



Shaping Healthcare Possibilities

Success Story

# Migration of ECG management solution to AWS

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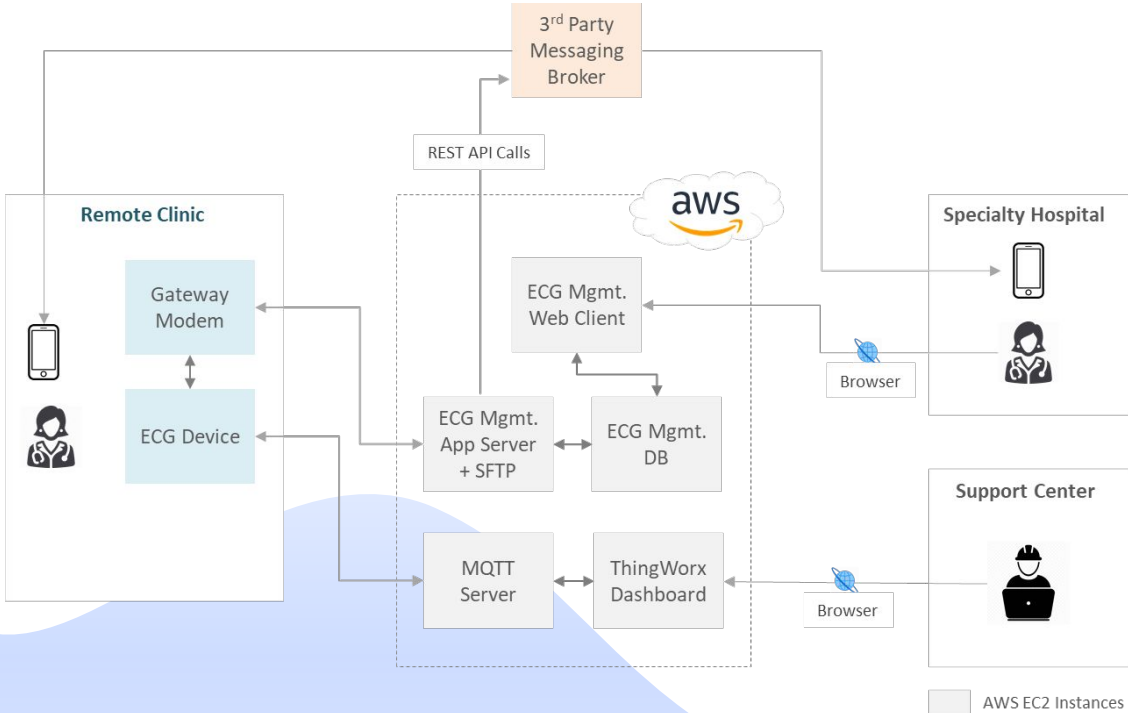
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## The Challenge

- The client is one of the leading medical imaging and critical care device manufacturer.
- It offers a suite of ECG devices and a thick client ECG management solution. It needed to migrate this solution from on-premise to a public cloud. Ensuring connectivity between ECG devices and the cloud-based ECG management solution was also critical.
- CitiusTech was chosen based on its expertise in cloud migration of healthcare solutions and device connectivity

## Solution(s) & Value Delivered



## The Solution

- Conducted feasibility analysis on migration of client's application to AWS cloud, and its connectivity with legacy ECG devices
- Migrated a thick-client ECG mgmt. soln. to AWS EC2 instances, in a 3-tiered architecture (DB server, Web server, Application server)
- Established a secure data pipeline using HTTPS, between ECG device and cloud solution to send ECG files, using AWS S3, AWS SQS, AWS Lambda
- Built remote servicing capabilities using MQTT protocol and ThingWorx solution, hosted on AWS
- Developed a cloud-based analytics dashboard to capture operational metrics
- Built SMS notification feature using 3rd party messaging broker



## Solution Highlights

- Established connectivity between remote ECG devices and cardiologists in specialty hospitals
- Eliminated the need for on-site visits as required earlier for servicing ECG devices, reducing maintenance efforts



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# Thank You

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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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