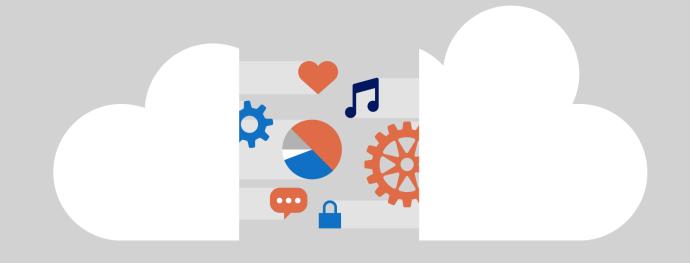


Mr. Fred Sheu National Technology Officer, Microsoft Hong Kong



Agenda: Make the journey to the trusted cloud – painlessly

The impact of cloud computing in your organization

Defining your priorities

The journey to the trusted cloud

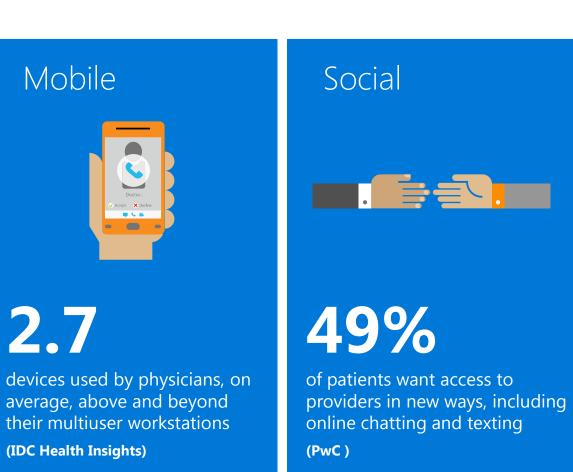
The role of Microsoft in cloud computing

Digital health: harnessing the power of change

Entering an innovative, transformative era for healthcare







A journey that starts with your mission



The next step: linking your mission to potential improvement projects



Maximum quality of care

Document management and workflow, business analytics



Patient engagement

Patient portal with some of the patient's EMR information and other preventive care information



Lower costs/ streamlined operations

On-premises to the cloud, predictable cost per study/intervention



Internal education

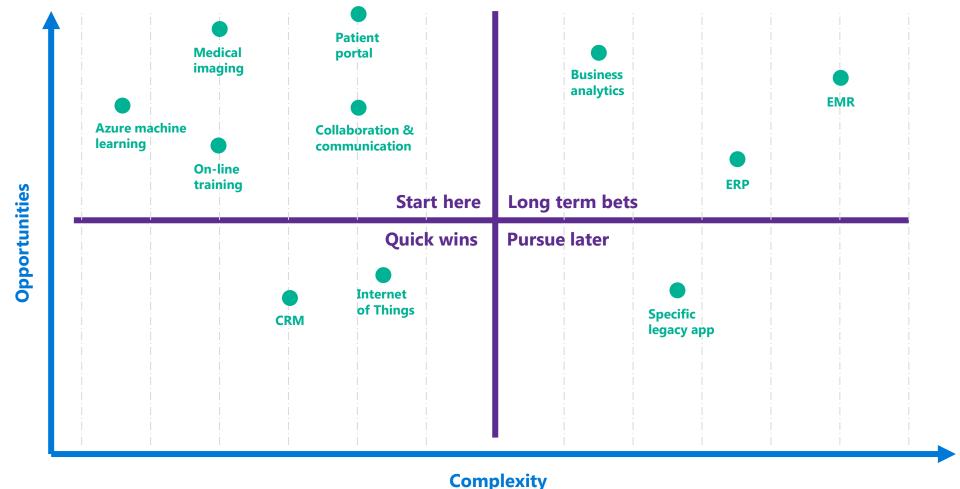
Online training



Innovation and research

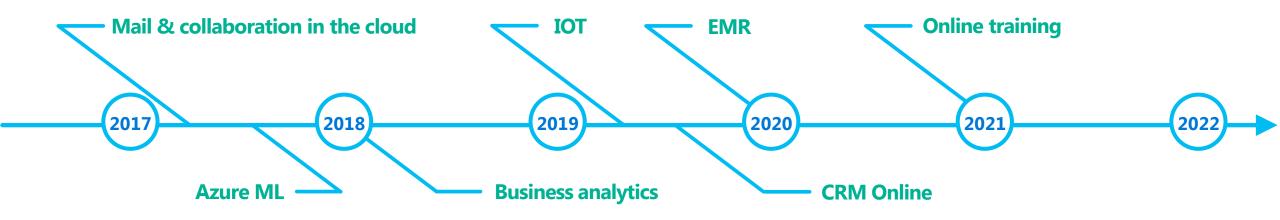
Precision health, Internet of Things

Use of the cloud is a progressive journey



Begin with projects that fit your needs today and allow you to follow a transformational path and pace to the cloud that fits your organization.

