CUSTOMER FLIGHT JOURNEY TO CLOUD ENABLEMENT JOURNEY

Kenneth Lee – General Manager, IT Solutions Simon Lee – Infrastructure Engineer

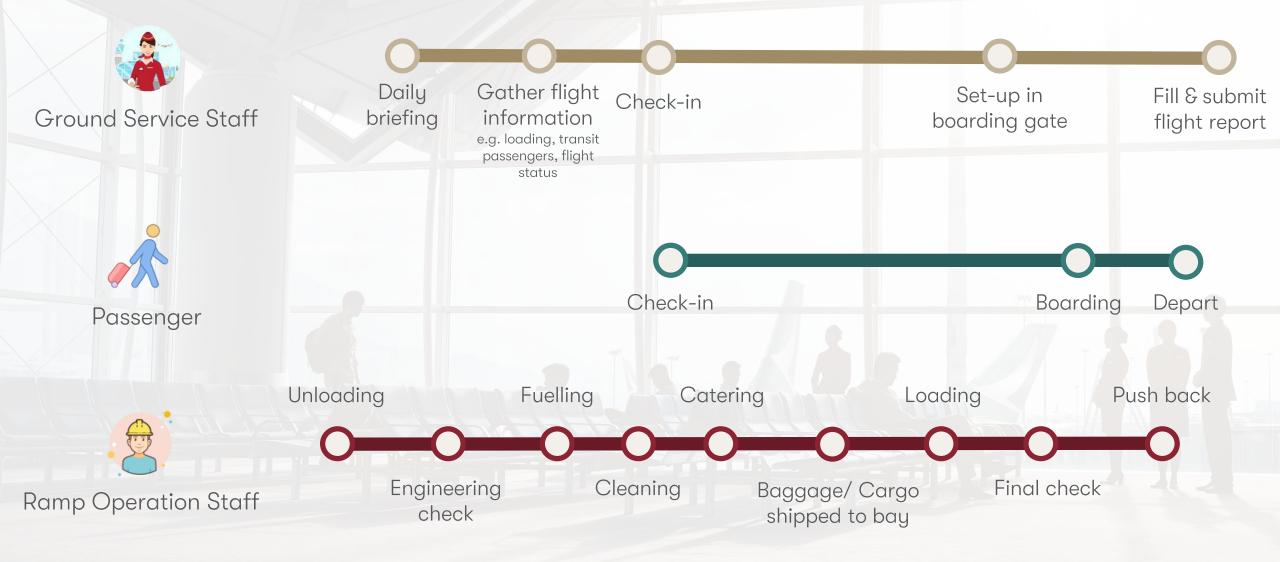
CATHAY PACIFIC

Cathay Pacific Group has over...

