 BANDLA SANDEEP

AWS & DEVOPS Engineer

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**CAREER OBJECTIVE**

To be a part of an organization which give me chance to use my skills to the best of my ability and to obtain responsible position in the DEVOPS&AWS and I am enthusiastic and interested for new challenges to grow individually and professionally along it.

 **PROFESSIONAL SUMMARY:**

* Having **3.2+** years of experience as a **DevOps Engineer**, build, deploy and release process with various environments.
* Experience of Implementing Devops by integrating source control tools **GIT, BitBucket,** Build tools like **Ant. Maven**, CI/CD tool like **Jenkins** and Deployment automation tool like **Ansible** practices for the Billing Development Teams using **SonarQube**, **TOMCAT**.
* Having experience in Configuring **Jenkins** from the scratch and administering and automating the process with **Shell Scripting.**
* Good experience and Administrate the continues integration tool like **Jenkins**.
* Created automated build and release environment using Continuous Integration Tools

# Hudson/Jenkins.

* Implement **Master-Slave** concept in **Jenkins.**
* Good experience on Build Tool **Maven** and CI Tools like **JENKINS**.
* Having experience on **Apache TOMCAT.**
* Knowledge in Migrating the Infrastructure from on premise data centre to the AWS infrastructure.
* Configuring **Auto-scaling** for scale-in and scale-out based on Network and Application loads
* Handled operations and maintenance support for **AWS** cloud resources which includes launching, maintaining and troubleshooting EC2 instances, S3 buckets, Virtual Private Clouds (VPC), Elastic Load Balancers (ELB).
* Created and updated **Ansible playbooks**. Automated the cloud deployments using Ansible and AWS cloud formation templates.
* Configured **Ansible** to manage AWS environments and automate the build process for core AMIs used by all application deployments including Auto scaling.
* Written Ansible Playbooks for various DB configurations to modular and optimize product configuration.
* Amazon IAM was used to maintain the user credentials and involved in creating custom IAM policies to various groups defined within the organization.
* Design high availability applications on AWS across availability zones and availability regions.
* Having good knowledge in **Dockers Containerization**, Dockerfile.
* Virtualized the servers on AWS using the **Docker**, created the Docker files and version controlled them.
* Configuring the **Docker** containers and creating docker files for different environments.
* Configured and maintained **Jenkins** to implement the **CI** process and integrated the tool with **Ant** and **Maven** to schedule the builds and automated the deployment on the application servers using the “code deploy” plug-in for Jenkins.
* Experience with **Apache/Tomcat, Load Balancer (Apache)** and expertise in making configuration changes.
* Experience in configuring and deploying Web Applications using **TOMCAT** and Apache.
* Knowledge on Linux and Windows operating systems.
* Experience in Monitoring teams to identify and troubleshoot issues on servers using tools like

# Nagios.

* Utilizing the Cloud Watch to monitor resources such as EC2, CPU memory, and EBS volumes.
* Converting production support scripts to Ansible Playbooks and AWS server provisioning using Ansible playbooks.
* Created AWS Security Groups for deploying and configuring AWS EC2 instances.
* Worked in creating Kubernetes cluster for staging, QA, UAT environments.
* Deployed images in pods using ansible playbooks.
* Written ansible playbooks for creating Kubernetes cluster for all environments.
* Automated deployment process from Jenkins to Kubernetes Cluster.
* Develop and maintain an advanced platform to manage Kubernetes clusters lifecycle.

 **TECHNICAL SKILLS:**

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| --- | --- |
| **Elements** | **Particulars** |
| Application Server | Apache Tomcat |
| Build Tools | Maven |
| (SCM) Tool | Git, Bit Bucket. Git Hub |
| Continuous Integration (CI) Tools | Hudson, Jenkins |
| Databases | MONGO DB |
| Operating Systems | LINUX Ubuntu, Windows. |
| Scripting Languages | Shell Scripting |
| Monitoring Tools | Cloud watch |
| Artifact tool | Nexus |
| Containerisation tool | Docker |
| Container orchestration tool | Kubernetes,EKS. |
| Configuration tool | Ansible, Chef. |
| CodeQuality | SonarQube |
| Devops Tools | GIT,Jenkins,Ansible,Sonarqube,Nexus,Docker,Kubernetes,Terraform and Nagios. |
| AWS Services | EC2,S3,SQS,SNS,Cloud Front,Cloud Watch,Autoscaling,Load balancer,VPC,Route53,AWS Codepipeline,Lambda,Elastic Bean Stack,Migration & Transfer,IAM. |

