

Results-driven Cloud DevOps Lead with 13+ years of experience architecting scalable infrastructure solutions across AWS and Kubernetes based platforms. Proven track record leading teams to deliver enterprise CI/CD pipelines, infrastructure-as-code implementations, and complex cloud migrations. Specialized in building reusable automation frameworks, implementing monitoring solutions, and driving operational excellence through technical mentorship and process optimization.

Work History

2022-08 -
Current

Cloud Devops Lead

Barclays Pvt. Ltd., Pune, Maharashtra, India

Led a team of five DevOps engineers in delivering a Generative AI conversational banking solution, overseeing end-to-end infrastructure provisioning, and deployment operations.

Infrastructure and Cloud Architecture:

- Architected scalable and highly secure CSO-approved infrastructure diagrams for a GenAI application using AWS Bedrock, OpenSearch, ECS, S3, and other core AWS services.
- Created a solution to prevent the leakage of PII data in CloudWatch logs using the CloudWatch data protection policy.
- Provisioned four AWS environments using CloudFormation as an IAC tool, deployed using Service Catalog Products, and Jenkins.
- Created a generic Chef cookbook for the dynamic installation of user-defined yum packages on EC2 instances.
- Re-engineered the logging infrastructure to leverage AWS-native services, implementing a scalable solution utilizing S3, Athena, Kinesis Data Stream, ALB, and EKS.
- Spearheaded the migration of legacy on-premises applications to Barclays' OpenShift v4-powered private cloud platform.

CI/CD & Deployment:

- Orchestrated the migration of over 100 code repositories from Bitbucket to GitLab, transitioning from Jenkins-based CI to GitLab workflows with a Gitflow branching strategy.



Sayan Das

Sr. DevOps Engineer

Contact

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[Bold Profile](#)

Skills

Jenkins



AWS Cloudformation



AWS



Hashicorp Packer



Helm charts



Prometheus



Grafana



- Designed and implemented a centralized DevOps GitLab CI pipeline component library, simplifying configuration management, and enabling developer self-service.
- Designed and implemented robust CI/CD pipelines with specialized workflows for prompt deployment in AI applications.
- Developed a reusable Helm chart, enabling standardized deployments across multiple engineering teams.
- Pioneered Helm chart adoption within the team for OpenShift application deployments.

Documentation and Governance:

- Authored comprehensive production deployment build guides, and operational handover documentation for the SRE team.
- Developed critical security and recovery documentation, including Key Compromise Plans, System Recovery Plans, and Data Backup/Restore Strategies, Certificate Life Cycle Management Plan and Decommissioning Plan.
- Remediated AWS Config compliance violations to ensure adherence to security standards.

Team Leadership & Process Improvement:

- Conducted a gap analysis of existing CI/CD processes and implemented optimization strategies.
- Provided technical mentorship to team members on script optimization and DevOps best practices.

Senior DevOps Engineer

Infracloud Technologies Pvt. Ltd., Pune, Maharashtra, India

- Architected and implemented a HA monitoring setup using Prometheus and Thanos. This setup can be extended in future to support multi-tenancy. This setup also makes, the Prometheus on tenant side near stateless with minimal data loss. (<https://github.com/dsayan154/thanos-receiver-demo>)
- Implemented a Kubernetes custom controller in Golang, to automatically update a configmap's data(Prometheus' configuration) depending on the change in replica count of Prometheus

Shell script

Git

Thanos

Golang

Python

Terraform

Gitlab

Team management

Languages

English

Upper intermediate

Hindi

Upper intermediate

Bengali

Upper intermediate

2020-05 -
2022-07

statefulset (<https://github.com/dsayan154/prometheus-remote-read-updater>)

- Packaged the customized solution in a helm chart to be deployed in different environments
- Created custom modules in Terraform to create ALBs and other redundant resources on AWS repetitively.
- Wrote AWS Lambda function to snapshot EC2 attached EBS volumes in events of a Lifecycle Hook trigger of AWS Auto Scaling Groups
- Identifying areas of improvements from SRE point of view

2017-03 -
2020-04

DevOps Engineer

Accenture Technologies. Ltd, Pune, India

- Developed CD roadmap and implemented it in project using Jenkins, Docker images and Helm charts
- Implemented strategies to do canary deployments on production kubernetes clusters
- Setup a secure cloud infrastructure on AWS through cloudformation templates
- Setup multiple kubernetes cluster on Amazon EKS to host micro-services
- Automated AWS AMI creation procedure with Hashicorp Packer
- Implemented a robust monitoring and alerting pipeline of the whole infrastructure along with integrations with multiple communication channels like MS Teams and emails
- Automated and enforced DevOps methodologies with various tools like, Nexus IQ server, Sonar, etc
- Researched and identified new technologies and tools helping to grow agile development environment
- Wrote and updated documentation to outline technical design of entire project

2016-10 -
2017-02

DevOps Engineer

Mphasis Limited, Pune, India

- Made configuration changes on existing Jenkins servers
- Automated repetitive tasks by creating scripts on Powershell

- Maintained and configured Apache Http Servers on production

2015-12 -
2016-09

DevOps Engineer

Virtusa Pvt. Ltd., Pune, India

- Automated build and continuous software integration process through Jenkins
- Maintained and configured Jenkins slave nodes through Chef recipes
- Created automation for manual tasks through shell and python scripts
- Maintained and configured 250+ IBM Websphere Application Server clusters

2012-03 -
2015-11

Middleware Administrator

Tata Consultancy Services Pvt. Ltd., Kolkata, India

- Maintained and configured clusters of application servers and web servers
- Created and installed SSL certificates of customer facing websites
- Researched complex technical issues and provided resolutions

Accomplishments

- Modified the CI pipeline by introducing helm charts. Thus, reducing the kubernetes manifest repository to bare minimum by better packaging of cloud-native micro-services
- Implemented automated monitoring and alerting of customer facing services to minimize the customer impact
- Implemented VPN solution on AWS to get secure access to the private EC2 instances
- Implemented various cloud infrastructure solutions from scratch through code using AWS cloudformation templates
- Upgraded Amazon EKS clusters from kubernetes 1.13 to 1.14

Education

2007-03 -
2011-03

Bachelor of Technology: Computer Science Engineering

West Bengal University Of Technology - Kolkata, WB,
India

2006-03 -
2007-03

Higher Secondary: Computer Science

Assembly of God Church - Kolkata, West Bengal,
India

2004-03 -
2005-03

Secondary: Science

The Modern Academy - Kolkata, West Bengal, India

Interests

Learning new technologies

Cooking

Driving

Additional Information

Technical articles published on :

<https://medium.com/@dsayan154>