

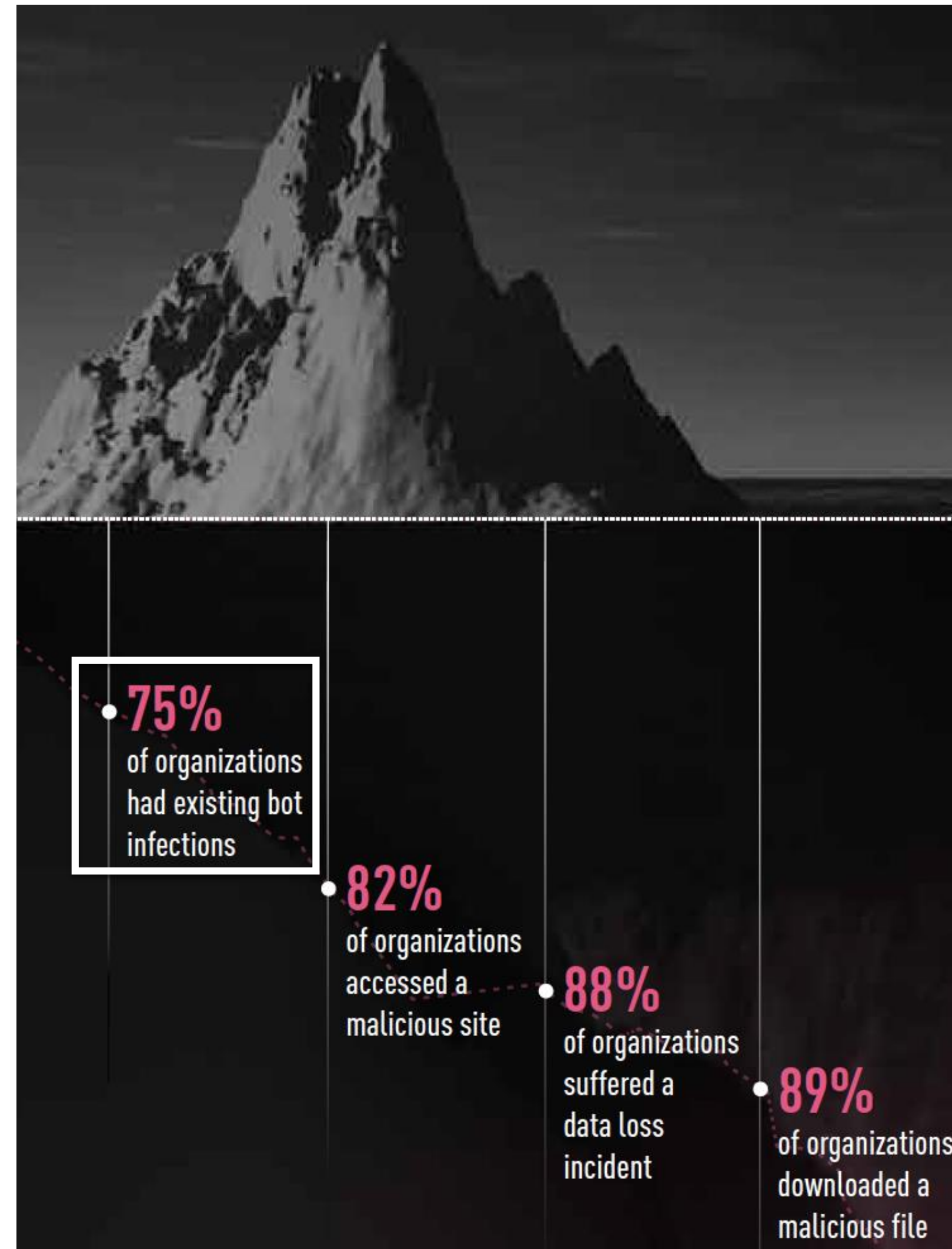
Same Dream, New Inspiration

Alibaba Cloud - Worldwide Cloud Services Partner of the Olympic Games

Anti Bot For Aviation Industry

More Than Just Cloud

The Bot malicious Attack Increase Sharply in the world



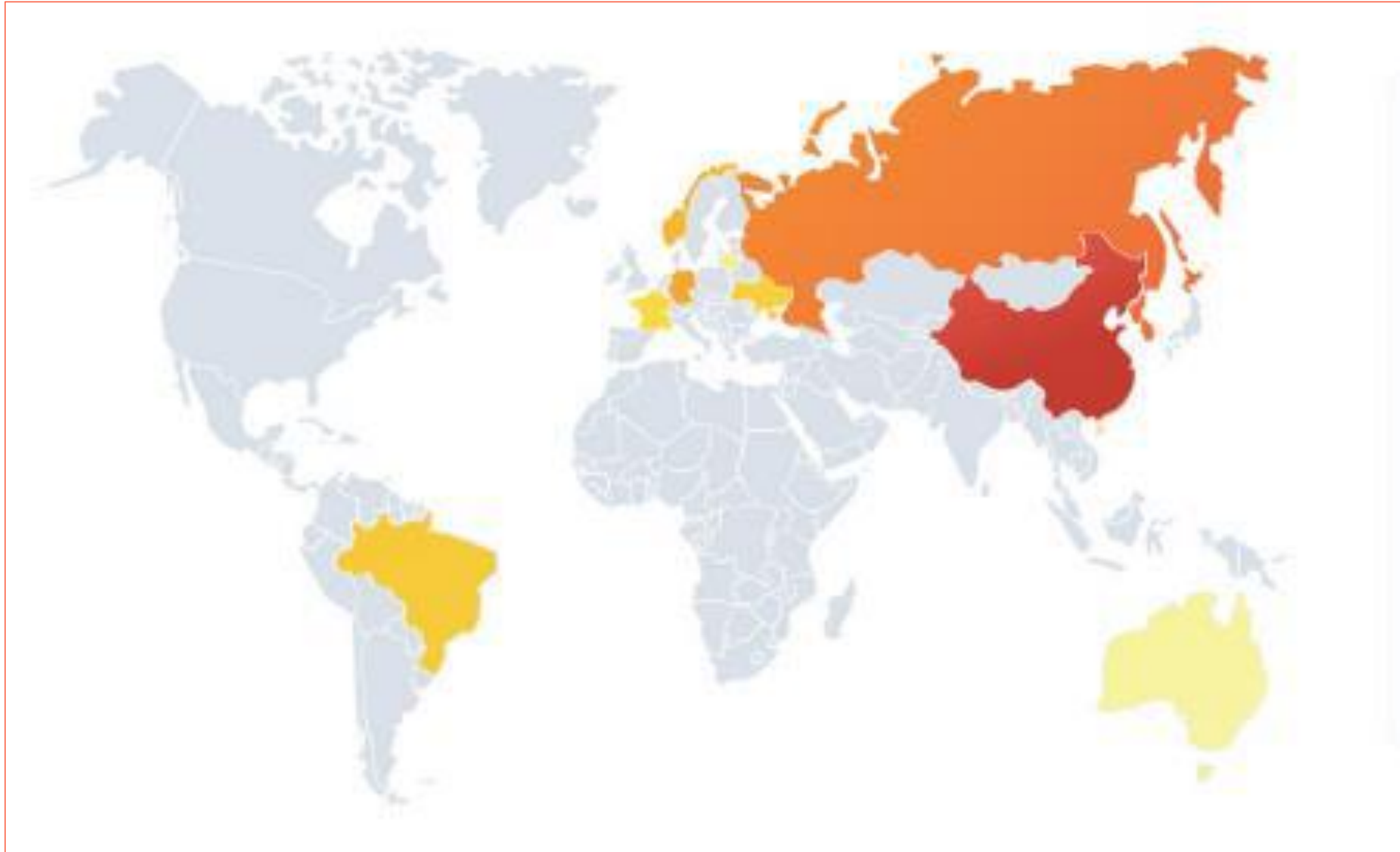
In 2016, a typical bot attempted to communicate with its command and control (C&C) server over **1,630** times per day, or once every **52.8** seconds. This speed and frequency continues to increase, jumping **12%** from the previous year, and **95%** more than in 2012.

