



Shaping Healthcare Possibilities

Success Story

Innovating with IoT for a Fortune 500 Healthcare giant

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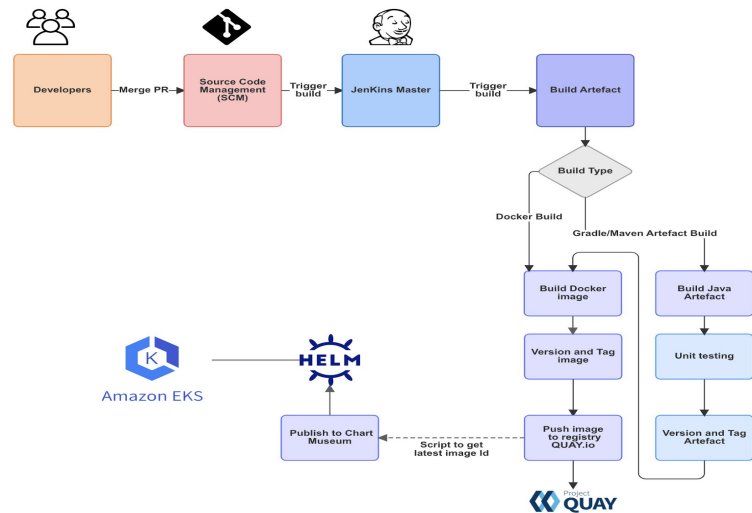
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The Challenge

Client is a Fortune 500 science and technology innovator, engaged with CitiusTech in developing a platform to aggregate data from IoT devices and perform advanced analytics using big data and machine learning. Objective of DevOps architects was to work on design and architecture for this platform, develop a scalable CI/CD pipeline, tools & technology evaluation, Infrastructure provisioning etc.

Solution Highlights



Jenkins



HashiCorp Terraform



kafka



Amazon EKS

The Solution

- CitiusTech worked on the design and deployment architecture of the IoT Platform
- **Helm charts** developed for different environments like dev, QA, staging etc. to map and deploy services as per configurations w.r.t different environments
- **Serverless yaml. and cli** was used to deploy APIs on API Gateway. Different configuration files were created for deploying on different environments
- **Data pipeline provisioning API** was created to onboard new customer. The API makes use of Jenkins API to trigger build to deploy the required infrastructure
- Key technologies leveraged : **AWS (IoT Core, Cognito, Lambda, EKS, API Gateway), Kafka, Python, Serverless, Terraform, Jenkins**
- Delivered IaC scripts for infrastructure automation of AWS platform

The Outcome

- Implemented a polyglot architecture to serve the various needs of the system
- Delivered scalable platform and is currently been used by more than 10K devices



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Thank You

CitiusTech - Shaping Healthcare Possibilities.

CitiusTech is a global IT services, consulting, and business solutions enterprise 100% focused on the healthcare and life sciences industry. We enable 140+ enterprises to build a human-first ecosystem that is efficient, effective, and equitable with deep domain expertise and next-gen technology.

With over 8,500 healthcare technology professionals worldwide, CitiusTech powers healthcare digital innovation, business transformation, and industry-wide convergence through next-generation technologies, solutions, and products

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