**PRASHANTH KUMAR**

**(DevOps Engineer)**

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**CAREER OBJECTIVE:**

To work with Progressive and Professional organization, have challenging and responsible opportunities, which will help to improve my knowledge and utilize my strengths and skills.

**PROFILE SUMMARY:**

* **DevOps Engineer** with **3.10** years of experience. Capable of demonstrating a detailed understanding of **Software Configuration Management, Deployments,** and **Cloud Services**.
* Responsibilities included continuous Build, Test, Deploy and Release management for application, working to various environments.
* Proficiency with Configuration Management & Build management tools such a**s Ansible, AWS, Maven, GIT, Jenkins, Shell Script, and Docker.**
* Proficient in designing and implementing automated **CI & CD** pipeline using **Jenkins’s** tool.
* Performed continuous **Build** and **Deployments** to multiple environments like **Dev, QA, UAT, and PROD.**
* Expertise with Configuration Management Tool **Ansible** and writing playbooks, roles for scalability, and Reusability.
* Configured **packages**, **services** using **Ansible modules** like yum, service, templates, handlers, etc. on AWS cloud and virtual environments.
* In-depth knowledge in integrating **Jenkins** with **AWS** to automate various services.
* Extensive experience using **MAVEN** as a Build tool for the building of deployable Artifacts (**Jar, war**) from source code.
* Deployed infrastructure on **AWS** utilizing services such as **EC2, EBS, VPC** and managed **Network** and **Security**, **IAM**, **ELB,** and **S3.**
* Proven knowledge with AWS services Creating, configuring, and Managing **Auto Scaling, and Load Balancer and VPC** services across **AWS Cloud**.
* Created **S3** buckets and managed policies for **S3** buckets**.** Utilized **S3** for Storage and backup on AWS cloud**.**
* Experience in setup, configuring, and managing services **Apache, Tomcat** through using automation playbooks and configuring these packages.
* Experience on Automate the Build and deployment of all internal **Java microservice** applications to all environments by using **Jenkins**.
* Extensive experience in designing and implementing **continuous integration, continuous delivery, continuous deployment** through Jenkins.
* Setup **Continuous Integration** with **Jenkins** and make use of a wide range of plugins available to set up smooth developer friendly workflows.
* Setup **SonarQube** projects which correspond to Git projects and provide code analysis different programming standards.
* Integrated Maven and **SonarQube** with Jenkins for the builds as the Continuous Integration Process.
* Involving the code review using the **SonarQube** to validate the code quality
* Integrated **SonarQube** to check the quality of the code by setting Quality Gates. Build Java code in different Jenkins’s servers as per the schedule
* Proficiency in using **Docker Hub, Docker images, Docker Swarm,** and **Docker Registry**and used **containerization**to make applications platform when moved into different environments.
* Proficient in creating **Docker images**using **Docker File**, worked on **Docker containers**, removed images, and managed **Docker volumes.**
* Experienced with setup, configuration, and maintain **ELK** stack (**Elasticsearch, Logstash, and Kibana)**
* Responsible for designing and deploying **ELK** clusters in **Environments (DEV, QA, UAT, and PRO)**
* Experience in Kibana in data visualization and monitoring Cluster and performance through X-pack
* Basic Knowledge of **Kubernetes.**
* Basic Knowledge of **Terraform**

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | Linux, UNIX & Windows |
| **Version Control Tools** | GIT, GITHUB |
| **Build Management Tools** | Maven |
| **Scripting Languages** | Shell Scripting |
| **Application Servers** | Apache Tomcat |
| **Continuous Integration Tools** | Jenkins |
| **Configuration Management Tools** | Ansible |
| **Virtualization Tools** | Docker and Docker Swarm |
| **Cloud Technologies** | AWS |
| **Monitoring Tool** | Kibana & Grafana |

**EDUCATIONAL QUALIFICATION:**

**B. Tech in Civil Engineering** from Malla Reddy Institute of technology and Science in 2015

**PROFESSIONAL EXPERIENCE:**

* Worked as a **DevOps Engineer** in **TCS** from May 2018 to date.

**PROJECT 3:**

**Project Title : State Farm**

**Role : Development Operations Engineer**

**Duration : Aug 2020 to till date**

**DESCRIPTION:**

State Farm is a large group of insurance and financial services companies throughout the United States with corporate headquarters in Bloomington, Illinois. The group's main business is State Farm Mutual Automobile Insurance Company, a mutual insurance firm that also owns the other State Farm companies.

