** Muddassir Ahmed**

**Build and Release Engineer**

**646-267-1336**

**muddassirahmed898@gmail.com**

**Professional Summary**

* **6 years** of expereince in IT Industry as a **Cloud** **Devops Engineer** withproven expertise in **Cloud, Build/Release Engineering** and **Software development** involving cloud computing platforms like **Amazon Web Services (AWS), Infrastructure Administration** in **LINUX (RHEL/CENTOS 5/6/7, Ubuntu)**, **Windows Server 2008 R2/2012 R2**, **CI/CD** (Continuous Integration & Deployment/Delivery) Pipeline under **DevOps Culture.**
* Worked with different teams like Dev, test and prod team to maintain easy workflow of application.
* Worked with Version Control Systems **CVS, SVN** (Subversion), **GIT**, **GitHub, BitBucket, CodeCommit, S3.**
* Expertise in working with the various AWS broad set of global cloud-based products such as Compute-**EC2,** Networking-**VPC,** Scalability-**ELB,** Auto Scaling, Storage and Archiving-EBS, S3, Glacier, Monitoring-**Cloud Watch,** Security-**IAM,** Management-**Cloud Formation,** **AWS** CLI-**Filter, Query** etc.
* Expertise in creating DevOps strategy in a mix environment of Linux **(RHEL, CENTOS)** servers along with Amazon Web Services.
* Experience with **Linux/UNIX** environments and scripting for Build & Release automation.
* Supported AWS Cloud environment with 500+ **AWS** instances and configured Elastic IP Elastic Storage and also experience working on implemented security groups.
* Experienced in Amazon **EC2** setting up instances as well as migrating data to AWS from data Center, Configuring and Networking of virtual private cloud (**VPCs**), and security groups.
* Worked on AWS Cloud platform and its services which includes **EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation AWS, Auto scaling, Cloud Front, IAM, S3**.
* Involved in setting up several builds for several applications using **Chef.** Also involved in pushing all of the configuration management into **Chef** to allow rapid roll-out of infrastructure.
* Experience with **IaaS (Infrastructure as a Service), SaaS (Software as a Service), PaaS (Platform as a Service)** and solutions.
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2 instances, Auto Scaling, ELB and AMI’s.** Utilized EBS to store persistent data and mitigate failure by using snapshots.
* Used **Jenkins** as Continuous Integration tool: creating new jobs, managing required plug-ins, build trigger, build system and post build actions, scheduled automation builds.
* Worked on the Deployment, Configuration, Monitoring and Maintenance of **OpenShift** Container Platform.
* Experience with any industry DevOps tools, open source technologies and cloud services starting from **BitBucket, Artifactory, Jenkins, Docker, XLR, UCD.**
* Experience in using build automation tools like **MAVEN, ANT** for the building of deployable artifacts such as **WAR, JAR & EAR** from source code.
* Experience on configuration management (**Chef/ Ansible**) and continuous integration (**Jenkins**).
* Experience in integrating Unit Tests and Code Quality Analysis Tools like **JUnit, Cobertura, Clover, PMD, find bugs and check style.**
* Worked on **Cloud Computing IaaS, SaaS and PaaS** with hands on experience in AWS cloud and OpenStack platform.
* Experience in using **Tomcat Web Server and JBoss ,Weblogic and Websphere** Application Servers for deployment.
* Deployment of **Swarm Cluster** for **Jenkins** build tooling.
* Experience with Bug tracking tool like **JIRA**. Created and wrote shell scripts (**Bash**), **Ruby**, **Python** and **PowerShell** for automating tasks.
* Experience with Docker or Linux container technologies like **Kubernetes, Rancher, Docker Swarm.**
* Understanding of cross platform environments **(Dotnet, Unix, MacOS, Java)**.
* Implemented **CI** using **Jenkins** and continuous deployment using **Chef** and **AWS.**
* Extensive experience utilizing hands-on development practices using **VSTS, Chef, Ansible,** and **Puppet.**
* Create **VM**’s using **AWS AMI** and deploy application using **Chef.**
* Configured and used apache as a load balancer to route the requests from users to the web applications hosted on two different **WebLogic servers.**
* Experience with any industry DevOps tools, open source technologies and cloud services starting from **BitBucket, Artifactory, Jenkins, Docker, Azure, XLR, UCD.**
* Strong proficiency in supporting Cloud environments like **AWS, OpenStack, IaaS, PaaS and SaaS** tool.