While bot infection levels were down almost **10%** in 2016 from 2015, the numbers are still troubling. Almost **75%** of organizations studied were infected with bots in 2016, with **44%** of those active for more than four weeks.

Data Resource: Check Point 2017 Security Report

The Global Bot malicious Attack Statistic

The Thermodynamic Chart
Of The Global Bot attack source



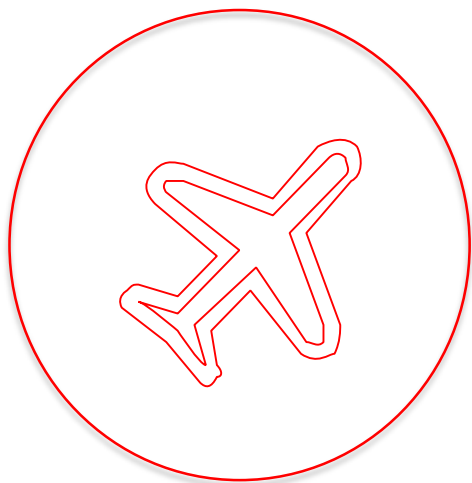
Data Resource: Check Point 2017 Security Report

- Over 75% attack coming from Greater China Region
- **German** is also typical bot attack source
- Top 3 industry which easily encounter the bot attack are **Aviation**, **E-commerce** and **Real Estate**

RECOGNIZED BOT ATTACKS TYPE

FAMILY	DAMAGE	PERCENT
SALITY	Steals sensitive information	18.6%
CONFICKER	Disables system security services, gains attacker remote access	18.6%
ZEROACCESS	Allows remote operations and malware download	6.7%
CUTWAIL	Spreads spam	5.1%
GAMARUE	Opens a backdoor for attacks	3.0%
ZEUS	Steals banking credentials	2.7%
LDPINCH	Steals sensitive information	2.1%
DELF	Steals authentication credentials	1.1%
RAMNIT	Steals banking credentials	1.0%
GRAFTOR	Downloads malicious files	0.9%

3 Top Industries attacked By Bot



Aviation

- Ticket on-hold
- Low attendance rate
- Revenue loss



E-Commerce

- Product Price Crawler
- Product Lineup Crawler



Real Estate

- Real estate DB Crawler
- Competitor business analysis

The Aviation Industry Anti Bot Attack Scenario

AirAsia Anti Bot Case Study

AirAsia was under constant BOT attack overwhelming the backend servers resulted in significant expenses



AirAsia Berhad *is a Malaysian low-cost airline headquartered near Kuala Lumpur, Malaysia. It is the largest airline in Malaysia by fleet size and destinations. AirAsia Group operates scheduled domestic and international flights to more than 165 destinations spanning 25 countries.*

AirAsia *had more than **50%** of the global traffic flowing from China, when only less than **10%** of the total revenue was attributed to that traffic.*

Most of the traffic was either concentrated Bot attacks or hackers trying to scrap information from AirAsia websites trying to sell them in the Black Market.

The Aviation Industry Anti Bot Attack Scenario

AirAsia Anti Bot Case Study: Business Value Loss

High traffic volume but brings low income, as well as impact to customer experience

