

Overview Of Microsoft Azure



Mr. Wisit Thongphoo FB: ITGeist



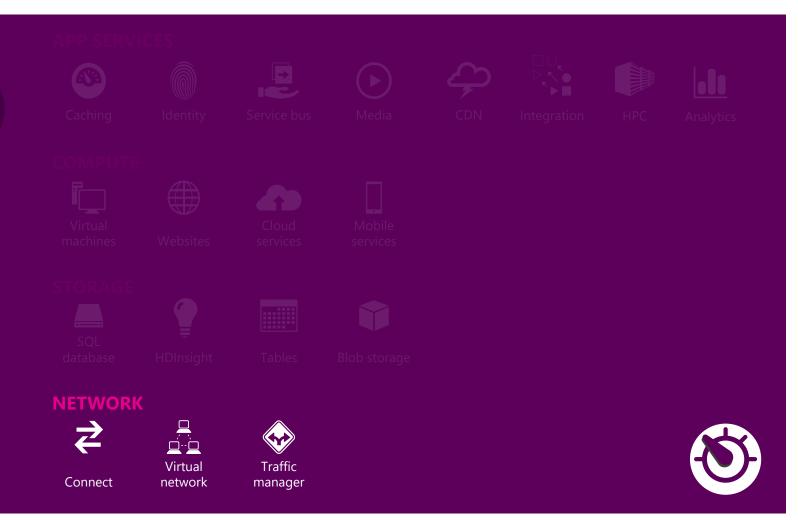
Microsoft Azure

An Open and Flexible Cloud Platform that enables you to quickly build, deploy, and manage solutions across a global network of Microsoft-Managed Datacenters.

USAGE-BLASTEEORM SERVICES

Services grouplediale Compute, Stategre, Network aled Application Services build, deploy, & manage solutions across Distinct Rates for each of these a global network of Microsoft-Service "meters" managed datacenters.

Customers are billed for usage against one or more of these meters

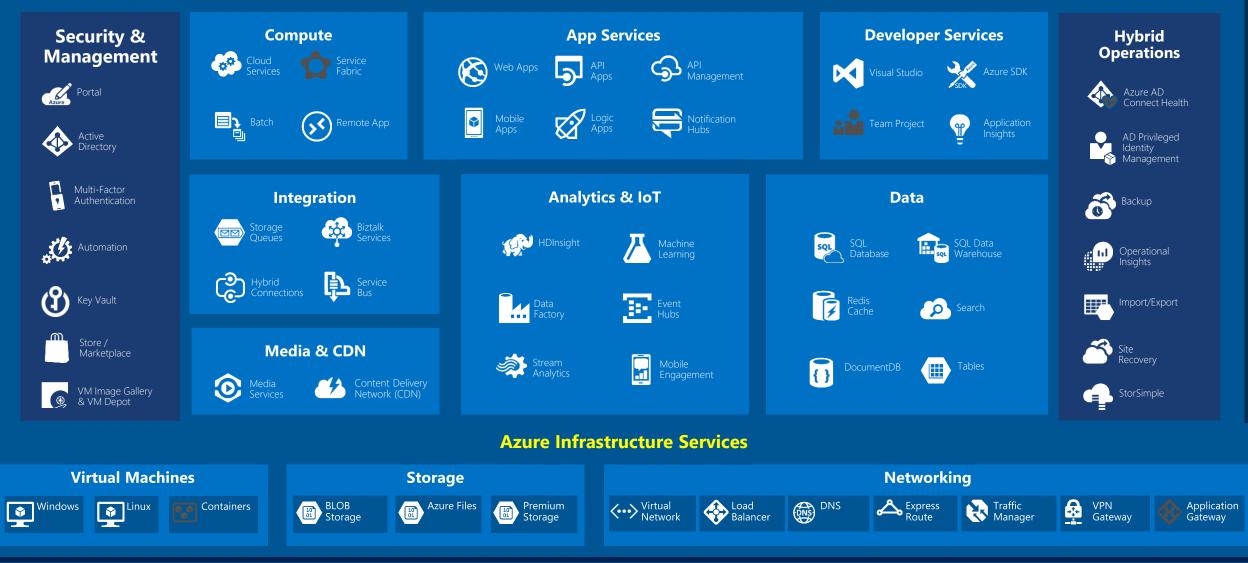


Azure Regions

More than Any Cloud Providers

Microsoft Azure Services

Azure Platform Services



Global Infrastructure

Azure Virtual Datacenter

Deploying workloads to the Cloud introduces the need to develop and maintain trust in the Cloud to the same degree you trust your Existing Datacenters.