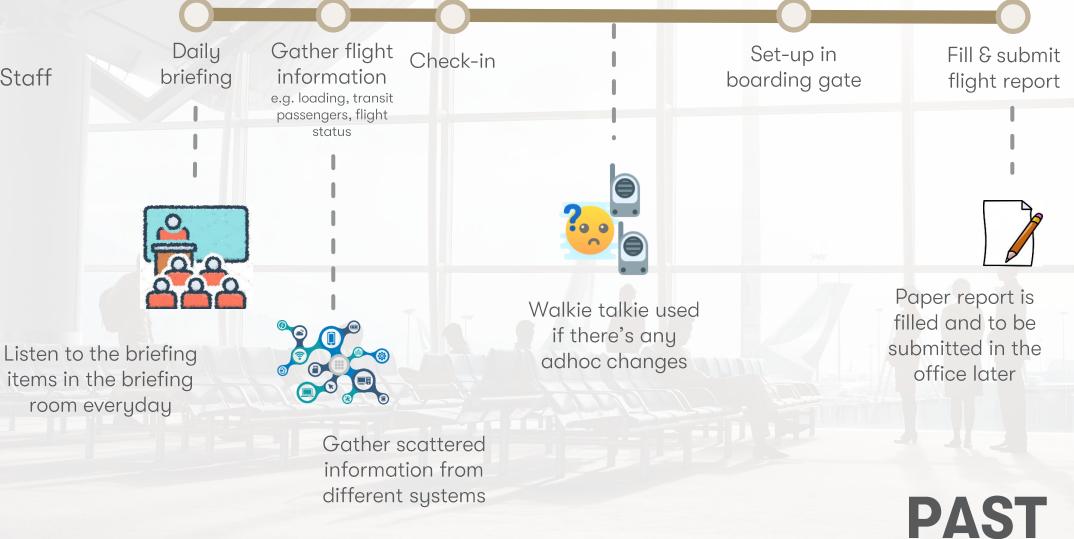
Swire

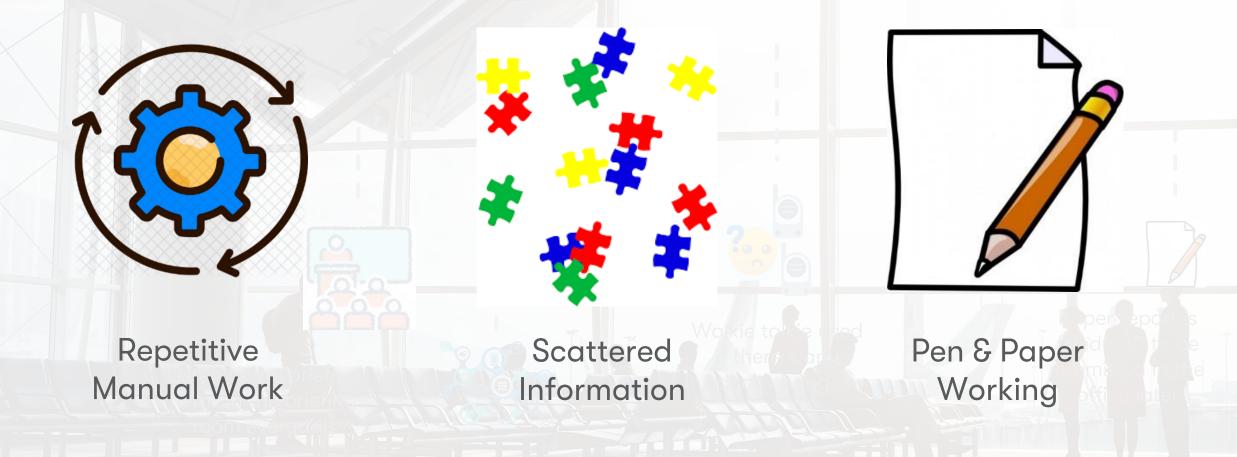
30 departments 70 destinations 190 aircrafts 1000 applications

FLIGHT JOURNEY



Ground Service Staff





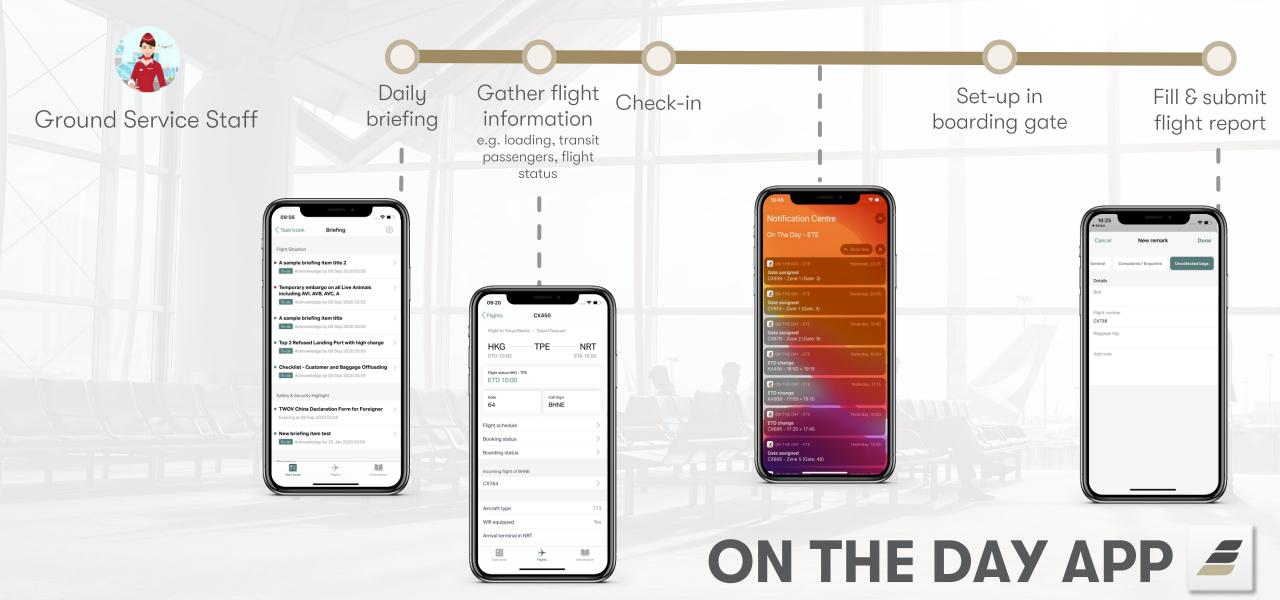
PAIN POINTS

How digital transformation helps?

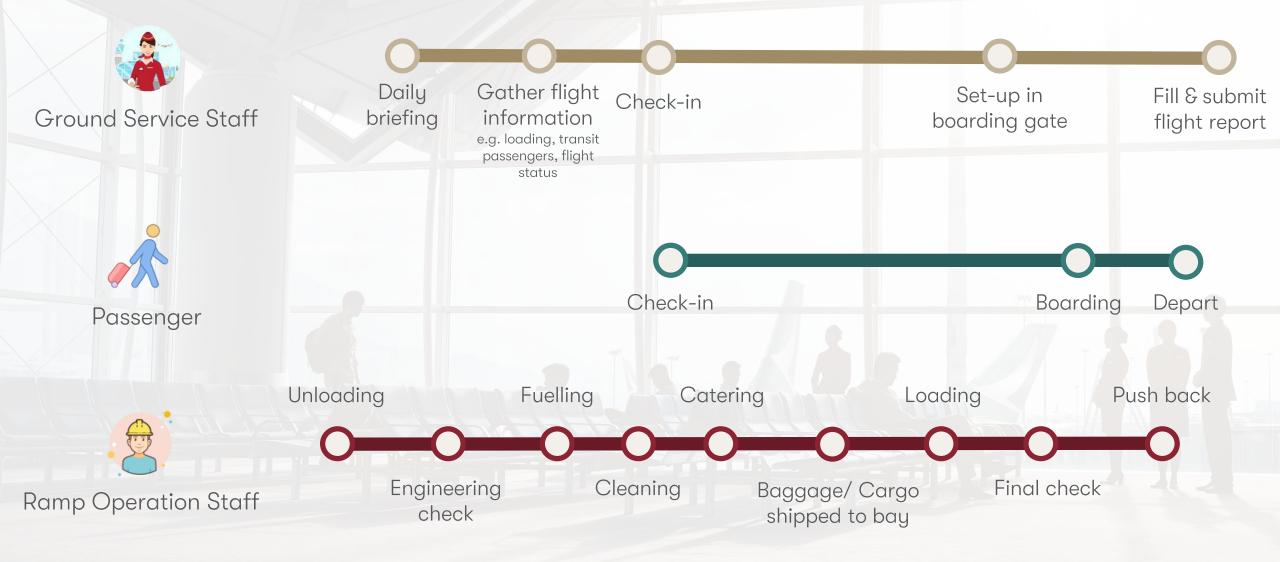
Repetitive Manual Work Scattered Information

