



Digitech Indonesia Conference 2018

What's Happen in Cloud

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VP Product Cloud & UC

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Cloud Computing means move the use of internal resource on premise to the services of the service providers.

Meaning of Cloud:

C
Common implies multi tenancy, not single or isolated tenancy


L
Location independent

O
Online

U
Utility implies pay for use pricing

D
Demand implies, infinite, immediate, invisible scalability





By 2025, 80% of enterprises will have **shut down their traditional data center**, versus 10% today.
(Gartner, 2018)

By 2021, **75% of enterprise customers** seeking cloud managed infrastructure as a service (IaaS) and platform as a service (PaaS) solutions **will require multicloud capabilities** from a cloud managed service provider, up from 30% in 2018
(Gartner, 2018)

The **number of cloud managed service providers (MSPs)** will triple to peak in the thousands globally by 2020, then experience a massive consolidation period through 2023.

Why enterprise is shifting to cloud?

By 2022, cloud shift across key enterprise IT markets will increase to 28% (up from 19% in 2018). – Gartner 2018

The shift of enterprise IT spending — from traditional (non cloud) offerings to new, cloud-based alternatives — is occurring at a fast rate.

Cloud is no longer only an IT-strategy but more of business strategy which makes business continuity is an essential consideration.



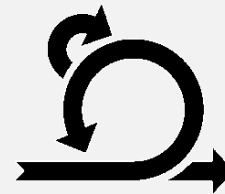
Asset Refreshment

It predicted that asset retirement (i.e. datacenter) drives higher rates of movement to cloud by at least 2022,.



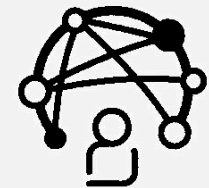
Innovation

Many innovation in digital business requires capability that born in Cloud Environment. High-compute fulfilment is moving from on-premise to cloud environment.



Agility

Flexibility and scalability are factors that drives cloud adoption. Unlike datacenters, cloud need shorter time to deliver in fulfilling the business need.



Digital Economy

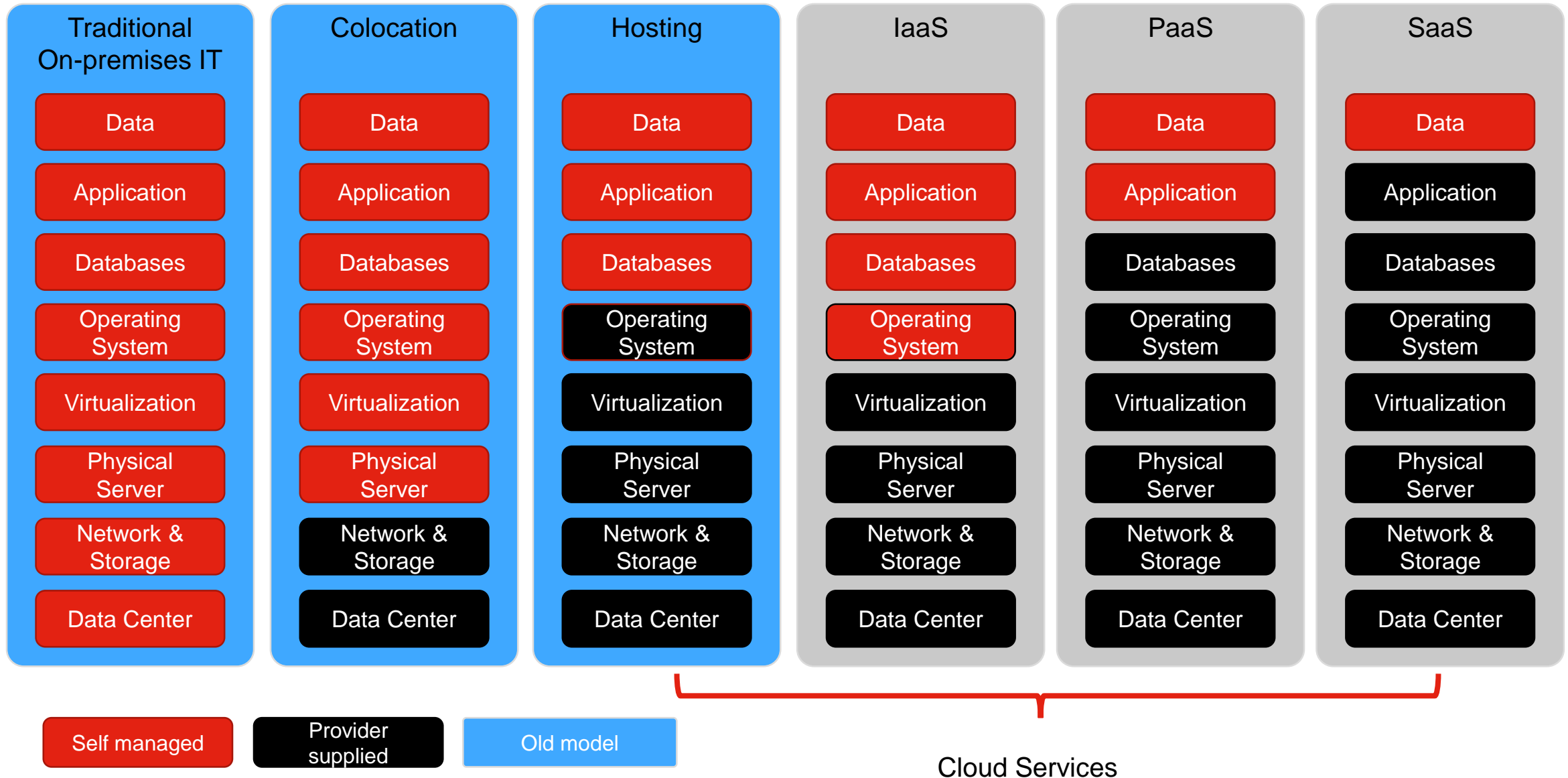
Participation in digital economy is inseparable in digital business ecosystem. It is often urge enterprise to integrate with external system such as IoT, edge computing, public API or social media.

