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Cloud computing - Almacenamiento

Especialización en Big Data

Mayo de 2022

ALFONSO AYALA PALOMA

MAGISTER EN INGENIERÍA – AREA SISTEMAS Y COMPUTACIÓN

PERFIL PROFESIONAL

Magíster en Ingeniería en el área de Sistemas y computación. Especialista en Seguridad de la Información, Especialista en Docencia Universitaria, Profesional en Ingeniería de Sistemas. Catedrático en las Universidades Cooperativa y del Tolima. Amplia experiencia en proyectos de desarrollo de sistemas de información, herramientas de soporte a toma de decisiones, procesos de Transformación Digital y coaching de Innovación.

Temas

1. Almacenamiento
2. Servicio de almacenamiento
3. Beneficios y riesgos
4. Características
5. Durabilidad, disponibilidad, seguridad
6. Proveedores
7. Casos

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GOAL

Conocer el servicio de almacenamiento en la nube.

Historia 1

Como un diseñador de soluciones quiero conocer los servicios de almacenamiento en la nube para brindar soluciones con ellos

Storage

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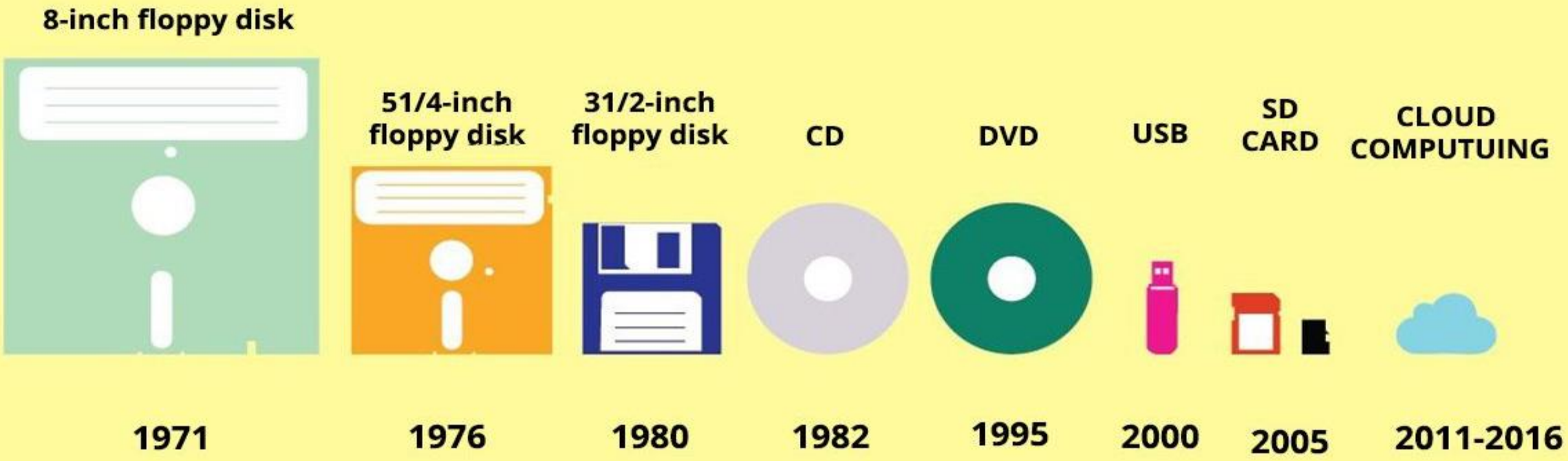
Medios de Almacenamiento



Azure Storage Services

- Azure Blobs: A massively scalable object store for text and binary data. Also includes support for big data analytics through Data Lake Storage Gen2.
- Azure Files: Managed file shares for cloud or on-premises deployments.
- Azure Queues: A messaging store for reliable messaging between application components.
- Azure Tables: A NoSQL store for schemaless storage of structured data.
- Azure Disks: Block-level storage volumes for Azure VMs.

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Benefits

Durable and highly available

Secure

Scalable

Managed

Accesible

Risks

Misconfiguration

Insufficient Data Governance

Poor Access control

Inadequate security controls

Sketchy regulatory compliance

Features

Simple Storage Service

S3 Standard

S3 Intelligent-Tiering

S3 Standard-IA

S3 One Zone-IA

S3 Glacier

S3 Glacier Deep Archive

Frequent — ***Access frequency*** — ***Archive***

- Active, frequently accessed data
- Milliseconds access
- ≥ 3 AZ
- $0.0210/GB

- Data with changing access patterns
- Milliseconds access
- ≥ 3 AZ
- $0.0210 to $0.0125/GB
- Monitoring fee per object
- Min storage duration

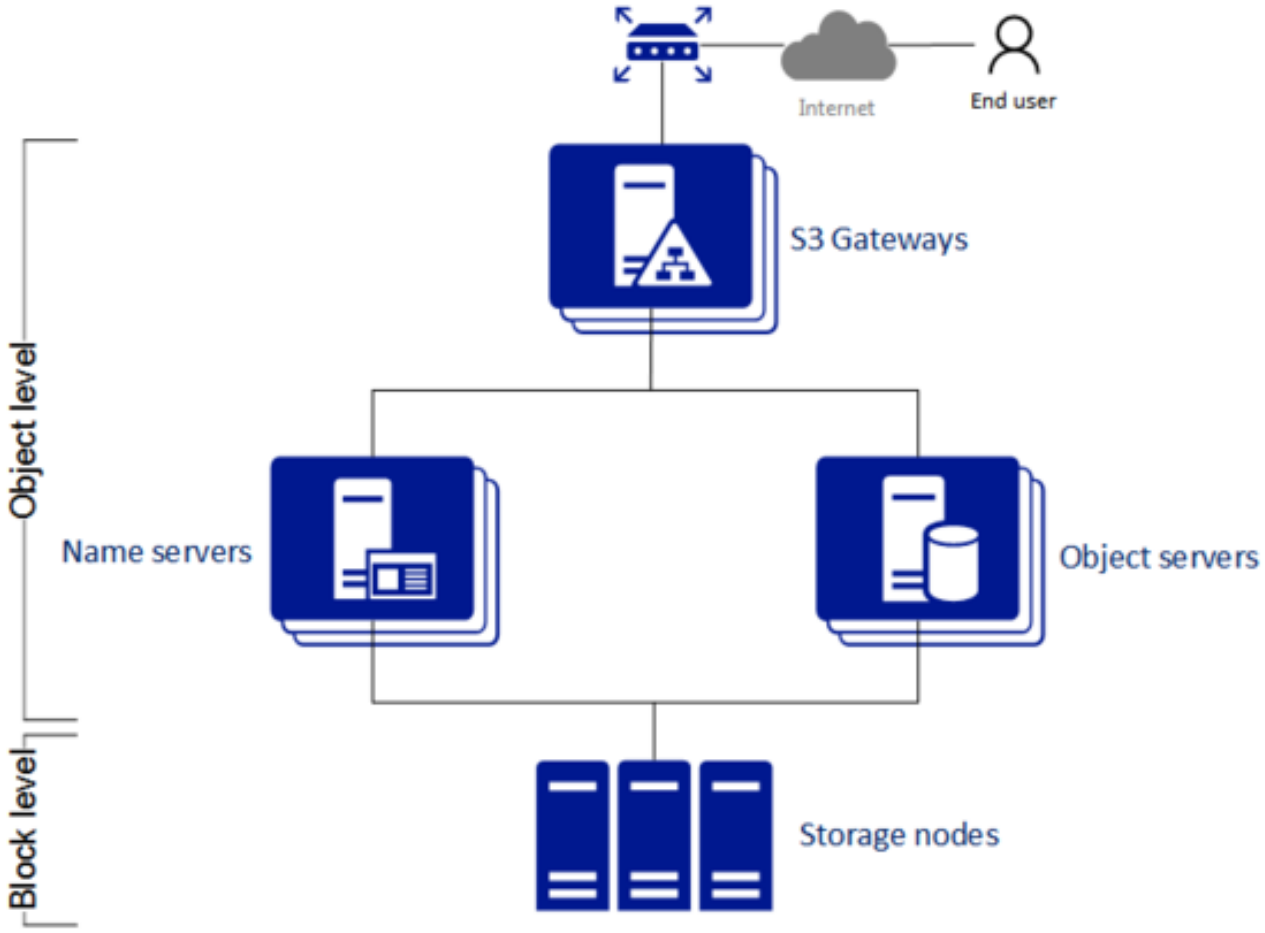
- Infrequently accessed data
- Milliseconds access
- ≥ 3 AZ
- $0.0125/GB
- Retrieval fee per GB
- Min storage duration
- Min object size

- Re-creatable, less accessed data
- Milliseconds access
- 1 AZ
- $0.0100/GB
- Retrieval fee per GB
- Min storage duration
- Min object size

- Archive data
- Select minutes or hours
- ≥ 3 AZ
- $0.0040/GB
- Retrieval fee per GB
- Min storage duration

- Long-term archive-data
- Select hours
- ≥ 3 AZ
- $0.00099/GB
- Retrieval fee per GB
- Min storage duration

Funcionamiento de S3



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Principal cloud storage uses

- Data backup and archival storage
- Disaster recovery and redundant infrastructure
- Unstructured file sharing and collaboration
- Databases for legacy applications
- Streaming, log and transaction data collection and analysis using machine learning, deep learning and business intelligence software
- Object storage for modern containerized, serverless applications