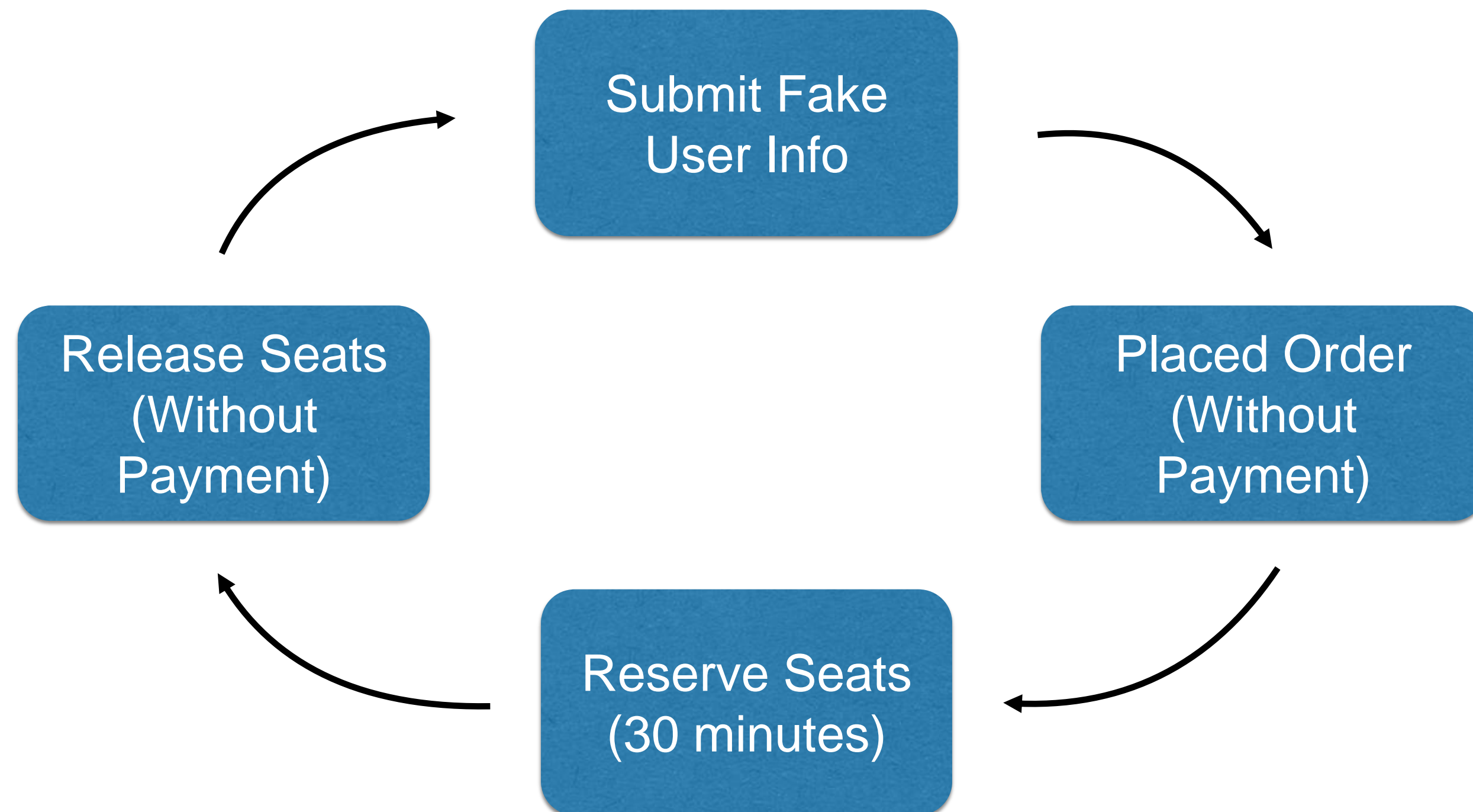
Lots of Malicious Traffic

- Fake User Info
- Taking more than 10s to load sites
- With un-explainable usage statistics

