**Sai Anjana**

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**PROFESSIONAL SUMMARY:**

Highly motivated AWS/DevOps engineer & CI/CD (Continuous Integration/Continuous Deployment) engineer with around 7 years of experience in working on DevOps/Agile operations process and as Developer around tools (Code review, unit test automation, Build & Release automation, Environment Management).

**EDUCATION:**

* Master’s in Information System Security from University of the Cumberland’s, Williamsburg, KY
* Bachelor’s In Computer Science Engineering from S.C.S.V.M.V University

**CERTIFICATIONS:**

* AWS Associate Solutions Architect **(**Validation Number XC1JKJDKDN1E1EC4**)**

**TECHNICAL SKILLS**

* **Operating Systems :** Linux (Ubuntu, Red Hat), Windows Variants
* **Design :** UML (Asta), Rational Rose 2000
* **Version Control Tools :** SVN, GIT and Clear case
* **Scripting**   **:** HTML, JAVA Script, Shell and Python
* **Servers :** IBM Web sphere, Apache Web Server, Apache Tomcat.
* **Containerization Tools :** Docker, Kubernetes
* **CM Tools :** Ansible, Chef
* **CI & Build Tools :** Ant, Maven, Jenkins
* **Monitoring Tools :** Nagios, Splunk
* **Programming :** C, C++, JAVA, C#.Net, VB.Net.
* **IDE Tools :** ECLIPSE IDE, NETBEANS
* **Virtualization :** VMware, VirtualBox, Citrix Xen
* **Tracking Tools :** HP-ALM, JIRA and Bugzilla

**EXPERIENCE:**

**Equinox – New York, NY JUNE 2019 – PRESENT**

**Cloud/DevOps Engineer**

**Roles and Responsibilities:**

* Managed, Improved, and Monitored cloud infrastructure on AWS, such as **EC2, S3, RDS, ECS**, Stand-alone **EC2, ECR, Route 53, CloudFront, Elastic cache, Lambda, IAM Roles, Kinesis Streams including backups, patches, and autoscaling** using **Terraform** as IaC.
* Configured **AWS** **IAM** **Groups**, **Users** and **role based access** for improved login authentication, Implemented security best practices in AWS including **multi factor authentication**, **access key rotation** and **least privilege** first methodology to restrict users access to project related resources using **terraform**, **bitbucket** and **Jenkins** to apply changes to the respective policies with the help of a **webhook**.
* Defined **AWS Security Groups** which acted as **virtual firewalls** that controlled the traffic allowed to reach one or more **AWS EC2 instances**, **ECS Clusters**, **Databases** and other resources / Services on **AWS**
* Have migrated multiple applications which were hosted on the **IIS server** to **ECS** Clusters as **Docker** containers from end to end using **multi branch pipelines** on **Jenkins** using branching strategies from **Bitbucket**.
* Have Achieved a **hybrid environment** for **Equinox.com** which Is customer facing website for the organization by routing the traffic between the **Docker containers** and the **IIS servers** using the **path based listener rules** to their respective **target groups** on an **Application load balancer** with zero down time using **Jenkins**, **Terraform** and **Docker**.
* Have included **build process** for the source code as a part of the **Docker image build** and published the **static content** to **S3 buckets** with a combination of using **Jenkins credentials** as **Environmental variables** in the **Docker file** and **AWSCLI** for syncing them to the **AWS** **S3** bucket.
* Have created multiple AWS **CloudFront Distributions** to route traffic to the **Application Load balancers** based on the **origins, TTL** using **Terraform**.
* Have integrated and exported logs from cloud watch to **Sumologic** using a lambda subscription.
* Have used multiple Atlassian tools such as **JIRA** for ticketing and **Kanban boards**. **Confluence**, **Bitbucket**, etc
* Was responsible for creating and assigning users to respective groups for access on the **Atlassian tools**.
* Have installed **NewRelic** Monitoring agents on multiple applications and infrastructure using **Ansible** Playbooks
* Have written **Ansible** playbooks for patching, updating the Windows and Linux servers and scheduled them using the **Jenkins server**.
* Have **supported** multiple **Outages** to fix the production Issues round the clock.
* Used to attend **DEV** standups apart from our team standup for a better understanding of the on going projects and help them create tickets and requests for appropriate resources in the **DEVOPS / INFRA** perspective.
* Was responsible for **continuous support** on the issues which were notified in the **slack channels** along with the ongoing projects.
* Have worked in an **Onsite and Off-Shore** environment and used to co-ordinate with multiple resources.
* Have taken many sessions with the **DEV** teams to make them understand the best CI-CD practices using the branching strategies and setup **multibranch pipelines** with **feature, hotfix** and **master** where feature had its own environment , master were pointed to the DEV, QA, PreProd, Prod and Hotfix to PreProd, Prod .
* Worked on AWS **API-Gateway** and integrated the **Lambda functions** on the **API-Gateway** using the **Jenkins**, **Terraform, BitBucket** and **swagger** files with end to end functionality using the **CI-CD** best practices.
* Have written multiple **Jenkinsfile** for different projects to **build**, **publish** and **deploy** along with **sonarcube** test interations.
* Published artifacts to **S3** and **Jfrog** using Shell Scripts and **Docker** Images to the **AWS ECR**

