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Streamlining Devops Process and Optimizing Cloud Infrastructure for one of the fastest growing HRMS platforms in the USA

TECH STACK & TOOLS

- Kubernetes
- EKS Fargate
- Hashicorp Vault
- Docker
- Helm

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sales@euphoricthought.com

CHALLENGES

Our client offers a comprehensive HR management solution that streamlines essential employee management tasks, such as salary management, attendance tracking, and employee reviews.

The primary challenge was to ensure the platform's reliability, scalability, and security. Built on a Kubernetes-based environment, the platform required a robust approach to managing and optimizing cloud infrastructure. This included seamlessly scaling to accommodate growing workloads while maintaining stringent security measures to protect sensitive employee data.

The challenge also involved striking a delicate balance between innovation, system stability, and user experience as the platform continued to evolve and adapt to the diverse needs of its expanding client base.

SOLUTIONS

Euphoric has successfully delivered a streamlined solution that effectively addresses the challenges of optimizing and managing the client's cloud infrastructure and DevOps processes. By leveraging a combination of cutting-edge technologies and industry best practices, Euphoric has played a pivotal role in ensuring the platform's high availability, scalability, and security.

This holistic approach has not only enhanced operational efficiency but also positioned the platform to scale seamlessly, adapt to increasing demands, and maintain robust security standards, ultimately supporting the client's growth and success.

BENEFITS

The benefits were numerous, and some of them are given below:

- Kubernetes-based Infrastructure: A Kubernetes environment was used to deploy and manage the application, ensuring high availability and scalability of the HR platform.
- Secrets Management: HashiCorp Vault was used to manage sensitive data such as API keys, database credentials, and more, ensuring security best practices are followed at all times.
- Centralized Logging: We have implemented centralized logging across the entire system, enabling easy monitoring and troubleshooting of the platform's components.
- Database Management: The system is supported by MongoDB and PostgreSQL databases, providing flexibility and reliability in handling structured and unstructured data.
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- Helm Chart-based Apps: Application deployments are managed through Helm charts, allowing for version-controlled, reproducible deployments.
- EKS Fargate Migration: A key initiative was migrating all environments to EKS Fargate, which includes setting up centralized logging and alerts to maintain optimal system performance and ensure quick responses to incidents.
- Security and Compliance: Security is a top priority at HelloTeam, especially given the sensitive nature of employee data. We have been closely involved in configuring and maintaining security measures, including proper secrets management, secure access controls, and continuous monitoring to ensure the platform meets industry standards.