Pen & Paper Working

PAIN POINTS



FLIGHT JOURNEY







Congested ramp activities

CATHAY PACIFIC CATERING SERVICES



Manual coordination

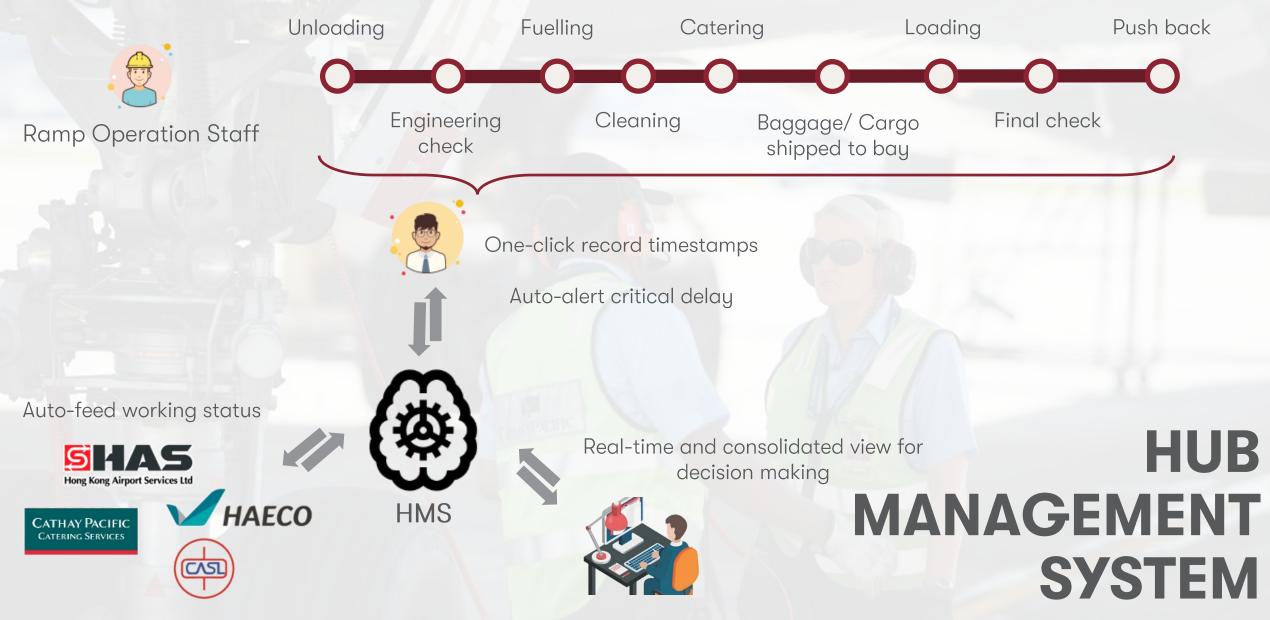
PAIN POINTS

How digital transformation helps?