**Cerification**

* AWS Certified Developer-Associate

**Technical Skills**

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| **Operating Systems** | RHEL/CentOS 5.x/6.x/7, Linux-Ubuntu/Fedora, Windows 7/8/XP/10, AWS-Linux CLI |
| **Networking** | VPC, Route-53, LDAP, DNS, FTP, DHCP, SSH |
| **Databases** | MySQL, MongoDB, Cassandra, PostgreSQL, SQL Server |
| **Backup/Monitoring Tools** | S3 (Simple Storage Service), Cron Jobs, Cloud watch, Splunk, Nagios |
| **Source Control** | GIT, SVN, Bitbucket |
| **Configuration Management** | Ansible, Puppet, Chef |
| **Virtualization/ Containerization Technologies** | VMWARE, VSPHERE 5.5/6.0, VCENTER SERVER, AWS ECS, Docker Container services, Pivotal Cloud Foundry, Vagrant |
| **Cluster Management** | Kubernetes, Docker Swarm |
| **Languages** | Python, Shell scripting, Bash, Groovy |
| **Web/Application Server** | IIS, Tomcat, Apache, Jboss, WebSphere Application Server, Web Logic |
| **Build and Deploy Tools** | ANT, Maven, Graddle, Jenkins, Bamboo, TeamCity, TFS |
| **Infrastructure** | AWS, Azure, OpenStack |
| **Web Technologies/ Programming Languages** | Servlets, JDBC, JSP, XML, HTML, Java Script, Java/J2EE, C, C++, Python, Shell scripting |
| **Software Methodologies** | Agile-SCRUM, Waterfall, RUP, Xtreme |
| **Project Management/ Bug tracking Tools** | JIRA, Confluence, Remedy, HP Quality Center, Bugzilla |