SOURCE: KURT MARKO; ILLUSTRATION: SKYPICSSTUDIO/ADOBE STOCK

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Requisitos

Durabilidad

Disponibilidad

Seguridad

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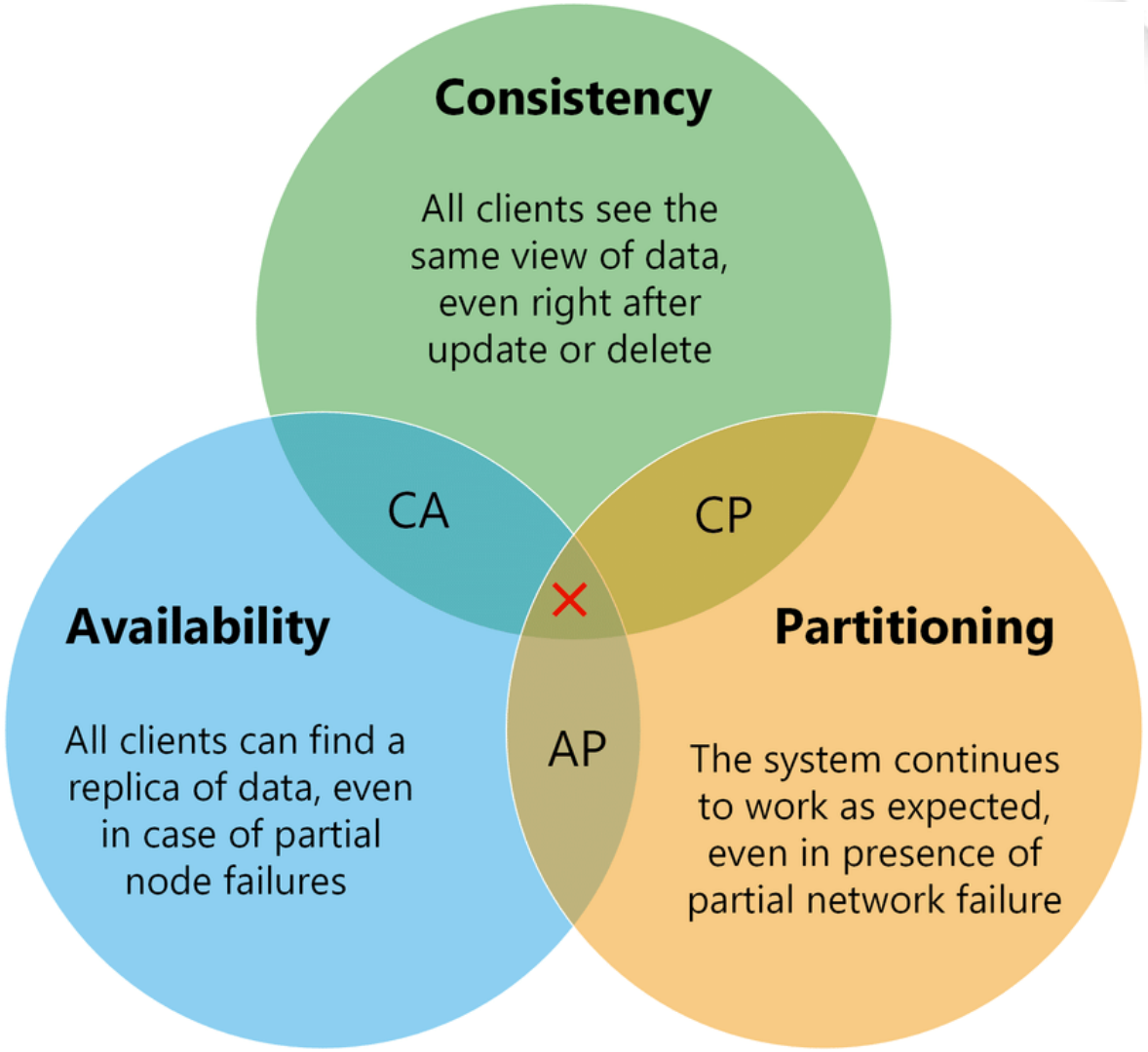
CAP Theorem



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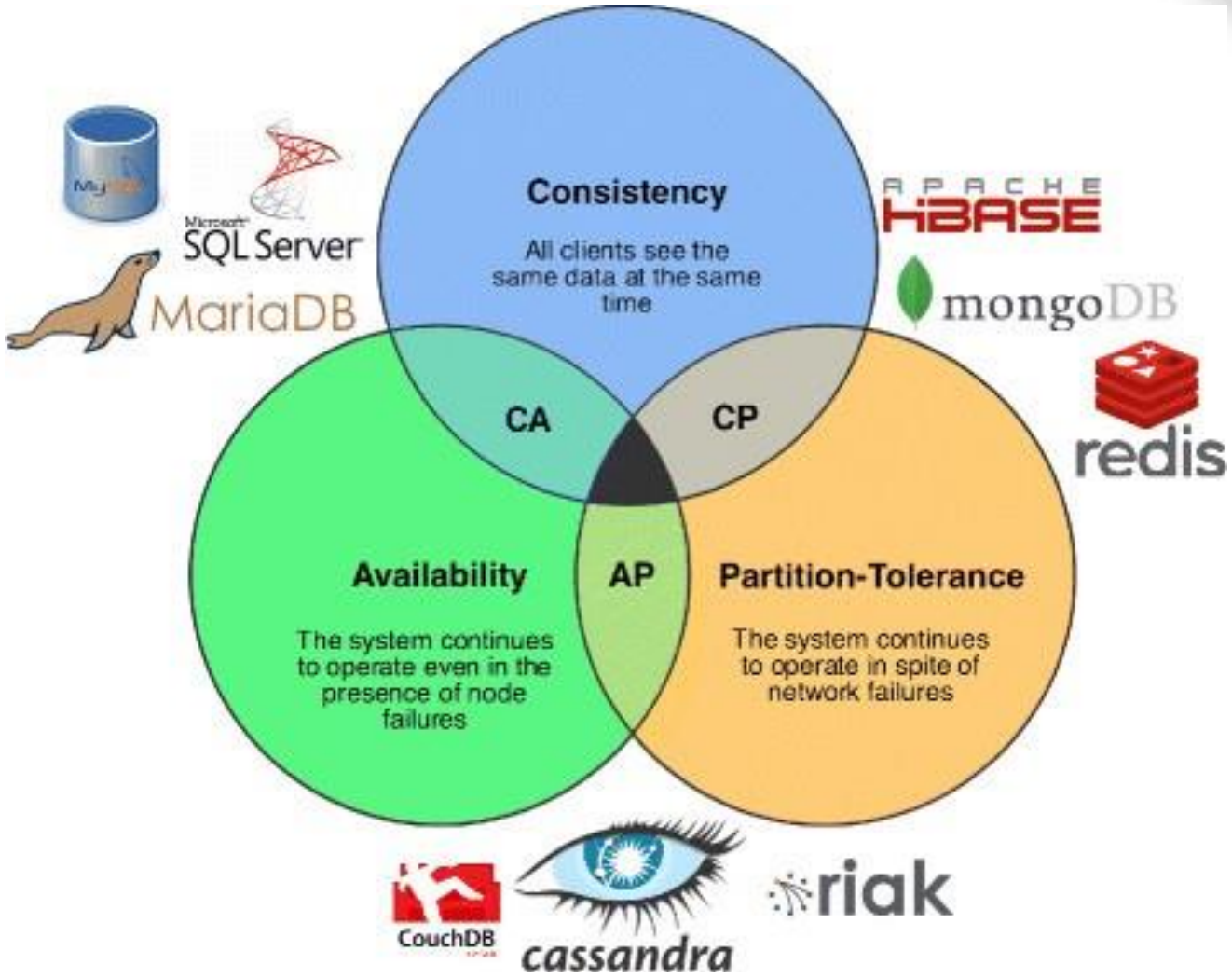
CAP Theorem



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Proveedores

Amazon S3 Glacier | Google Cloud Storage | Azure Blob Storage

		Data Retrieval				Storage	
		Retrieval method	Cost per 1,000 requests	Cost per GB	Retrievel time	Cost per GB per Month	Minimum storage duration
AWS	S3 Glacier Instant Retrieval	-	-	$0.03	milliseconds	$0.004	90 days
	S3 Glacier Flexible Retrieval	Expedited	$10.00	$0.03	1–5 minutes	$0.0036	90 days
		Standard	$0.05	$0.01	3–5 hours	$0.0036	90 days
		Bulk	free	free	5–12 hours	$0.0036	90 days
	S3 Glacier Deep Archive	Standard	$0.10	$0.02	within 12 hours	$0.00099	180 days
		Bulk	$0.025	$0.0025	within 48 hours	$0.00099	180 days
GCP	Cloud Storage Archive Storage	-	-	$0.05	milliseconds	$0.0012	365 days
Azure	Blob Storage Archive access tier	-	-	$0.02	up to 15 hours	$0.002	180 days

Mapa de servicios

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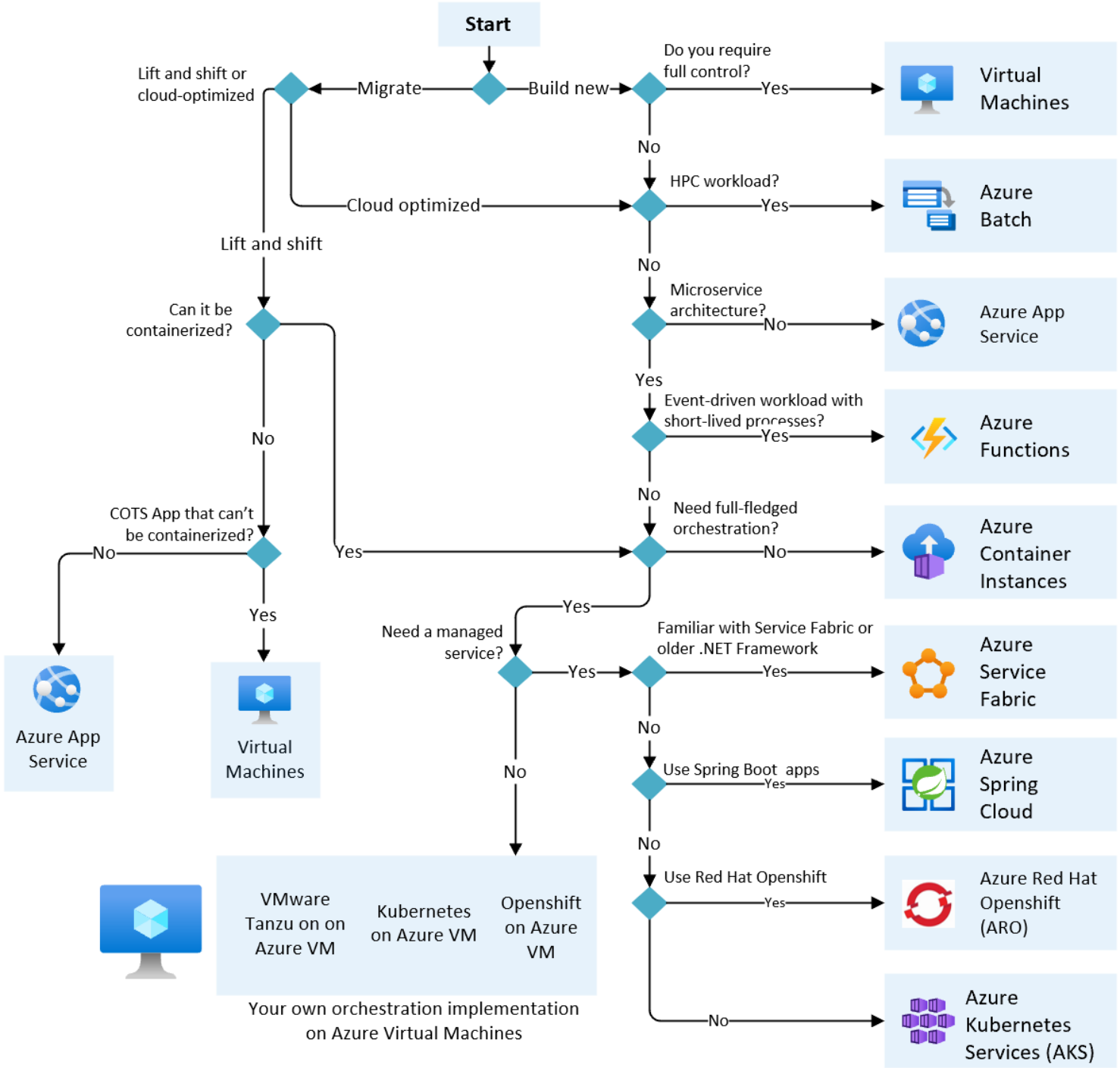
Casos de uso

- Desarrollo de aplicaciones
- Inteligencia artificial
- Migración y modernización en la nube
- Datos y análisis
- Nube e infraestructura híbridas
- Internet of Things
- Seguridad y gobernanza