Congested ramp activities

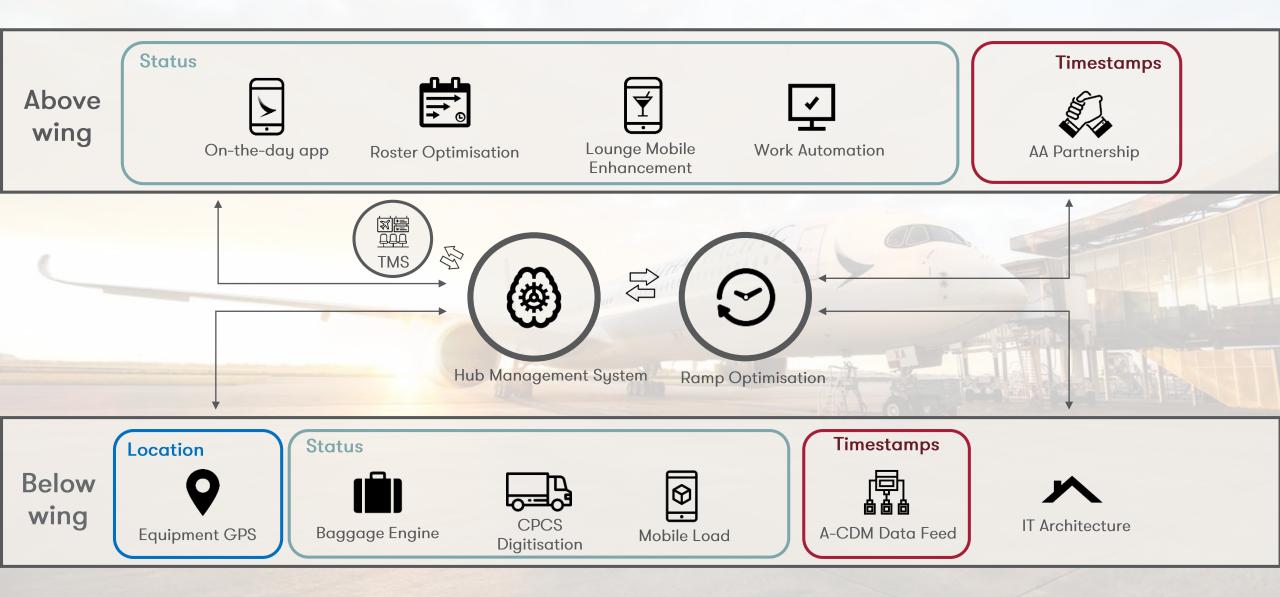
Manual coordination

PAIN POINTS

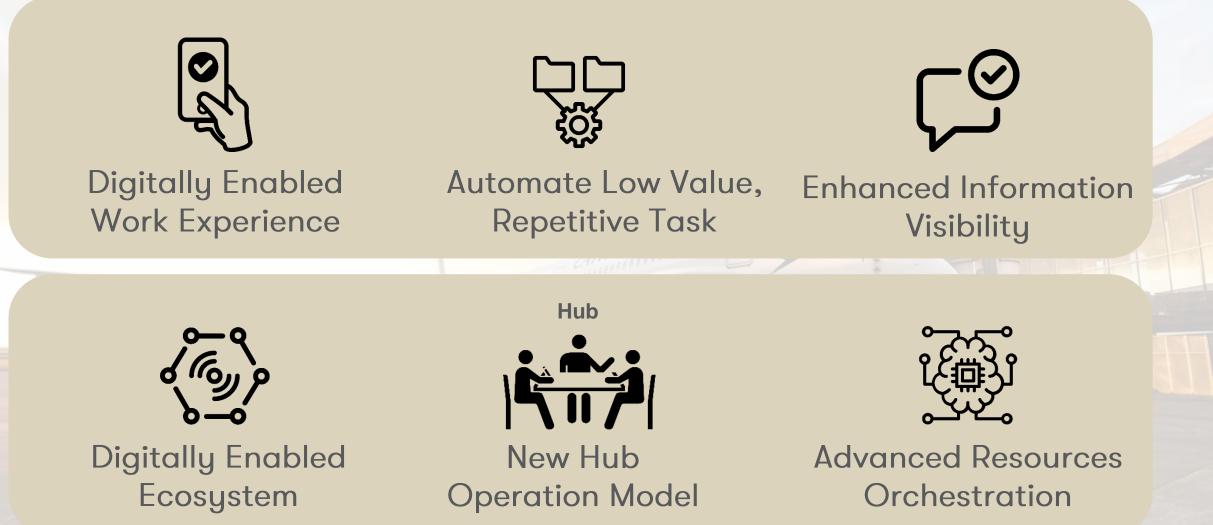


AIRPORT DIGITAL BLUEPRINT

Status
Timestamps
Location



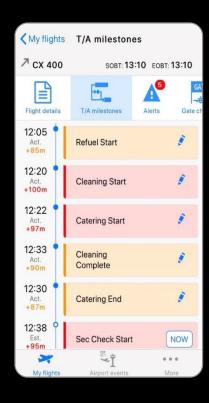
VISION



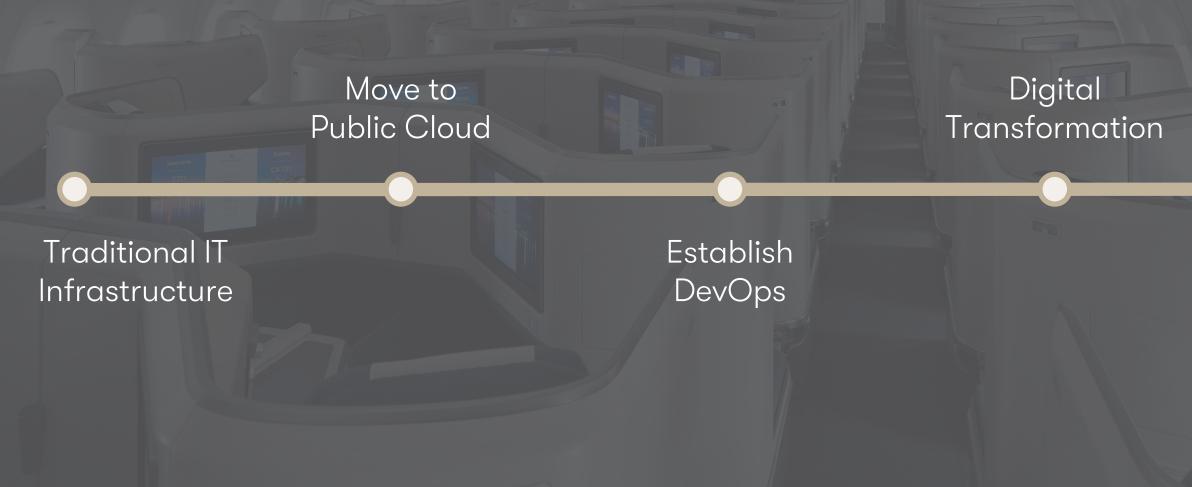


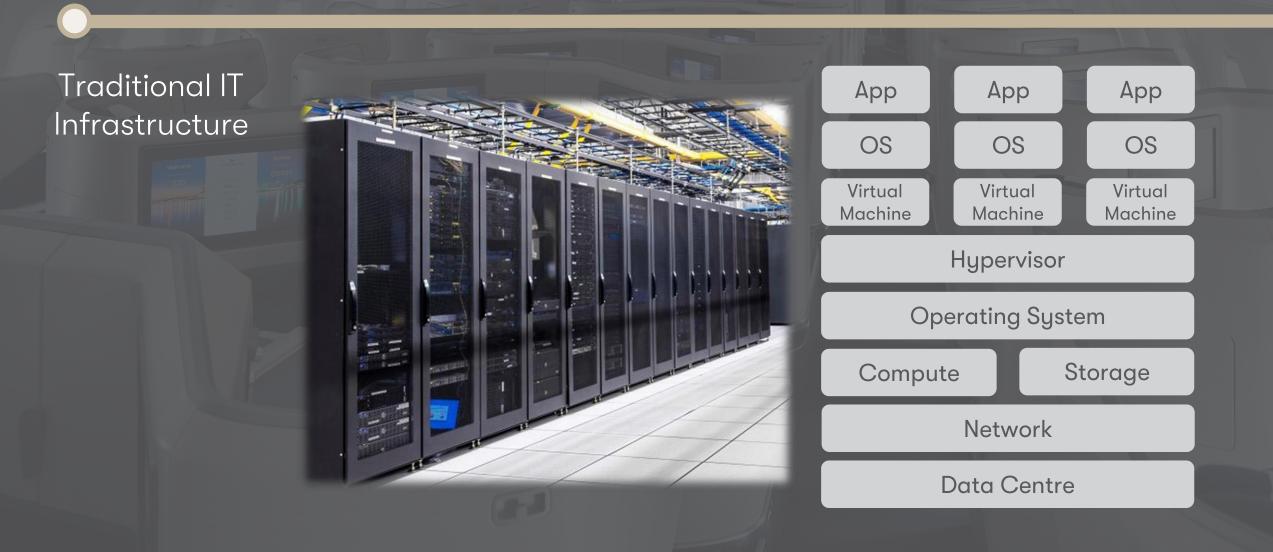
< Flights		
	CX450	
Flight to Tokyo/Narita	Taipei/Taoyuan	
HKG STD 10:00	TPE	NRT STA 16:50
Flight status HKG - TPE ETD 10:00		
_{Gate} 64	Call Sign BHNE	
Flight schedule		>
Booking status		>
Boarding status		>
Incoming flight of BHNE		
CX764		>
Aircraft type		773
Wifi equipped		Yes
Arrival terminal in NRT		
