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CASE STUDY: Revolutionising Retail: Homechoice's Seamless Transition to AWS EKS & RDS with Deimos

Company: Homechoice | Industry: Retail | Location: South Africa

In the competitive world of retail, Homechoice, a leader in South African homeware spanning over 35 years, envisioned a pioneering solution for their cloud strategy; but was confronted by the intricate challenges of navigating Amazon Elastic Kubernetes Service (EKS), on-premises Kubernetes management, and CI/CD pipeline optimisation. Turning to Deimos, a premium AWS partner, marked the initiation of a strategic transition that would redefine Homechoice's technological landscape.

THE CHALLENGE

In a bold move to elevate their cloud strategy and foster innovation, Homechoice confronted a number of technical challenges:

+ Understanding Amazon EKS

Homechoice grappled with the complexities of Amazon Elastic Kubernetes Service (EKS), an innovative but relatively nascent technology at the time. The challenge lay in comprehending and optimising EKS for their specific use case. As EKS introduced a paradigm shift in cloud orchestration, Homechoice faced the task of bridging the knowledge gap to harness its full potential, requiring a specialised technical approach and strategic guidance.

+ Maintaining On-Premises Kubernetes Infrastructure with OpenShift

Sustaining and optimising on-premises Kubernetes infrastructure, especially with the adoption of OpenShift, presented a significant challenge. The intricacies of managing this infrastructure, ensuring seamless integration with cloud solutions, and aligning it with the broader cloud strategy demanded a meticulous approach. Dealing with the operational intricacies of an existing on-premises infrastructure while transitioning to a cloud-centric model required innovative solutions to ensure efficiency and scalability.

+ Streamlining CI/CD Pipelines

Efficient and effective Continuous Integration/Continuous Deployment (CI/CD) pipelines are the lifeblood of automated software delivery. However, Homechoice faced hindrances in these critical pipelines. The challenge was to streamline the processes, removing bottlenecks and complexities, while maintaining the highest standards of security and compliance. Optimising CI/CD pipelines was crucial for Homechoice to enhance software delivery speed, reduce errors, and ensure a robust and reliable deployment pipeline.

THE SOLUTION: An Orchestrated Symphony of Innovation

In response to the multifaceted technological challenges faced by Homechoice, Deimos engineered a strategic and specialised solution, navigating complexities to elevate their cloud strategy:

1 Seamless Transition to AWS

Deimos orchestrated a flawless migration to Amazon Web Services (AWS), implementing Amazon Elastic Kubernetes Service (EKS) and Relational Database Service (RDS). The transition involved meticulous planning and execution to ensure a smooth shift from on-premises to cloud infrastructure.

2 Strategic Migration and Containerisation

The solution included a strategic migration plan, ensuring a seamless move of workloads to AWS EKS. Deimos leveraged containerization to enhance flexibility, scalability, and resource efficiency, aligning with modern cloud-native practices.

3 Adherence to Solutions Architecture Best Practices

Deimos demonstrated a commitment to Solutions Architecture best practices, ensuring that the implemented cloud infrastructure met industry standards and Homechoice's specific requirements. This meticulous approach laid the foundation for a robust and optimised cloud environment.

PRODUCTS

aws	aws	aws
Amazon Elastic Kubernetes Service	**Amazon Relational Database Service**	**Amazon Elastic Container Registry**

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THE RESULTS:
Achieving Technological Zenith

The collaborative synergy between Homechoice and Deimos bore fruit in the form of the following key outcomes and metrics:

+ Hosting Over 100 Microservices in EKS

Homechoice now successfully hosts over 100 microservices in Amazon EKS, showcasing the scalability and efficiency of the implemented solution. This accomplishment reflects the seamless integration of diverse workloads into the cloud environment.

+ Average Deployment Time Under 5 Minutes

This efficiency enhancement signifies a substantial improvement from Homechoice's previous operational timelines, enhancing agility and responsiveness.

+ Impressive 99.9%

This stellar performance underscores the stability and reliability achieved within Homechoice's cloud environment, ensuring uninterrupted service delivery.

+ Stability and Scalability

The collaborative efforts not only addressed existing challenges but also laid the groundwork for future growth and technological advancements.

What Homechoice's Team are Saying...

"Deimos gives you confidence, confidence to try things out, as Deimos is always there to support and back up. Their technical prowess and collaborative approach have not only optimised our cloud infrastructure but have empowered us to explore new horizons in technology with assurance"

Adriaan van Niekerk,
Software Engineer Manager,
Homechoice i

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If you are looking for a way to improve your cloud strategy, contact Deimos today to learn more about AWS and our services.

Click **here** to learn more.