SASIDHAR KONDAPANENI AWS DevOps ENGINEER

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***PROFESSIONAL SUMMARY:***

### Overall, 4 years of IT Experience with strong skills in Linux Admin, AWS and Azure Cloud and DevOps tools like GIT, Ansible, Docker, Jenkins, Terraform and Kubernetes Prometheus Grafana and Datadog.

* Havingtotal **3.4 Years** of as a**DevOps Engineer**.

* Having experiencein DevOps tools like **GIT, Bit bucket, Jenkins, Apache Airflow, Maven, Ansible**, **Docker, Kubernetes, Terraform,** and **AWS Cloud**.

* Experience in building and deploying **Java** applications, **Python** applications and troubleshooting the build and deploy failures.

* Ability to manage all aspects of the **software configuration management** process including code compilation, packaging / deployment / release methodology, and application configurations.

* Experience in using J-**Frog Repository Manager** for **Maven** builds.

* Experience on Continuous Integration **(CI)** / Continuous Deployment tools

**(CD)** like**Jenkins** and **GitLab.**

* Experience in **Code Coverage** and **Code Quality Analysis** tools like **SonarQube**.

* Experiencein creatingimmutableinfrastructure in different environments using **Terraform.**

* Automating the build and release pipeline setup using **groovyscripting** for Jenkins.

* Infrastructure setup using **Terraform** AWS Modules **(EC2, ECS, API Gateway, EBS Volumes, Launch Configuration, Auto-scaling Groups, Route53, Security Groups**).

* Have good working experience on the **Docker images, Docker container**, and creating the Docker- compose file for different versions.

* Hands-on experience with **Configuration Management Tools** such as **Ansible** and processes including code compilation, packaging/deployment/release methodology, and application configurations.

* Automated deployment to all the Environments (Dev, QA Test, Demo, Performance Test and Staging/UAT) with **Ansible, Docker, and Kubernetes.**

 Experience in working with Amazon Web Services (**AWS**), Creating **EC2** Instances, and configuring all web Services like **EC2, S3 bucket**, **IAM, Load balancing, Auto-scaling, cloud watch, Dynamo DB, RDS Amazon Aurora, Amazon Athena, EMR cluster, Amazon Red shift, Lambda, Route53, EKS, ECR, ECS, VPC, NACL, SNS, CloudWatch.**

***EDUCATIONAL QUALIFICATIONS:***

## BSC(MSCS) from Yogi Vemana University – Kadapa, from 2022-2023.

***ORGANISATION DETAILS:***

## Worked as DevOps Engineer for **Genpact** from August 2020 – January 2024.

* + Worked as DevOps Engineer for **VERINT CES India Pvt Ltd** (ITC) from March 2024 – Present.

# Project 1:

**ROLE:** DevOps Engineer(R&D)

**Tools:** GIT,Jira,AWS, TeamCity, Octopus Deploy Terraform, Shell Scripting, AWS and Windows server.

### Responsibilities:

* + - Plan and manage projects using various boards of Scrum, Kanban. Attach relevant documents, screenshots, and other files to issues.
    - Define the sprint goal and determine the work to be completed during the sprint. Break down user stories into tasks and assign them to team members.
    - Reflect on the sprint and discuss what went well, what didn’t, and how processes can be improved. Review and prioritize the product backlog.
    - Facilitate quick, daily updates on what team members did yesterday, what they plan to do today, and any blockers they face.
    - Implemented rpm build pipeline in DevOps pipeline and Jenkins, which will take care of creating custom rpms whenever any new release of a product is created.
    - Design, implement, and maintain robust CI/CD pipelines using TeamCity to automate build, test, and deployment processes.
    - Implement and enforce best practices for branching, merging, and pull requests to maintain code quality and integrity.
    - Deploy, configure, and manage applications and infrastructure on AWS to support product development and delivery.
    - Implement comprehensive monitoring solutions using Datadog to track application performance, health, and reliability.
    - Automate and streamline release processes with Octopus Deploy, ensuring smooth deployments across various environments.
    - Collaborate closely with development, QA, and operations teams to ensure seamless integration and delivery of product features.
    - Develop and maintain automation scripts to enhance the efficiency of DevOps processes and reduce manual interventions.
    - Document infrastructure configurations, CI/CD pipelines, and operational procedures to ensure knowledge sharing and continuity.

***ORGANISATION DETAILS:***

* + - * Worked as DevOps Engineer for **Genpact** from August 2020 – January 2024.

# TECHNICAL SKILLS:

* Version Control : **GIT, Bitbucket, Azure Repo**
* Build Tools : **Apache Ant, Maven and Gradle.**
* Ticketing Tool : **JIRA.**
* Infrastructure Tool : **Terraform and CloudFormation.**
* CI/CDTools : **Jenkins GitLab TeamCity and Octopus**
* Code Quality : **SonarQube.**
* Monitoring Tools : **CloudWatch, Grafana, Prometheus and Nagios.**
* Artifactory Repos : **J-Frog, Nexus and S3.**
* Cloud Technologies : **AWS [EC2, RDS, S3, Route53, VPC, IAM, EKS, ELBECS]**

