Chaitra S

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PROFILE

As a Lead DevOps engineer, I bring extensive expertise in implementing CI/CD pipelines, configuring Enterprise accounts, managing Source Code Management (SCM), and utilizing Infrastructure as Code (IaC) and Static Application Security Testing (SAST) tools.

SKILLS

Operating Systems
Windows, Linux

CI Tools
GitHub Actions, GitLab CI, Clooudbee CI, Jenkins, AWS CodePipeline, Azure devops, CircleCI

IAC
Terraform

Orchestration
Kubernetes

Project management tools
JIRA, Zoho, GitHub Projects, GitLab projects

Language/Scripting
Python, YAML, JSON, Shell, Powershell, HTML, CSS

Collaboration tools
Slack, Microsoft teams, Discord

Source code management
GitHub, GitLab, Bitbucket, Azure Repos, GIT, SVN

CD tools
Ansible tower, Cloudbee CD

Configuration Management
Ansible engine

AWS
IAM, S3, EC2, SNS, VPC, AWS Code Deploy, Cloud Watch, CLI, Elastic Container Registry

GCP
Google kuberbnetes engine, Virtual Engine, GCP secrets manager, Cloud Run, Cloud scheduler, IAM roles and permissions

Containerization
Docker

PROFESSIONAL EXPERIENCE

Lead DevOps Engineer, Sonata Software 09/2021 – present

- Spearheaded DevOps initiatives in the IT industry, specializing in Configuration Management, Continuous Integration, Continuous Deployment, Change/Release/Build Management, and Python Automation.
- Maintained ownership and administration of multiple GitHub organizations.
- Configured and managed over 20 GitHub self-hosted runners, equipped with essential software, and maintained them according to application team requirements.
- Installed and managed SonarQube servers for robust static code analysis, as well as GitHub Enterprise (GHE) on-prem and GHE Cloud accounts.
- Implemented end-to-end CICD pipelines for diverse technology stacks, including Java Maven, Salesforce, Mulesoft, Node JS, Angular JS, React, Go and Python.
- Orchestrated CI pipelines for building Docker container images and CD pipelines for seamless deployment to AKS, EKS, and On-prem Kubernetes clusters.
- Engineered Python scripts for automating infrastructure tasks, including Server AutoFile deletion and Linux Patching analysis reporting.
- Automated operational tasks through Python scripts, streamlining GitHub resource management, data extraction, GitHub Runner monitoring, Zoho task list extraction, JIRA issue tracking, and Sonarqube LOC reporting
- Proficient in infrastructure provisioning using Terraform scripting for efficient and scalable solutions.
- Utilized Tomcat application server for streamlined and reliable deployments.
- Demonstrated versatility in creating automation scripts for various administrative tasks, including GitHub teams creation, teams mapping, and member access management.
- Designed and implemented a Jenkins-based CI/CD pipeline, automating the build and deployment of Java Maven applications and securely storing artifacts in AWS S3.

- Provisioned cloud environments using Terraform, creating four EC2 instances across four subnets and setting up an Ansible controller for automated deployments.
- Integrated Jenkins with Terraform and Ansible, enabling event-driven deployments triggered by GitHub webhooks.

PROJECTS

1. GitHub Action Workflow setup for Python Django microservices, Client: HDFC life

Role: DevOps Developer

Reponsibilities:

- Established a comprehensive branching strategy, GitHub team naming conventions, and repository naming standards to streamline collaboration and repository management.
- Set up 7 microservice repositories and 3 additional repositories for Python Django common modules, services, and reusable CI/CD workflows.
- Provisioned and configured three sets of GitHub self-hosted runners across Dev, UAT, and Prod environments on dedicated virtual machines.
- Automated the installation and configuration of required tools and software on all runner VMs using Bash scripts, ensuring consistency and efficiency.
- Developed and deployed robust CI/CD workflows for all 7 microservices, facilitating automated builds, testing, and deployments to Google Kubernetes Engine (GKE) in Google Cloud Platform (GCP).
- Automated the creation of GitHub and Google Cloud secrets using Python scripts.

Project Impact:

- Developed Python automation scripts for creating GitHub and GCP secrets, eliminating time-intensive manual processes and minimizing human error.
- Successfully deployed all microservices across Dev, UAT, and Prod environments in GKE clusters, ensuring seamless application delivery and scalability.

2. Python scripts Automation, Client: HDFC Ltd

Role: Python scripting

Responsibilities:

- Developed Python automation scripts to efficiently create bulk GitHub resources.
- Implemented input data retrieval from Excel sheets to streamline the resource creation process.
- Designed and executed scripts to pull metrics such as commits, pull requests (PRs), and other relevant data on a weekly basis.
- Organized and presented metric data points in Excel sheets for streamlined analysis.

Project Impact:

- Successfully created over 50 repositories and 100 teams within a span of 5 minutes using the Python automation workflow, significantly reducing manual effort and time.
- Enabled seamless tracking and reporting of new repositories, commits, PRs, and other metrics on a weekly basis.