Task book	Flights	Information





DIGITAL TRANSFORMATION





TO BUILD



TO BUY

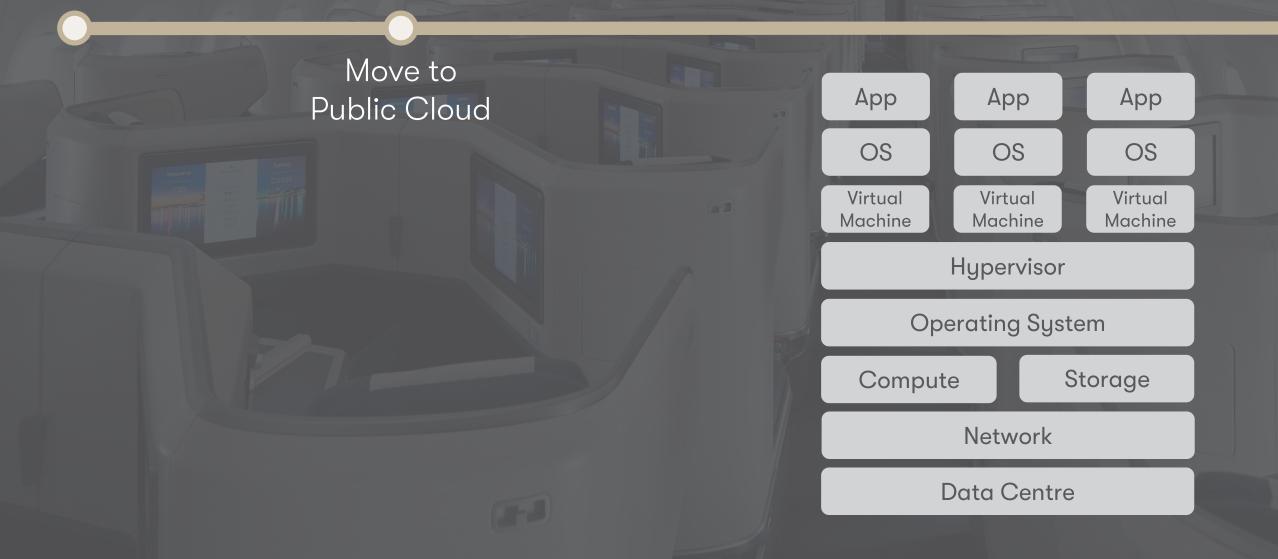
TO BUY

Why build a house when you can buy?

Move to Public Cloud











Establish

DevOps

Hello VERA!



Copyright 🖓 © Cathay Pacific Airways Limited 國泰航空有限公司

07 Oct 09:10

Hi, I'm Vera, your non-human chatbot assistant. I'm here to answer questions about your upcoming journey with **Cathay Pacific** or **Cathay Dragon**

To help me better assist you, please

- Choose from the option buttons whenever possible
- Or ask short and simple questions e.g. Can I bring pets?

What would you like to ask me about?