**: AZURE [VMs, Virtual Network, AKS, Resource Groups]**

* Containerization Tool : **Docker.**
* Container Orchestration Tool : **Kubernetes.**
* Configuration Management : **Ansible.**
* AWS Database : **MySQLandMongoDB, Cassandra, DMS.**
* Web Server : **Apache, Tomcat and Nginx.**
* Server Operating System : **LINUX, Windows, RedHat, Unix and Ubuntu.**
* Programming Language : **Python ShellScripting and Bash.**

# Project 1:

**ROLE:** DevOps Engineer

**Tools:** GIT,Jira, Maven, Jenkins, Docker,Terraform, Kubernetes, Shell Scripting, Tomcat, Linux, Ansible, AWS.

### Responsibilities:

* + - Working in Agile teams as a DevOps Engineer for a team that involves Different Development Teams and Multiple simultaneous software releases.
    - Responsible for the architecture, designing, implementing and supporting of cloud- based infrastructure and its solutions.
    - Proficient in AWS services like **VPC, EC2, S3, ELB, Autoscaling Groups (ASG), EBS, RDS, IAM, CloudFormation, Route53, CloudWatch, CloudFront, CloudTrail**.
    - Experienced in creating multiple VPC’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
    - Created **NAT gateways** and instances to allow communication from the private instances to the internet through bastion hosts.
    - Setting up the GIT repos for Jenkins build jobs.
    - Used security groups, **network ACL’s**, internet gateways and route tables to ensure a secure zone for the organization in AWS public cloud.
    - Created and configured elastic load balancers and autoscaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
    - Created handful of **Ansible** playbooks for new builds.
    - Manage deployment automation using **Ansible** and Implementing continuous delivery and integrated with **Jenkins**.
    - IP360vulnerability automation using Ansible.
    - Building customized **Amazon Machine Images**, taking snapshot on monthly basis for backup purpose.
    - Automated AWS resources using **Terraform**.
    - Involved in deploying **WARs/EARs** (backend) through **Apache Tomcat** Application Server console.
    - Kernel upgrades and OS uplift automations using shell scripting and Ansible.
    - Worked on Integrating the **GIT**with Jenkins **CI/CD** pipeline for deploying **Docker Application**

In to the **Kubernetes Cluster**.

* + - Creating **S3** buckets and managed policies for S3 buckets and utilized S3Buckets for storage, backup and archived in **AWS**.
    - Maintaining application container pods with high availability using Kubernetes objects like Controllers, Services, **Liveness Probe**, **Readiness Probe**, **Horizontal Pod Auto Scaler** and Ingress. Creating S3 buckets and managed policies for S3 buckets and utilized S3 Buckets for storage, backup and archived in AWS.
    - Sound knowledge / good practical experience with Linux (Ubuntu, CentOS) administration/

**troubleshooting/ debugging,** Backup/Restore, Scripting, Nginx, System tools.

* + - Creation of **VPC, Route tables**, Gateway and attaching totheinstances accordingly.
    - Worked on Integrating the **GIT**with **Jenkins CI/CD** pipeline for deploying Docker Application into the

**Kubernetes** Cluster

* + - Managing/Tracking the defects status Using **JIRA.**

# Project 2:

**ROLE:** DevOps Cloud Engineer

**Tools:** GIT, Maven, Jenkins, Python, ShellScripting, Tomcat,Linux, Ansible, Docker, Terraform, Kubernetes

### Responsibilities:

* + - **Dockized** all the services and applications
    - Analyze the issue and finding the root cause of the issue.
    - Installed and configured EC2 for running services.
    - Installed and configured **Jenkins** with different tools (plug-ins) for continuous integration process.
    - Providing Production support and enhancements design to theexisting system.
    - Monitoringthe CPU utilization and memory status and process details in Production server using **CloudWatch**.
    - Createdcontainers for **MYSQL** on **Docker.**
    - Created Self-Healing **Kubernetes containers** system for a wide range of **pods.**
    - Configured and maintained Jenkins to implement the **CI** process and integrated the tool with **Maven** to schedule the builds and performed continuous Build and Deployments to multiple environments like **Dev, QA** and **UAT.**
    - Multi approval staging deployments for multiple environments using **pipelines.**
    - Custom **Helm chart** for theKubernetes packages for customdeployments.
    - Instance Tag Management Jenkins job to provide the notification to the supported owner of the instance. Using **API** call management.
    - Hands on experience in S3 buckets and managed policies for S3 buckets and utilized S3 Buckets and Glacier for storage, backup and archived in AWS and in setting up and maintenance. Configured S3 Replication of a bucket to another bucket in a different region.
    - Worked on **Kubernetes dashboard**. Monitoring the pods and cluster in the dashboard and pulling the report accordingly along with other operational tasks.
    - Developing the utility scripts toeffectively reduce the time and manual effort.
    - Implemented rpm build pipeline in DevOps pipeline and Jenkins, which will take care of creating custom rpms whenever any new release of a product is created.
    - Creating and managing Azure Virtual Machines, Virtual Networks, Load Balancers and other Azure resources using Terraform.
    - Experience in AWS provisioning by creating EC2Instances and configuring all necessary services like Security, EBS, and S3.
    - Deploying the master, worker nodes, and management components within the cluster, application load balancer, at cluster creation time in Kubernetes.
    - Installed and configured Jenkinswith differenttools (plug-ins) for continues integration process.

# DECLARATION:

I herebydeclare that theabove-mentioned details are true to the best of my knowledge.

Date:

Place: Bengaluru. SASIDHAR KONDAPANENI