Malkari Akash Datta Maharaj

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Professional Summary:

- Nearly 4 years of IT experience in Production Support Engineer with Change/Release/BuildManagement, With DevOps methodologies and cloud infrastructure.
- Strong knowledge of **version control systems** including **Git** and **GitHub** for effective collaboration and version control.
- Experience in using Build automation tools like **Maven.**
- Familiarity with the administration of web servers such as **HTTPD** and application server **Tomcat**.
- Well-versed in **CI/CD** integration with **Jenkins**, creating pipelines integrating with tools like **GitHub**, **Maven**, **Ansible**, and **Docker**.
- Skilled in scripting languages such as **Shell**, and **YAML**.
- Experience in development and configuration with software provisioning tools like **Ansible**.
- In-depth understanding and experience in automating the implementation and deployment of cloud-based infrastructures, including web apps, application service environments, firewalls, load balancers, storage, monitoring security, **VPC**, and **DNS**.
- Proficient in application deployments and environment configuration using **Ansible**.
- Strong understanding of containerization concepts and hands-on experience with **Docker**, including containerizing applications, managing **Docker images** and orchestrating containers in a production environment.
- Managed large infrastructures using **Ansible** on **AWS** servers.
- Knowledgeable in **SaaS**, **IaaS**, and **PaaS**.
- Hands-on experience with various **AWS services**, including **EC2**, **S3**, **Security Groups**, **Elastic Load Balancing with Auto Scaling**, **VPC**, **IAM**, and **CloudWatch**.
- Skilled in monitoring server and application performance using tools like **AWS CloudWatch**.
- Experience working with ticketing tools like **JIRA**.
- Highly experienced in setting up build servers for build and deploy automation.
- Proficient in infrastructure provisioning and management using tools like **Terraform**, creating scalable and automated cloud infrastructures.
- Skilled in designing and implementing **CI/CD pipelines**, integrating various tools and technologies to enable continuous integration, delivery, and deployment of software applications.

Technical Skills: -

- **Cloud Technologies:** AWS (VPC, S3, EC2, Lambda, IAM, ELB, ASG, EBS, RDS, SQS, SNS, Route53, Cloud Formation, Cloud Watch, Cloud Trail, Dynamo DB).
- **Operating System:** Linux (RHEL, CentOS, Ubuntu)
- **CI Tools :** Jenkins
- **Configuration Management** : Ansible, Terraform
- **Build Tools :** Maven
- **Version Control Systems :** GIT, GIT HUB
- **Containerization tool:** Docker
- **Scripting languages :** Shell, YAML
- **Ticketing Tool:** Jira

Experience Summary: -

Organization	: Wipro Technologies
Designation	: Senior Developer
Period	: November 2022 to November 2023

Project 1 :-

Project: Cloud Infrastructure Automation and DevOps Implementation | Verizon

Description:

I Worked in a project focused on implementing cloud infrastructure automation and DevOps practices. In this project, my role involved leveraging various tools and services to streamline deployment, improve scalability, enhance security, and optimize resource management on Amazon Web Services (AWS).

Project Experience: -

Infrastructure Provisioning and Management:

- Utilized AWS services such as **EC2, S3, CloudWatch, RDS, IAM, Route 53, Elastic Load Balancer, Auto Scaling Groups, VPC, SNS, SQS, CloudTrail, CloudFront, AWS CLI, NAT Gateway, NACL** for provisioning and managing cloud resources.

- Collaborated with the team to design and implement highly available and scalable infrastructure architectures, optimizing resource allocation and ensuring high performance.

Infrastructure as Code (IaC):

- Contributed to the implementation of **Terraform** as the Infrastructure as Code tool, enabling declarative provisioning and management of infrastructure resources.

- Developed Terraform scripts/modules to define and deploy infrastructure configurations, ensuring consistency and reproducibility across environments.

Operating Systems and Scripting:

- Assisted in the configuration and maintenance of both **Windows** and **Linux (RHEL, CentOS, Ubuntu)** operating systems, addressing specific application and infrastructure requirements.

- Developed **Shell** and **YAML** scripts to automate routine tasks, such as server configuration, application deployment, and system maintenance, improving efficiency and reducing manual errors.

Version Control and Collaboration:

- Utilized **Git** and **GitHub** for version control, contributing to collaborative development efforts and ensuring a centralized repository for source code management.

- Supported branching and merging strategies to ensure code integrity and enable parallel development efforts.

