Chaitra S

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PROFILE

Results-driven Senior DevOps Engineer with 3.5+ years of experience automating infrastructure, managing CI/CD pipelines, and leading GitHub Enterprise administration. Skilled in Terraform, Jenkins, Ansible, Docker, and Kubernetes. Strong expertise in GitHub Actions, GCP (GKE), AWS (EC2, IAM, S3), and secure DevSecOps practices. Proven success deploying microservices, streamlining workflows, and enforcing governance in highly regulated environments.

SKILLS

CI/CD Tools:
GitHub Actions, GitLab CI, Jenkins, Azure DevOps, CloudBees CICD.

Containerization & Orchestration:
Docker, Kubernetes (AKS, EKS, GKE)

Languages/Scripting:
Python, Groovy, Bash, YAML, JSON, HTML, PowerShell

Project Tools:
JIRA, Zoho, GitHub Projects

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

OS:
Linux (Ubuntu, RHEL), Windows

Cloud Platforms:
AWS (EC2, S3, IAM, CodeDeploy), GCP (GKE, Cloud Run, IAM, Secrets Manager)

IaC & Configuration Management:
Terraform, Ansible (Tower & Engine)

Source Control:
GitHub, GitLab, Bitbucket, Azure Repos, SVN

Collaboration:
MS Teams, Slack, Discord

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

PROFESSIONAL EXPERIENCE

Lead DevOps Engineer, Sonata Software 09/2021 – present

- Spearheaded DevOps initiatives across hybrid environments, focusing on Configuration Management, CI/CD automation, and Release Management, leading to a 40% increase in deployment efficiency.
- Designed and implemented robust CI/CD pipelines using Jenkins, GitHub Actions, and Terraform, reducing manual intervention and achieving 100% automated deployments for microservices hosted on AWS and on-premises.
- Provisioned and maintained cloud infrastructure on AWS using Terraform and Ansible, deploying services like EC2, VPC, S3, RDS, IAM, Lambda, and Route 53, resulting in a 70% reduction in provisioning time and improved infrastructure consistency.
- Engineered custom Python and Bash scripts for deployment workflows, infrastructure automation, and monitoring processes—cutting manual DevOps workload by 90%.
- Integrated Ansible into Jenkins pipelines for configuration management and zero-downtime application deployments across multi-region environments.
- Administered GitHub and GitLab repositories, enforcing branching policies, access controls, and code quality checks, increasing code security and team collaboration.
- Leveraged Infrastructure as Code (IaC) using Terraform to enable repeatable, version-controlled cloud infrastructure provisioning, significantly minimizing configuration drift.
- Containerized microservices with Docker and orchestrated deployments into Kubernetes clusters (EKS, GKE), enabling scalable and fault-tolerant application environments.
- Enforced security and compliance in CI/CD processes by integrating IAM policies, RBAC controls, and static code/security analysis tools, aligning with enterprise audit standards.
- Actively contributed in Agile/Scrum ceremonies—sprint planning, stand-ups, and retrospectives—enhancing delivery velocity and DevOps process refinement across sprints.
- Reduced deployment cycles from 1–2 weeks to under 24 hours, achieving an 85% improvement in software delivery timelines through fully automated CI/CD workflows and gated release strategies.

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. Enterprise DevSecOps Implementations, Clinet: HDFC Ltd

Role: DevOps Developer

Tools & Tech: GitHub Actions, SonarQube, Maven, Jenkins, IIS, Terraform, DotNet SDK, YAML, PowerShell, Self-hosted Runners, GitHub Monorepo, SAST, Windows Server

Responsibilities:

- Standardized CI/CD Pipelines Across Three Tech Stacks: Designed and implemented GitHub Actions-based CI/CD workflows for Mulesoft (180+ apps), Salesforce (monorepo with 5 child apps), and .NET Framework/Core applications, ensuring scalability, consistency, and audit compliance.
- Created Reusable and Modular Workflows: Developed repository-level configurable templates to support rapid onboarding and version control, reducing build setup time for Mulesoft apps by 60% and enabling efficient reuse across all .NET projects.
- Managed Self-hosted Runners at Scale: Provisioned and maintained 16+ GitHub self-hosted runners tailored for Mulesoft and .NET workloads with required tools (e.g., Maven, MSBuild, SDKs), ensuring high-performance and cost-optimized execution.
- Enabled DevSecOps for Salesforce: Built CI workflows integrated with SonarQube SAST analysis and enforced Sonar Quality Gates for code security. Transitioned 5 independent Salesforce teams into a unified monorepo, improving collaboration and CI governance across 80+ developers.
- Automated Deployment to IIS Servers: Implemented CD pipelines for .NET apps deploying to Windows IIS, automating binary artifact delivery into the physical web path. Replaced manual deployment steps with artifact-based automation, reducing release errors and time.

Project Impact:

- Achieved 80% reduction in build setup time through reusable CI/CD pipelines.
- Improved security posture via mandatory SAST checks and branch protection rules in all projects.
- Streamlined onboarding for new applications, reducing setup effort from hours to minutes.
- Fostered collaboration across cross-functional teams by consolidating fragmented workflows into a central DevSecOps platform.

4. 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.

5. 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.

6. Project Name: CI/CD Automation for Java maven application
Role: DevOps Developer
Tools used: Jekins, Terraform and Ansible
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), Atria Institute of technology 06/2017 – 08/2021 | Bangalore, India

CERTIFICATES

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