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Migration

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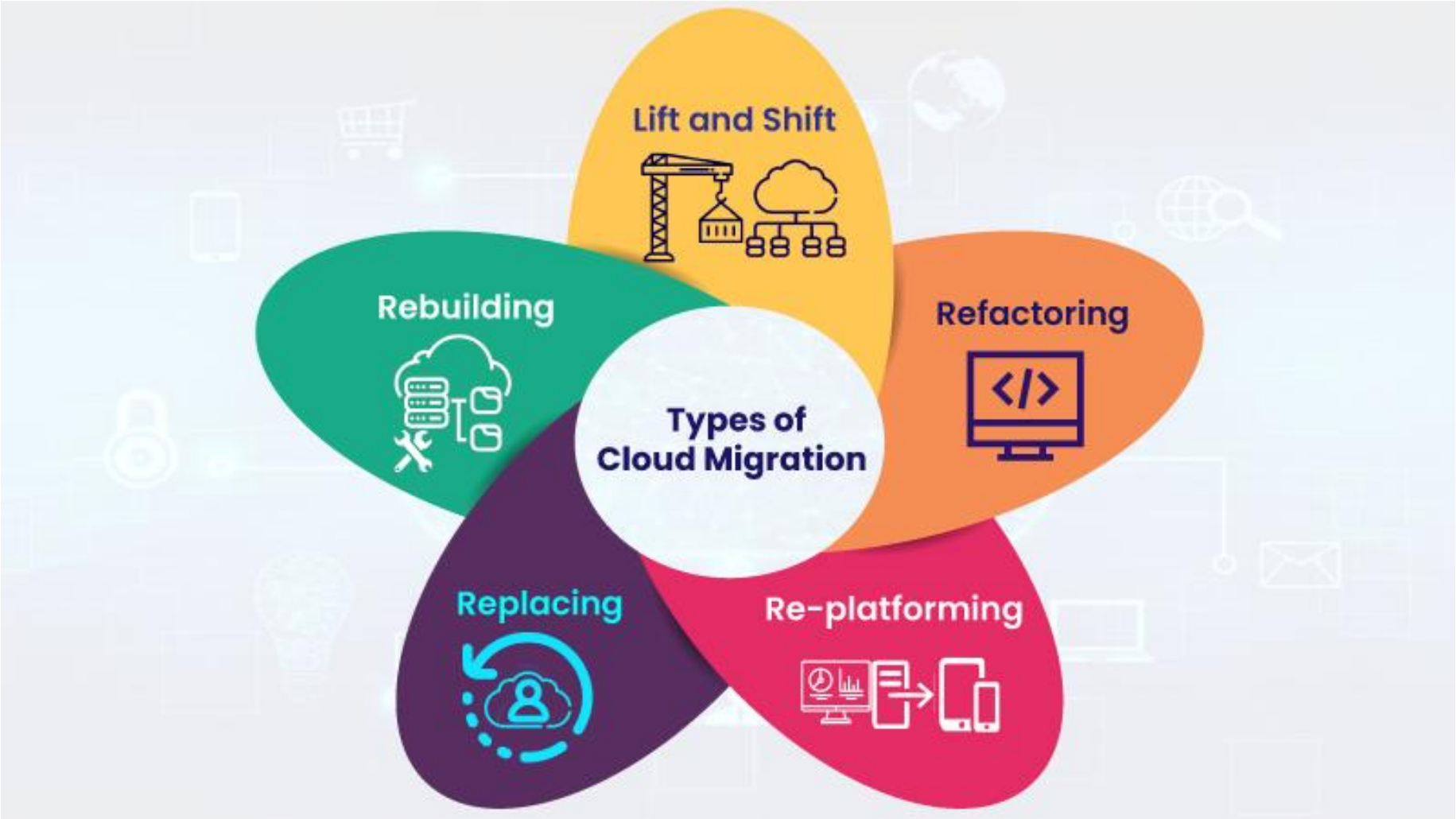
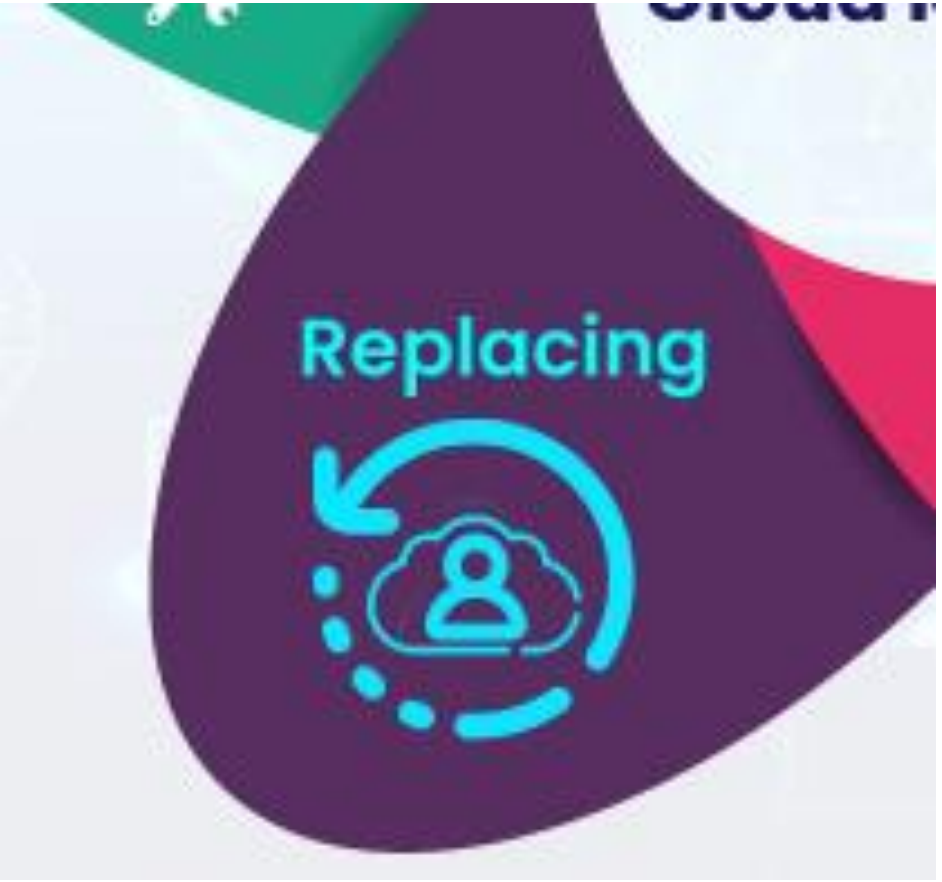
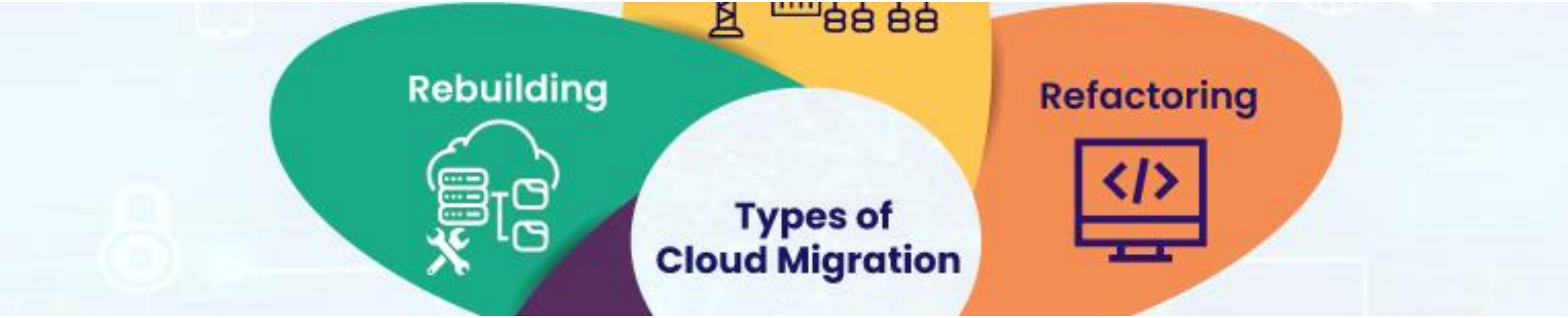
Strategies


Lift and Shift
Refactoring
Re-platforming
Replacing
Rebuilding
Types of
Cloud Migration

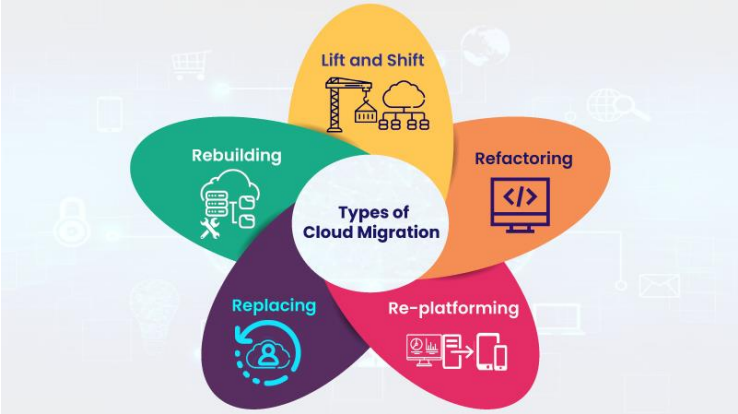
Replace (SaaS)



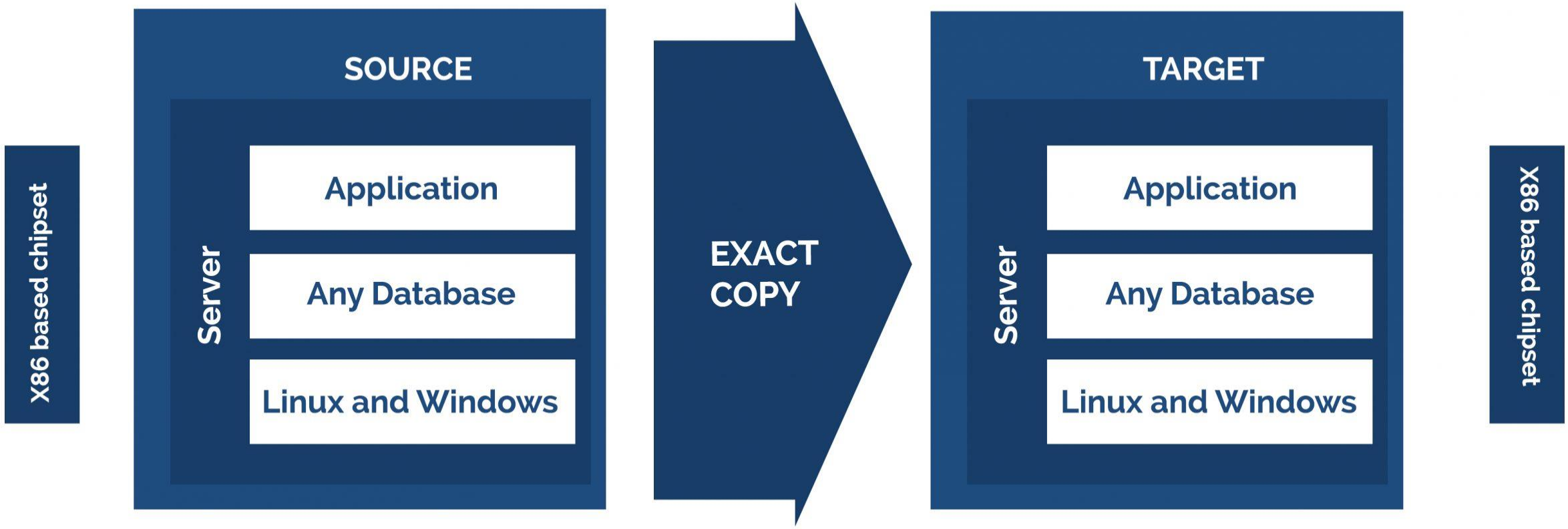
Refactor/Rebuild (PaaS)



Rehost/Replatform (IaaS)



Lift and Shift



Lift and Shift

Plan

Planning the strategy

Prepare

Get data, platform and people ready to migrate

Test

How long the migration will take to work?