**Environmen**t: Aws, Terraform, GitHub, GitLab, Jfrog, Jenkins, RunDeck, Docker, Ansible, Python, Jira, Service Now, NewRelic, Pager-Duty Bash, Linux, slack.

**Cyient. Inc - East Hartford, CT JUN 2017- MAY 2019**

**Role: AWS DevOps Engineer**

**Roles and Responsibilities:**

* Configured Amazon EC2 instances and launching the new instances with same configuration using AMIs.
* Used Terraform Infrastructure as a code to create custom-sized VPC, subnets, EC2 instances, ELB, security groups.
* Worked on tagging standard for proper identification and ownership of EC2 instances and other AWS services like Cloud Front, Cloud Watch, RDS, S3, ECS, Route53, SNS, SQS, Auto scaling.
* Worked on Auto Scaling for providing high availability of applications and EC2 instances based on the load of applications by using **Cloud Watch in AWS.**
* Implemented Blue Green deployment to eliminate the risk of downtime during the deployment of the application.
* Created **S3** backups using versioning enable and moved objects to Amazon Glacier for archiving purpose.
* Worked in Branching, Merging, Tagging and maintaining the version across the environments using SCM tool **GIT.**
* Configured and maintained Dependencies for automated build and release. Also Developed pom.xml files for **Maven build scripts.**
* Automated the entire build and deployment process using **Jenkins** for Continuous Integration and Continuous deployments.
* Created a pipelines in Jenkins using groovy scripting for writing **Jenkins file.** Also worked with shared libraries in implementing the pipeline as a code.
* Automated installation and configuration of Linux packages on agent nodes using **Ansible**.
* Worked on gathering required configurations of all servers and maintained the playbooks using **Ansible**.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Tested Playbooks on AWS instances using **Python.**
* Created **Docker images** using a **Docker file**, worked on Docker container snapshots, removing images and managing Docker volumes and implemented **ECS in AWS.**
* Worked on **Kubernetes**to manage containerized applications using its nodes, selector services and deployed application containers as Pods.
* Tested procedures to unify streamline and automated application development Procedures with Linux container technology using Kubernetes.
* Provided support for the entire cycle of application testing including building applications, deploying, and trouble shooting.
* Used **JIRA as a tracking tool.**
* Used Splunk for log monitoring and for server monitoring Nagios and CloudWatch.

**Environment:**GITHUB, ANT, Maven, Jenkins, Ansible, Shell Script, Python, SVN, GIT, AWS (EC2, S3, IAM, VPC, Cloud watch, ELB, Auto scaling, Cloud formation template), Linux, Terraform, WebLogic, Splunk, Nagios, Docker and Kubernetes.

**Curvature, Charlotte, NC SEP 2016–MAY 2017**

**Role: AWS/DevOps Engineer**

**Roles and Responsibilities:**

* Plan, deploy, monitor, and maintain Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMware VM's as required in the environment.
* Deployed applications on multiple **Application server** instances maintaining Load Balancing and High-Availability.
* Proficient of the various database platforms running on EC2 and how to use **Cloud Formation** and **AWS CLI**for deploying, managing and automating these database environments.
* Implemented for high availability using **AWS Elastic load balancer**(ELB), to perform load balancing across multiple availability zones.
* Worked on the principles of well architected framework and how they specifically apply to the customers AWS database environments.
* Created Python scripts to totally automate **AWS** services which includes webservers, **ELB**, Cloud Front distribution,**EC2** and database security groups, **S3** bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Extensive usage of GitHub in the **Linux** environment for version control activities.
* Implemented a **Continuous Delivery** pipeline with **Jenkins**, **GitHub**, **Chef** and **AWS.**
* Ability in development and execution of XML, Ruby, Shell Scripts, Power shell.
* Deployment and troubleshooting of **JAR, WAR**files on both stand alone and clustered environment in Apache**tomcat.**
* Involved in merging, delivering and rebasing from dev branch to higher level branches in **Git**. Also, installed configured various Jenkins plug-ins to automate Continuous build deployments.
* Experience in **Jenkins/Maven** package building and have hands on experience in development using Shell and Groovy scripting to automate processes.
* Author and edit pom.xml files, perform releases with the Maven release plugin, and manage artifacts in Nexus repository.
* Automated the cloud deployments using chef and AWS Cloud Formation Templates.
* Using Chef deployed and configured Elasticsearch, Logstash and Kibana (ELK) for log analytics, full text search, application monitoring in integration with AWS Lambda and CloudWatch.
* Assisted other project in deploying their application by writing **Chef Cookbooks and Recipes**.
* Deployed and configured Chef Server including bootstrapping of chef client nodes for provisioning.
* Involved in monitoring error logs, troubleshooting and fixing the problems.
* Experienced in keeping up and looking at log archives using **CloudWatch**, **Splunk.**
* Created Cron-jobs scripts for timely running jobs, performed Thread Analysis and Heap Analysis.
* Used **Docker** for Testing artifacts and written docker file for building tomcat images.
* Managed deployments using two environments like Active-Passive for deploying the application.
* Good hands-on working experience in Application and Web servers like Tomcat, Apache, Nginx.
* Demonstrated ability to design and document complex workflows, automate processes, Scripting experience with PowerShell or other scripting languages.