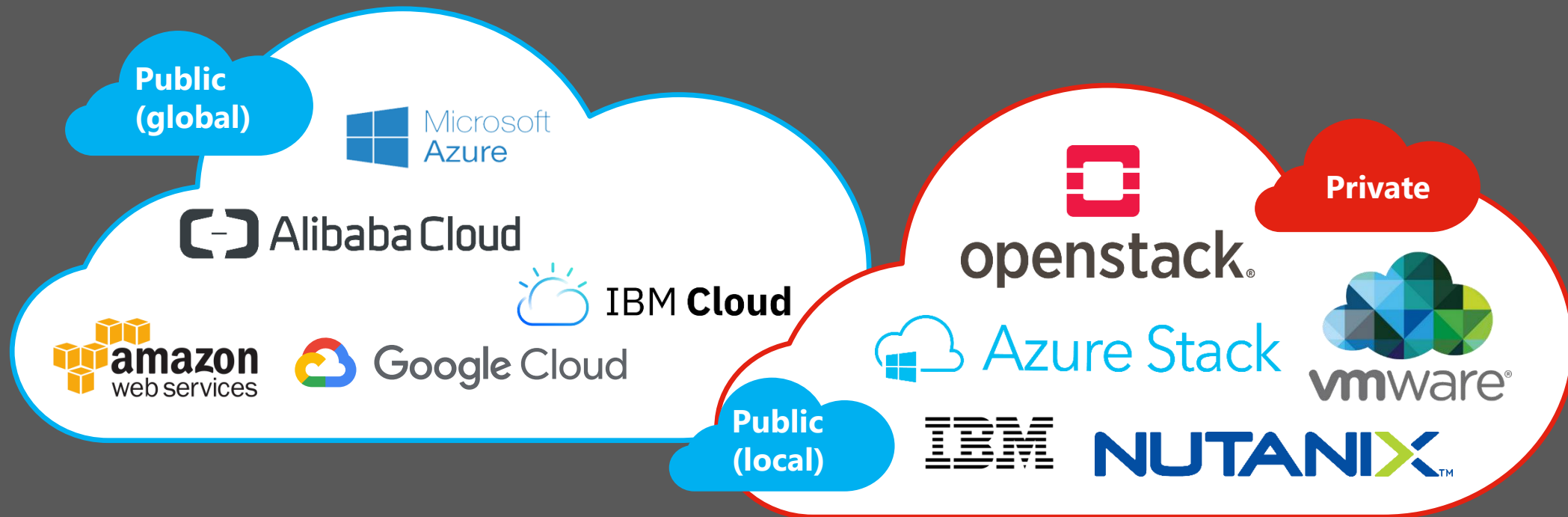
Cloud Journey

Hybrid Cloud

Digital Cloud Infrastructure

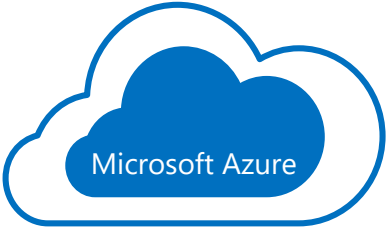
Identify What You Are Doing in The Cloud





Cloud service	Data center	Provider	Technology
Public (global)	Worldwide	AWS, Microsoft, Google, IBM, Alibaba	Their own technology
Public (local)	Nationwide	Telkomtelstra, Telkom Sigma, Lintasarta, Datacomm, dll	VMWare, Azure Stack, OpenStack, IBM, Nutanix
Private	On premise	Internal company	VMWare, Azure Stack, OpenStack, IBM, Nutanix
Special purpose	Colocation or on premise	Oracle	Oracle