3. Mulesoft DevOps Implementation, Clinet: HDFC Ltd

Role: DevOps Developer

Responsibilities:

- Implemented CICD using GitHub Actions as the primary CICD tool for the Mulesoft projects.
- Developed a reusable CICD workflow utilized by more than 180 Mulesoft applications, configurable at the repository level.
- Configured and managed 16 dedicated self-hosted runners for Mulesoft applications, equipped with Maven build tools, configuration files, etc.

Project Impact:

- Automated the CI build process, resulting in a significant reduction in build time.
- Streamlined the on-boarding for new Mulesoft applications by leveraging a reusable CICD script.

4. Salesforce DevSecOps Implementation, Client: HDFC Ltd

Role: DevOps Developer

Responsibilities:

- Designed and implemented a Continuous Integration (CI) GitHub action workflow.
- Established and maintained a monolithic repository encompassing the parent application and five child applications.
- Orchestrated collaboration with 80+ contributors in the consolidated structure.
- Implemented various Sonar quality gates to conduct Static Application Security Testing (SAST) analysis.

Project Impact:

- Consolidated five separate teams into a monorepo environment, fostering collaboration among teams that were previously working independently.
- Significantly improved code security.

5. DotNet framework/core DevSecOps implementation, Client: HDFC Ltd
Role: DevOps Developer
Responsibilities:
- Established the CI and CD workflow for seamless building and deployment of the application on IIS servers.
- Configured and maintained a self-hosted runner, ensuring compatibility with required DotNet SDKs and msbuild tool.
- Set up IIS web applications, ensuring proper configuration and functionality.
- Implemented a centralized CI/CD repository, containing reusable scripts tailored for both DotNet Framework and Core applications.

Project Impact:
- Automated the deployment process, eliminating the manual task of copying and pasting binary artifacts to the deployment path.
- The CD workflow now fetches artifacts automatically and drops them into the IIS web application's physical path, streamlining deployment procedures.

6. Triple-Gate Approval Project, Client: HDFC Ltd
Role: GitHub Administrator
Responsibilities:
- Implemented and enforced a robust deployment approval strategy for the Triple-Gate Approval project.
- Established and maintained the CODEOWNERS config file across 300+ repositories, mapping Application Leads for each project.
- Implemented the second gate approval by assigning the Security Team as Branch Owners/Branch Mergers.
- Created and configured four environments in all repositories, designating the Central Deployment Team as the approver.

Project Impact:
- Accelerated approval cycles via prompt GitHub notifications mailed to each approver.
- Enabled the client to record and preserve approvals, ensuring compliance with audit requirements.
- Mitigated unauthorized deployments through a foolproof three-step approval process.

7. Jira GitHub Auditor, Client: HDFC Ltd | POC
Role: DevOps Automation engineer
Responsibilities:
- Streamline pull request approval for project managers while ensuring auditability and eliminating the need for unnecessary GitHub licenses.
- Set up a GitHub Repository webhook pointing to the Jira automation endpoint for capturing PR details and subscribe to the Pull Request event.
- Implemented custom JIRA issue types and configured custom fields to automate the extraction of GitHub pull request data within JIRA issues.
- Implemented JIRA automation rules to establish the complete workflow.

Project Impact:
- Reduce unnecessary GitHub access for non-developer roles.
- Promotes unified review process.

8. Project Name: CI/CD Automation for Java maven application, Tools used: Jekins, Terraform and Ansible
Role: DevOps Developer
Responsibilities:
- **Engineered** end-to-end CI/CD pipelines in **Jenkins**, automating the build, testing, and deployment of **Java Maven applications**, reducing manual intervention by **90%**.
- **Orchestrated** the deployment workflow, ensuring seamless storage of versioned artifacts in **AWS S3**, improving artifact management and traceability.
- **Designed and implemented** a robust **GitHub branching and approval strategy**, enforcing code quality and compliance through multi-stage approvals before pipeline execution.
- **Provisioned** scalable and resilient infrastructure using **Terraform**, dynamically creating **four EC2 instances across four subnets** along with an **Ansible controller** for automated deployments.
- **Automated** deployment processes using **Ansible playbooks**, ensuring consistent, repeatable, and error-free deployments across **four EC2 environments**.
- **Integrated** Jenkins with Terraform and Ansible, enabling **event-driven deployments triggered by GitHub webhooks**, reducing deployment complexity and improving efficiency.

Project Impact:

- **Accelerated deployment timelines** from **1–2 weeks to less than 24 hours**, achieving an **85% reduction in release cycle time**.
- **Enhanced deployment governance** by enforcing stakeholder approvals before execution, improving transparency and accountability.
- **Improved system reliability** by eliminating manual errors through fully automated provisioning and configuration.
- **Standardized infrastructure management** with **Infrastructure as Code (IaC)** using Terraform and Ansible, reducing environment inconsistencies by **100%**.

EDUCATION

Bachelor of Engineering (Electronic and Communication), 06/2017 – 08/2021 | Bangalore, India
Atria Institute of technology

CERTIFICATES

GitHub Actions
Validity: JUN 2023 to JUN 2026 |
Issued by: GitHub