

## **About YamatoHK**

Yamato Logistics (HK) Ltd., a member of the renowned Yamato Group, is a well-known and leading logistics solution provider of E-Commerce, Electronics parts and Cold Chain operations. Their main business includes international freight forwarding, door-to-door delivery service, logistics service and local/international moving service. The YamatoHK has been serving in Hong Kong for around 40 years now. Aligning with the company's philosophy of enriching the customer experience, Yamato Logistics (HK) Ltd. knocked the doors of Antstack.

## **The Hitch**

YamatoHK Logistics has always ensured the best supply chain solutions and logistics services to bring delight to their customers. As a company that always puts customers on a pedestal, they wanted to migrate to a serverless platform to process more courier shipments in short time, automate their processes in every stage of the delivery cycle and be able to increase scalability without any hiccups on the way.

## **Why Antstack?**

Antstack simplifies technology and provides better solutions to grow businesses and to make a difference. The expertise they have with Amazon Web Services (AWS) and the smooth transition they provide to migrate an application from any existing platform to completely serverless is unparalleled. In the case of YamatoHK, Antstack moved their applications from AWS EC2 to serverless setup without any compromises. Antstack stood with YamatoHK through the entire transition process, went beyond and took further steps to ensure their easy adaptation to serverless platform.

## **The Journey...**

YamatoHK are in the business that needs a quick response rate in the real-time. With growing business, they saw the need to migrate two of their systems, Parcel Management System (PMS) and Warehouse Management System (WMS) from existing platforms to a much better one in all aspects in order to serve their customers in a reliable and much efficient way. PMS as a system caters to providing details of the booked parcels so that the customers can track the status of their booking along with the information on shipping and scheduled arrival. WMS is a system that

deals with inventory management and tracking in the warehouse. Both these systems are vital to YamatoHK to serve their customers and they wanted to make these systems more robust with the state-of-the-art Cloud technology offering. Antstack made this upgradation quick for YamatoHK and the serverless setup of PMS and WMS was up and running in 6 months. Customers with their ever-evolving lifestyles look for services that suit their necessities. A positive user experience ensures greater business opportunities in return and in-turn it becomes the USP of the company. It is the need of the hour to provide innovative logistics to serve them better.

### **Physical Servers bothered; Serverless bettered!**

Earlier, YamatoHK had their PMS application run on Physical Servers or Virtual Machines (VMs). “While running the server in Hong Kong, the process had many bottlenecks and single-point failures due to hardware issues. We were running our applications on a physical server and wanted to migrate to newer technology for a more stable service”, said Samson Yu Chun Pong, \_\_\_\_\_ at YamatoHK. The serverless set-up offered more stability and the efficiency significantly improved. Hardware maintenance, a painful concern, was eliminated by going serverless and this resulted in considerable cost reduction as well.

### **Tedious Manual tasks to Simple Automated tasks**

Before going serverless, YamatoHK had to do many tasks of PMS and WMS manually like scanning a parcel, adding its details to the system, updating the details of each stage of the package transition and inventory report generation. Going serverless not just helped YamatoHK, but helped their customers equally. While YamatoHK could scan, add and update information of more number of packages in less time with ease, their customers could track these updates in real-time at their convenience. Inventory report generation is dynamic and can be quickly downloaded at any point of time.

### **Furthered facilitation**

Antstack worked on this project of YamatoHK and migrated their applications to a serverless setup; Antstack’s role did not end there. They extended support to YamatoHK by providing knowledge transfer sessions and assisting them for an extended time too. This association has enriched YamatoHK’s technical team in gaining knowledge on other aspects of AWS. “We

wanted to partner with AntStack to leverage their expertise, grow our team and focus on AWS. Developers in HK are rare and very expensive. Working in collaboration with the AntStack team, our team gained a lot of experience in backend Lambda, step function, API gateway deployments, group template using SAM CLI and confirmation, technology related to security, and much more”, said Samson. The source code management tool used by YamatoHK is Bitbucket and Antstack built the CI/CD pipeline to automate the build and deployment of applications. Both front-end and back-end applications for YamatoHK are deployed on a serverless setup.

### **Improved efficiency and Increased scalability**

The serverless setup has benefitted YamatoHK on multiple fronts. The new setup has reduced the cost to YamatoHK by 83.3% and the value is exceptional. YamatoHK Logistics spent around \$3000 with the old application to maintain the database and windows server every month. With the new serverless application solution, co-engineered by YamatoHK and Antstack, the cost falls under \$500 for running both PMS and WMS applications. The serverless setup is more resilient than the physical server setup. Catering to customers’ logistical concerns across the world, YamatoHK could not have compromised on this aspect at all. YamatoHK is also able to process more number of parcels per day across all global regions. They have immensely up-scaled delivery figures. The serverless setup fastens the speed of development as it takes comparatively lesser time to build new systems and onboarding of more customers is possible.

**Antstack optimized the entire process of migration and ensured hassle-free functioning of applications for YamatoHK. Successful deployment of this project is another feather on the cap for all the ants at the Antstack colony.**