Azure vs Azure Stack

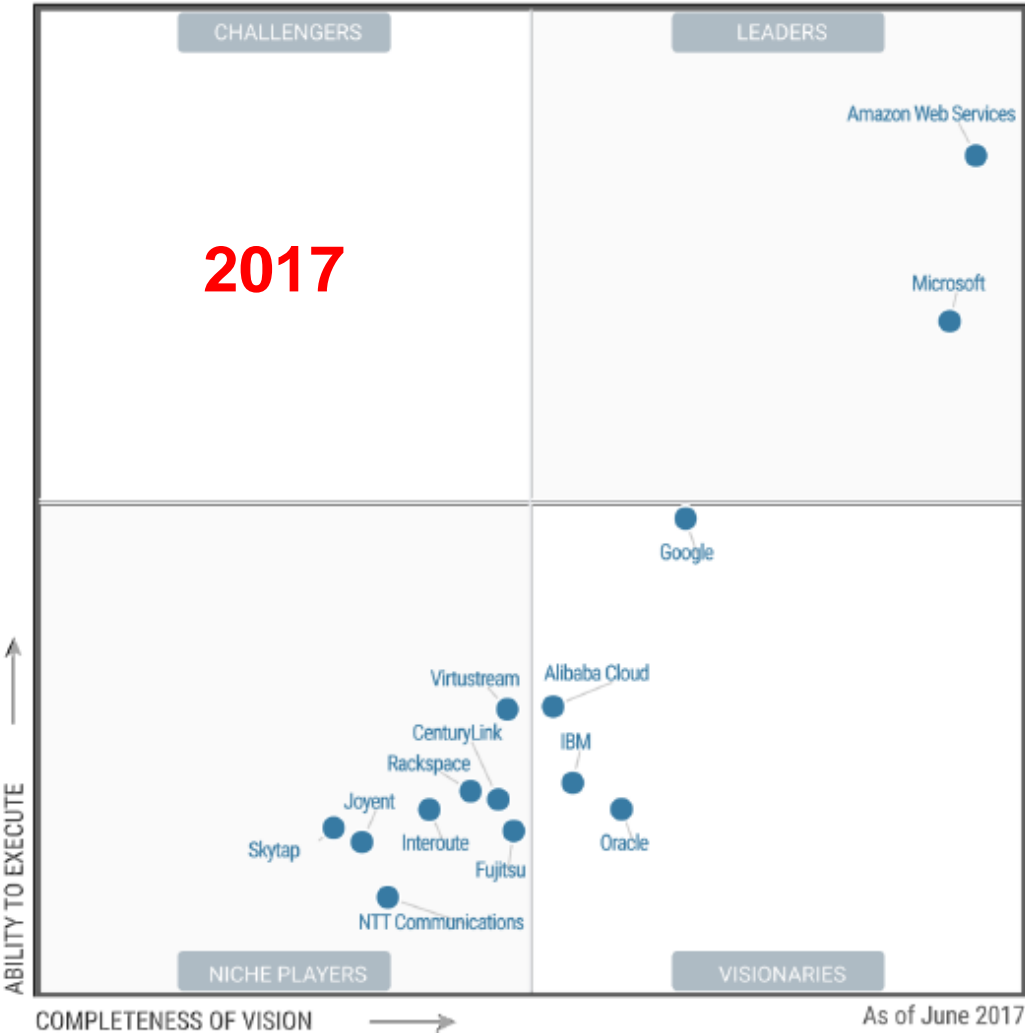


Area	Azure (Global)	Azure Stack
Who operates it?	Microsoft	Internal Organization or Service Provider
Who do you contact for support?	Microsoft	Internal Organization or Service Provider
Available Services	Available services vary by Azure region	Azure Stack supports a subset of Azure services
Region	You can select which region you want to deploy to.	For an Azure Stack integrated system, use the region that's available on your system