In the Azure Virtual Datacenter Model, you can apply isolation policies, make the cloud more like the physical datacenters you know, and achieve the levels of security and trust you need.

Four components any enterprise IT team would recognize make it possible: Software-Defined Networking, Encryption, Identity Management, and the Azure platform's underlying Compliance Standards and Certifications. These four are key to making a Virtual Datacenter a trusted extension of your existing infrastructure investment.



Azure Virtual Datacenter-Software Defined Network

Encryption

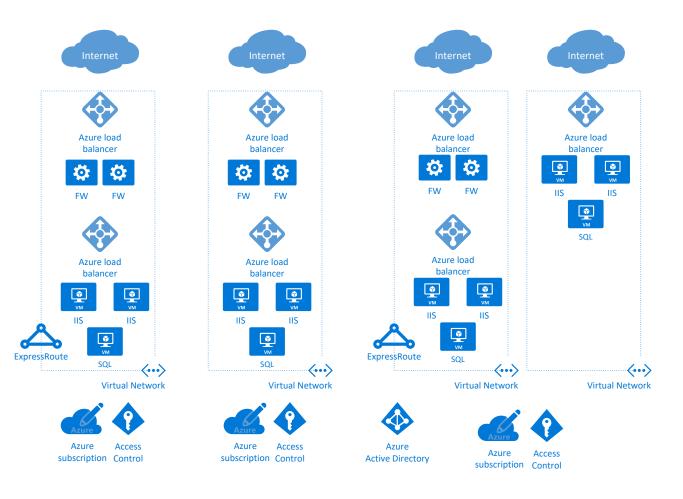
Software Defined

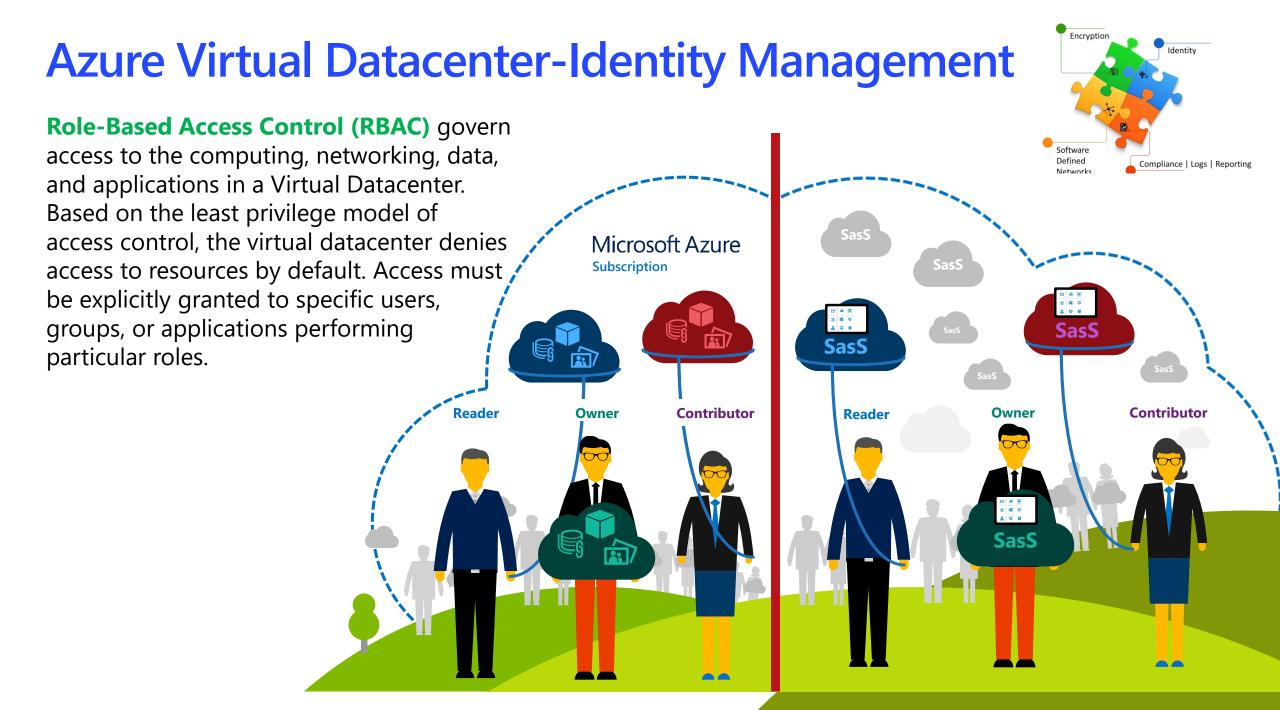
Networks

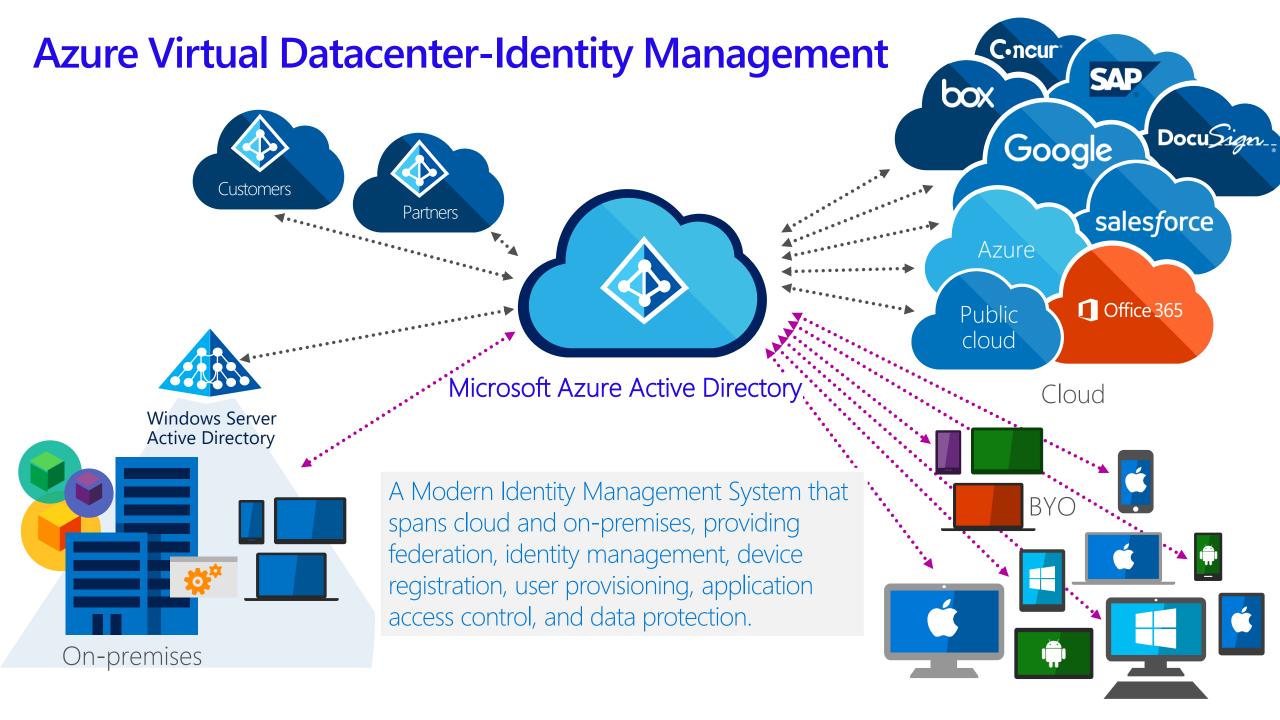
Identity

Compliance | Logs | Reporting

Provides virtual abstractions for your physical network elements, such as network topologies, firewalls, intrusion detection mechanisms, load balancers, and routing policy. You can create, configure, and manage network topologies, support isolation, and provision perimeter networks.



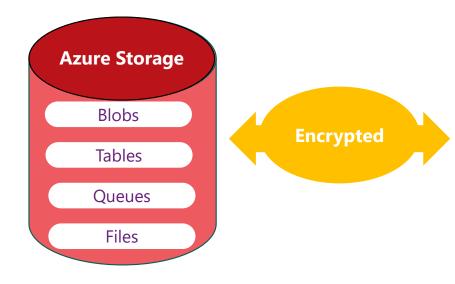




Azure Virtual Datacenter-Encryption

Data at Rest

Data at rest is also encrypted, including data stored on Azure Storage



Azure Storage Service Encryption (SSE) provides encryption at rest for all Azure Storage services by encrypting data before writing it to storage. SSE decrypts the data immediately prior to retrieval. SSE-enabled Azure Storage accounts can handle encryption, decryption, and key management in a totally transparent fashion. All data is encrypted using 256-bit AES encryption, and both Microsoftmanaged and customer-managed encryption keys are supported.