Transform the care continuum Creating an implementation roadmap





What have others done with the Microsoft Cloud Platform?

Enable application innovation



- Health and clinical research
- Genome sequencing and precision medicine
- Fraud claim detection

Transform the datacenter



- Storage of medical images
- Hybrid deployment of clinical apps
- Disaster recovery of apps and data
- Patient portals in the cloud

Create the Internet of Your Things



- Remote patient monitoring
- Predictive maintenance of clinical devices
- Device and patient tracking
- Smart building

Unlock insights on any data



- Clinical analytics
- Operational analytics

Empower enterprise mobility



Secure cloud-based support for the mobile health worker

What can you do with the Microsoft Cloud Platform?

Transform Unlock Enable Create Empower application the datacenter insights enterprise the Internet innovation of Your Things on any data mobility ***** GOJO 1 Fortis optolexia Dartmouth-Hitchcock MEDICAL CENTER

Local use cases

HKSTP Incubatee Applied Technology Partners with Microsoft Hong Kong and Hong Kong Health Check Group to Launch New One-stop Personal Healthcare Management Solutions "HealthMe•2"

Jun 11, 2019 | Doris Hui





June 11, 2019, Hong Kong – Applied Technology Group (Applied Technology), an incubatee of Hong Kong Science and Technology Parks Corporation (HKSTP), today launched two new smart healthcare innovations – Health-Me2 Mobile App and Smart Wristband EWB-1010. As a clinic solution provider, Applied Technology co-developed the new solutions with Microsoft Hong Kong and Hong Kong Health Check Group & Medical Diagnostic Center Limited (HKHC), with a mission to help users embrace a brand-new smart



