

CASE STUDY  
**PLSC**



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Solution Provider

A non-profit research organization, Procedural Learning and Safety Collaborative (PLSC) is focused on improving physician training. As an organization within the healthcare industry, PLSC faced unique challenges when it came to technology — namely, HIPAA privacy and regulatory compliance. AWS Consulting Partner Ibexlabs was called upon to build and maintain one of its flagship programs, SIMPL, a technology that would become a core part of its offerings.



**The Challenge:**

## Developing a Flagship Technology for Healthcare Teaching

“Ibexlabs has built world-class infrastructure for us utilizing advanced AWS capabilities.”

Brian George, MD MAED, PLSC Executive Director and Member


One of PLSC's most important initiatives was SIMPL, the System for Improving and Measuring Procedural Learning. This ambitious platform had to be used through a smartphone device and would collect evaluation data on residents and faculties. Data had to be reliably stored, analyzed, and transmitted, and notifications had to be sent out regularly to remind participants to fill out forms.


SIMPL had to be robust, secure, and capable of characterizing and enhancing faculty teaching behaviors. All that in mind, it also had to be cost-effective. Ibexlabs was given the task of creating a solution that would be able to meet all the needs of PLSC, while also still being easy to maintain and modify moving forward.

## The Solution:


# A Robust, Scalable Application on AWS


 AWS Route53

 AWS Systems Manager

 AWS EC2


 AWS VPC

 AWS Elastic Beanstalk

 AWS RDS

 AWS Artifact

 AWS CloudTrail

 AWS CloudWatch.

After reviewing the required application architecture, Ibexlabs set to work creating the ideal solution. Via AWS Artifact, Ibexlabs was able to first establish a Business Association Agreement (BAA) to -protect PLSC's Protected Health Information (PHI). A migration to AWS not only helped PLSC in terms of shared responsibility but allowed PLSC to tap into the virtually limitless resources of the cloud provider. PLSC was able to benefit from AWS' physical security, the logical isolation of the Amazon VPC, and data management through Amazon RDS database instances.

With Elastic Beanstalk, the infrastructure was also provided with Auto Scaling, Rolling Deployments, and automatic patching — all improving the consistency and reliability of the infrastructure while optimizing its administration and management. Data backup, storage, and recovery were available through Amazon RDS. By leveraging solutions within the Amazon ecosystem, Ibexlabs was able to create a complete infrastructure with capabilities of self-monitoring and self-maintaining.

## The Result:

# Superior Technology at Minimal Cost

Ibexlabs was able to achieve next-generation monitoring and continuous compliance through its expert knowledge of advanced AWS technologies. Once developed, PLSC's SIMPL was secure, high-performing, resilient, and cost-effective — everything that PLSC needed to usher in the new age of doctors. AWS made it possible for PLSC to deploy applications with the elasticity and scalability they needed for long-term growth, and the work that Ibexlabs did in the planning stages made it possible for them to move forward without having to worry about infrastructure maintenance.

Is your organization looking for a solution? Ibexlabs is a full DevOps & MSP and AWS Consulting Partner. Connect with Ibexlabs today to learn more about what is possible.