Encryption

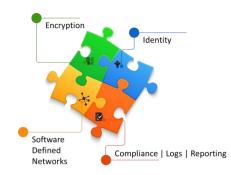
Software Defined

Network

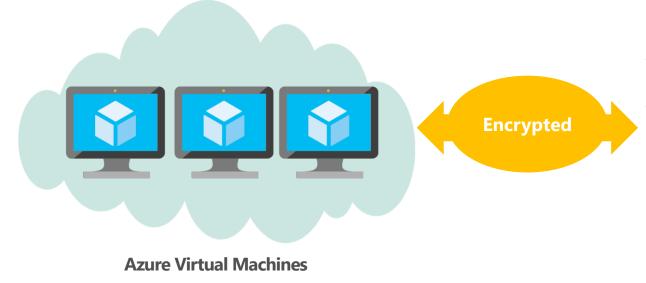
Identity

Compliance | Logs | Reporting

Azure Virtual Datacenter-Encryption (7)



Azure VM 's OS & Data Disk (Azure Disk Encryption)



Azure Virtual Machine Encryption supports two models for encrypting virtual machines which provide volume encryption for the operating system and data disks:

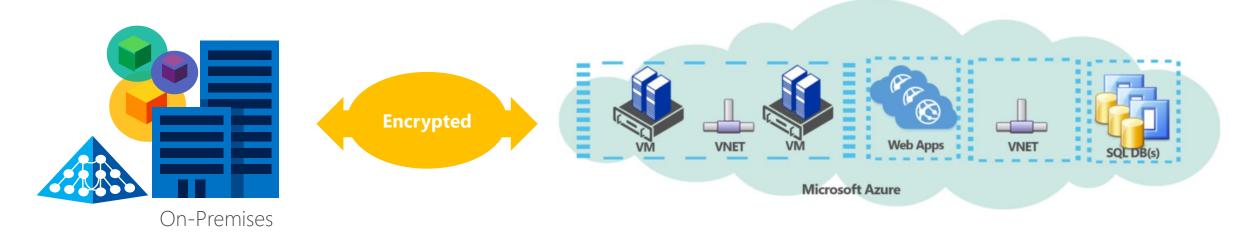
The BitLocker feature of Windows
The DM-Crypt feature of Linux

Azure Virtual Datacenter-Encryption

Data in Transit



The Azure Virtual Datacenter Model uses encryption to enforce isolation of data as it moves between:



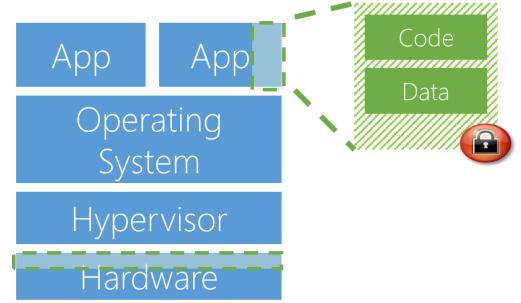
- On-premises networks and the Virtual Datacenter. Data passes through either an encrypted site-to-site virtual private network (VPN) connection or an isolated, private ExpressRoute.
- Applications running in a different virtual datacenter (that is, from one Virtual Datacenter to another).
- Applications running in the same Azure Virtual Datacenter.
- Platform services, including both internal and external endpoints—storage accounts, databases, and management APIs.

Azure Virtual Datacenter-Encryption

Data in Process

Azure platform is support for Confidential Computing through Trusted Execution Environments (TEE) using technologies such as enclaves. Intel Secure Guard Extensions (SGX).

With Azure Confidential Computing, we're developing a platform that enable developers to take advantage of different TEEs without having to change their code. Initially we support two TEEs, Virtual Secure Mode and Intel SGX. Virtual Secure Mode (VSM) is a software-based TEE that's implemented by Hyper-V in Windows 10 and Windows Server 2016 Hyper-V.