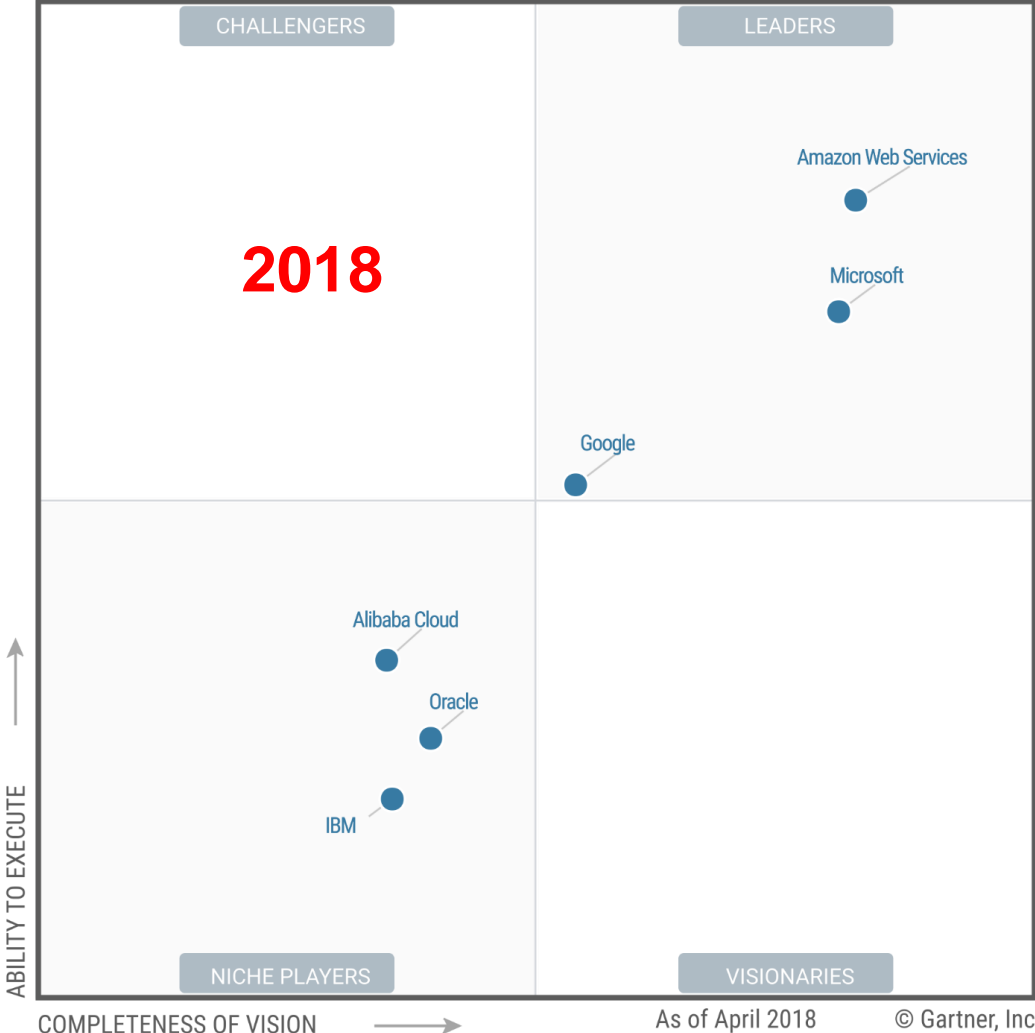
Global Cloud Magic Quadrant

Magic Quadrant

Figure 1. Magic Quadrant for Cloud Infrastructure as a Service, Worldwide



Source: Gartner (June 2017)