Migrate

Resolve all the issues and move data & users to Cloud

Launch

Assist users to get set up, learn cloud, retire server

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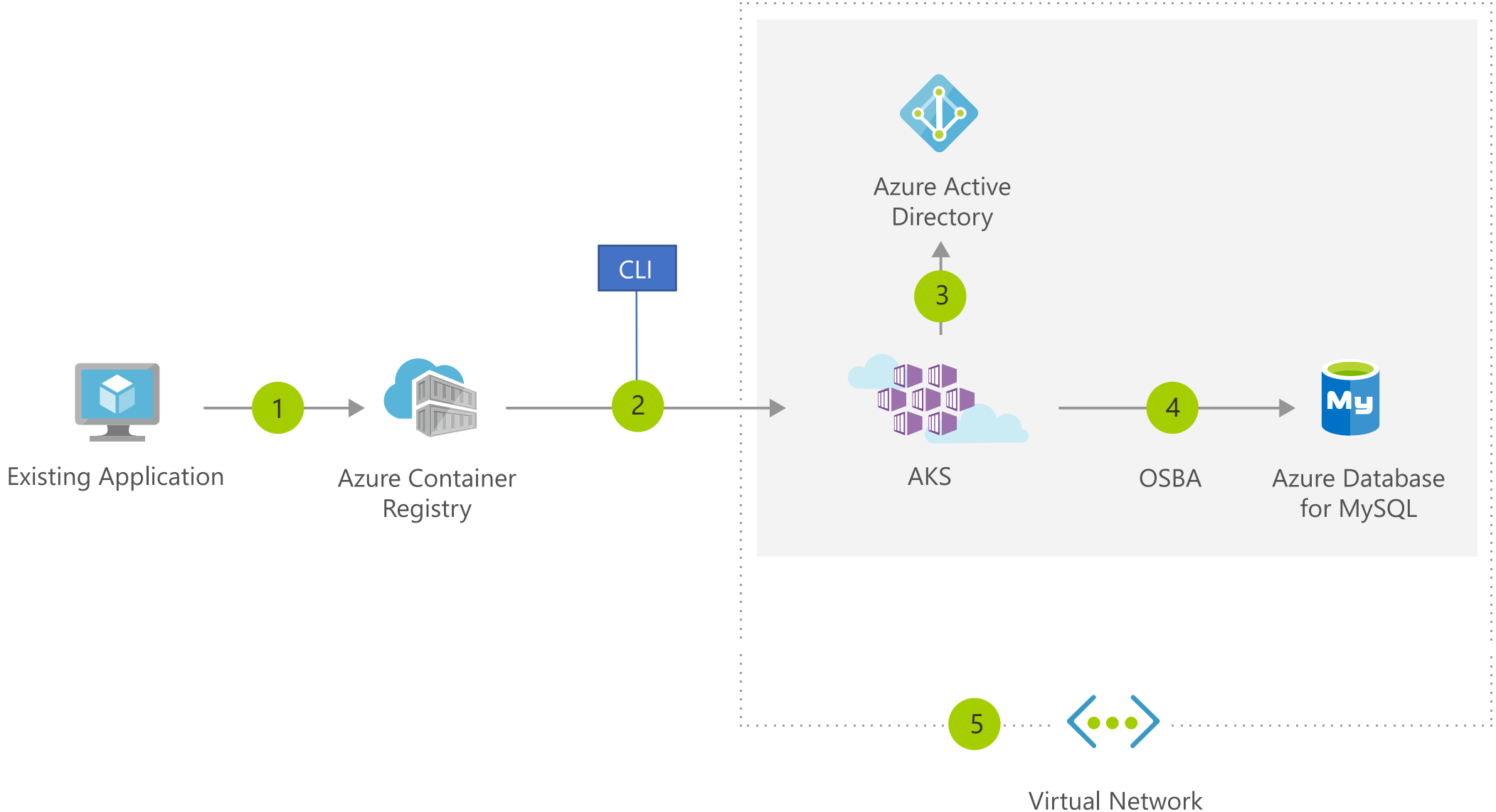
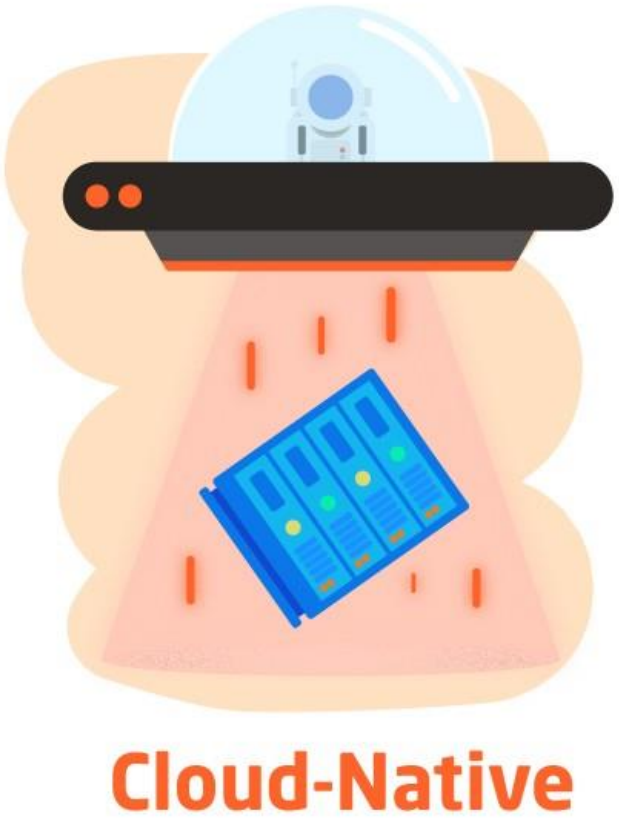
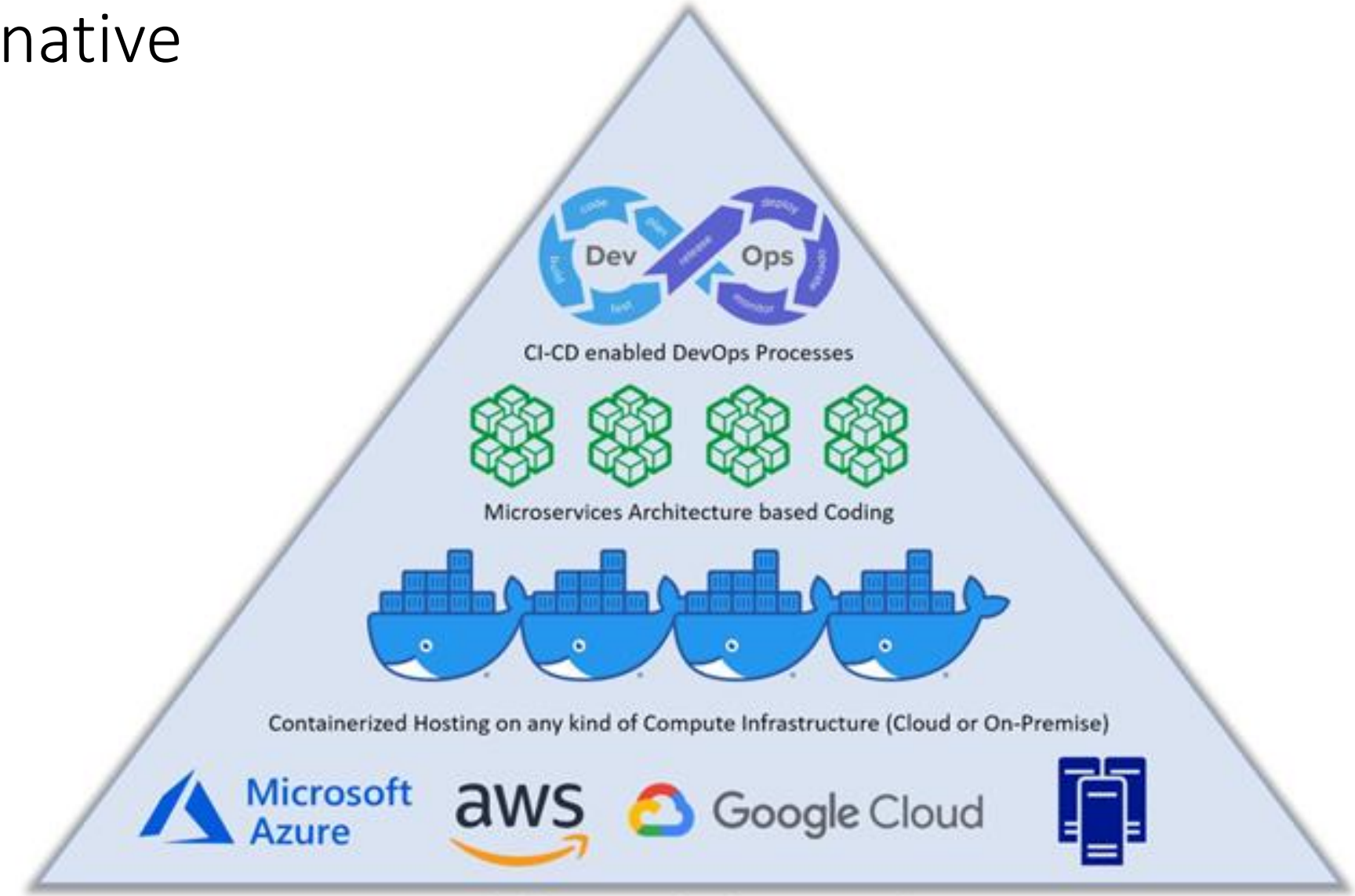
Lift and Shift