Azure Virtual Datacenter-Compliance

Azure Infrastructure and Services meet a broad set of international, industry-specific, and country-specific compliance standards. To help ensure the safety of your data, Microsoft also verifies how compliance is achieved through rigorous third-party audits that validate Azure's adherence to standards-mandated security controls. In addition, virtual datacenters make extensive use of automated compliance monitoring, logging, and reporting



More certifications than any other cloud provider

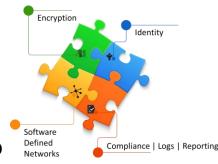


Industry leader for customer advocacy and rights protection

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More global DC regions than any other provider





Azure Virtual Datacenter-Compliance

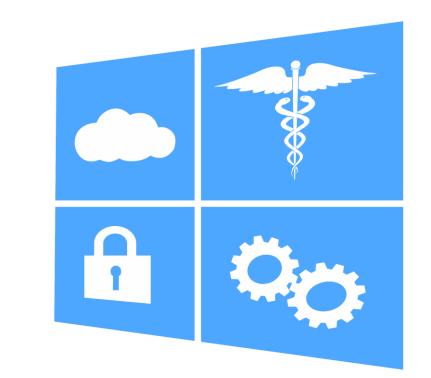
Microsoft Trust Center where Microsoft proves to its customers a trustworthy platform. From the center, Microsoft shows not only compliance achievement but also security privacy and its practices.



About Microsoft Azure

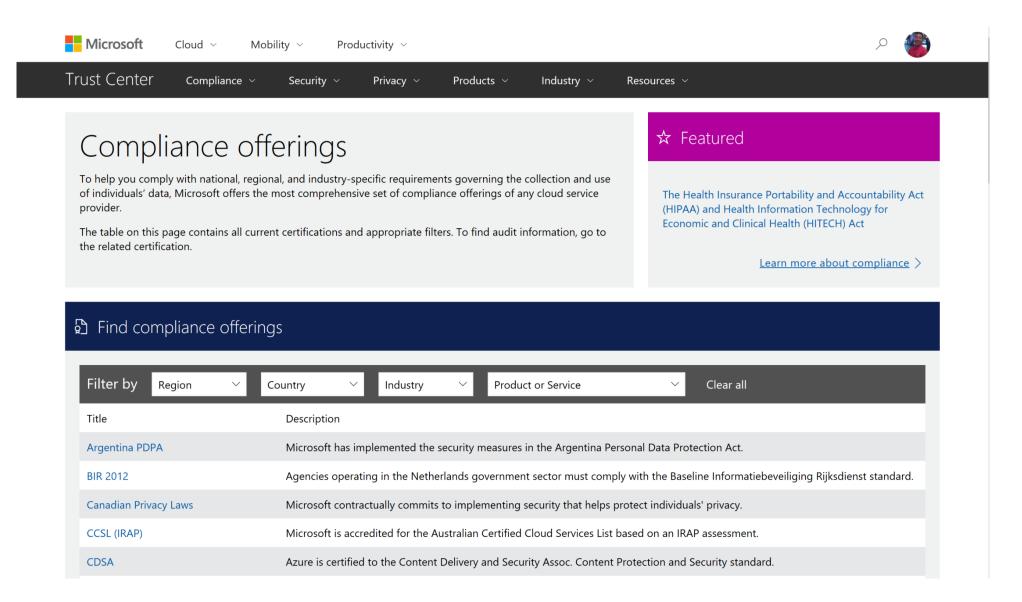
Microsoft Azure is a cloud computing platform that features a growing collection of integrated cloud services—analytics, computing, database, mobile, networking, storage, and web. Azure includes integrated tools, pre-built templates, and managed services that make it easier to build and manage enterprise, mobile, web, and Internet of Things (IoT) apps faster, using skills you have and technologies you already know.

We understand that some organizations are still wary about cloud computing; keeping data confidential is essential for any organization. That's why Microsoft has made an industry-leading commitment to the protection and privacy of your data. We were the first cloud provider recognized by the European Union's data protection authorities for our commitment to rigorous EU privacy laws. Microsoft was also the first major cloud provider to adopt the new international cloud privacy standard, <u>ISO 27018</u>,



