IPAC architecture diagram v5

on-prem

AWS landing zone

Encryption: HSM, KSM

Logging: Cloud Watch, Cloud Trail

User management: Cognito, IAM

Input data source → ETL → ① Network folder → ② Storage gateway → ③ Storage gateway → ④ S3 → ⑤ Lambda → ⑥ S3 → ⑦ Lambda → ⑧ SageMaker

KPI reporting ← CLI ← ⑮ S3 ← ⑭ Lambda ← ⑪ S3 ← ⑩ SageMaker ← Application front end ← ⑨ Business user

⑫ Lambda → S3
⑬ Lambda → SES → Business user

Geofencing

1. Bulk data extraction ETL deposits data into network shared drive
2. Storage gateway automatically picks up data
3. Synchronization over secure connection
4. Bulk data arrives into a landing bucket
5. Separation of individual patient information
6. Tabular and graphical information along with notes / reports
7. Review job preparation
8. Review job release
9. Business user review the case
10. Decision gets deposited into a bucket
11. Post-processing function checks decision
12. In case of no decision, data goes back for another round of review
13. Send email notifications to business users
14. Identified CLABSI cases go into the reporting bucket
15. AWS CLI is used to retrieve the patient data for reporting