Baggage allowance

Flight status

Check-in counter



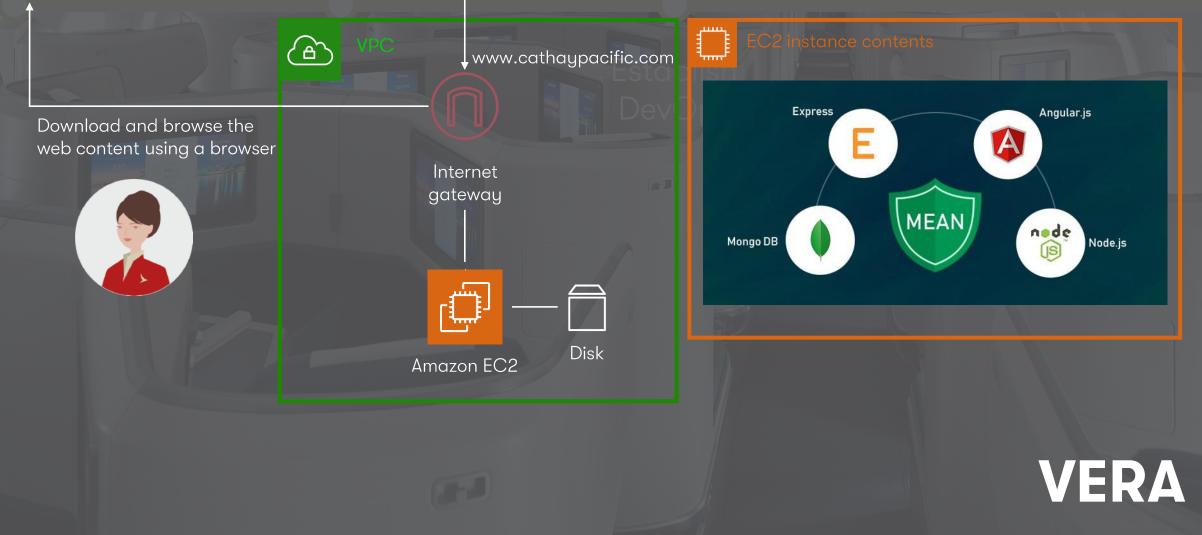
Vera chatbot assistant Cathay Pacific

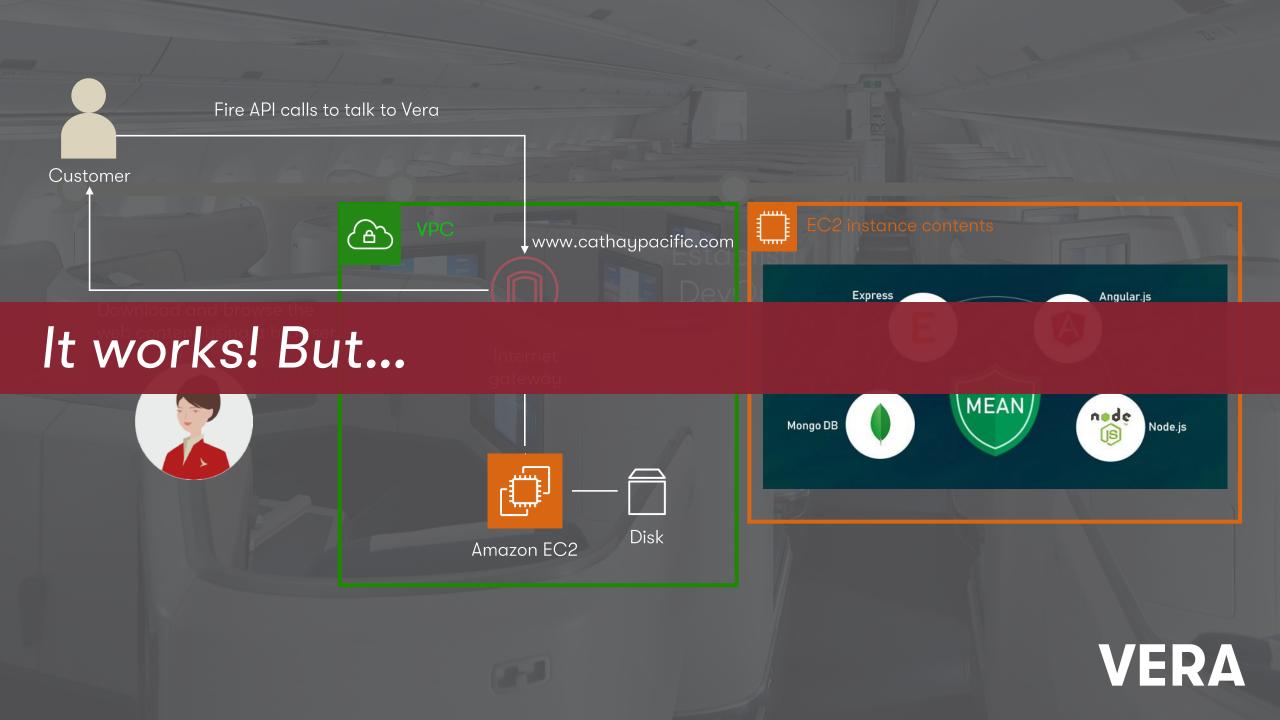
Welcome to the chat. Our chatbot assistant Vera can help you with enquiries about baggage allowance, extra baggage charges and flight status for your upcoming trip with **Cathay Pacific** or **Cathay Dragon**.

Simply select from the **options buttons** or **input short sentences** to start your query.

