



From Robots to Bytes: Diligent Robotics' HIPAA-Compliant Modernization with AWS and EKS

Executive Summary


Diligent Robotics, at the forefront of robotic solutions for healthcare, sought to enhance their infrastructure to cater to the growing demands of the industry. binbash, leveraging AWS and EKS, provided a modernized solution, ensuring scalability, efficiency, and robustness in Diligent Robotics' operations.

Challenge

With the increasing complexity of robotic solutions and the vast amount of data processed, Diligent Robotics needed an infrastructure that was not only scalable but also secure and efficient. The challenge was to modernize their existing setup without disrupting their ongoing operations.

Solution

binbash, an AWS Partner with expertise in EKS and Infrastructure as Code, designed a tailored solution for Diligent Robotics. By leveraging AWS services and EKS, binbash implemented a modern infrastructure that could handle the demands of robotic data processing and ensured seamless integration with Diligent Robotics' systems. The choice to collaborate with binbash was driven by their innovative approach and their ability to provide solutions that stood out from other partners.

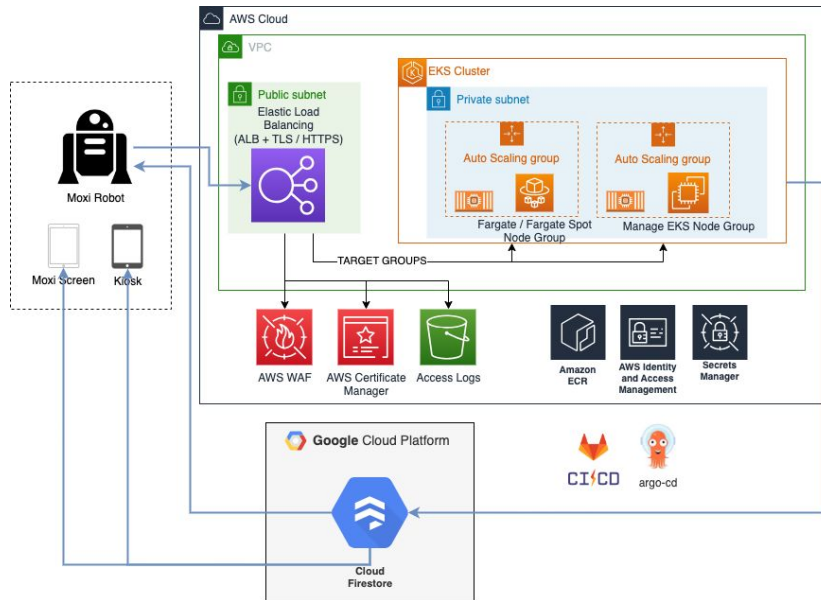


Background

Diligent Robotics has been revolutionizing patient care with their robotic solutions. As the healthcare industry evolves, so does the need for a robust and scalable infrastructure to support their innovative solutions.



Cloud Solutions Architecture Diagram



Results

Post-implementation, Diligent Robotics experienced:

- Enhanced performance in data processing and robotic operations.
- Robust security measures ensuring the safety of sensitive data.
- Scalability to accommodate future innovations and expansions.
- Streamlined operations leading to improved patient care.

The collaboration has positioned Diligent Robotics as a leader in healthcare robotics, with a vision for further advancements in the field.

Key Milestones

- **AWS Landing Zone & Secure Baseline Design and Deployment:** binbash designed and deployed an AWS Landing Zone for Diligent Robotics, ensuring a secure and scalable cloud infrastructure. This setup provided a strong foundation with a focus on security best practices and efficient account structure.
- **AWS Microservices EKS + GitOps Strategy:** binbash optimized the AWS EKS Kubernetes environment tailored for Diligent Robotics. With the integration of GitOps using ArgoCD, they streamlined deployment workflows for rapid microservices deployment.
- **Continuous Improvement & Optimization Phase:** binbash offered AWS solutions and recommendations throughout Diligent Robotics' cloud journey. This included planning, migration, and automation, positioning Diligent Robotics to fully harness the benefits of the cloud.