Lift and Shift -> Cloud-native

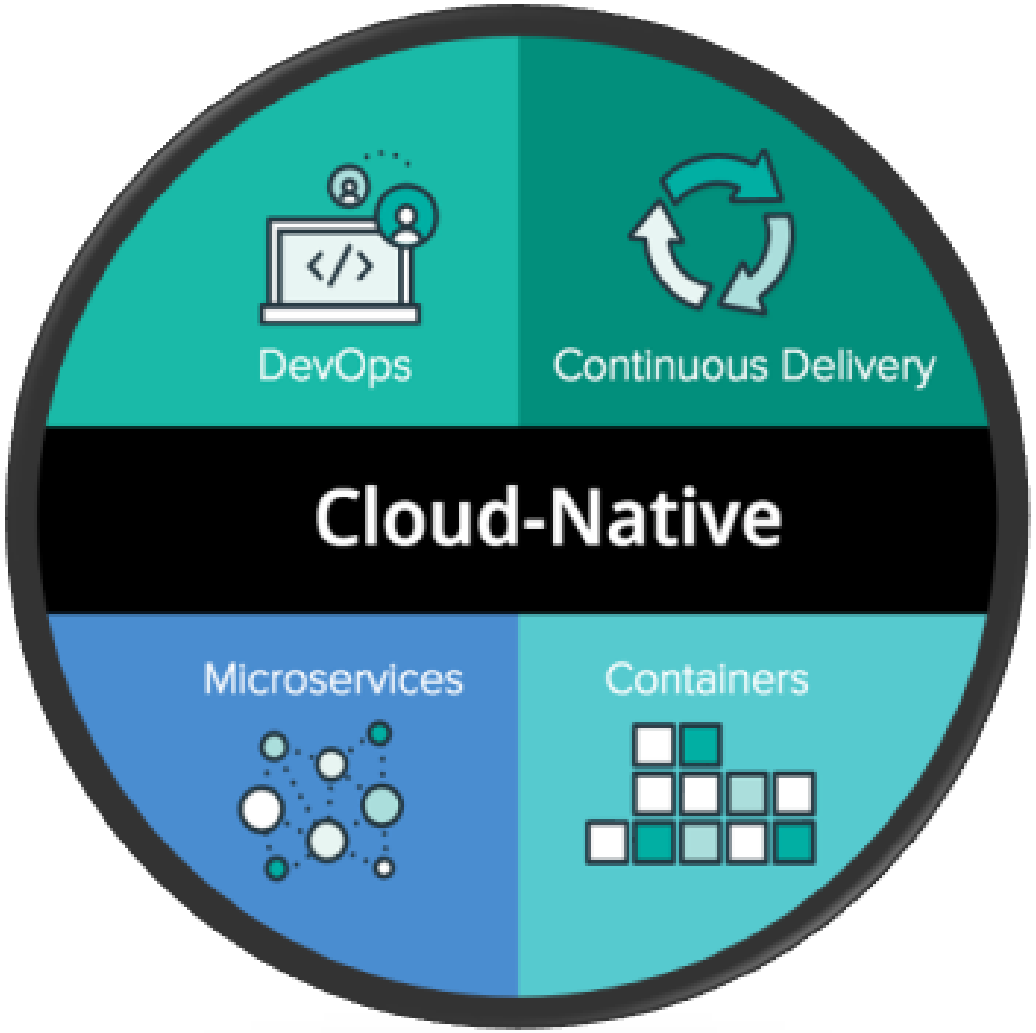


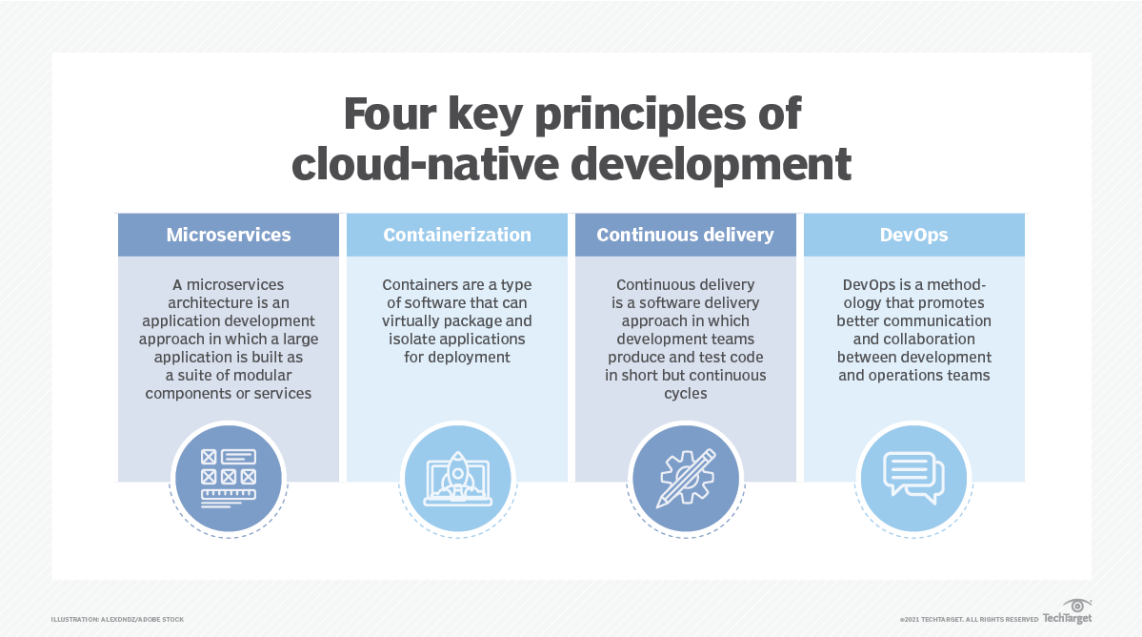
Cloud-native



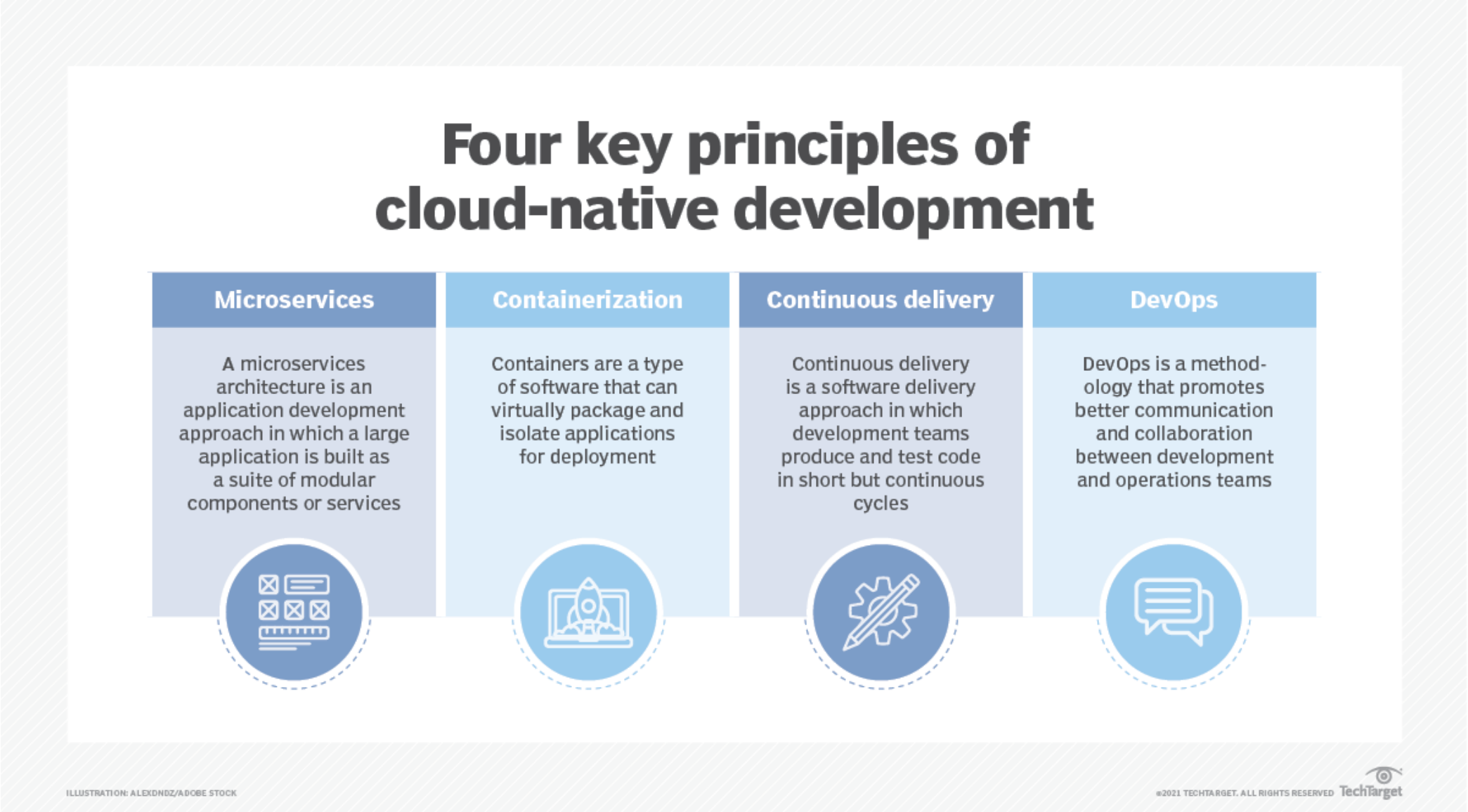
Cloud Native Technologies Pyramid

Cloud-Native





Cloud-Native



Journey

Stage	NO PROCESS	WATERFALL	AGILE	CLOUD NATIVE	NEXT
CULTURE	Individualist	Predictive	Iterative	Collaborative	Experimental
PROD/SERVICE DESIGN	Arbitrary	Long-term plan	Feature driven	Data driven	All driven
TEAM	No organization, single contributor	Hierarchy	Cross-functional teams	DevOps / SRE	Internal supply chains
PROCESS	Random	Waterfall	Agile (Scrum/Kanban)	Design Thinking + Agile + Lean	Distributed, self-organized
ARCHITECTURE	Emerging from trial and error	Tightly coupled monolith	Client server	Microservices	Functions
MAINTENANCE	Respond to users complaints	Ad-hoc monitoring	Alerting	Full observability & self-healing	Preventive ML, AI
DELIVERY	Irregular releases	Periodic releases	Continuous Integration	Continuous Delivery	Continuous Deployment
PROVISIONING	Manual	Scripted	Config. management (Puppet/Chef/Ansible)	Orchestration (Kubernetes)	Serverless
INFRASTRUCTURE	Single server	Multiple servers	VMs (pets)	Containers/ hybrid cloud (cattle)	Edge computing

Storage Demo

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	(per 1,000 requests)	PUT, COPY, POST, LIST requests	GET, SELECT, All other requests	Lifecycle Transition requests into
AWS	S3 Glacier Instant Retrieval	$0.02	$0.01	$0.02
	S3 Glacier Flexible Retrieval	$0.03	$0.0004	$0.03
	S3 Glacier Deep Archive	$0.05	$0.0004	$0.05
GCP	(per 10,000 operations)	Most of the operations of Storage (Class A, B)		
	Cloud Storage Archive Storage	$0.50		
Azure	(per 10,000 operations)	Write, Iterative Write(100's)	Read, Iterative Read, All other Operations	
	Blob Storage Archive access tier	$0.13	$6.50	

Curso: MACHINE LEARNING | UCompensar - Detalle de la reu | Epic 7: ML 101 - Boards | Storage accounts - Microsoft A | QuickStart: Create a static HTM

https://portal.azure.com/#blade/HubsExtension/BrowseResource/resourceType/Microsoft.Storage%2FSto

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home >

Storage accounts

Ucompensar (ucompensar.edu.co)

+ Create | Manage view | Refresh | Export to CSV | Open query | Assign tags | Delete

Filter for any field... | Subscription == **all** | Resource group == **all** | Location == **all** | Add filter

No grouping | List view

Name	Type	Kind	Resource group	Location	Subscription
recows8146016283	Storage account	StorageV2	reco_rg	South Central US	Azure for Students
sa93383632	Storage account	StorageV2	cloud-shell-storage-southce...	South Central US	Azure for Students

< Previous | Page 1 of 1 | Next > | Showing 1 to 2 of 2 records.