**Environment:** ANT, Maven, Jenkins, Chef, Shell Scripts, Python, SVN, GitHub, AWS, VMware, Oracle, Vagrant, Tomcat, Apache, Splunk, Nagios and Docker.

**Xenial.inc, Charlotte, NC NOV 2015–JUL 2016**

**Role: Build and Release Engineer**

**Roles and Responsibilities:**

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Implemented & maintained the branching and build/release strategies using Git.
* Used Jenkins for Automating Builds and deployed builds.
* Configured Git with **Jenkins** and schedule jobs using Poll SCM option and integrated the tools to automate code checkout process.
* Experience in writing ANT, Maven scripts and converted ANT projects to **Maven**
* Creating Parent **POM** from the child POM’s using inheritance and aggregation concept.
* Deployed applications on CentOS 6/7 environment and resolved deployment issues on enterprise environment.
* Configured and Maintained Apache, Tomcat, and Django Servers.
* Performed tuning to increase the performance on deployed server.
* Worked on Shell scripts, Bash for regular and periodic jobs and for system administrator jobs.
* Installed and administered Artifactory repository to deploy the artifacts generated by Apache **MAVEN** and to store the dependent jars, which are used during the build.
* Eclipse is used for development as IDE and used JUnit for unit testing and repeatable tests for the application.
* Performed various configurations which include networking and IP Tables, resolving hostnames, SSH keyless login.
* Deploy builds to production and work with the teams to identify and troubleshoot any issues.
* Handled day-to-day operations like managing file systems, performance monitoring, checking system logs and troubleshooting alerts.
* Provided technical support to developers with configuration issues. Defined and implemented issues, tasks, defects and change management processes using **JIRA** Ticketing System
* Source code repository management for multiple development and production support code streams.

**Environnent:** Linux, Jenkins, Tomcat Apache Application Server, GIT, ANT/Maven, Nexus, JIRA.

**Sapplica Info Tech, Hyderabad, India MAY 2013 – AUG 2015**

**Role: Unix/Linux Admin**

**Roles and Responsibilities:**

* Managed and administrated of all UNIX servers, includes **Linux** operating systems by applying relative patches and packages at regular maintenance periods using **Red Hat** Satellite server, YUM, RPM tools.
* Installation, maintenance, managing and regular upgrading of **Red Hat Linux Servers Ubuntu Trust, CentOS, Fedora, Linux** on both standalone and virtual environments.
* Deployed **Red Hat** Satellite server with custom repositories to provide a stable management solution for the **Linux** environment.
* Installation and Configuration of Logical Volume Manager - **LVM** and **Veritas Volume Manager** on and **Red-Hat Linux** Hardware.
* Setup Jumpstart servers for automated installation of **Solaris** and **Kickstart** for **Linux** servers and workstations and set up **NIS**, **NFS** for centralized administration of user account configurations.
* Production support of **Apache, Apache HTTPD, Jboss, Tomcat** and Oracle Web logic 10.3 application servers including installation, configuration, management, and troubleshooting.
* User/group maintenance in both production/development environments. In-house process control initiatives including IT Services Management worked with **LDAP** integration for a single log on.
* Deployed and installed new servers and their appropriate services for various applications in **Linux**.
* Extensive knowledge of Server administration, Kernel upgrade and deployment of patches and applying all firewall and security policies with emphasis on maintaining best practices.
* Strong understanding in writing the automation of processes using the **Shell script** with **Bash** and **Python**.
* Maintain all computer, server, network and wireless hardware.

**Environment:** UNIX, Red Hat, DNS, Yum, Rpm, Ubuntu, Centos, Fedora, Apache, Jboss, Tomcat, Oracle, WebLogic, kernel, Shell, Bash.