **configuring** and maintaining for purpose of **continuous integration** **(CI**) and for end-to-end automation for all build and deployments and creating Jenkins **CI** pipelines.
* Experienced in **branching**, **merging**, and maintaining the versions using **SCM** tools like **Git** and **GitHub** on windows and Linux platform.
* Experience with Amazon **AWS** Cloud Services like **EC2**, **VPC** and **Auto scaling**.
* Used **Jenkins** Manage and Build code with Authorization.
* Extensively worked with Scheduling, deploying, managing container replicas onto a node using **Kubernetes** and experienced in creating **Kubernetes** clusters work with **Helm** charts running in the same cluster resource.
* Proficient knowledge with **Helm** charts to manage and release of **Helm** packages.
* Experienced in the creation of **Docker** containers and Docker consoles for managing the application life cycle.
* Creating custom Docker Images using Docker file for easier replication of DEV and QA Environments in local machines.
* Good knowledge on experience with AWS **Redshift**. Experience working on administering various AWS Services using Amazon AWS Console, CLI in **Linux** and windows environment and by using Amazon API using **Java** and Python.
* Configured and monitored distributed and multi-platform servers using Nagios.
* Strong Experience automated build platforms/continuous integration using DevOps architecture.
* Used **Ansible** performed **configuration management** and remote execution.
* Skilled with Cloud to design Infrastructure as a Service (Iaas) and Platform as a Service capabilities (PaaS)
* Extensive experience using **Maven** as build tools for the **building** of deployable artifacts (jar, war and ear) from **source code**.
* Created and maintained Infrastructure for Applications in AWS using **Terraform**. Building & Automating CICD pipelines for different applications.
* Major focus on Configuration, **SCM**, **Build**/**Release** Management, Infrastructure as a code (**IAC**) and as Azure DevOps operations Production and cross platform environments.
* Strong analytical an d problem solving skills and can work either independently with little or no supervision or as a team member.

***Certifications***

* AWS Certified Developer Associate - DVA-C01
* Microsoft Azure Fundamentals - AZ900

***Technical Skills***

**Cloud Technologies:** Microsoft **Azure**, AWS

**Operating Systems:**  Windows All variants, Linux

**Monitoring Tools:**  App Dynamics and **Kibana**

**Provisioning Tools:** **Terraform**, **Cloud** Formation

**Web/Application Servers:** **WebLogic**, **Tomcat**, Apache HTTP Server

**Database: Oracle**, SQL Server, MySQL and MS Access (using **VBA**)

**Configuration Management:** Splunk, **Docker**

**Test and Build Systems:** Jenkins, Maven

**Project Management Tools:** MS Office, MS Project

**Design Tools: UML** (Use cases, Class Diagrams, Sequence Diagrams)

**Source Control Tool:** **GIT**, Subversion (**SVN**)

**Professional Experience**

**Duquesne Light Holdings, Inc/Pittsburgh, PA May 2021** to **Current**

**Sr DevOps/SRE Engineer**

**Project Overview:**  I've recently been working on a project involving a #Continuous Integration (CI) pipeline. The project's main goal was to create an automated pipeline that uses #Jenkins, #Nexus, #SonarQube, and #Slack. The pipeline takes input from every commit made by a developer and produces a well-tested artifact that can be deployed to servers for testing. If the artifact passes the testing phase, it is then promoted to production.

**Tools & Environment:** AWS, **Python**, ANT, **Maven**, Chef, **Jenkins**, **OpenShift**, Subversion, Kubernetes HTML, MySQL, **Helm,** Oracle DB, **Ngnix**, Puppet, **Tomcat**, **Splunk**, GIT, SVN. Public Cloud Services, OpenShift, PowerShell, HyperV.