 **PROJECTS:**

Project#2

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| **Project Name** | IELTS |
| **Role** | AWS&DevOps Engineer |
| **Environment** | AWS, GIT, Maven, Jenkins, Docker |

**Roles and Responsibilities: -**

* Launching and configuring of Amazon **EC2** (**AWS**) Cloud Servers using **AMI's** (**Linux/Ubuntu**) and configuring the servers for specified applications
* Worked in Amazon Web Services(AWS) **VPC**, **EC2**, Cloud formation, **S3**, **IAM**, **RDS**, Route **53**, **Cloud Watch** and Elastic cache.
* Utilized **Cloud Watch** to monitor resources such as **EC2**, **CPU** memory, **EBS** volumes to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
* Configured **Jenkins** and **Maven** for build and deployment.
* Responsible for releases, doing builds and managing build system using **Jenkins**.
* Associating with Build & Release team to setup **Jenkins** server & nodes for distributing the **Jenkins** jobs.
* Configuring **GIT** server and proving access for developers for check in, checkout and resolving merging conflicts.
* Involved in maintaining source code in Remote Repository.
* Involved in Writing **Docker** files to build customized images for creating containers.
* Configured **Jenkins** for automating manual tasks, created different build pipelines for better analysis.
* Design, implement, and maintain continuous build and deployment mechanisms.

Project#1

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| --- | --- |
| **Project Name** | **Ditech** |
| **Role** | DevOps Engineer |
| **Environment** | GIT, Maven, Jenkins, Linux, Docker |

**Description:**

Ditech Financial LLC is a provider of home loan, loan servicing and refinance products to consumers and institutional partners in the U.S. Ditech launched a [co-branding](https://en.wikipedia.org/wiki/Co-branding) and [joint-venture](https://en.wikipedia.org/wiki/Joint_venture) initiative with more than 600 institutional partners that provide mortgage and refinance loans to their customers.

**Role & Responsibilities:**

* Creating branches, tags and merging the code from one branch to another in **GIT**.
* Performed all System Administration tasks like **installing packages** and **patches**.
* Performing take backups, archiving and checking data integrity through **Shell Scripts** and job automation.
* Used **GIT** as source code repositories.
* Responsible for managing source code repository **GIT**, creating **Tags**, **Branches** and **Branch Merge.**
* Supported and developed tools for Integration, Automated Testing and Release Management.
* Used **GIT** as source code repositories.
* Created **Maven** build scripts for different projects and keeping them consistent and up to date
* Installing plugins in **Jenkins**
* Creating Master /slave configurations in **Jenkins**.
* Configured Webhooks for automated builds in **Jenkins**.
* Used **Jenkins** for Continuous Integration and deployment into **Tomcat** application server
* Configured **GIT** with **Jenkins** and schedule jobs using **Poll SCM** option.
* Pull and run the base images in the **Docker** from the **Docker HUB**.
* Automated the project’s build process using **Jenkins**.
* Containerization using **Docker**
* Uploading **Docker images** to **Docker** hub for backup purpose
* Design **EC2** instance architecture to meet high availability application architecture and security parameters.
* **Installing** and **configuring** application servers for deploying artifacts as per project requirements.
* Extensive knowledge in troubleshooting **builds, deployment, configuration** problems in development, QA and production environments.

**WORK EXPERIENCE**

* Working as DevOps Engineer at Infosys Limited, Bangalore from August 2017 to till date.

 **CERTIFICATIONS**

* Certified with **Amazon Web Services (aws) Solutions Architect- Associate**
* Validation Number K2LSCGWL1NF1Q4C6
* Validate at: http://aws.amazon.com/verification

I ***BANDLA SANDEEP***, hereby declare that the above details furnished are true under the best of my knowledge.