Give feedback

ESP 11:08 p. m. 12/05/2022

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https://portal.azure.com/#create/Microsoft.StorageAccount

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home > Storage accounts >

Create a storage account

Basics | Advanced | Networking | Data protection | Encryption | Tags | Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. Learn more about Azure storage accounts

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * Azure for Students

Resource group * (New) storage_rg

Create new

Review + create | < Previous | Next : Advanced >

ESP 11:09 p. m. 12/05/2022

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Home > Storage accounts >

Create a storage account

Basics • Advanced Networking Data protection Encryption Tags Review + create

Data Lake Storage Gen2

The Data Lake Storage Gen2 hierarchical namespace accelerates big data analytics workloads and enables file-level access control lists (ACLs). Learn more

Enable hierarchical namespace ☐

Blob storage

Enable SFTP (preview) ☐

To enable SFTP, 'hierarchical namespace' must be enabled.

Enable network file system v3 ☐

To enable NFS v3 'hierarchical namespace' must be enabled. Learn more about NFS

Review + create | < Previous | Next : Networking >

ESP 11:10 p. m. 12/05/2022

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Home > Storage accounts >

Create a storage account

Basics | Advanced | Networking | Data protection | Encryption | Tags | Review + create

Enable network file system v3 ☐

To enable NFS v3 'hierarchical namespace' must be enabled. Learn more about NFS v3

Allow cross-tenant replication ☑

Access tier

- (●) **Hot:** Frequently accessed data and day-to-day usage scenarios
- ( ) **Cool:** Infrequently accessed data and backup scenarios

Azure Files

Enable large file shares ☐

Review + create | < Previous | Next : Networking >

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Home > Storage accounts >

Create a storage account

Basics | Advanced | Networking | Data protection | Encryption | Tags | Review + create

If you need to create a legacy storage account type, please click here.

Storage account name * coursestorage93383632

Region * (US) East US

Performance *

- (●) **Standard:** Recommended for most scenarios (general-purpose v2 account)
- ( ) **Premium:** Recommended for scenarios that require low latency.

Redundancy * Geo-redundant storage (GRS)

[x] Make read access to data available in the event of regional unavailability.

Review + create | < Previous | Next : Advanced >

ESP 11:12 p. m. 12/05/2022

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https://portal.azure.com/#blade/HubsExtension/DeploymentDetailsBlade/overview/id/%2Fsubscriptions%

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Home >

coursestorage93383632_1652415181955 | Overview

Deployment

Search (Ctrl+/)

- Overview
- Inputs
- Outputs
- Template

Delete | Cancel | Redeploy | Refresh

We'd love your feedback! →

Deployment is in progress

Deployment name: coursestorage93383632_1652415181955
Subscription: Azure for Students
Resource group: storage_rg

Start time: 5/12/2022, 11:13:03 PM
Correlation ID: 6c14cbf0-e7cd-4033-b600-ab131f94b21a

Deployment details (Download)

Resource	Type	Status	Operation details
No results.			

ESP 11:13 p. m. 12/05/2022

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https://portal.azure.com/#blade/HubsExtension/DeploymentDetailsBlade/overview/id/%2Fsubscriptions%

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Home >

coursestorage93383632_1652415181955 | Overview

Deployment

Search (Ctrl+/)

- Overview
- Inputs
- Outputs
- Template

Delete | Cancel | Redeploy | Refresh

Deployment succeeded

Deployment 'coursestorage93383632_1652415181955' to resource group 'storage_rg' was successful.

Go to resource | Pin to dashboard

We'd love your feedback! →

Your deployment is complete

Deployment name: coursestorage93383632_165241518...
Subscription: Azure for Students
Resource group: storage_rg

Start time: 5/12/2022, 11:13:03 PM
Correlation ID: 6c14cbf0-e7cd-4033-b600-ab131f94b21a

Deployment details (Download)

Next steps

Go to resource

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Start learning today >

https://portal.azure.com/#blade/HubsExtension/DeploymentDetailsBlade/template/id//subscriptions/1aee89a2-7a89-40a2-a93.../{"bladeName":"StorageAccountCreate.ReactView","extension":"fx","telemetryId":"c7d9d8b6-ffd6-42a2-a7b8-2a8c92aa8a26"}

ESP 11:13 p. m. 12/05/2022

Curso: MACHINE LE | UCompensar - Deta | Epic 7: ML 101 - Boa | New container - Mic | Upload and analyze | Connect to your Azu | QuickStart: Create a

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a937-43c

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Home > Storage accounts > coursestorage93383632

Storage accounts
Ucompensar (ucompensar.edu.co)

+ Create | Manage view | ...

Filter for any field...

Name

- coursestorage93383632
- recows8146016283
- sa93383632

Page 1 of 1

coursestorage93383632 | Containers
Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser (preview)

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

- Networking

+ Container | Change access level | Restore

Search containers by prefix

Name	Last
$logs	5/12,

New container

Name *
projectc

Public access level
Private (no anonymous access)

Advanced

Encryption scope
Select from existing account scopes

Use this encryption scope for all blobs in the container

Enable version-level immutability support

In order to enable version-level immutability support, your storage account must have versioning turned on.

Create | Discard

Create

ESP 11:23 p. m. 12/05/2022

Curso: MACH | UCompensar | Epic 7: ML 101 | sa9338363 | Azure App Ser | Upload and ar | Connect to yo | QuickStart: Cr | how to access | PikApp - Sample S

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a937-

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Home > cloud-shell-storage-southcentralus >

sa93383632

Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser (preview)

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

Upload | Open in Explorer | Delete | Move | Refresh | Mobile | Feedback

Azure Storage Explorer

Open Azure Storage Explorer

You can download Azure Storage Explorer if you do not have it yet

Close

Disk state : Available

Created : 4/28/2022, 11:47:26 PM

Tags (edit) : ms-resource-usage : azure-cloud-shell

Properties | Monitoring | Capabilities (7) | Recommendations | Tutorials | Developer Tools

Blob service

Hierarchical namespace	Disabled
Default access tier	Hot
Blob public access	Disabled
Blob soft delete	Disabled
Container soft delete	Disabled
Versioning	Disabled

Security

Require secure transfer for REST API operations	Enabled
Storage account key access	Enabled
Minimum TLS version	Version 1.2
Infrastructure encryption	Disabled

ESP 7:32 a. m. 13/05/2022

Storage
y
Monitoring
Mobile App

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Historia 3

Como un ingeniero de datos quiero tener un almacenamiento tipo BLOB, para utilizarlo como entrada de un tablero.

Free services

Services free for 12 months with the Azure free account

Services that are included for free with your Azure free account. You can use these services within the limits listed below without getting charged. To learn more, see the Azure free account FAQ

Windows Virtual Machine
COMPUTE

750 hours

B1S

Create Windows virtual machines with on-demand capacity in seconds. Learn more

Create

Linux Virtual Machine
COMPUTE

750 hours

B1S

Create Linux virtual machines with on-demand capacity in seconds. Learn more

Create

Azure Managed Disks
STORAGE

64 GB x 2

Get premium, secured disk storage for Azure Virtual Machines with simplified management. Learn more

Azure Blob Storage
STORAGE

5 GB

LRS hot block

Use massively-scalable object storage for any type of unstructured data. Learn more

Create

Azure File Storage
STORAGE

5 GB

LRS File Storage

Key Vault
SECURITY

10,000 transactions

RSA 2048-bit keys or secret operations,

Azure Media Services Encoding...
MEDIA

20 output minutes

Standard encoder video or audio source file

Azure Database for MySQL
DATABASES

750 hours

of Flexible Server Preview—Burstable B1MS

https://portal.azure.com/#create/Microsoft.StorageAccount-ARM

Microsoft Azure

Search resources, services, and docs (G+/)

aayalap@ucompensar.e...
UCOMPENSAR (UCOMPENSAR.E...

Home > Free services >

Create a storage account

Basics | Advanced | Networking | Data protection | Encryption | Tags | Review + create

Subscription * Azure for Students

Resource group * (New) storage_group

Create new

Instance details

If you need to create a legacy storage account type, please click here.

Storage account name * aayala93383

Region * (US) East US

Review + create | < Previous | Next : Advanced >

ESP 11:42 p. m. 13/05/2022

https://portal.azure.com/#create/Microsoft.StorageAccount-ARM

Microsoft Azure

Search resources, services, and docs (G+/)

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Home > Free services >

Create a storage account

Validation passed

Basics | Advanced | Networking | Data protection | Encryption | Tags | Review + create

Basics

Subscription	Azure for Students
Resource Group	storage_group
Location	eastus
Storage account name	aayala93383
Deployment model	Resource manager
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

Secure transfer	Enabled

Create | < Previous | Next > | Download a template for automation

ESP 11:44 p. m. 13/05/2022

Microsoft Azure

Search resources, services, and docs (G+/)

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UCOMPENSAR (UCOMPENSAR.E...

Home >

aayala93383_1652503454782 | Overview

Deployment

Search (Ctrl+/)

- Overview
- Inputs
- Outputs
- Template

Delete | Cancel | Redeploy | Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: aayala93383_1652503454782
Subscription: Azure for Students
Resource group: storage_group

Start time: 5/13/2022, 11:44:16 PM
Correlation ID: 2df76390-fcf5-4c8f-8fdc-c90866d291f7

Deployment details (Download)

Next steps

Go to resource

Go to resource

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials
Start learning today >

Work with an expert

ESP 11:45 p. m. 13/05/2022

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home > aayala93383_1652503454782 >

aayala93383

Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser (preview)

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

Upload | Open in Explorer | Delete | Move | Refresh | Mobile | Feedback

Essentials — JSON View

Resource group (move)	: storage_group	Performance	: Standard
Location	: East US	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Location	: Primary: East US, Secondary: West US	Account kind	: StorageV2 (general purpose v2)
Subscription (move)	: Azure for Students	Provisioning state	: Succeeded
Subscription ID	: 1aee89a2-7a89-40a2-a937-43c65b418715	Created	: 5/13/2022, 11:44:18 PM
Disk state	: Primary: Available, Secondary: Available		

Tags (edit) : Click here to add tags

Properties | Monitoring | Capabilities (7) | Recommendations | Tutorials | Developer Tools

Blob service

Hierarchical namespace	Disabled
Default access tier	Hot
Blob public access	Enabled
Blob soft delete	Enabled (7 days)
Container soft delete	Enabled (7 days)

Security

Require secure transfer for REST API operations	Enabled
Storage account key access	Enabled
Minimum TLS version	Version 1.2
Infrastructure encryption	Disabled

ESP 11:47 p. m. 13/05/2022

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home > aayala93383_1652503454782 >

aayala93383

Storage account

Search (Ctrl+/)

- Overview
- Activity log
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- Diagnose and solve problems
- Access Control (IAM)
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- Containers
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- Tables

