

## Cloud Technologies-Driven Solutions and Services

### Media Content Delivery App

Our client is a Hangzhou-based Cultural and Creative Industries (CCI) company. The services we provide include the development a content management and delivery application targeting overseas users, and the application's deployment on AWS. End user experience and short time to market is key to this project.

#### Highlights:

- The application's design followed a micro-services approach, which is deployed in an EKS cluster to ensure high availability and scalability of all service components.
- Storage of media contents is based on S3, which has strong reliability and vast scalability at a relatively low price.
- With a CloudFront distribution sitting in front of the central application site, global visitors is exposed to a smooth browsing experience.
- All these are transformed form paper to reality in two months.

### Data Warehouse System Re-Platforming

Our client is a Fortune 500 Company in sports footwear and apparel area and is a global leading sports brand. They came to Hengtian for a data governance solution to better manage their central data warehouse, or the legacy Business Intelligence (BI) system.

## Highlights:

➤ We successfully migrated the client's database to a consolidated, trustworthy, and certified cloud-based platform, allowing it to provide transparent reports and dashboards without any duplicate datasets or data silos in response to data analysis demands.

➤ We implemented advanced data-related services to ensure the platform's reliable and consistent performance.

- AWS EMR for big data processing and analysis;

- S3 Buckets for storing and accessing data;

- Airflow for integrating and managing data workflows;

- Snowflake for implementing cloud-based data warehousing solutions.

## Cloud-native transformation (Legacy monolithic application to cloud transformation)

Our client is a global leading company in networking and technology solutions, providing a wide range of products and services to businesses and consumers alike. Since their fixed price management web system for internal use failed to be optimized in the long run, they came to Hengtian for an enhanced version.

## Highlights:

- Adopting the concept of Cloud Native, we delivered web application development and UI modernization services for the project.
- The back-end and front-end of the current system were completely rewritten using Restful API and Micro-Service Architecture.
- The best DevOps techniques of continuous integration (CI) and continuous delivery/deployment (CD) were put into practice.

## Fusion Project

Our client is the world's largest independent hedge fund and private equity administrator, as well as the largest mutual fund transfer agency.

One of the client's core products has been running for more than 10 years, which was architected based on VB.Net and .Net framework. The platform is aged, complex, large, highly coupled and difficult to maintain. The client decided to migrate the old platform to AWS based micro-service architecture to speed develop, deploy, maintenance processes in the future.

### Highlights:

- Cloud Migration is from VB.Net legacy system to .Net core based micro-services platform. The legacy system has not been decommissioned, it lives side by side with the new platform, maintaining continuously synchronized data on both sides through reliable streaming of business events. This opens a flexible time window spanning years that allows the micro-services to

steadily take over the functionalities of the original system while add new features.

➤ An auto scaling service mesh runs the new micro-services with a unified supporting platform managing accounts, credentials, and configurations, monitoring, logging, and rolling updates, allowing for a fast pace agile DevOps cycle.