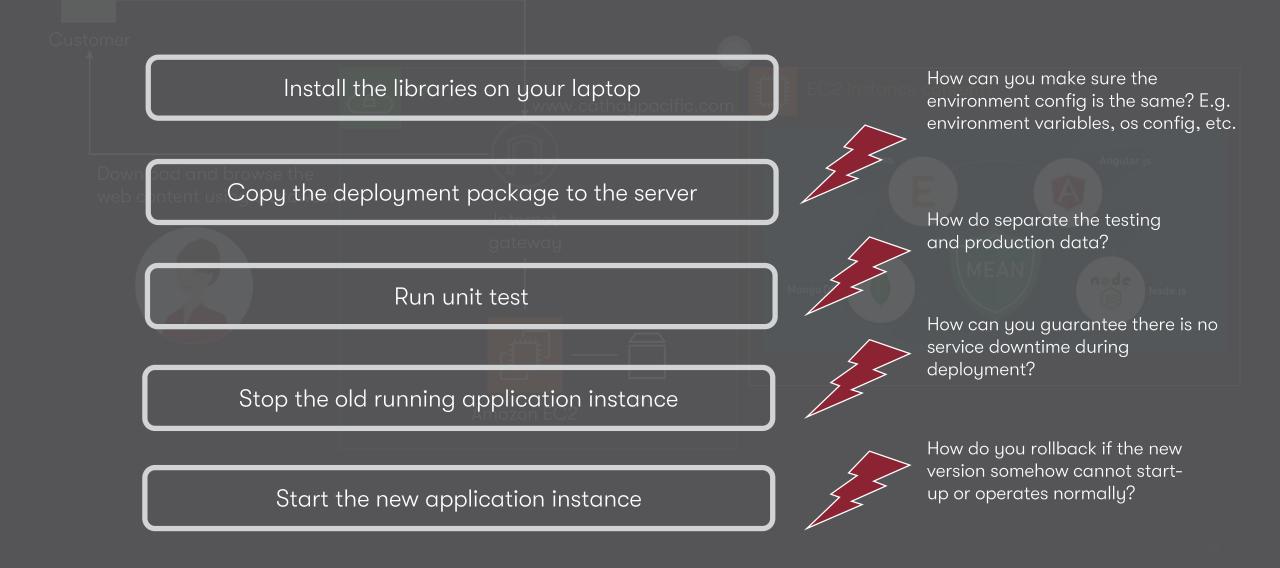
Fire API calls to talk to Vera

Customer



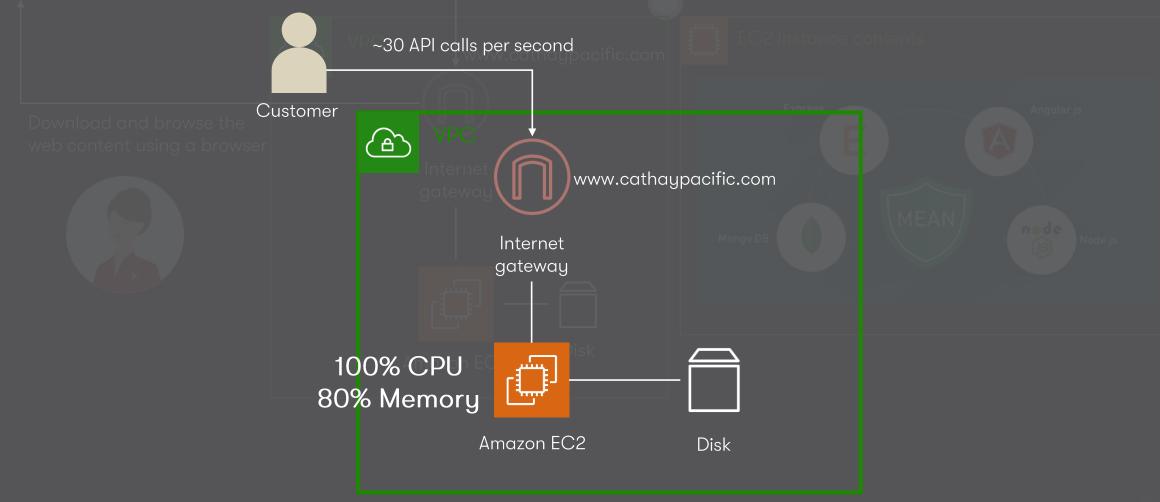


How to deploy a new version of application?



How to ensure Availability and Scalability?