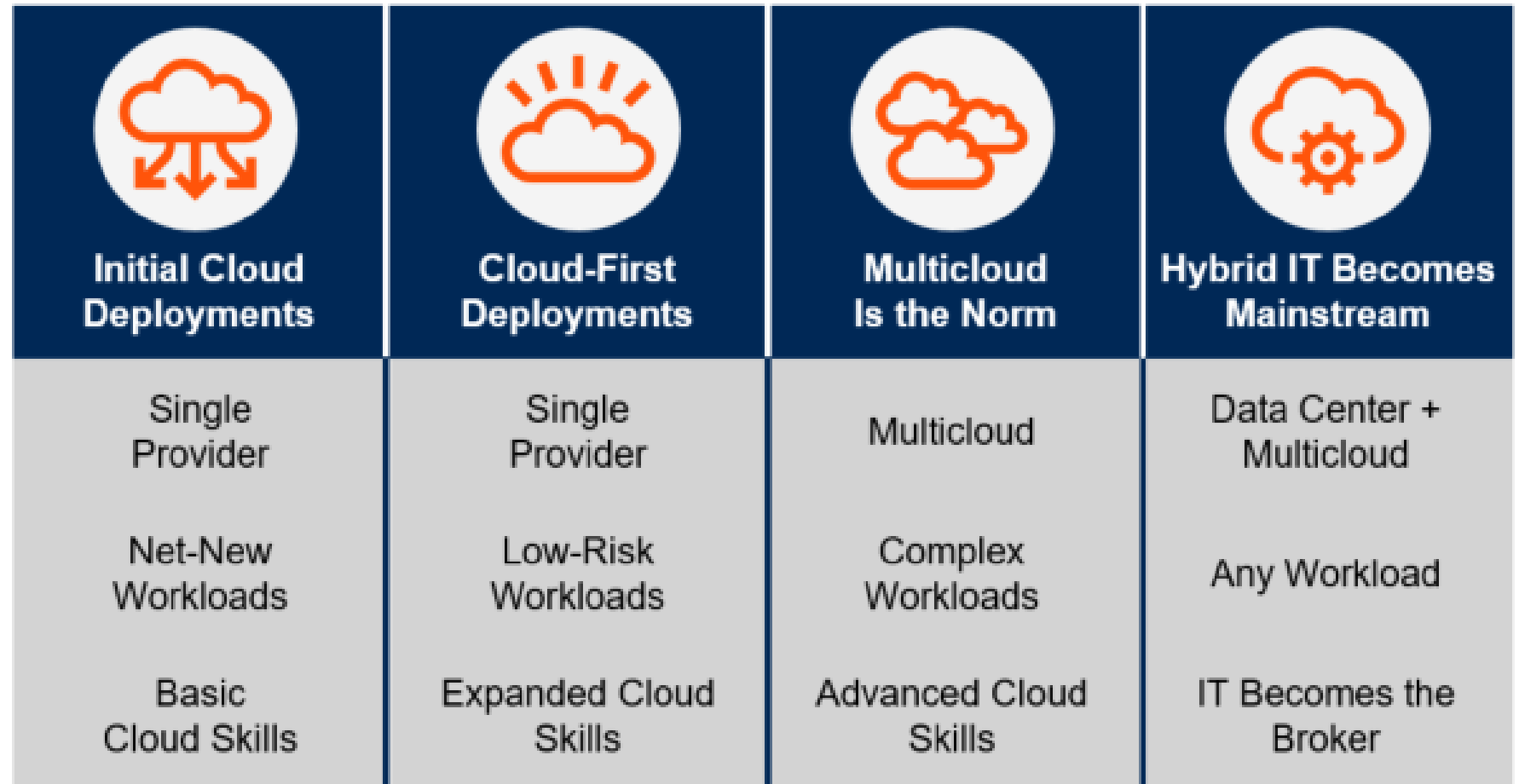


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Cloud's Evolution to Become Mainstream

In 2019, hybrid IT will be the standard. Technical professionals focused on cloud must continue to advance cloud-first strategies, embrace multi cloud and maintain on-premises environments, with a focus on integration and brokering.