Hong Kong University and Microsoft Collaborates, For AI Research



The Siliconreview 27 August, 2018



Trusted Cloud Principles

Our commitments to your organization



Security

we will implement strong security measures to safeguard your data



Transparency

We will explain what we do with your data in clear, plain language



Compliance

We will help you meet your specific compliance needs

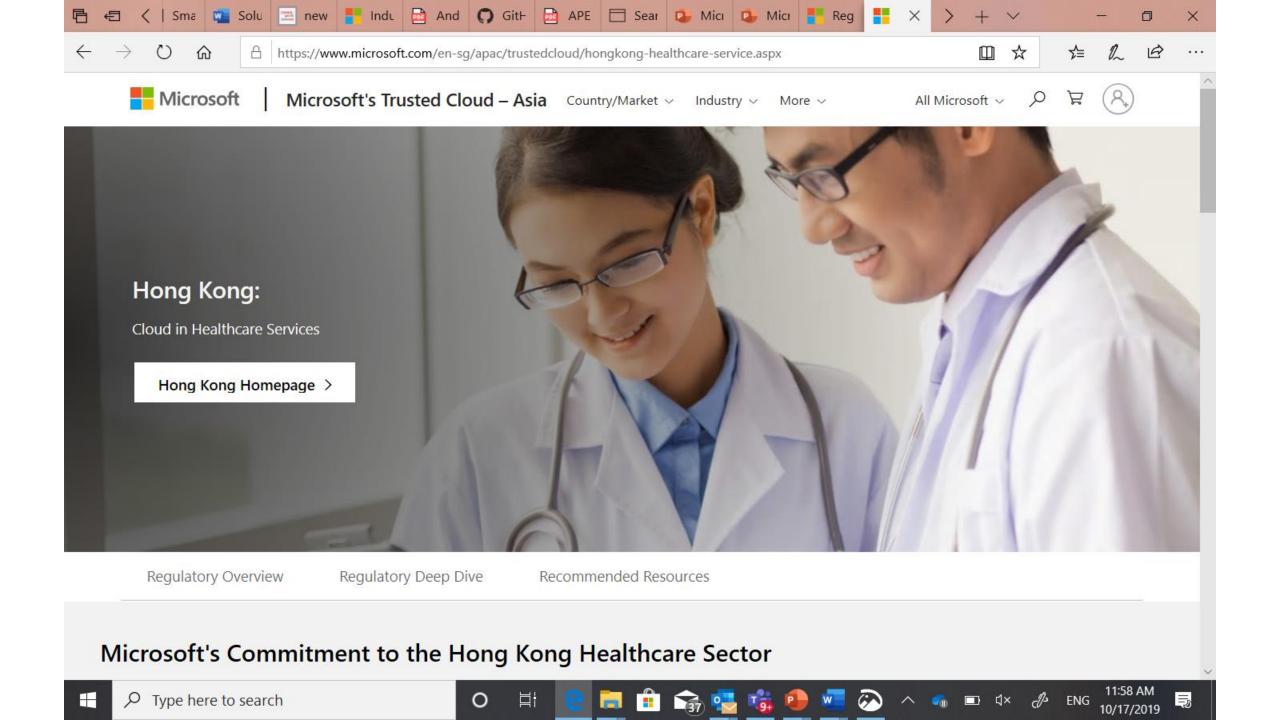


Privacy & control

We will provide you with control over your data to help keep it private

Our commitment

- · To deliver a cloud that is trusted, responsible and inclusive
- · To make the adoption of cloud as smooth as possible for health organizations
- To understand your requirements and provide detailed information on the technical, contractual and practical aspects of your proposed cloud project
- To ensure that healthcare institutions and their patients will benefit from this new wave of innovation



Regulatory Overview

- <u>Electronic health record sharing system (eHR System)</u> by the Hospital Authority
- → A unified and secured sharing platform between private & public sectors

The Regulators of eHR System

- 1. The Food and Health Bureau
- 2. The Department of Health
- 3. The Hospital Authority
- 4. The Office of the Privacy
 Commissioner for Personal Data, (PCPD)
- 5. The Electronic Health Record Sharing System Office (eHR Office)

Govern the provision of healthcare services by both public & private healthcare institutions

Enforces the Personal Data (Privacy) Ordinance (PDPO)

Enforces the Electronic Health Record Sharing System Ordinance (eHRSSO)

Data Transfer Requirement

- · Organizations must comply with general laws on data protection
- The provision in the Hong Kong Personal Data (Privacy) Ordinance (PDPO) regarding data transfer (Section 33) has not yet come into force but prevailing practice is to have it taken into account (as also recommended by regulator such as the HKMA). Section 33 of the PDPO imposes limitations on transferring data outside of Hong Kong except in certain circumstances e.g. if the organization has taken all reasonable precaution and exercised due diligence that personal data will not be handled in a manner in contravention of the PDPO requirements (Due Diligence Exception). Putting in place an enforceable contract between all parties to the transfer is a way to satisfy the Due Diligence Exception and the Office of the Privacy Commission for Personal Data, Hong Kong (PCPD) has proposed a set of recommended model clauses to include in such contract under the Guidance on Personal Data Protection in Cross-border Data Transfer it published.
- The Online Services Terms of Microsoft in principle cover the core areas of the recommended model clauses, which should assist financial institutions to make a determination as to whether the Due Diligence Exception can be relied on.
- The <u>Hong Kong Privacy Commissioner Information Leaflet on Cloud Computing</u> (Cloud Computing Leaflet) provides guidance to service providers on the use of cloud computing. This Cloud Computing Leaflet recommends that organizations should ensure that a cloud service provider discloses to organizations the locations or jurisdictions of where data will be stored.

Azure Security for Healthcare Data Storage

Review of Azure Security for Healthcare Data Storage

for

Microsoft Hong Kong

Report





Conclusion

Given that cloud computing has become part of our lives, data security and privacy have become an increasing area of concern for both Cloud Service Providers and users. For healthcare data, once we decide to use the cloud, preventing unauthorized access to information resources will become a major consideration. In this report, we have highlighted the security and privacy issues unique to the architecture of cloud computing. The solutions lie in strengthening in-built technological security and privacy capabilities and management, reaching new types of contractual arrangements between CSPs and users and in adopting encryption technology.

Any cloud computing solution should be properly configured, deployed and managed to meet the security and privacy requirements of customers using the solution. Healthcare data must be protected in a manner consistent with the healthcare organization's policies. In addition, security and privacy controls should be implemented correctly and operate as intended throughout the system lifecycle. Accountability for security and privacy in cloud deployments cannot be delegated entirely to cloud service providers. To a certain degree, it also remains an obligation for users to fulfill.

With respect to the cloud service provider Microsoft Azure, our analysis in Section 4 concluded Azure has provided sufficient security controls and privacy control to handle healthcare data. The controls not only adhere to local security and privacy requirements in Hong Kong, but also in line with international standards.

The most trusted platform

Each physical datacenter protected with world-class, multi-layered protection

Over 100 datacenters across the planet

Secured with cuttingedge operational security

- Restricted access
- 24x7 monitoring
- 3500+ global security experts

Global cloud infrastructure

with secure hardware and data segregation