https://www.microsoft.com/en-us/TrustCenter/CloudServices/Azure

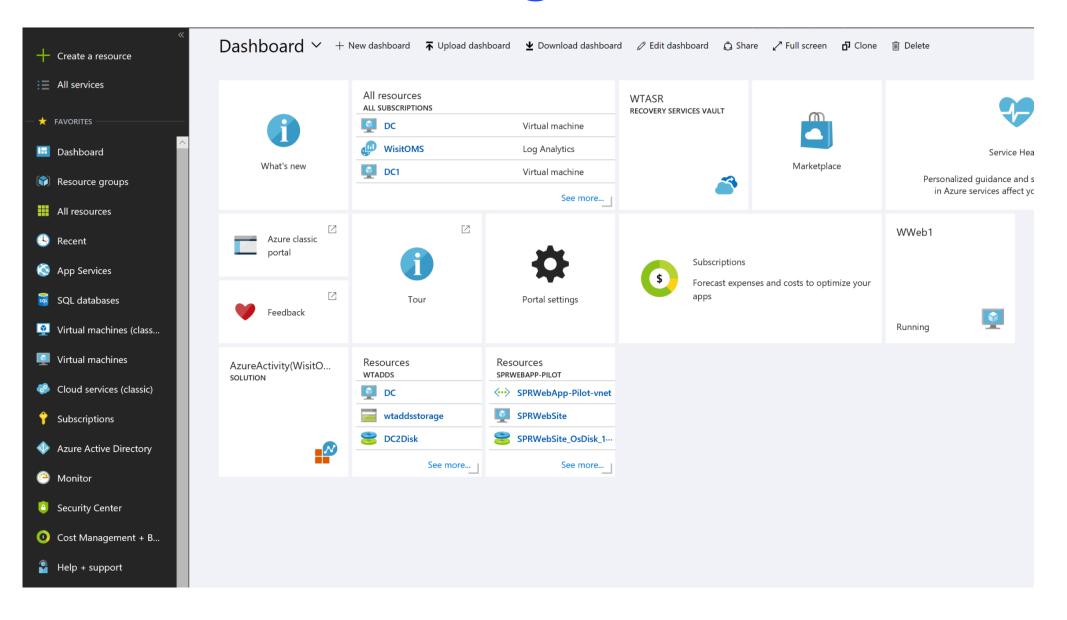
Azure Virtual Datacenter-Compliance



Azure Service Management (ASM)-Classic Portal

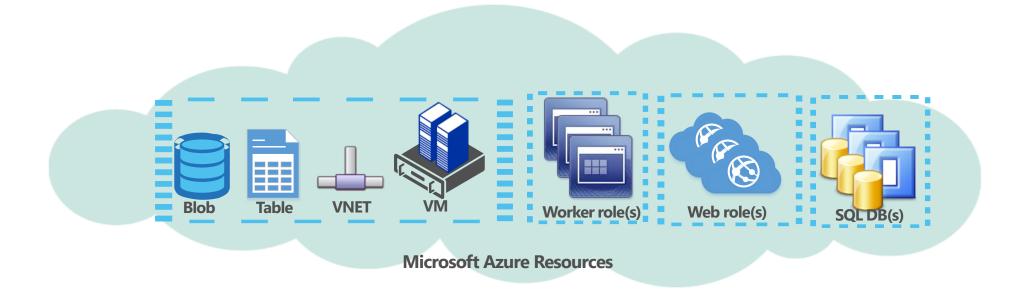
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	ALL ITEMS	all items						
(WEB APPS 0	NAME		TYPE	STATUS	SUBSCRIPTION	LOCATION	Q
۲	VIRTUAL MACHINES	Default Directory	⇒	Directory	Active	Shared by all Default Dir	United States	
٢	MOBILE SERVICES							
6 0	CLOUD SERVICES							
	BATCH SERVICES							
DB	SQL DATABASES							
	STORAGE 0							
P	HDINSIGHT 0							
۲	MEDIA SERVICES 0							
	SERVICE BUS							
+	NEW			DELETE			1 📥	0

Azure Resource Manager (ARM)-Azure Portal



ARM Concept & Terminology

With the Azure Resource Manager (ARM), Everything in Azure is a Resource.



Examples of resources are a virtual machine, network interfaces, public IP address, storage accounts, virtual networks, and more. ARM is based on concepts related to resource providers and resource consumers. Azure provides resources and services through multiple resource providers that are consumed and deployed in groups.

ARM Concept & Terminology

Resource Groups are a unit of deployment in the ARM. They are containers grouping multiple resource instances in a security and management boundary. A resource group is uniquely named in a subscription. Resources can be provisioned on different Azure regions yet belong to the same resource group.