**Professional Experience**

**UPMC, Pittsburg, PA March 2019 - Present**

**Sr. Build and Release Engineer**

**Responsibilities:**

**Project 1:**

* Experience in Software Integration, Configuration, building, automating, managing and releasing code from one environment to another environment and deploying to servers
* Involved in supporting cloud instances running **Linux and Windows on AWS**, experience with **Elastic IP**, Security Groups and **Virtual Private Cloud in AWS**.
* Extensive experience on configuring **Amazon EC2**, **Amazon S3, Amazon Elastic Load Balancing IAM and Security Groups in Public and Private**
* Subnets in **VPC** and other services in the **AWS**.
* Managed network security using Load balancer, Auto-scaling, Security groups and **NACL**.
* Experience in **Python** programming for deployment of Java applications and implementation and automation of Shell scripts for **release and build automation**
* Experience in migrating build.xml into pom.xml to build the applications using **Apache MAVEN**
* Extensively worked on **Jenkins CI/CD** pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the **Jenkins** build process.
* Implemented Jenkins Code Deploy plugin to deploy to AWS and used to automate the build process and deploy the application to Tomcat server.
* Created Route tables to route the traffic to find whether it is public or private network.
* Used Bootstrap Script for launching large number of instances in **AWS**.
* Utilized AWS CLI to automate backups of ephemeral data-stores to **S3 buckets, EBS and create nightly AMIs** for mission critical production servers as backups.
* Used **Chef** for configuration management of hosted Instances within **AWS, Configuring and Networking of Virtual** Private **Clo**ud (VPC).
* Experience in Jenkins and Gitlab CI to perform Nightly builds, Milestone builds and Continuous Integration
* Dexterity in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like **Subversion (SVN), GIT (GitHub, GitLab).**
* Used Cloud Front to deliver content from **AWS** edge locations to users, allowing for further reduction of load on front- end servers.
* Creation and implementation of REST API for MongoDB DataSource for new applications
* Responsible for build and deployment automation using **AWS, Docker, Kubernetes containers and Chef**
* Focused on containerization and immutable infrastructure. **Docker** has been core to this experience, along with Kubernetes.
* Supporting our customers when for various issues in applications through debugging log dumps, thread dumps
* Experienced in using **Docker** Swarm and deployed **spring boot** applications.
* Developed container support for cloud environments and **Docker.**
* Deployed the applications in **Docker** containers and managed the containers in enterprise level.
* Created **Docker images** using a **Docker** file, worked on **Docker container snapshots**, removing images and managing **Docker volumes**
* Configured Docker container for branching purposes and Implemented **Docker automation solution for Continuous Integration / Continuous Delivery model**
* Created and implemented chef cookbooks for deployment and used Chef Recipes to create a Deployment directly into **Amazon EC2 instances**
* Developed **Chef** Cookbooks to manage system configuration and for **Tomcat, MySQL, Windows applications and versioned them on GIT repositories and Chef Server**
* Installed **RedHat Linux using kick start** and applying security polices for hardening the server based on company's policies.
* Created users, roles and groups using **Identity Access Management (IAM)** and attached the required policies.
* Scripting of administration tasks using **CLI, Power Shell, Shell and Ruby**.
* Built upstream and downstream jobs in **Jenkins to build and deploy onto different environments**.
* Performed **Branching, Tagging, Release Activities on Version Control Tool GIT (GitHub).**

**Project 2:**

* Working on **Azure Admin tasks like provide access AAD, create VMs, create Oracle DB, Cosmos DB, Function Apps, APIM**
* Continuous monitoring by creating rules and alerts using Azure Monitor.
* Deploying Azure virtual machines and monitoring through OMS.
* Create and maintain fully automated CI/CD pipelines for code deployment using VSTS ( Azure, DevOps).
* Created and deployed VMs on the Microsoft cloud service **Azure**, managed the virtual networks, **Azure AD** and **SQL**.
* Interacted with Architect & implemented Cloud / Azure based systems as a part of POC in the patching process.
* Worked on Power Shell scripts to automate the Azure Cloud system creation of Resource groups, Web Applications, Azure Storage Blobs &Tables, firewall rules.
* Established Chef Best practices approaches to systems deployment with tools such as vagrant, Berkshelf and test-kitchen and the treatment of each **Chef cookbook** as a unit of software deployment, independently version controlled.

**Environment:** Amazon Web Services, AWS EC2, S3, Bucket, GIT, Maven, Nagios, Jenkins, IBM Urban Code Deploy, Cloud Watch, Agile, Kubernetes, GitHub, WebLogic, Tomcat, Shell & Perl Scripting, MySQL, Jenkins, Docker.