**RESPONSIBILITIES:**

* Responsible for **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation using **Jenkins.**
* Responsible for using **MAVEN** as a Build tool for the building of deployable Artifacts (**Jar, war**) from source code.
* Responsible for setting up CI/CD **Jenkins, Maven,** and **SonarQube**.
* Responsible for integrating code quality tools in CI/CD such as **SonarQube**.
* **Build** **and Deploy Project** in Development environment and release coordination for other upper environments.
* Building the **war** and **jar** through Jenkins and documentation for **UAT and PROD** release.
* Responsible for Using **IAM** to assign roles, to create and manage **AWS** users, groups, and permissions to use AWS resources.
* Responsible for **Installation, Maintenance, Administration,** and **troubleshooting** of **Linux,** **Windows** servers
* Responsible for Managing and configuring **(Amazon Web Services) cloud services like EC2, S3bucket, Security groups, Auto - Scaling, AMI**.
* Responsible for Designing and managing public/private cloud infrastructures using Amazon Web Services (AWS) which include **EC2, S3, VPC, Cloud Watch**, and **IAM** which allowed automated operations.
* Responsible for installing and configuring **Elastic Logstash Kibana**
* Responsible for providing the access to the developers to visualize the logs in GUI.
* Involved in daily stand-up calls to ensure all the findings
* Setup **SonarQube** projects which correspond to **Git** projects and provide code analysis different programming standards.
* Integrated Maven and Sona type with Jenkins for the builds as the Continuous Integration Process.
* Integrated **SonarQube** to check the quality of the code by setting Quality Gates. Build Java code in different Jenkins’s servers as per the schedule
* Launching Amazon **EC2** Cloud Instances using Amazon Images (Linux/ Ubuntu) and configuring launched instances concerning specific applications.
* Good Knowledge of Configuration, Administration, and Maintenance of CI tool **Jenkins.**
* Created users and groups using IAM and assigned individual policies to each group.
* Created snapshots and Amazon Machine Images (AMI) of the instance for backup and created access Management (IAM) policies for delegated administration within AWS.

**PROJECT 2:**

**Project : Trade Delivery and Clearing System (TDCS)**

**Role : DevOps Engineer**

**Duration : Mar 2019 – Aug 2020**

**DESCRIPTION:**

The Trade Delivery and Clearing System (TDCS) is a best-in-class, end-to-end trade delivery and clearing system solution. TDCS tracks trades for securities and instruments, clears trades through Fixed Income Clearing Corporation (FICC), delivers trade pools to Bank of New York (BoNY) via batch processing, and completes trade/pool settlements and reporting.

**RESPONSIBILITIES:**

* Responsible for **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation using **Jenkins along with pipeline as a code and Shell scripts** to automate routine jobs.
* Responsible included continuous **Build, Test, Deploy** and **Release** management for applications, working in various environments.
* Extensive experience in designing and implementing **continuous integration, continuous delivery, continuous deployment** through Jenkins.
* Setup Continuous Integration with Jenkins and make use of a wide range of plugins available to set up smooth developer-friendly workflows.
* Responsible for Deploying **Apache Tomcat** web server.
* Worked on **Jenkins** by creating and scheduling jobs and builds and deployments using the same.
* Automated the deployment of artifacts to various environments **DEV, QA, UAT** using **Ansible** Playbooks.
* Created **S3** buckets and managed policies for **S3** buckets**.** Utilized **S3** for Storage and backup on AWS cloud**.**
* Launching virtual Linux servers in **AWS** cloud using **EC2** service.
* Attached are the **Security Groups** and triggering the inbound and outbound rules.
* Attached and removed the **EBS** volumes to the **EC2** instances as per client requirements.
* Created the **VPCs** and subnets in the **AWS** cloud.
* Managed the route tables to allow the communication & **VPC peering** connections.
* Created and managed the roles, policies in IAM access control.
* Worked on ticketing tools like **JIRA.**
* Experienced on the **tomcat** application server to deploy the applications.
* Managing the RDS instances in AWS cloud.
* Message notification service using SNS.
* Knowledge in installing, configuring, and administering Jenkins in Linux machines.
* Worked on **Docker**container snapshots, attaching to a running container, removing images, running on multiple tomcat instances, managing directory structures, and managing containers.

**PROJECT 1:**

**Project: Maine Revenue Service’s, Augusta, ME**

**Role : Build & Release Engineer**

**Duration : June 2018 –Apr 2019**

**DESCRIPTION:**

Maine Revenue Services provide information and services related to Maine state taxes and electronically files state tax returns, including sales tax and individual tax.

**RESPONSIBILITIES:**

* **Linux System & Middleware** Administrator responsible for the day-to-day administration and administration of RHEL 5, 6/ CentOS which includes installation, testing, tuning, upgrading, and loading patches, troubleshooting server issues.
* Defined and Implemented **CM** and Release Management Processes, Policies, and Procedures.
* Deploy and monitor scalable infrastructure on cloud environment **Amazon web services** (AWS) and configuration management using **Ansible.**
* Configuration Management and source code repository management using tools like **GIT.**
* Expertise in various **branching methodologies**, merging, and tagging to facilitate defect/change management in conjunction with projects across the organization.
* Ensured proper **version control, revision labels,** and **baseline management** procedures as part of the **release** process.
* Worked closely with Project Managers to understand a **code/configuration release** scope and how to confirm a release was successful.
* **Build, manage** and **continuously** improve the build infrastructure for global software development
* Designed & wrote **Ansible** Playbooks to manage configurations and automate the installation process.
* Configured and maintained Jenkins to implement the **CI process** and integrated the tool with **Ant** and **Maven** to schedule the builds.
* Coordinate/assist developers with establishing and applying appropriate branching, **Continuous Delivery** is being enabled through Deployment into several environments of Test, QA, Stress, and Production using **Nexus** and **Jenkins**.
* Deployment applications (**JAR, WAR,** and **EAR**) and related troubleshooting in clustered environment using **Admin console.**
* Automated the deployments to **DEV** and **QA** Environments by picking up builds from **Jenkins**
* Working on Daily builds Using **Shell Script** to extract automates the build process.
* Creating and Building jobs, CI/CD, Configuration, trouble-shooting of Jenkins.