* Created a fully automated build and deployment Platform and coordinating code builds promotions and orchestrated deployments using Jenkins and **GitHub**.
* I have created 5 #EC2 instances for Jenkins, Nexus, and SonarQube with user-data scripts
* Created a GitHub repository and GitHub webhook for Jenkins to automatically trigger the build job whenever there is a code change
* Created Sonarqube webhook to send notifications to Jenkins once the quality gate reports are ready.
* Created Jenkins file for the pipeline, and configured Jenkins job to get this file from the project repository in #GitHub.
* Created hosted, group, and proxy repositories for Maven in Nexus Artifact Repository
* Configured Slack Integration with Jenkins for post-build notification after #CI jobs.
* Used Struts tag libraries (**html**, logic, and **bean**) in the development of JSPs.
* Worked on setting up staging and **production** environment for CI **workflow** using Jenkins and its plugins.
* Create and configure Jenkins server using **Terraform** and **Ansible**.
* Launching **AmazonEC2** Cloud Instances using Amazon Web Services (Linux/ Ubuntu/RHEL) and Configuring launched instances with respect to specific applications.
* Build and deployed the code artifacts into the respective environments in the Confidential AWS cloud.
* Provided framework for automated deployment in **Tomcat** environment.
* Installed, configured, administered, and integrated Apache Web Server with the WebLogic Application Server for **load balancing**.
* Migrated **JIRA** across environments and worked on JIRA database dumps.
* Installed, configured and managed MongoDB servers and performance tuning of Mongo Databases.
* Integrated with **TeamCity** and Octopus for the continuous integration and continuous delivery. The development is incremental, once the changes are checked-in to TFS, the daily build runs, executes the unit test cases and deploys the changes on CI environment.

**PNC Bank / Wilmington, DE October 2017** to **April 2021**

**DevOps Engineer**

**Project Overview:**  During my time at PNC Bank we created new system monitoring Grafana, Prometheus, Zabbix and Alert manager in docker, for production environment, test servers and network hardware. We also created new pipelines in Gitlab CI|CD (Gitlab\Ansible).

**Tools & Environment: Amazon EC2**, Auto scaling, **Linux**, Grafana, Helm, Maven, GitLab, Ansible

* Built prod, dev, test environment for C# and JS, TS: Ansible, Gitlab, Vault.
* Used **Shell** scripts in day-to-day activities and tasks for **automation**.
* Automation of server infrastructure, user control: Ansible.
* Migration on micro services (docker/ docker-compose).
* Created new pipelines Gitlab CI|CD (Gitlab\Ansible).
* Created new system monitoring Grafana + Prometheus + Zabbix + Alert manager in Docker for production environment, test servers and network hardware.
* Created Ansible - test for build pipelines.
* Used **Jenkins** tool to automate the **build process**.
* Created and implemented chef cookbooks for deployment and used Chef Recipes to create a Deployment directly into **Amazon** **EC2** instances.
* Worked in **GIT** to manage **source code**.
* Deployed applications to **Tomcat** Application Server and static content to Apache web servers.
* Automated the continuous integration and deployment using Jenkins, and **Docker**.

**Travelers Insurance Inc / Hartford, CT Feb 2015** to **Aug 2017**

**Cloud Engineer**

**Project Overview:** Worked as Cloud Engineer which includes AWS and Azure platforms. Experience with on boarding of multiple applications from on-premises to cloud and POC to Azure. Got a chance to work with different IAM groups, implemented chef recipes, and worked with Python for automating the process, worked with CI support for multiple teams.

**Tools & Environment:** AWS, Python, **Django**, **SVN**, Jenkins, **Web logic**, Rally, Shell, Chef, Ruby, Ant, **Maven**, **Linux**, **Web Framework**, **GIT**

* Implement, maintain and support reliable, timely and reproducible builds for project teams.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using Subversion (**SVN**) **source control**.
* Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks.
* Defined and Implemented CM and **Release Management Processes**, Policies and Procedure.
* Wrote Chef Recipes to manage configurations and automate installation process.
* Created AWS Route53 to route traffic between different regions.
* Responsible for maintaining 4-5 different **testing**/**QA** environments and erection of the prod environment in AWS monitoring live traffic, logs, memory utilization, disk utilization and various other factors which are important for deployment.
* Involved in writing **Java API** for Amazon Lambda to manage some of the AWS services.
* Worked on developing the backend part of the application involving Spring 3, JPA and Hibernate
* Provided CM and **Build support** for more than four different applications, built and deployed to lower and higher environments.
* Developed and integrated the deployment process in CI environment using Jenkins.
* Architect, implement, then maintain a completely scripted SaaS infrastructure with continuous integration for a Linux environment running in AWS
* Configured and maintained Hudson to implement the CI process and integrated the tool with Ant and Maven to schedule the builds. Took the sole responsibility to maintain the CI Jenkins server.
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Developed website both frontend and backend modules using **Python, Django,** and **Web Framework**.

**Education**

* Masters at MSMIT (Technology Management) at Sullivan University, Lexington, KY, USA- 2015
* Bachelors at IT(Technology management) in Punjab university, Lahore- 2006