**Jayasri Ganta**

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**PROFESSIONAL SUMMARY: -**

* Around 8 years of IT experience **Build and Release/DevOps Engineering** in automating, building, deploying, and releasing code from one environment to another environment.
* Integrated **CI/CD** with GIT version control and implemented continuous build based on check-in for various cross functional applications and created GitHub Web Hooks to setup triggers for commit, push, merge and pull request events.
* Hands on experience on Monitoring tools like Nagios and Zabbix.
* Experience in version control using **GIT** and continuous integration management using Jenkins.
* Exposed to all aspects of **software development lifecycle (SDLC)** such as Analysis, Planning, and Developing, Testing, and Implementing Post-production analysis of the projects.
* Extensively worked on **Jenkins** by installing, configuring, and maintaining the purpose of Continuous Integration (CI) and End-to-End automation for all build and deployments implementing **CI/CD** for databases using Jenkins.
* Automated build and deployment process with Jenkins and Maven, eliminating 80% of manual work.
* Experience in Building and configuring a virtual data center in the **Amazon Web Services** (AWS) cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private **Subnets, Security Groups, Route Tables, Transit Gateways.**
* Implemented security best practices and compliance frameworks on AWS, including **IAM policies**, encryption, and auditing, to ensure the confidentiality, integrity, and availability of data and applications.
* Experienced in working with IT infrastructure monitoring tools like NagiOS, CloudWatch, Zabbix, Datadog, AppDynamics and Splunk.
* Developed and maintained automated deployment pipelines using AWS services such as Code Pipeline and Code Build, enabling continuous integration and deployment of applications.
* Implemented monitoring and alerting solutions using **AWS CloudWatch**, AWS CloudTrail, or third-party tools to proactively identify and respond to infrastructure and application issues.
* Converted existing **AWS infrastructure to server-less architecture** (AWS Lambda, S3, API Gateway, IAM, AWS Cognito, AWS batch) and deployed it via **Terraform.**
* Experience with Container orchestration systems such as **AWS EKS, AWS ECS**
* Experienced in writing **terraform** templates that can spin up infrastructure for multi-tier application and provisioned boot strapped software on **cloud** with **terraform.**
* Strong knowledge on **Ansible** Roles, inventory, Ansible Tower and used **Ansible Tower** to deploy playbooks to the machines and systems in the inventory.
* Experience on **Hashicorp Vault** for secret management store and used **Ansible Vault** for secrets storage and inject while executing the playbooks.
* Experience in using the open-source monitoring tools like Zabbix, Nagios and Good knowledge in Splunk.
* Worked on **OpenShift platform** in managing Docker containers and **Kubernetes Clusters** and Created Kubernetes clusters using **Ansible playbooks** (launch-instant deploy-docker. yml, deploy-kubernetes.yml) on Exoscale.
* Expertise with designing and deploying container-based production clusters **using Docker.** Built Docker images using a **Docker file,** worked on container **snapshot**s, removing Images, managing Docker volumes.
* Extensive experience in implementing a production-ready, load-balanced, highly available, fault-tolerant, auto-scaling **Kubernetes Infrastructure, and Microservice Container Orchestration.**
* Experience working on several Docker components like Docker Engine, Hub, Machine, creating Docker images, Compose, Docker Registry and handling multiple images primarily for middleware installations and domain configurations.
* Proficient in automating build and deployment process in various enterprise environments by writing automation scripts using **Python, Ruby, Shell, PowerShell, Bash.**
* Expertise in working in an **Agile-based** environment to engineer, design and deliver cloud-based platforms.

**TECHNICAL SKILS: -**

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| ***Cloud Technologies*** | *AWS (Amazon Web Services), GCP* |
| ***Configuration Management Tools*** | *Ansible, chef* |
| ***Build tools*** | *Maven, Gradle, Ant* |
| ***CI/CD Tools*** | *Jenkins, AWS DevOps, Code build, Code Deploy.* |
| ***Containerization/Orchestration Tools*** | *Docker, Kubernetes, EKS, ECS, AKS.* |
| ***Servers*** | *Apache Tomcat, Apache HTTP server, WebSphere.* |
| ***Version Control*** | *Git, GitLab, Bitbucket.* |
| ***Database*** | *My SQL, MS SQL Server, Oracle, DynamoDB, RDS.* |
| ***Monitoring tools*** | *CloudWatch, Nagios, Datadog, Zabbix, Splunk* |
| **Languages** | Java, Python, Shell, C, R, bash, PowerShell, HTML, CSS. |
| ***Operating System*** | Linux, Windows. |

**PROFESSIONAL EXPERIENCE: -**

**Client: Humana, Chicago APRIL 2022 – present**

**Role: SR. CLOUD/Devops Engineer**

My primary responsibilities involve planning, creating, and aiding with the transfer of a client's on-premises infrastructure to the AWS Cloud. Design and implement a cloud migration process and management strategy for migrating applications to the cloud, from development to production, using the DevOps stack.

