

# Pristine Saves Six Weeks of Development Time and Gains Agility with Strategic, Scalable, Healthcare Compliant Infrastructure

## Overview

### Creating Scalable, Secure Infrastructure in AWS

Pristine is working at the forefront of healthcare, with an audio/visual communication SaaS solution for healthcare providers optimized for wearables like Google Glass. Smart glasses provide a strong benefit in clinical settings by enabling clinicians to share a live stream of what they, without encumbering their hands. What's more, Pristine's solutions are simple to deploy and manage; IT constraints should never stand in the way of patient care.

The challenge that Pristine faced was to build and apply a templated infrastructure model to scale their existing HIPAA-compliant application. Particularly given the company's rapid growth, it was crucial to enable the deployment of much more infrastructure in much less time. Additionally, Pristine would be under pressure to provide a high degree of uptime to ensure devices could be used not just in mission-critical, but health-critical situations.

## Requirements

### Specialized Knowledge for Assurance

Pristine maintains AWS infrastructure for all of their applications. Reflecting the company's strong focus on outstanding customer experience, this infrastructure supports client apps for the web, Android, iOS, and Google Glass. Thus, the company needed to prioritize hiring for skills specific to the devices their end users would run their apps on.

"We had in-depth knowledge about iOS and Android, but scalable infrastructure on AWS was a different beast," says Mark Troutfetter, Vice President Engineering at Pristine.

Pristine, then, was faced with a dilemma. Directing the resources required to build an infrastructure that would account for AWS nuances would extend the time needed to get their second-generation architecture up and running. Worse, incorrectly configured infrastructure on AWS could lead to security issues, downtime, or potential risk of privacy breaches.

Pristine selected Flux7 to provide a DevOps assessment that would validate Pristine's initial thinking, produce a strategic plan and provide the technical expertise necessary to move their infrastructure forward.

## Flux7 Solution

### Cloud Infrastructure Optimization

Flux7 helped Pristine to:

- Develop the infrastructure design on AWS
- Ensure the whole infrastructure was within AWS' HIPAA-compliant offerings, to meet the requirements of Pristine's healthcare business
- Improve the overall scalability, automation, and security of their infrastructure

## Results

The end solution, completed under a tight timeline, enables Pristine has the right architecture to accelerate their development, plus meet the high reliability needs of their clients.

## PRISTINE

*Pristine is pioneering Google Glass in healthcare.*

*The company solves clinical workflow challenges to help healthcare providers achieve the triple aim of cost, quality, and access. By using Glass for wearable, hands-free video communication, Pristine's products empower clinicians to call on the expert help they need, instantly. Pristine's clients include academic medical centers and major health systems.*

*pristine.io.*

## Challenges

- Pristine's rapid growth and resource constraints meant they didn't want to hire on staff, or commit to managed services.
- They needed the assurance of best-practices that comes with experienced cloud infrastructure experts and could provide a self-healing, controlled environment.
- Customer demand was reaching an inflection point; there was a need to rapidly accelerate short-term product development while keeping an eye on the longer-term strategy to support agility.

## Benefits

- Increased assurance of meeting HIPAA-compliant software requirements
- Created a scalable mobile app infrastructure
- Quick medical device product development
- High degree of guaranteed system uptime to clients

*“We estimate that by working with Flux7 we were able to speed up our total development time by at least six weeks, helping us to meet a number of short-term business opportunities while improving business agility for the long-term.”*

— Mark Troutfetter,  
Vice President Engineering

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