Configuration Management:

- Contributed to the implementation of **Ansible** for configuration management, helping define and maintain infrastructure and application configurations in a centralized manner.

- Assisted in the creation and execution of Ansible playbooks to ensure consistent and reproducible deployments across different environments, reducing configuration drift and improving system stability.

Continuous Integration and Continuous Deployment (CI/CD):

- Collaborated with the team to implement **Jenkins** as the CI/CD tool to automate build, test, and deployment processes, enabling faster and more reliable software releases.
- Participated in the management and improvement of Jenkins pipelines to streamline the software delivery pipeline, integrating with version control, build tools, and other services.

Build and Dependency Management:

- Contributed to the use of **Maven** as the build tool to manage project dependencies, compile source code, and package applications for deployment.
- Collaborated in configuring Maven to streamline the build process, optimize build time, and ensure consistency in the build artifacts.

Containerization and Orchestration:

- Assisted in the implementation of **Docker** for containerization, contributing to the creation of lightweight and portable containers for application deployment.
- Supported the orchestration of containerized applications using Docker Compose or container orchestration platforms like **Kubernetes**, ensuring scalability and flexibility.

Ticketing and Incident Management:

- Worked with the team to integrate **JIRA** as the ticketing tool to facilitate incident management and issue tracking, ensuring timely resolution of technical problems and effective communication within the team.

Experience Summary: -

Organization	: Learning Labs
Designation	: DevOps Engineer
Period	: November 2021 to September 2022

Project 2 :-

Project: Cloud Infrastructure Automation and DevOps Implementation | Verizon

Project Experience: -

- Configured Git with Jenkins and schedule jobs using PULL SCM option.
- Installed and configured GIT and communicating with the repositories in GITHUB.
- Collaborate with different teams to deploy application code into Dev, QA, and Staging.
- Installing and updating the Jenkins plug-ins to achieve CI/CD.
- Responsible for installing Jenkins master and slave nodes.
- Created Jenkins CICD pipelines for continuous build & deployment and integrated Junit and SonarQube plugins in Jenkins for automated testing and for Code quality check.
- Integrated SonarQube with Jenkins for continuous inspection of code quality and analysis with SonarQube scanner for Maven.
- Wrote playbook manifests for deploying, configuring, and managing components.
- Working with developers and Testers to test the source code and applications through Jenkins plug-ins.
- Installation of Apache, tomcat and troubleshooting web server issues.
- Administration and maintenance of servers using Red Hat Linux/Cento's 6 and 7.

- Installing and configuration of ansible server.
- Implemented AWS solutions using EC2, S3, EBS, ELB, Route53, Auto scaling groups.
- Built servers using AWS, importing volumes, launching EC2, creating Security groups, Auto-scaling, Load balancers (ELBs) using Cloud formation templates & AMI's using Infrastructure as a Service (IaaS).
- Designed, built, and deployed a multitude application utilizing almost all the AWS stack (Including EC2, S3), focusing on high-availability, fault tolerance, and auto-scaling.
- Configured ELB with different launch configurations using AMI and EC2 Autoscaling groups.

Experience Summary: -

Organization	: [24]7.ai
Designation	: IT Support
Period	: September 2018 to January 2021

Project 3 :-

Project: Telecom- Application Support | Nielsen

Project Experience: -

- Monitored Applications continuously to identify any deviations from normal operations by using tools like Kibana for logs monitoring, Grafana for Visualization, Jira ticketing tool for reporting the issues.
- Analyzing production data to access performance metrics like throughput, efficiency, no of customers facing the issue and quality.
- Identifying the root cause of these production issues and working closely with maintenance and business teams to resolve them quickly.
- Analyzed and triaged the defects to the right Dev teams by providing the required logs and data.
- Analysed XML logs and connected with Dev and Business team to resolve the defects within SLA timings.
- Experience in writing queries using Structured Query Language.
- Being prepared to respond to emergencies or critical situations, such as Equipment failure, power outages, or other unexpected events.
- Compiling reports on production performance, incidents, and resolutions which helps in maintaining records for future reference and analysis.
- Ensuring that production activities adhere to regulatory standards and reporting if there is any non-compliance.
- Conducting smooth handovers between shifts to ensure continuity in monitoring and response efforts.

Education details:

- Completed B.Tech Graduation from Tirumala Engineering College in 2018

Declaration:

I hereby declare that the written particulars are true to the best of my knowledge and belief.