How Petal Streamlined Infrastructure Migration with Commit

About Petal

Petal Cards, a leading US-based FinTech company. Dedicated to expanding financial inclusion through innovative credit solutions, they decided to leverage modern technology to offer credit cards that utilize alternative data sources for credit worthiness assessments, allowing a wider range of individuals to build credit and access essential financial products. Petal prioritizes responsible credit use by reporting to credit bureaus and offering budgeting tools within their app.

Challenges

Petal's rapid growth presented a significant challenge for their existing infrastructure. Their on-premises Nomad cluster, while efficient initially, began to struggle as the number of applications and data volume grew. Managing a large on-premises cluster has become increasingly complex. Troubleshooting issues, resource contention, and increased operational overhead became more frequent.

Scaling the Nomad cluster horizontally also posed limitations. As Petal business needs expanded, the ability to quickly add resources became crucial.

Security concerns were another factor driving Petal to seek a new solution. Maintaining robust security measures on-premises requires significant investment in personnel and technology. Petal desired a platform with built-in security features that would reduce the management burden and ensure data protection and compliance.

These limitations led Petal to search for a more modern infrastructure solution. Their ideal platform would offer enhanced scalability, improved security, and greater manageability. A cloud-based environment with the ability to easily scale resources and built-in security features was a priority. Additionally, they sought a platform that simplified operations and reduced the time and resources needed for infrastructure upkeep. By migrating to a cloud-based solution, Petal aimed to address these challenges and lay the foundation for continued business growth and innovation.

Solution

To address the limitations mentioned above, Petal partnered with Commit to migrate their legacy infrastructure components to a cloud-based Amazon Elastic Kubernetes Service (EKS) cluster. This comprehensive migration involved several key steps:

Reverse-engineering internal systems and processes

This ensured a complete understanding of the existing infrastructure, facilitating a smooth transition to the new environment.

Developing new services in EKS

Replicating the functionality of the legacy Nomad cluster within EKS ensured continuity for Petal's operations.

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Petal and Commit fostered a successful collaboration throughout the migration. This involved:

- **Collaborative Knowledge Sharing**: Engineers from both teams actively shared discoveries,ensuring everyone remained informed and involved in the process.
- **Enhanced Communication Channels**:Proactive communication channels facilitated close collaboration with Petal' domain experts, integrating their valuable insights.
- **Technical Expertise**: Commit's team leveraged their expertise to identify and implement best practices in Docker, EKS, and key management, leading to a more efficient and secure infrastructure for Petal.

This approach ensured a smooth transition and maximized the benefits of the migration for Petal.

Results

Commit's engineers fostered a successful collaboration throughout the migration. They actively shared their discoveries, ensuring Petal remained informed and involved. Proactive communication channels facilitated close collaboration with Petal's domain experts. Furthermore, Commit's team leveraged their technical expertise to identify best practices in Docker, EKS, and key management, leading to a more efficient and secure infrastructure.

Petal successfully migrated their infrastructure to a modern EKS cluster, achieving greater scalability, security, and manageability. Through their professionalism, technical expertise, and collaborative approach, Commit enabled Petal to achieve a smooth and successful infrastructure transformation.

> *"The project started with many unknowns, and Commit was able to navigate them and deliver solutions that fit our needs. They were professional, knowledgeable, and accommodating. Based on our experience I would not hesitate to recommend working with them on AWS-related projects and look forward to opportunities to work with them again in the future.."*
>
> **Andrew Turley**, Software Engineering Manager
> Petal Cards

Learn More About Our AWS Solutions

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