	TYPE $\uparrow \downarrow$	LOCATION 1	
DC_OsDisk_1_c6f502f7c64e4c11acba8d0958d93219	Disk	Southeast Asia	••• ^
DC2	Virtual machine	Southeast Asia	•••
DC2_OsDisk_1_2bae6583d40545e880e59bed2be7d617	Disk	Southeast Asia	••••
dc2265	Network interface	Southeast Asia	••••
DC2Disk	Disk	Southeast Asia	
DC2-ip	Public IP address	Southeast Asia	••••
DC2-nsg	Network security group	Southeast Asia	••••
dc899	Network interface	Southeast Asia	••••
DCDisk	Disk	Southeast Asia	
DC-ip	Public IP address	Southeast Asia	
DC-nsg	Network security group	Southeast Asia	
wtaddsdiag671	Storage account	Southeast Asia	••••
wtaddsstorage	Storage account	Southeast Asia	••••
WTADDSVnet	Virtual network	Southeast Asia	••••

Azure Deployment Model-ARM Benefits

Grouping: ARM allows grouping of resources together in a logical container. These resources can be managed together

Role-Based Access Control: Granular roles and permissions can be assigned to resources providing discreet access to users. Users can have only those rights that are assigned to them.

Deployment Support: ARM provides deployment support in terms of templates enabling DevOps and Infrastructure as Code (IAC). The deployments are faster, consistent, and predictable.

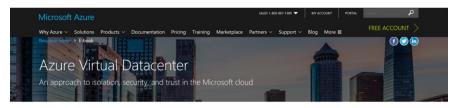
Superior Technology: Cost and billing of resources can be managed as a unit. Each resource group can provide their usage and cost information.

Manageability: ARM provides advanced features such as security, monitoring, auditing, and tagging features for better manageability of resources. Resources can be queried based on tags. Tags also provide cost and billing information for resources tagged similarly.

Migration: Easier migration and update of resources within, as well as from across resource groups.

Resources:

E-Book: https://azure.microsoft.com/en-us/resources/azure-virtual-datacenter/



Published: 11/13/2017

Azure Virtual Datacenter is an approach to making the most of the Azure doud platform's capabilities while respecting your existing security and networking policies. When deploying enterprise workloads to the cloud, II organizations and business units must balance governance with developer apility. Azure Virtual Datacenter provides models to achieve this balance with an emphasis on governance.

This e-book was written by Mark Ozur, Hatay Tuna, Callum Coffin, and Telmo Sampaio from the Azure Customer Advisory Team (AzureCAT).



Azure Virtual Datacenter An approach to isolation, security, and trust in the Microsoft cloud





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WT Blog (ITGeist)

IT Knowledge Provider

วันจันทร์ที่ 5 กุมภาพันธ์ พ.ศ. 2561

มารู้จักกับ Azure AD กันต่อ และ Azure Active Directory Domain Service

สวัสดีครับห่านผู้อ่านทุกท่าน หลังจากที่ผมได้โพสบทความเกี่ยวกับ Azure AD ไปก่อนหน้านั้ เพื่อให้ทุกท่านได้รู้จักและหราบว่า Azure AD คืออะไร และมีประโยชน์อย่างไร สำหรับบทความตอน นี้ผมจะพาทุกท่านไปทำความรู้จักกับ Azure AD กันต่ออีกขักนิดครับ รวมถึง Service ตัวหนึ่งโน Microsoft Azure หีมีให้บริการมาขักพักแล้วครับ นั่นคือ "Azure Active Directory Domain Service" หรือ Azure AD DS ครับ ซึ่งแน่นอนว่าเป็นคนละตัวหรือคนละเรื่องกับ Azure AD นะ ครับ เอาล่ะครับผมขอเริ่มที่เรื่องราวของ Azure AD กันต่อก่อนนะครับ

Azure AD (ເพີ່ມເตີມ)

โดยในบทความก่อนหน้านี้ผมได้นำเสนอและอธิบายถึงเรื่องราวของ Azure AD ไปโดยเริ่มจาก Concept จนไปถึง Azure AD Editions ต่างๆ ไป แต่ยังมี Azure AD อีก 2 แบบ ที่ผมขอ อนุญาตนำเสนอต่ออีกนิดนะครับ นั่นคือ Azure Active Directory B2C และ Azure Active Directory B2B



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Thank You ③

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