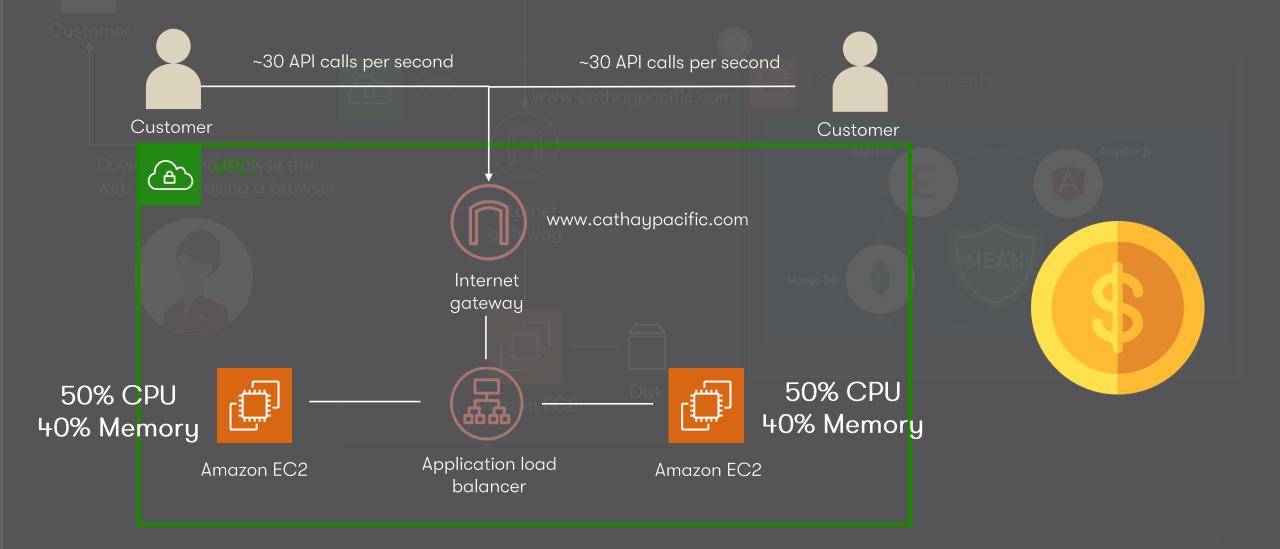
Customer



How to ensure Availability and Scalability?

~30 API calls per second Customer Customer www.cathaypacific.com Internet gateway 100% CPU 80% Memory Amazon EC2 Disk

How to ensure Availability and Scalability?



Enable the Cloud, work in the same way?

Customer

Deploy New Version

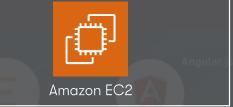
Download and browse the web content using a browse

Scalability & Availability

Production Environment



Testing Environment for deploying new version



We expect at most 10 customers would use the chatbot



CONTAINERISED INFRASTRUCTURE

Virtual Virtual Machine Machine

Virtual Machine ۱Ü

Amazon EC2

Amazon EC2

رڳ

Amazon EC2

O ŋ Amazon EC2

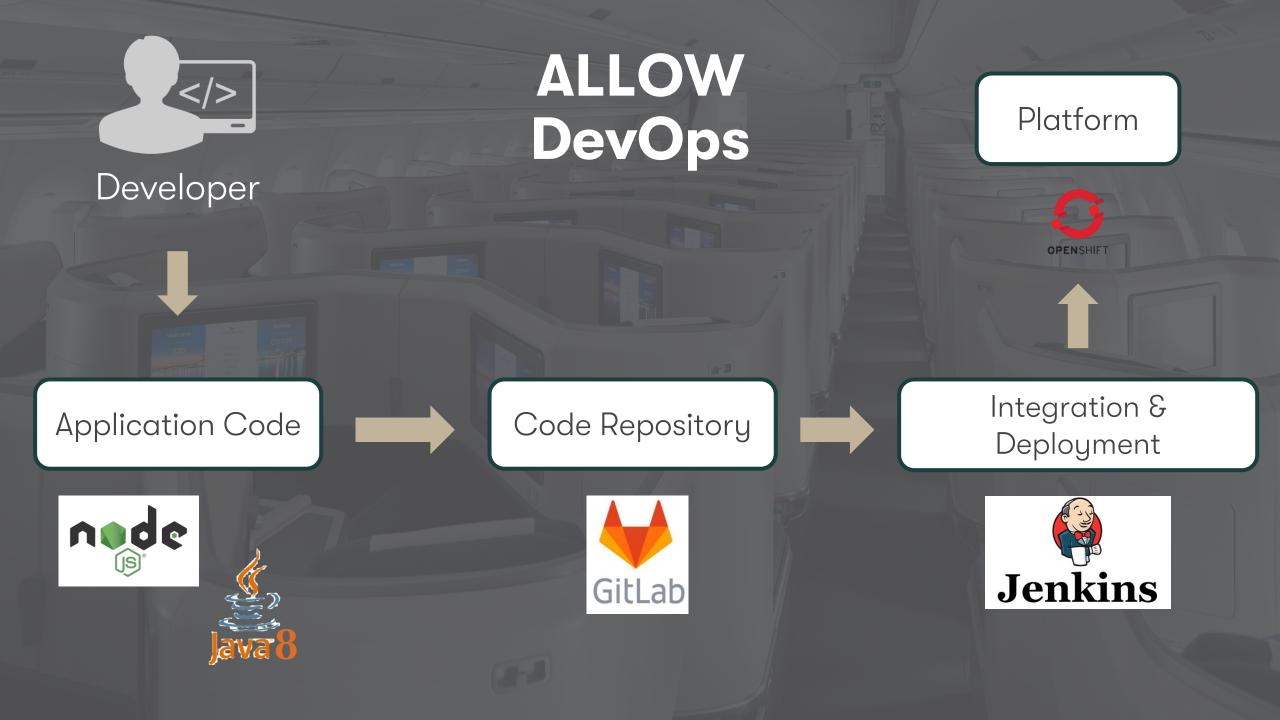
Auto Scaling

Public Cloud Infrastructure



CONTAINERISED INFRASTRUCTURE





Traditional IT Infrastructure

Move to Public Cloud

Establish DevOps Digital Transformation

Cloud Experts



Focus on Implementing the foundation DevOps Team



Focus on Automate & Governance

Agile Product Team



Focus on Business Value creation

BUILD WITH FOCUS

Traditional IT Infrastructure Move to Public Cloud Establish DevOps Digital Transformation

FASTERTIME TO MARKETMOREWORK DONENEWTECHNOLOGIESMULTIPLEBUSINESS USE CASES

THANK YOU



Please scan the QR code to know more

CATHAY PACIFIC