Source: Gartner

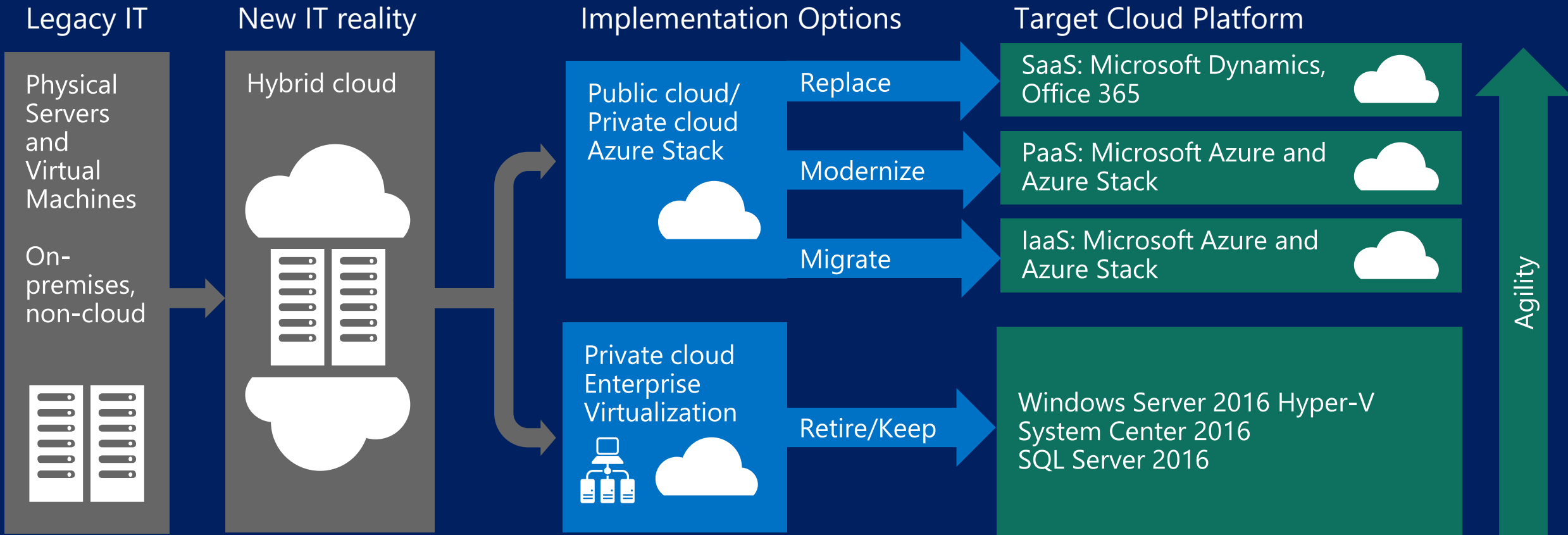


Cloud Journey

Hybrid Cloud

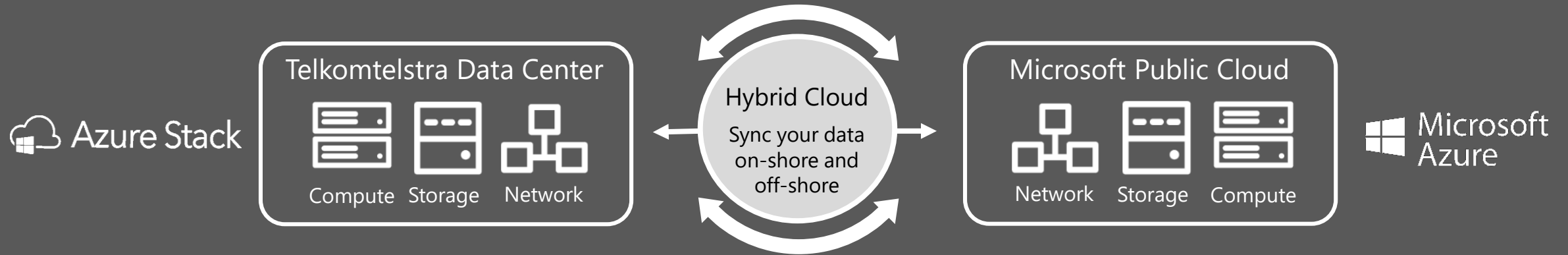
Digital Cloud Infrastructure

Hybrid Cloud Strategy

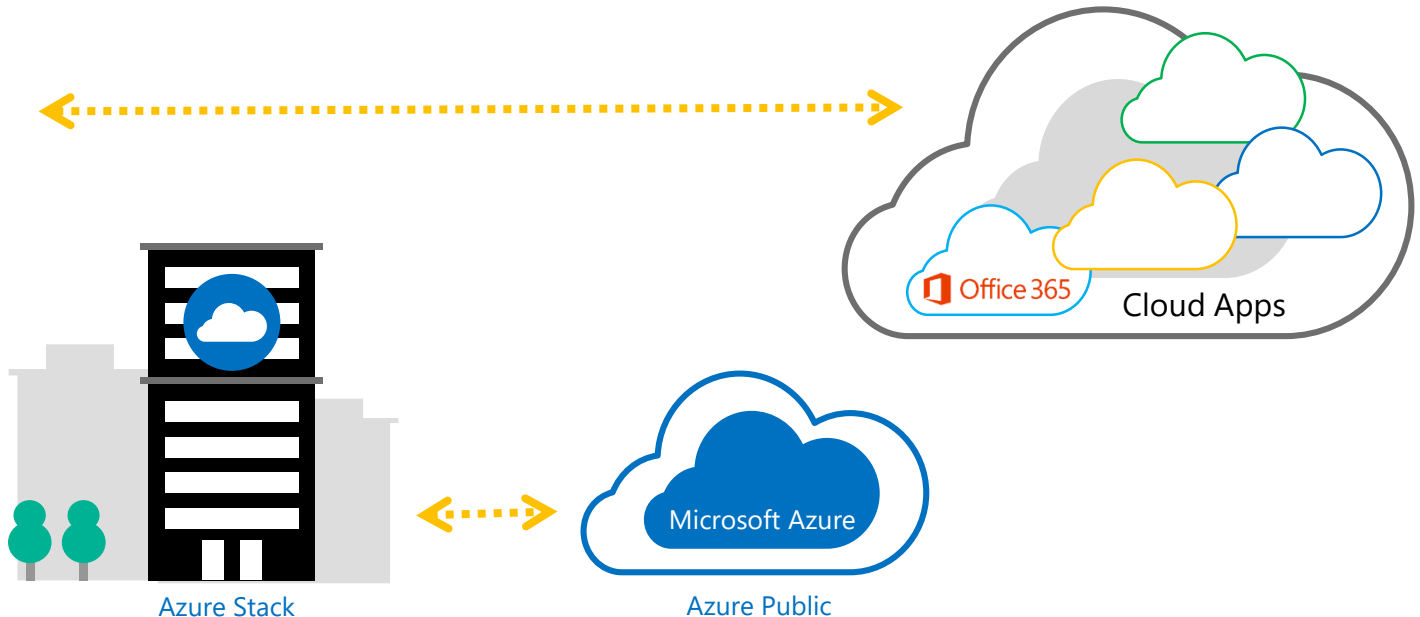


Hybrid Cloud

Build secure and flexible cloud capabilities



SaaS <ul style="list-style-type: none">• Video analytic• E-Nota Dinas• Digital signature*• Enterprise mobile management*• Business intelligent*	
PaaS* <ul style="list-style-type: none">• Web Apps• xSQL• Functions• API Apps• IoT Hub	
IaaS <ul style="list-style-type: none">• CPU, RAM, storage	
Data Center <ul style="list-style-type: none">• Serpong• Sentul• Surabaya (TBD)	telkomsigma <small>make IT faster</small> <small>by Telkom Indonesia</small>



Cloud Journey

Hybrid Cloud

Digital Cloud Infrastructure

Build Your Innovation with Azure

Innovation

- Focus on the applications
- Enable developers
- Deliver new and reliable services quickly

