The following is our Open Health Stack

Cloud native infra with Serverless Stack for end-to-end design, development, deployment and monitoring.

Cloud Native Infra and Application Monitoring Dashboard ⑧

- Amazon CloudWatch
- AWS X-Ray
- Amazon Managed Grafana
- Amazon Managed Service for Prometheus

Frontend Web Application ③

- React
- Redux
- TypeScript

Mobile Application ④

- Swift
- Kotlin

Cloud Native Microservice and Open API Architecture ②

- Amazon SNS
- Amazon SQS
- Amazon MQ
- Amazon API Gateway

HL7 FHIR ⑥
Healthcare Industry Standard for Open API Design and Development

- node.js ⑤
- .NET
- Amazon S3
- AWS Lambda
- Amazon EKS
- Amazon ElastiCache
- Amazon RDS
- AWS Glue
- ROSA
- Amazon ECS
- Amazon DynamoDB
- Amazon Aurora

Infra Hosting(HCC)

- aws ①

HIP ⑦
(Healthcare Integrated Pipeline)

Secure, Safe and Faster DevSecOps Pipelines

- Infra As Code
- Application Source Code Repo
- SCA
- Code Analysis
- SAST
- Unit Test
- Integration and Perf Test
- Package
- Deploy

Overview

1) Move towards HCC AWS

2) Use the listed AWS Services and other applicable AWS services for developing Serverless solution.

3) Adopt ReactJS for Frontend Web SPA (Single Page Application)

4) Adopt native programming language for mobile app

5) Adopt .NET for primary programming language for APIs and services

6) Design and implement Open API by leveraging HL7 FHIR API for intra and inter system integration

7) HIP for end-to-end DevSecOps, and adopt automated infra provision via Infra-As-Code

8) Cloud native monitoring Dashboard for health & performance monitoring, alert and troubleshooting