**Responsibilities:**

* Hands on experience in source code management on **Git** and **Bitbucket/GitHub** Administration like managing repository, securing repository, and good experience with branching strategies.
* Creating jobs using Jenkins. Manage installations of node, deployment configuration, administration, backup, Installed required Jenkins plug-ins as per the project requirement.
* Creating, Configuring, and Managing **CI/CD** Pipeline by Integrating **GIT, Maven, and Artifactory with Jenkins.**
* Involved in installing Jenkins and created a Master and Slave configuration to implement multiple parallel builds through a build. Installed the Plugin offline in **Jenkins** based on the requirements to simplify the Jenkins flow.
* Hands-on experience in **AWS** provisioning & good knowledge of AWS services like EC2, S3, ELB, RDS, Redshift, IAM, Route 53, VPC, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation & Security Groups.
* Install Configure and Manage Monitoring Tools such as Zabbix, Nagios, Cloudwatch for Resource
* Monitoring.
* Worked on the feasibility of **OpenShift** in the existing application architecture style, with Podman and CRI- as the container runtime.
* Deployed **Kubernetes clusters** on top of Servers using **KOPS**. Managed local deployments in Kubernetes, creating local clusters and deploying application containers. Building/maintaining Docker container clusters managed by **Kubernetes and deployed Kubernetes** using helm charts.
* Created EC2 instance on AWS, managed security groups, administered **Amazon VPCs**.
* Experience in using **OpenShift** for container orchestration with **Kubernetes**, container storage, automation, to enhance container platform multi-tenancy.
* Experience with **PCF, OpenShift, Kubernetes** architecture and design, troubleshooting issues and multi-regional deployment models and patterns for large scale applications.
* Implemented **Terraform scripts** to provision infrastructure within the AWS cloud.
* Configured **security groups** at an instance level and Network ACLs at subnet level in **VPC**.
* Created pipelines in AWS by using **AWS service Code pipeline** for automation from development to deployment process and used **ELB**, security groups, Network Access control lists (**NACL**), **NAT** Instance and **Route 53**.
* Build and managed policies for **S3** buckets and used S3 buckets for storage and backup on AWS and encrypted S3 buckets for all CloudTrail logs encrypted and policies to access the logs.
* Defined AWS Security services as virtual firewalls to control the traffic on **EC2 instances** for a multitude of applications utilizing the Amazon Web Services focusing on high-availability, Fault Tolerance, and auto-scaling.
* Created alarms, monitored, and collected log files on AWS resources using CloudWatch on EC2 instance which generates an email and text notification using Simple Notification Service.
* Worked on Knative single manifest service which helps us to focus on our business logic instead of writing tons of YAML files for **Kubernetes.**
* Managed **Kubernetes charts** using Helm. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Designed **Terraform** templates to create custom-sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates and migration from traditional to cloud environment.
* Involved in using Terraform to migrate legacy and monolithic systems to Amazon Web Services.
* Worked on **Ansible** and **Ansible Tower** to automate repetitive tasks, to deploy critical applications quickly, and proactively manage the changes.
* Used Zabbix as a monitoring tool and used the Zabbix plugin for Grafana for analysis &amp;
* visualization.
* Built and deployed various **Ansible** playbooks and modules in the Production and Pre –Production environment.
* Worked on **Terraform scripts** to **Jenkins-windows machines**.
* Integrated Kubernetes with **Hashicorp Vault** to inject configurations at runtime for each service using init, config sidecars and persistent volume sharing between app and config containers.
* Implemented **HashiCorp** Packer scripts to build gold images.
* Worked with **HashiCorp Vault** to manage sensitive data.
* Worked with Spinnaker for **Continuous Deployment** with **Kubernetes**. And used **OpenShift** for container orchestration with Kubernetes, Container Storage, automation, to enhance container platform multi-tenancy.
* Experienced in all activities of **Software Development Life Cycle (SDLC)**.
* Exposure in **Agile** and **Waterfall** methodology.

***Environment:*** *AWS (EC2, ELB, S3, EBS, VPC, Route53, API Gateway), Ansible, Maven, Jenkins, GIT, Bitbucket, Python, Linux, Splunk, Datadog, Docker.*

**Client: Morgan Stanley, New York nov 2019– MAR 2022**

**Role: Cloud/Devops Engineer**

**Responsibilities:**

* Created, tested, and deployed an End-to-End **CI/CD pipeline** for several apps utilizing Jenkins as the main Integration server for Dev, QA, Staging, UAT, and Prod environments using Agile methodology.
* Configure alerts for performance indicators of Production servers and applications hosted on OpenShift Container Platform.
* Worked on cloud providers AWS, GCP, from assisting developers in building and containerizing their application (CI/CD) to deployment using Docker and Kubernetes.
* Created an automated build and deployment process for the application, re-engineering the setup for a better user experience, and leading up to the creation of a continuous integration system for all services.
* Gitlab Migration: Worked on migration from Jenkins and Bitbucket to **GitLab CI/CD**, which included migrating existing applications, constructing new servers, deploying applications, setting up automation in new environment, and creating CI/CD pipeline for Dev and test environment.
* Troubleshooted OpenShift containers for related issues like crash loop back off, pod restarts, out of memory issues and lack of CPU.
* AWS services such as EC2, S3, AMI, IAM, EBS, ELB, VPC, Route S3, CloudWatch, Cloud Front, and Cloud Formation templates were provisioned and managed.