Million Dollar Revenue Loss

- Tickets always on-hold
- Low Attendance Rate
- Customer Loyalty Decrease

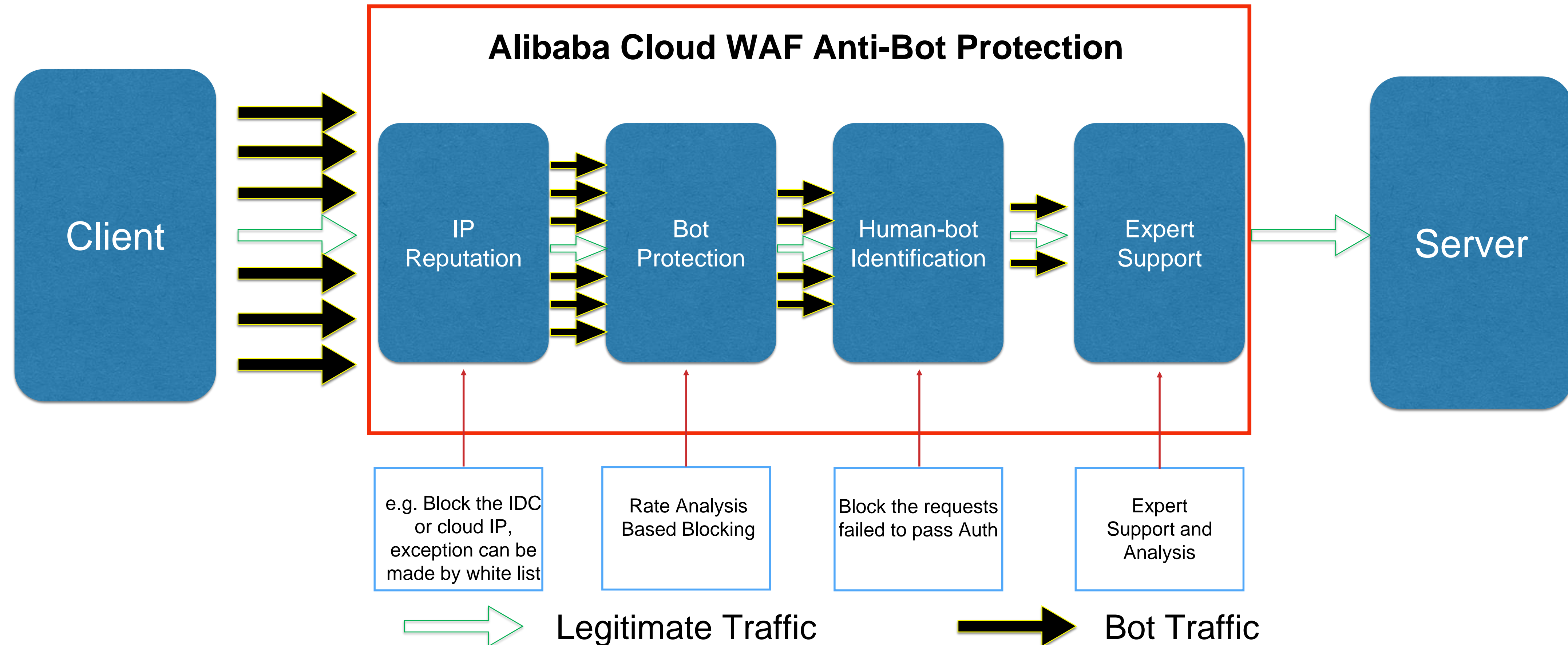
Hackers holding on to legitimate seats also put a lot of price pressure on AirAsia and its customers



The Aviation Industry Anti Bot Attack Scenario

AirAsia Anti Bot Case Study: How to Anti Bot?

Alibaba Cloud employs the award-winning security products and the professional security services