Security + networking

Upload | Open in Explorer | Delete | Move | Refresh | Mobile | Feedback

Essentials

Resource group (move)	: storage_group	Performance	: S
Location	: East US	Replication	: R
Primary/Secondary Location	: Primary: East US, Secondary: West US	Account kind	: S
Subscription (move)	: Azure for Students	Provisioning state	: S
Subscription ID	: 1aee89a2-7a89-40a2-a937-43c65b418715	Created	: 5
Disk state	: Primary: Available, Secondary: Available		

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Properties | Monitoring | Capabilities (7) | Recommendations | Tutorials | Developer Tools

Blob service

Hierarchical namespace	Disabled
Default access tier	Hot
Blob public access	Enabled
Blob soft delete	Enabled (7 days)
Container soft delete	Enabled (7 days)

Security

Require secure t operations

Storage account

Minimum TLS ve

Infrastructure en

Upload blob

Select an existing container *

(new) newcontainer

Create new

Files

"CC_01_reconocimiento.pdf"

☐ Overwrite if files already exist

Advanced

Authentication type

Azure AD user account | Account key

Blob type

Block blob

☑ Upload .vhd files as page blobs (recommended)

Block size

4 MB

Access tier

Hot (Inferred)

Upload to folder

ESP 11:48 p. m. 13/05/2022

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home > aayala93383_1652503454782 >

aayala93383

Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser (preview)

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

Upload | Open in Explorer | Delete | Move | Refresh | Mobile | Feedback

Essentials

Resource group (move)	: storage_group	Performance	: S
Location	: East US	Replication	: R
Primary/Secondary Location	: Primary: East US, Secondary: West US	Account kind	: S
Subscription (move)	: Azure for Students	Provisioning state	: S
Subscription ID	: 1aee89a2-7a89-40a2-a937-43c65b418715	Created	: S
Disk state	: Primary: Available, Secondary: Available		

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Properties | Monitoring | Capabilities (7) | Recommendations | Tutorials | Developer Tools

Blob service

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Blob public access	Enabled
Blob soft delete	Enabled (7 days)
Container soft delete	Enabled (7 days)

Security

Require secure t operations

Storage account

Minimum TLS ve

Infrastructure en

Upload blob

- (•) Use existing default container scope
- ( ) Choose an existing scope

Container settings prevent overriding its encryption scope

Retention policy

- (•) No retention
- ( ) Choose custom retention period:

05/13/2022 | 11:47:53 PM

Enable version-level immutability on the container to set a retention policy.

Upload

Current uploads

Dismiss: Completed All

CC_01_reconocimiento.pdf | 8 MiB / 8 MiB

ESP 11:50 p. m. 13/05/2022

Microsoft Azure

Search resources, services, and docs (G+/)

aayalap@ucompensar.e...
UCOMPENSAR (UCOMPENSAR.E...

Home > aayala93383_1652503454782 > aayala93383

aayala93383 | Storage browser (preview)

Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser (preview)

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

aayala93383

- Favorites
- Recently viewed
- Blob containers
  - $logs
  - newcontainer
  - View all
- File shares
- Queues
- Tables

Add container | Upload | Refresh | Delete | Change access level | Restore containers

Blob containers

Search containers by prefix

Only show active containers

Showing all 2 items

Name	Last modified	Public access level	Lease state
$logs	5/13/2022, 11:44:40 PM	Private	Available
newcontainer	5/13/2022, 11:49:15 PM	Private	Available

ESP 11:50 p. m. 13/05/2022

Microsoft Azure

Search resources, services, and docs (G+/)

aayalap@ucompensar.e...
UCOMPENSAR (UCOMPENSAR.E...

Home > aayala93383_1652503454782 > aayala93383

aayala93383 | Storage browser (preview)

Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser (preview)

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

aayala93383

- Favorites
- Recently viewed
- Blob containers
  - $logs
  - newcontainer
  - View all
- File shares
- Queues
- Tables

Add Directory | Upload | Change access level | Refresh | Delete | Copy | Paste

Blob containers > newcontainer

Authentication method: Access key (Switch to Azure AD User Account)

Add filter

Search blobs by prefix (case-sensitive)

Only show active blobs

Showing all 1 items

Name	Last modified	Access tier	Blob type	Size
CC_01_reconocimiento.pdf	5/13/2022, 11:49:24 PM	Hot (Inferred)	Block blob	7.7 MiB

ESP 11:51 p. m. 13/05/2022

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home > aayala93383_1652503454782 >

aayala93383

Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
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Data storage

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- Tables

Security + networking

Upload | Open in Explorer | Delete | Move | Refresh | Mobile | Feedback

Essentials

Resource group (move)	: storage_group	Performance	: Standard
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Subscription (move)	: Azure for Students	Provisioning state	: Succeeded
Subscription ID	: 1aee89a2-7a89-40a2-a937-43c65b418715	Created	: 5/13/2022, 11:44:18 P
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Blob soft delete	Enabled (7 days)
Container soft delete	Enabled (7 days)

Security

Require secure transfer for REST API operations

Storage account key access

Minimum TLS version

Infrastructure encryption

Open in mobile

aayala93383

View this resource directly from your phone. Scan the QR code or use the link. Please ensure you have the latest version of the Azure mobile app.

Copy to clipboard

https://app.azure.com/4bf38ea2-832d- ...

Get the Azure mobile app. Stay connected to your Azure resources — anytime, anywhere.

Download on the App Store | GET IT ON Google Play

ESP 11:54 p. m. 13/05/2022

Safari 11:56 PM 28 %

Today

Microsoft Azure

Azure – anytime, anywhere

101 RATINGS	AGE	CATEGORY
4.9 ★★★★★	4+ Years Old	Business

No Service 5:48 PM 56%

Home

Azure services

Virtual machines · Web Apps · SQL databases · Application Insights

Recent resources — See All

- Subscription: Trey Research Finance
- Logic app: CostWatcher
- DevTest lab: BetaLab
- App Service plan: WestUS2Plan

No Service 5:51 PM

Home

Latest alerts

- Resolved: Monitoring
  Alert state: New
  Severity: Sev 3
- Resolved: Network ext
  Alert state: New
  Severity: Sev 3
- Resolved: Monitoring
  Alert state: New
  Severity: Sev 3
- Resolved: Network ext
  Alert state: New
  Severity: Sev 3

Favorites

Application Insights app

Camera 11:58 PM 25 %

aayala93383

Storage account

Primary — Available

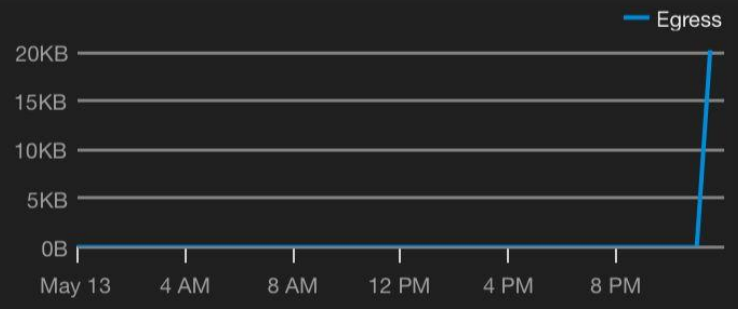
Secondary — Available

Activity log — See All

5 Info

Metrics — See All

Total egress



Resource health

Available

Properties — See All

Camera 11:59 PM 25 %

All resources

Search name, type or tags

- Storage account: aayala93383
- App Service plan: aayalap_asp_4634
- Resource group: aayalap_rg_4467
- Resource group: app_group
- Resource group: cloud-shell-storage-southcentralus
- Storage account: coursestorage93383632
- Data factory (V2): DFNodes
- Resource group: myresourcegroup

Alfonso Ayala Paloma | Payment methods

Billing account

Search (Ctrl+/)
Overview
Access control (IAM)
Billing scopes
Cost management
Cost analysis
Cost alerts
Budgets
Advisor recommendations
Billing
Invoices
Payment methods
Reservation transactions
Billing profiles
Products + services

Add payment method | Help | Feedback

Payment methods | Azure credits

Estimated balance

$99.14

0.86% of your total credit used.

Used | Amount remaining

Credit details

Source:	Azure for students credit
Effective date:	4/7/2022
Expiration date:	4/7/2023
Original amount:	$100.00
Status:	Active

Useful links

View credit eligible products

How do charges get applied to credits

Alfonso Ayala Paloma | Cost analysis

Billing account

Search (Ctrl+/)

- Overview
- Access control (IAM)
- Billing scopes

Cost management

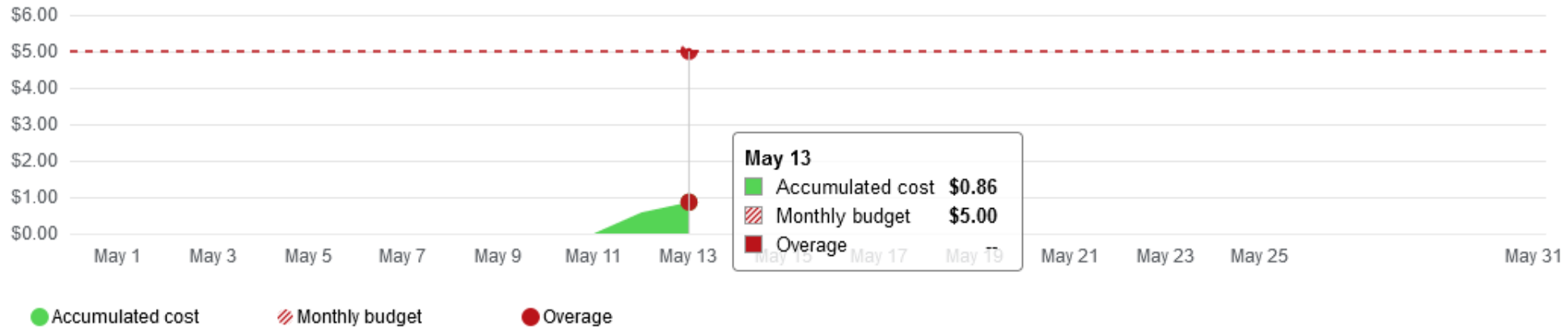
- Cost analysis
- Cost alerts
- Budgets
- Advisor recommendations

Billing

- Invoices
- Payment methods
- Reservation transactions
- Billing profiles

Products + services

Save | Save as | Delete view | Share | Subscribe | Refresh | Download | Cost by resource | Configure billing account



Service Family

Storage	$0.52
Compute	$0.24
Networking	$0.10
Analytics	$0.00

Location

us south central	$0.86
eu west	$0.00
us east	$0.00

Subscription

Azure for Stud...	$0.86

Github

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INSTALLATION & GUIS

With platform specific installers for Git, GitHub also provides the ease of staying up-to-date with the latest releases of the command line tool while providing a graphical user interface for day-to-day interaction, review, and repository synchronization.

GitHub for Windows
https://windows.github.com

GitHub for Mac
https://mac.github.com

For Linux and Solaris platforms, the latest release is available on the official Git web site.

