



fengqi.asia
風起亞洲

Profile

Company

Airhuxi

Location

HongKong

Segment

Mobile application

Website

www.airhuxi.com



爱呼吸

Introduction

AirHuXi is the only mobile app in China providing PM2.5 air quality index (AQI) forecast. A sudden increase of interest in air pollution saw AirHuXi's daily download grow by 670% overnight. Fengqi Asia provides the ability to instantly scale resources. Instead of dealing with a dramatic increase of active users leading to capacity issues, AirHuXi was able to focus its energy on product development.

To enable people to better protect themselves from smog, the AirHuXi team needed to solve a series of complex scientific problems. Not only did they devise a scientific computing model, extensive experience in data mining to process and analyze a massive amount of data on environmental meteorology and pollutant emissions was required. To maximize forecast accuracy, AirHuXi integrated the country's leading data analysis, big data and cloud computing technologies.

The Challenge

AirHuXi's primary market was China. AirHuXi needed to ensure low latency in content delivery, so that the users could quickly receive important information about the PM2.5 forecast.

To ensure forecast accuracy, a number of high performance cloud servers were required for its sophisticated computational analysis.

AirHuXi also needed to ensure they had a scalable solution in place as they looked to include more cities in their forecast. Within 6 months, AirHuXi expanded its forecast coverage from 20 cities to 180 nationwide (as of Feb 2015).

The Solution

Fengqi Asia's powerful servers were already capable of supporting sophisticated computational analysis. Of particular importance was Fengqi Asia's high performance CPU and I/O, which was 2x and 15x faster than other operators respectively. This was utilised to process a massive amount of data within a short window of time.

When AirHuXi found itself in a position to accommodate exponential user growth, Fengqi Asia increased hosting capacity by deploying additional servers and boosting computation power. In this seamless upgrade, AirHuXi did not experience any significant outages or downtime on Fengqi Asia.

Fengqi Asia's POP coverage in China is extensive; also, its data centers in Beijing and Shanghai were armed with Multi-BGP lines to all major telcos in China, ensuring fast data access.



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