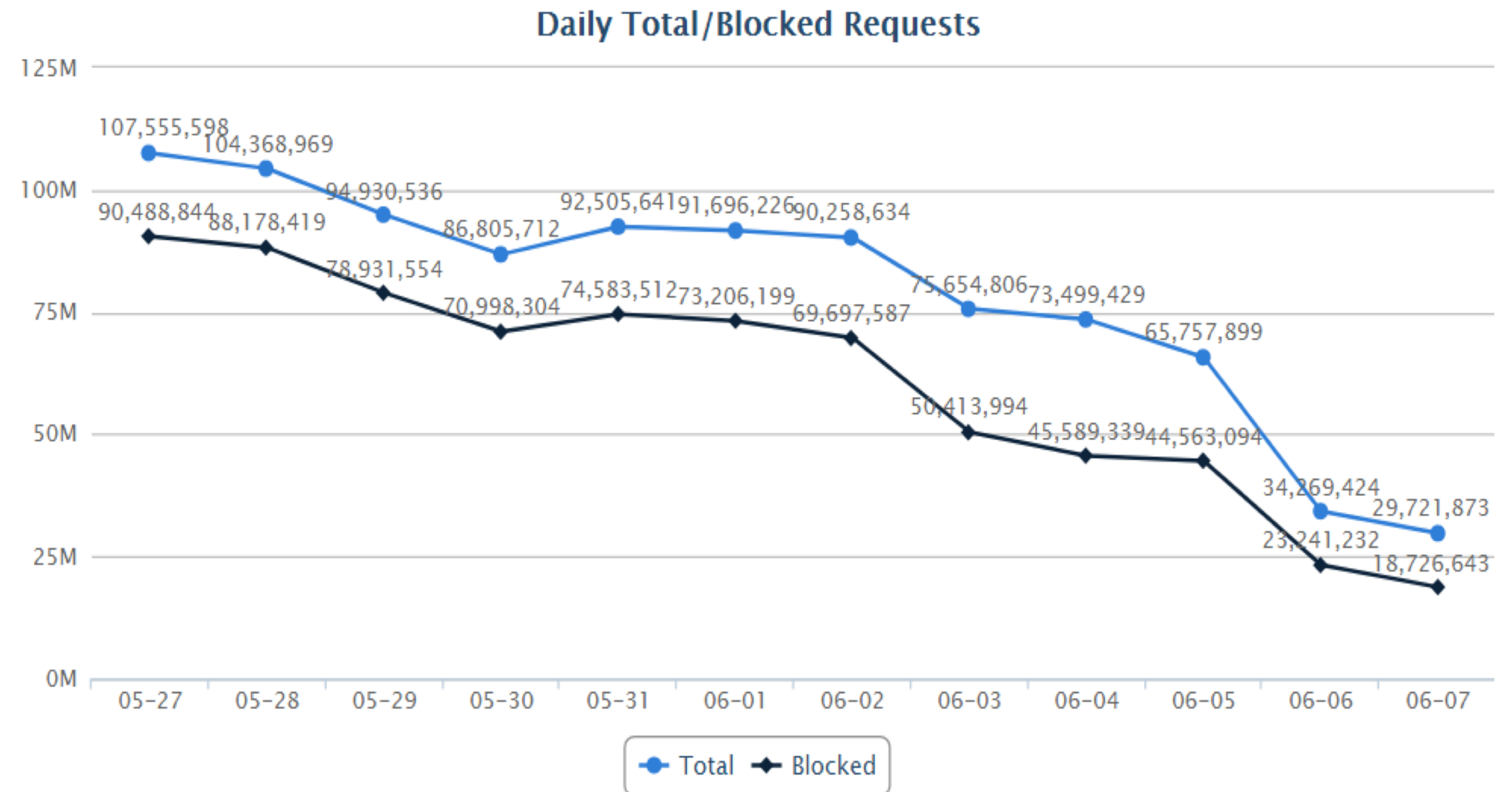


The Aviation Industry Anti Bot Attack Scenario

AirAsia Anti Bot Case Study: How About The Result?

The significant results achieved by the security solutions from Alibaba Cloud

- At the end of the **14 Day PoC**, average interception rate of bad traffic was **75%**
- PoC was successful with illegitimate traffic down by **72%**
- Employ the extensive CDN network on Alibaba Cloud in China
- Employ the award-winning security products from Alibaba Cloud
- Employ the professional security services from Alibaba Cloud