Economics

- Invest in competitive differentiators
- Reduce capital expenditure

Flexibility

- Choose where to deploy
- Decrease risk of vendor lock-in

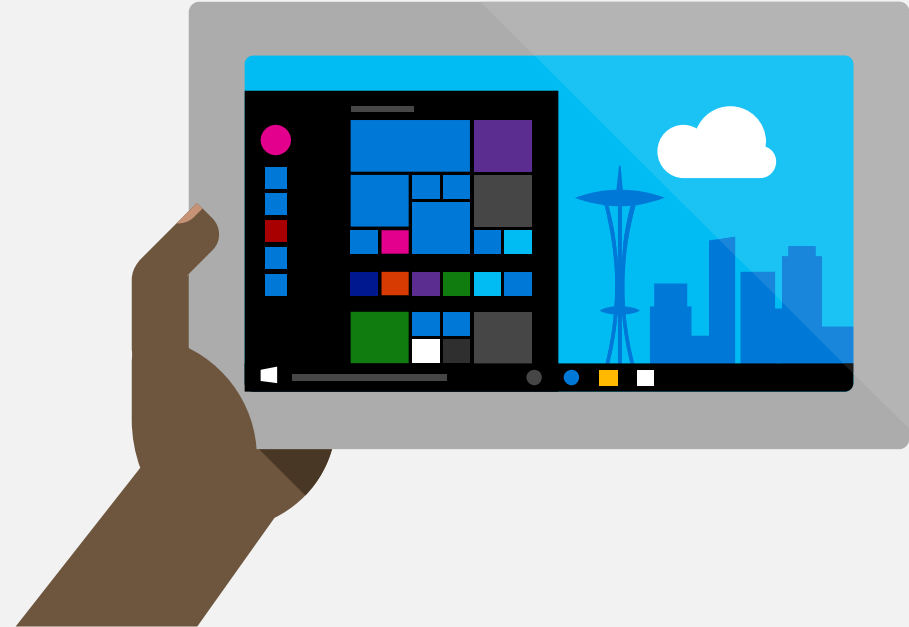
Reimagining the modern enterprise

Datacenter
without
boundaries

Cloud
innovation
everywhere

Dynamic
application
delivery

Azure Stack Microsoft Azure



Virtual Machine



Apps Services



Restore



Back Up



SQL



IoT



Mobile Apps



Machine Learning



Media Service



Open API



Power BI



Function



Active Directory



Batch AI

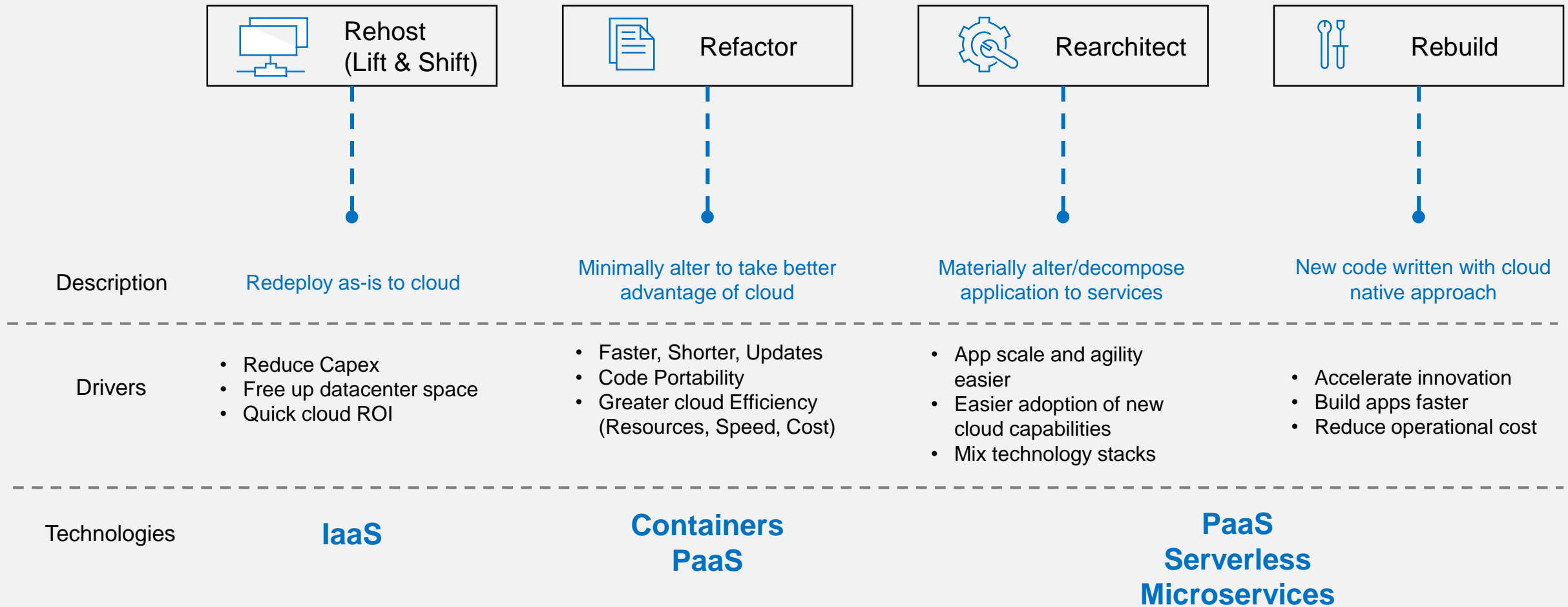


HD Insight



Container

Workload are Shifting To Cloud



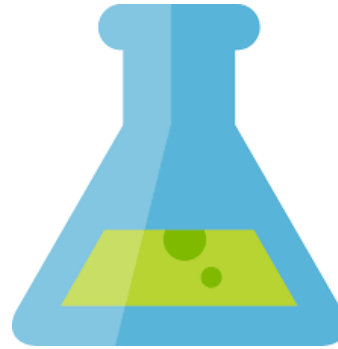
Upcoming Service for Supporting Industry 4.0

Azure Function



Azure Function adalah layanan as a service yang berada dalam dunia architecture serverless yang memungkinkan kita untuk menjalankan fungsi aplikasi tanpa harus memikirkan cara mengoperasikan server tsb

Azure Machine Learning



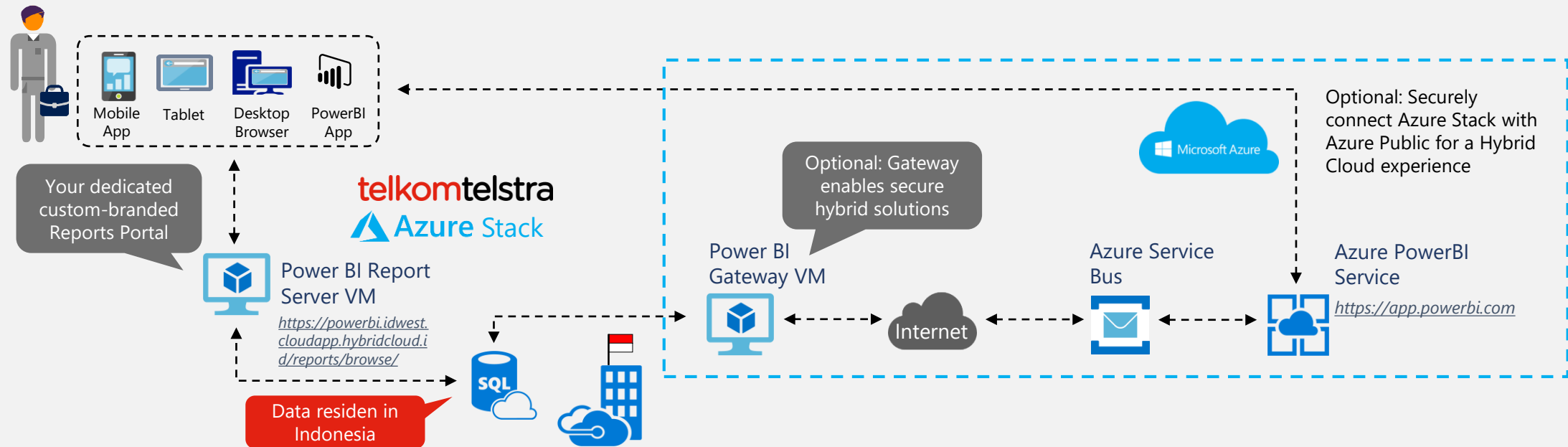
Azure Machine learning sebuah layanan cloud yang berfokus pada pengembangan sebuah system yang mampu belajar "Sendiri" tanpa harus diprogram berulang kali

Azure IoT Hub



Azure IoT Hub merupakan platform yang dapat menghubungkan perangkat sensor dengan solusi lain di cloud dengan fitur kemudahan integrasi layanan Azure lainnya, seperti Azure stream analytics

Business Intelligence with Data Security and Classification



Build advanced data analytics by placing the sensitive data in local DC* and combining others data from internet & cloud, while also delivering with shopisticated business analytics portal.

comply government regulation **PP.82 2012 of data sovereign*

Telkomtelstra Azure Stack



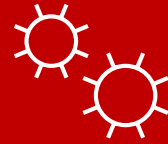
Trusted and Secure

Registered on Indonesia Government (Kominfo) and also accredited and complied with ISO 27001:2013. In the future on process of PCI DSS certification of banking industry.



Resilience Infrastructure

Support with 2 Azure Stack location in Indonesia with full capacity located in trusted DC provider which certified tier 3 support.



Complete Resources

- Standard operational procedures with ITIL framework.
- Certified people of Azure and cloud.
- Fully supported by Microsoft.



Experience

- Experience in delivering hybrid cloud services in Indonesia.
- Delivering apps solution which build on Azure Stack.



Extensive Services

Available diverse Azure Stack services from network & security, IaaS, PaaS, Container, SaaS and the latest version of Azure Stack system.

Empower Your Business with Confidence

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