***Environment****: AWS, Jenkins, Linux, Git, Windows, Bash, Python, Network Protocols, Virtualization, Oracle HTTP Server.*

**CLIENT: Altisource, Bangalore, India. SEP 2018 – august 2019**

**Role: Cloud/Devops engineer**

As a Cloud and DevOps Engineer, I was responsible for technical strategic leadership and strategy development for the integration of requirements, design, and technology.

**Responsibilities:**

* Designed capacity and architecture plan to create the **AWS** **Cloud** environment to host migrated **IaaS VMs** and **PaaS role** instances for refactored applications and databases. Deployed infrastructure as a code (**IAC**) application using **Terraform.**
* Wrote **PowerShell** scripts for reporting and automation addressing either a single customer's environment or multiple customer environments.
* Integrated **CI/CD with GIT version control** and implemented continuous build based on check-in for various cross functional applications and created **GitHub** Web Hooks to setup triggers for commit, push, merge and pull request events.
* Build **AWS web applications** and Cloud services in multiple-stage deployment for release process by configuring **AWS DevOps**, thus reducing downtime, and finding the performance problems.
* Worked on creation of custom **Docker images**, tagging, and pushing the Images and creating the Docker containers and Docker consoles for managing the application life cycle.
* Worked on **Ansible Playbooks** with Ansible roles. Created inventory in Ansible for automating the continuous deployment. Configure the servers, deploy software, and orchestrate continuous deployments or zero downtime rolling updates.
* Created a **runbook** for AWS Automation, tested and published it. Managed logging and ran a schedule for starting the runbook executions (jobs).
* Worked with application/database team to resolve issues for performance Tuning and Management of Linux servers.

***Environment:*** *AWS, AWS Storage, PowerShell, Kubernetes, Docker, Terraform, Jenkins, GIT, Ansible, Maven, Splunk, Apache Tomcat, Python, Power Windows/Linux.*

**CLIENT: Straviso, pune, India. JAN 2017 – AUG 2018**

**Role: Aws/Devops engineer**

Responsible for complete AWS project deployments. This covers automation scripting, scalability, building promotions for staging to production.

**Responsibilities:**

* Provisioned infrastructure using **cloud** **formation** **templates** for custom sized **VPC**, **subnets**, **EC2** instances, **ELB**, security groups. Worked on tagging standard for proper identification and ownership of **EC2** instances.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **AWS cloud watch**.
* Expertly oversaw **IAM** to assign roles, to create and manage **AWS users, groups, and permissions** to use AWS resources. And Setup specific **IAM profiles** per group utilizing newly released **APIs** for controlling resources within **AWS** based on group or user.
* Used **Jenkins** to automate the code deployment & automation of continuous integration (CI) and Deployment infrastructure.
* Maintained **artifacts** storage under snapshots, application releases in **Jfrog repository** management and performed lot of **POC's** (proof of concept) for different features of the application to achieve best results.
* Developed build scripts using **Maven** as the build tools for the creation of build **artifact**s like jar, war files.
* Implemented performance capacity and availability monitoring using tools like **Nagios, Datadog, PagerDuty.**
* Maintained and monitored all system frameworks and provide after call support to all systems and maintain optimal **Linux knowledge.**
* Installed, configured, and maintained web servers like **Apache Web Server** and **WebSphere Application Server on Red Hat** Linux.

***Environment:*** *AWS, Jfrog, Jenkins, CI/CD, Python, ANT, GIT, bitbucket, RedHat Enterprise Linux, CentOS, Ubuntu, VMware, TCP/IP, NFS, DNS, SNMP, DHCP.*

**Client: Ellucian, Bangalore India. sep 2014 – DEC 2016**

**Role: Build and release Engineer**

Experienced Build and Release Engineer proficient in automating build, release, and deployment processes. Expertise in configuration management, overseeing releases, and collaborating with cross-functional teams. Ensured efficient software delivery and maintained a smooth development pipeline.

**Responsibilities:**

* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Created, tested, and deployed an End-to-End CI/CD pipeline for various applications using Jenkins as the main Integration server for Dev, QA, Staging, UAT and Prod Environments with Agile methodology.
* Involved in installing Jenkins and created a Master and Slave configuration to implement multiple parallel builds through a build. Installed the Plugin offline in Jenkins based on the requirements to simplify the Jenkins flow.
* Regular Build jobs are initiated using the Continuous Integration tool with Jenkins.
* Implemented a CD pipeline involving **GIT - Jenkins - Ansible** to complete the Automation from commit to Deployment.
* Installed packages on remote server nodes through Ansible playbooks with Ansible roles.
* Used file modules in Ansible playbooks to copy / remove / modify the files on agent fewer remote servers from **Ansible control server.**

***Environment:*** Python, Aws EKS, Git, GitHub, Bitbucket, Jira, Confluence, Artifactory, Jenkins, Ansible, Docker, Kubernetes, Windows, Linux, Shell, MySQL