



From Microscope to the Cloud: Vistapath's Open-Source Evolution with AWS, Kubernetes, GitOps and HIPAA Security

Executive Summary

Vistapath, a pioneer in digital pathology solutions, embarked on a mission to modernize its infrastructure, ensuring HIPAA compliance while leveraging the power of open-source technologies. With Binbash's expertise in AWS, EKS, Infrastructure as Code, and open-source solutions, Vistapath achieved a secure, scalable, and innovative digital transformation.

Challenge

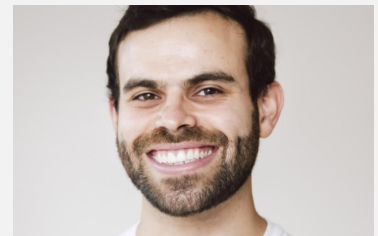
Vistapath's challenge was twofold: ensuring HIPAA compliance and integrating open-source technologies to modernize the infrastructure. The company sought a solution that would be scalable, efficient, and uphold the stringent security standards of HIPAA, all while harnessing the benefits of open-source.

Solution

binbash, an esteemed AWS Partner, crafted a comprehensive solution for Vistapath. By leveraging AWS services, EKS, Infrastructure as Code, and a suite of open-source technologies, binbash implemented a modern, HIPAA-compliant, and open-source-driven infrastructure. This approach not only ensured data security but also provided Vistapath with the flexibility and innovation that open-source solutions offer.



Vistapath has been leading the charge in revolutionizing pathology with its digital solutions. As the medical field advances, there was a pressing need for a robust, compliant, and open-source-driven infrastructure.



I highly recommend binbash. They played a crucial role in redesigning our infrastructure to meet the demands of the healthcare industry. Above and beyond the expertise and quality work you would expect from a group like binbash, I've truly appreciated their focus on educating our internal staff so that Vistapath can take over the work they have produced on our behalf.
Jacob Guggenheim, VP Eng



Cloud Solutions Tech Stack



Results

Post-implementation, Vistapath reaped numerous benefits:

- Achieved HIPAA compliance, ensuring data security.
- Enhanced performance and scalability, ready to cater to growing demands.
- Integrated open-source technologies, fostering innovation and adaptability.
- Streamlined operations, leading to improved diagnostics and patient care.

The collaboration has solidified Vistapath's position as a leader in digital pathology, with a vision for continuous innovation, open-source integration, and growth.

Key Milestones

- **AWS Landing Zone & Secure Baseline Deployment:** binbash planned, designed, and deployed the AWS Landing Zone resources tailored for Vistapath's platform workloads and services. This included the establishment of an AWS Organization, Organizational Units, and Accounts, emphasizing security and shared resources.
- **AWS K8s EKS Environment Creation:** Binbash spearheaded the creation of a Kubernetes (K8s) EKS environment on AWS, ensuring a robust and scalable platform for Vistapath's applications embracing the most modern GitOps approach..
- **AWS Security and Compliance Services:** In this phase, binbash fortified Vistapath's AWS infrastructure by implementing top-tier security and compliance measures, ensuring data protection and regulatory adherence.