**AT&T -Middletown, NJ Jun 2017 – Feb 2019**

**Sr. Build and Release Engineer**

**Responsibiliuties:**

* Configured, monitored, and maintained difference application servers as an administrator for Jenkins and other CI tools.
* Planned, coordinated, and maintained the migration process for application servers.
* As an Ops personnel I was responsible for creating new repositories for new projects, setting up tools: Jenkins integrating it with project repos and assigning it for DEVELOPER teams.
* Installed different Plug-ins in Jenkins to make easy for different team developers to commit their changes in SCM.
* Experience with VMware vRealize suite, vRA blueprints and catalog, vRO workflows and REST integrations.
* Evangelize DevOps and CI/CD: Demonstrate Full stack clusters including Kubernetes, Jenkins, GitLab.
* As an administrator I was responsible for Managing projects, Build Configurations, User Accounts, Groups and Permissions in Jenkins & Gitlab.
* Automated AWS infrastructure using Terraform.
* Configured and managed source code using GIT and resolved code merging conflicts in collaboration with application developers and provided a consistent environment. Implemented Continuous Integration using GIT
* Implementing new projects builds framework using Jenkins, Chef & maven as build framework tools.
* Experience with Amazon web services (AWS) and the virtualization-based technologies. Worked in the design of highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMI’s.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds.
* Proposed and implemented various branching strategies using Version Control Systems and experienced in creating branches, tags and performing merges in GIT, Gitlab,Github, SourceTree and SVN.
* Experience of using distributed version control system GITHub, GitLab
* Complete lab setup for Single-On of application with Azure & Local AD containers.
* Communicated with all levels of engineering, management, development and test teams.
* Worked on Kubernetes configuration, concepts and management.
* Experience in creating fully automated infrastructure for **CI/CD** processes with **Docker, Jenkins (Cloudbees), Sonar Cube, VMWare, RHEL, Satellite, Kubernetes, Artifactory, Ansible & GitLab.**
* Involved in designing and deploying multiple applications utilizing almost all of the AWS stack (including EC2, S3, Cloudformation, SNS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud formation.
* Knowledge on setting up containers in a cloud environment, which includes being knowledgeable in Docker, Kubernetes and other container tools.
* Configured and managed high available (HA) EC2 servers for different application AWS.
* Worked on multi platforms like Linux (Centos-7)
* Ran SonarQube on test server in sprints to check for bugs. And monitoring on prod server during SDLC.
* Created a Chef Server for our team purpose and Involved in Configuring, monitoring and multi-platform servers by defining Chef Server from workstation (ChefDK) to manage and configure Chef Clients.
* Automated the scripts in Python for whole migration process using CM tool CHEF.
* Created multiple workspaces for Vagrant within CentOS using Virtualbox.
* Administering servers and workstations in AWS using Amazon Console, Active Directory, group policies, organizational unit management, domain name server.