The Aviation Industry Anti Bot Attack Scenario

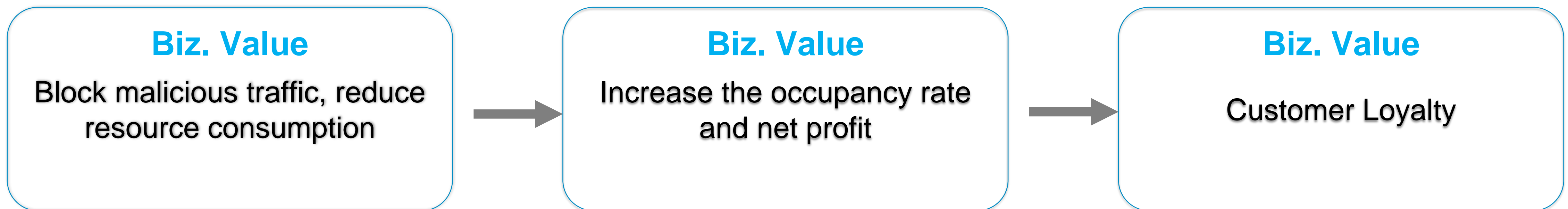
AirAsia Anti Bot Case Study: Decision To Alibaba Cloud!

AirAsia decided to move all the protection of its source systems to Alibaba Cloud



“We need Alibaba Cloud continue to give us the support and assistance in fixing our issues.”

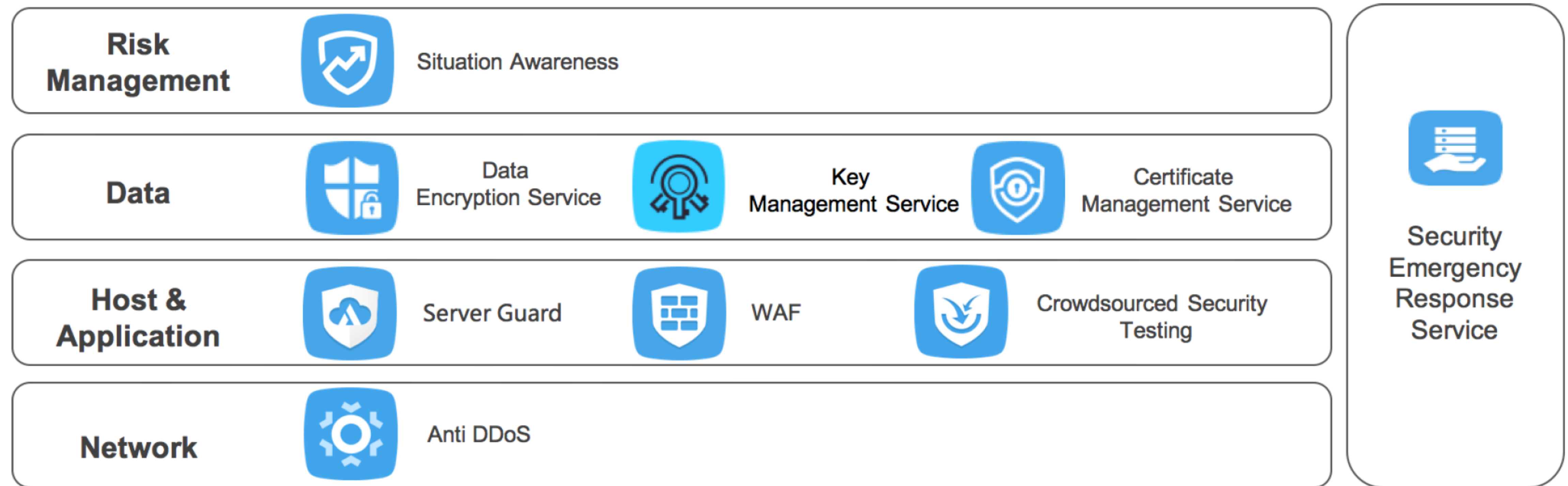
Declan –AirAsia Group CIO.



More Than Just Cloud

Alibaba Cloud Security Service Family

Anti Bot is one important function of WAF product. Alibaba Cloud can provide all-around Security Protection for you



More Than Just Cloud

