

Image Ingestion for AWS Health Imaging

PARTNER OF THE YEAR WINNER 2024

for Healthcare & Life Sciences for North America

Business Challenges

 Client is one of the leading providers of the Imaging diagnostics services across USCAN geography.

Client's requirement
 was to build a DICOM ingestion
 pipeline on AWS HealthLake Medical
 Imaging. The pipeline should scan
 uploaded images for virus/malware
 and validate if they are valid images
 before ingestion.

 Ensure the pipeline's scalability, security, and performance while handling concurrent image uploads. Implement asynchronous processing, error handling, logging, and monitoring functionalities to optimize efficiency and user experience.

CASE STUDY

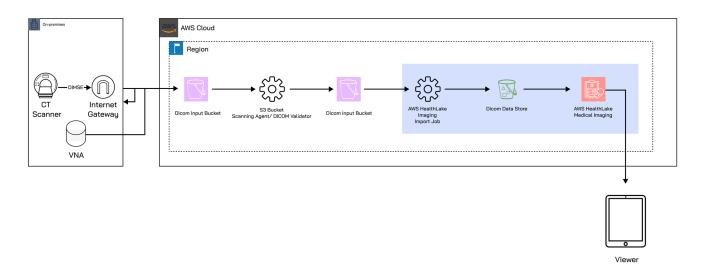


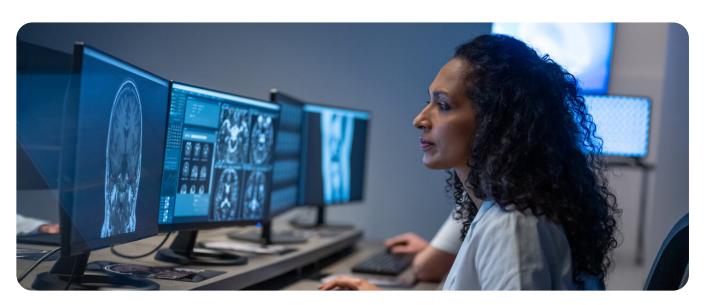


CITIUSTECH SOLUTIONS

- CitiusTech designed a highly scalable ingestion pipeline using AWS Services such as Amazon S3 Bucket, ASG, EC2, Lambda, SQS, SNS, API Gateway and CloudFront.
- The pipeline provides virus/malware scanning and DICOM image validation capabilities, ensuring that only clean and valid images are ingested into AWS HealthLake Medical Imaging.
- Built-in monitoring functionality enables real-time tracking of image ingestion progress at each stage, ensuring efficiency and identifying potential issues promptly.

SOLUTION SCHEMATIC







VALUE DELIVERED



Scalability & Performance:

The pipeline efficiently handles varying workloads with AWS Auto Scaling and asynchronous processing, ensuring optimal performance and reduced processing time.



Security & Data Integrity:

Virus scanning and image validation guarantee that only clean, valid images are ingested, safeguarding data integrity and protecting against security threats.



Real-time Monitoring:

The built-in monitoring system tracks ingestion progress, enabling proactive issue resolution and ensuring a reliable and efficient process.

CitiusTech

Shaping Healthcare Possibilities

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