**Environment**: AWS, Linux, Gitlab, Maven, CHEF, Jenkins, Terraform, Ansible, Vagrant, Virtual Box

**Worldpay, Atlanta, GA March 2017 – May 2017**

**Sr. Devops Engineer**

**Responsibilities:**

* Working for DevOps Platform team responsible for specialization areas related to Chef for Cloud Automation.
* Application of automations tools like Chef, Ansible, DevOps based on the requirements.
* Expertise in using build tools like Maven and Ant for the building of deployable artifacts such as war & ear from source code and writing Pom.xml and Build.xml respectively
* Resolved update, merge and password authentication issues in Gitlab and Jira.
* Deployment and implementation of Chef for infrastructure as code initiative.
* Performed the automation using Chef Configuration management.
* Extensively used Ruby scripting on Chef Automation for creating cookbooks comprising all resources, data bags, templates, attributes.
* Creation and implementation of REST API for MongoDB DataSource for new applications
* Manage deployment automation using Chef, MCollective, Hiera and Ruby.
* Designed the project workflows/pipelines using Jenkins as CI tool. Expert in User Management and Plugin Management for Jenkins
* Worked with Terraform for automating VPC's, ELB's, security group's, SQS queues, S3 buckets, and continuing to replace the rest of our infrastructure.
* Expert in User Management, Disaster Recovery Processes and Plugin Management for Jenkins.
* Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, Auto-Scaling.
* Worked with Knife command-line tool and creating Cookbook.
* Implementing a Continuous Delivery framework using Jenkins, Chef, and Maven in Linux environment.
* Imported and managed multiple applications in Subversion(SVN).
* Provided end-user training for all Subversion (SVN) users to effectively use the tool.
* Configured Elastic Load Balancers with EC2 Auto scaling groups.
* Intermediate to advanced level expertise in setting up and maintaining code repositories (GIT).
* Experience with CI(Continuous Integration) tools Jenkins, Bamboo.
* Conducted application readiness assessment including application mapping to understand application dependencies.
* As an administrator I was responsible for Managing projects, Build Configurations, User Accounts, Groups and Permissions in Jenkins & Gitlab.
* Experience in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like Subversion (SVN), GIT (GitHub, GitLab), TFS, Clearcase, Harvest and VSS
* Integrated and implemented a complete cloud services framework (IaaS, PaaS, and SaaS) and cloud deployment model (private, public, and hybrid)
* Monitoring and tracing logs using Dynatrace.
* Experienced in build tools such as Apache Ant, Maven.
* Designed infrastructure for AWS application and workflow using Terraform.
* Implementation and continuous delivery of AWS infrastructure using Terraform.
* Installation of AEM 5.x (5.6/5.6.1) using Puppet Docker, and Python.
* Implemented the Dashboard deployment for AEM instances.
* Maintain AEM instances, services, hotfixes, service packs and updates.
* Developed templates, designs and components for microsite in AEM.
* Managed servers on the Amazon Web Services (AWS) platform instances using Puppet, Chef
* Configuration management.
* Used AWS CloudFront (content delivery network) to deliver content from AWS edge locations drastically improving user experience and latency.
* Develop the automated build and deployment using Ant and Hudson/Jenkins using tomcat as the
* application server.
* Developed and implemented Software Release Management strategies for various applications
* according to the agile process.
* Extensive experience with Git/ GITLAB for Source code and creating branches and forks for feature developments.
* Troubleshoot Build and Deploy Issues, with little downtime.
* Implementation of cloud services IAAS, PAAS, and SaaS which include Openstack, Docker and Openshift.
* Strong knowledge and experience with JavaServer Pages (JSP).
* Working experience with source control solutions (preferably SVN).
* Worked with Red Hat OpenShift Container Platform for Docker and Kubernetes. Used Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Cloud architect focused on adoption of Red Hat’s Openshift on premise cloud platform at paypal.
* Working experience with continuous integration environments (preferably Jenkins/maven).
* Created a build environment for Java / Grails using Jenkins, Git, Gradle, Maven, Artifactory, and a number of reporting tools.
* Strong knowledge of developing cross-platform/browser compatible, dynamic applications for web and/or mobile.
* Managed application and worked with DEV teams using OpenShift and Docker containers.
* Developed and implemented Software Release Management strategies for various applications
* according to the agile process.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.
* Provided stable build environments for product development.

**Environment:** SVN, AWS, Maven, Ant, Jenkins, Nexus, Confluence, Apache Tomcat, Chef, Find Bugs, Service now, AWS, EC2, Agile, IBM WebSphere.

**Oracle, India Feb 2015- Feb 2017**

**Build & Release Engineer**

**Responsibilities:**

* Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
* Build, manage, and continuously improved the build infrastructure for global software development engineering teams including implementation of build scripts, continuous integration infrastructure and deployment tools.
* Managed and optimize the Continuous Delivery tools like Jenkins.
* Worked on setting up the life cycle policies to archive the data from AWS S3 to AWS Glacier.
* Design roles and groups using AWS Identity and Access Management (IAM).
* Develop Cloud Formation scripts to automate EC2 instances.
* Used IAM to create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources.
* Managing the code migration from CVS and Star team to Subversion repository.
* Configured application servers (JBOSS) to deploy the code.
* Extensively used ANT tool to do the builds, integrated ANT to Eclipse and did local builds.
* Use RDS, MySQL and DynamoDB to perform basic database administration.
* Integrated Maven with Jenkins for the builds as the Continuous Integration process.
* Build Java code and .NET code on to different Jenkins servers as per the schedule.
* When required applied patches as per the release process.
* Maintained JIRA for tracking and updating project defects and tasks.
* Ensured all steps are successfully completed and document their completion times and issue logs.

**Environment:** Subversion, Ant, Maven, Jenkins, Web Sphere Application Server (WAS), SDLC, Web services, Web Logic, Perl scripting, Test Director, Mercury, Quality center, Oracle 10g, Visual Build, .Net, ANT, J2EE.