Git for All Platforms
http://git-scm.com

SETUP

Configuring user information used across all local repositories

`git config --global user.name "[firstname lastname]"`	set a name that is identifiable for credit when review version history
`git config --global user.email "[valid-email]"`	set an email address that will be associated with each history marker
`git config --global color.ui auto`	set automatic command line coloring for Git for easy reviewing

SETUP & INIT

Configuring user information, initializing and cloning repositories

`git init`	initialize an existing directory as a Git repository
`git clone [url]`	retrieve an entire repository from a hosted location via URL

STAGE & SNAPSHOT

Working with snapshots and the Git staging area

`git status`	show modified files in working directory, staged for your next commit
`git add [file]`	add a file as it looks now to your next commit (stage)
`git reset [file]`	unstage a file while retaining the changes in working directory
`git diff`	diff of what is changed but not staged
`git diff --staged`	diff of what is staged but not yet committed
`git commit -m "[descriptive message]"`	commit your staged content as a new commit snapshot

BRANCH & MERGE

Isolating work in branches, changing context, and integrating changes

`git branch`	list your branches. a * will appear next to the currently active branch
`git branch [branch-name]`	create a new branch at the current commit
`git checkout`	switch to another branch and check it out into your working directory
`git merge [branch]`	merge the specified branch's history into the current one
`git log`	show all commits in the current branch's history

SHARE & UPDATE

Retrieving updates from another repository and updating local repos

`git remote add [alias] [url]`	add a git URL as an alias
`git fetch [alias]`	fetch down all the branches from that Git remote
`git merge [alias]/[branch]`	merge a remote branch into your current branch to bring it up to date
`git push [alias] [branch]`	Transmit local branch commits to the remote repository branch
`git pull`	fetch and merge any commits from the tracking remote branch

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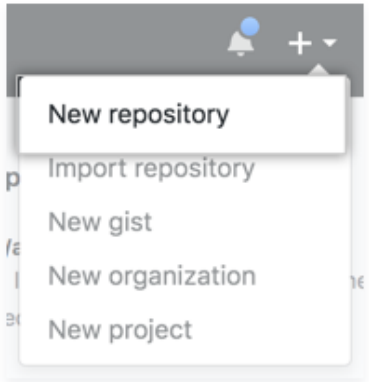
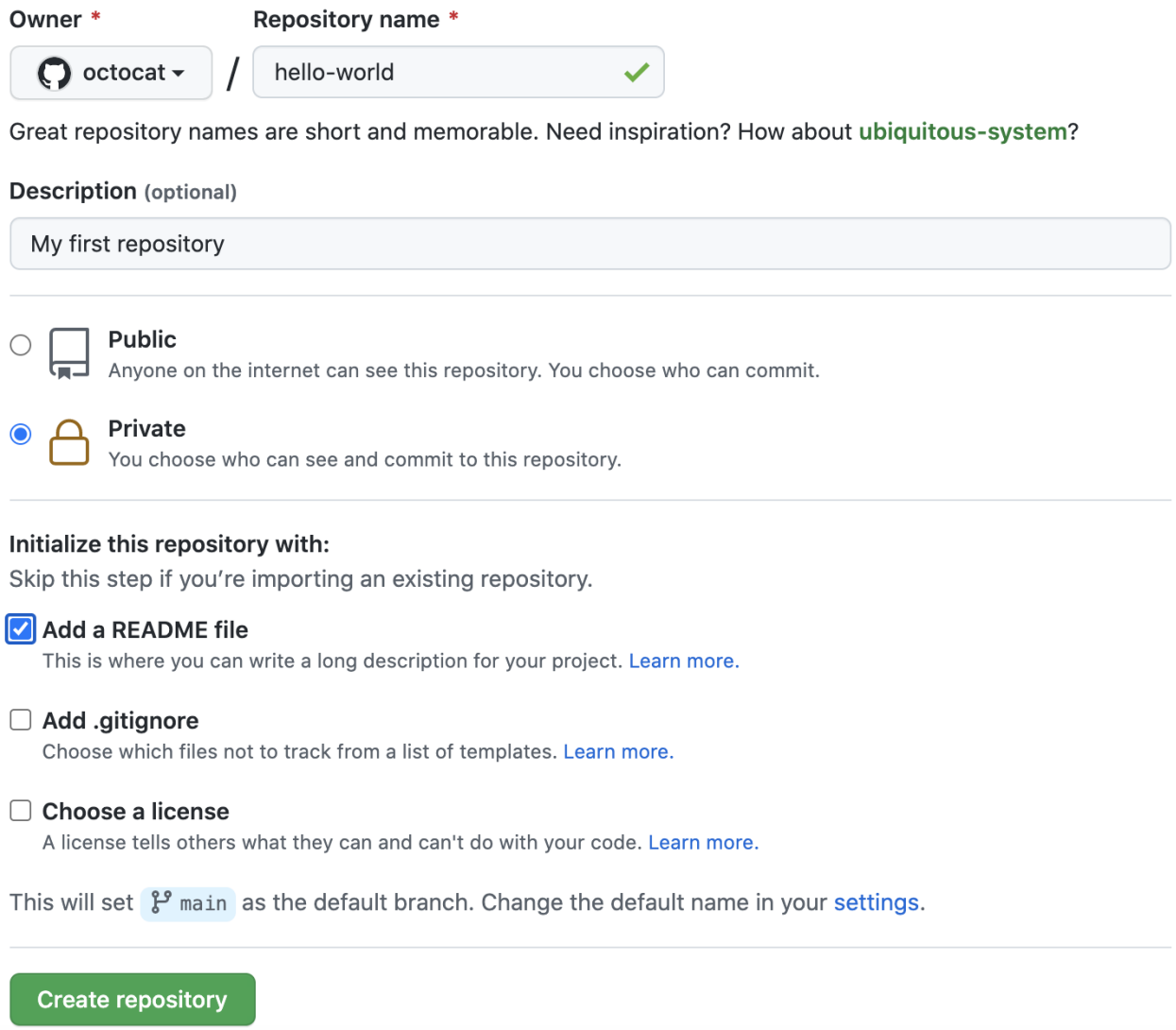
Github

1. En la esquina superior derecha de cualquier página, utiliza el menú desplegable + y selecciona **Repositorio Nuevo**.



2. En la caja de **Nombre de repositorio**, ingresa `hello-world`.
3. En la caja de **Descripción**, escribe una descripción corta.
4. Selecciona **Agregar un archivo README**.
5. Selecciona si tu repositorio será **Público** o **Privado**.
6. Haz clic en **Crear repositorio**.



Actividad

Crear una cuenta en github

Crear un repositorio en github

DaaS
Database as a Service

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Historia 3

Como un ingeniero de datos quiero crear una base de datos en la nube, para utilizarlo como almacenamiento de una aplicación.

https://portal.azure.com/#blade/Microsoft_Azure_Billing/FreeServicesBlade

Microsoft Azure

Search resources, services, and docs (G+/)

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UCOMPENSAR (UCOMPENSAR.E...

Home >

Free services

Create

Create

Create

Create

Azure Database for PostgreSQL
DATABASES

750 hours

of Flexible Server Preview—Burstable B1MS Instance, 32 GB of storage, and 32 GB of backup storage.

Build intelligent, scalable apps with fully managed database for PostgreSQL. Learn more

Create

Create

Azure SQL Database
DATABASES

250 GB

S0 instance with 10 database transaction units.

Create a SQL Database that delivers intelligence built-in. Learn more

Create

Azure Cosmos DB
DATABASES

400 RU/s provisioned throughput

With 25 GB of storage

Get a fast NoSQL database with open APIs for any scale. Learn more

Create

Bandwidth (Data Transfer)
NETWORKING

15 GB

outbound

Transfer data inbound and outbound through our robust network of global data centers. Learn more

Anomaly Detector
AI + MACHINE LEARNING

20,000

transactions per month

Computer Vision
AI + MACHINE LEARNING

5,000

transactions per month

Extract rich information from images to

Content Moderator
AI + MACHINE LEARNING

5,000

transactions per month

Moderate text and images to provide a

Custom Vision
AI + MACHINE LEARNING

2

projects

Easily customize computer vision models

https://azure.microsoft.com/free/free-account-faq/

ESP 10:49 p. m. 13/05/2022

Select Azure Database for PostgreSQL deployment option

Microsoft

Feedback

How do you plan to use the service?

Flexible server

Best for production workloads that require zone resilient HA, predictable performance, maximum control, custom maintenance window, cost optimization controls and simplified developer experience. Enterprise ready, fully managed community PostgreSQL service.

Create Learn more

Single server

Best for existing applications already leveraging Single Server. Enterprise ready, fully managed community PostgreSQL service with zonal high availability.

Create Learn more

Hyperscale (Citus) server group

Best for ultra-high performance and data needs beyond 100GB.

Azure Arc enabled PostgreSQL Hyperscale (Preview)

Best for ultra-high performance and data

Flexible server

Microsoft

Server names, networking connectivity method and backup redundancy cannot be changed after server is created. Review these options carefully before provisioning.

account?
Learn more

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Azure for Students

Resource group * (New) app_group

Create new

Server details

Enter required settings for this server, including picking a location and configuring the compute and storage resources.

Server name * Enter server name

Free upto 750 hours
Standard_B1ms (1 vCore) 12.41

Storage USD 3.84/month

Free upto 32 GB
Storage selected 32 GiB (USD 0.12 per GiB) 32 x 0.12

Bandwidth

For outbound data transfer across services in different regions will incur additional charges. Any inbound data transfer is free. Learn more

Estimated total USD 16.25/month

Charges will apply if you use above the free monthly limits. Please check your usage of free services. Final charges will

Review + create | Next : Networking >

Flexible server

Microsoft

Server names, networking connectivity method and backup redundancy cannot be changed after server is created. Review these options carefully before provisioning.

Server name * appdb93383

Region * East US

PostgreSQL version * 13

Workload type

- ○ **Production (Small / Medium-size)**
- ○ **Production (Large-size)**
- ◉ **Development**

Suitable for small databases or personal projects with few user connections requirements.

Compute + storage

Burstable, B1ms

1 vCores, 2 GiB RAM, 32 GiB storage

Configure server

free monthly limits. Please check your usage of free services. Final charges will appear in your local currency.

Review + create | Next : Networking >

https://portal.azure.com/#create/Microsoft.PostgreSQLServer

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home > Free services > Select Azure Database for PostgreSQL deployment option >

Flexible server

Microsoft

Server names, networking connectivity method and backup redundancy cannot be changed after server is created. Review these options carefully before provisioning.

Selected region 'eastus' doesn't support multiple availability zones.

High availability

Zone redundant high availability deploys a standby replica in a different zone with automatic failover capability. You can also specify high availability options in 'Compute + storage'.

Enable high availability

Administrator account

Admin username * alfonso

Password * ••••••••••••

Confirm password * ••••••••••••

Password and confirm password must match.

Review + create | Next : Networking >

ESP 11:02 p. m. 13/05/2022

Flexible server

Microsoft

Server names, networking connectivity method and backup redundancy cannot be changed after server is created. Review these options carefully before provisioning.

Basics | **Networking** | Tags | Review + create

Configure networking access and security for your server.

Network connectivity

You can connect to your server by specifying a public IP address specified below or from within a selected virtual network.

Connectivity method

- (●) Public access (allowed IP addresses)
- ( ) Private access (VNet Integration)

Connections from the IP addresses configured in the Firewall rules section below will have access to this server. By default, no public IP addresses are allowed. Learn more

Firewall rules

Estimated costs

Compute Sku USD 12.41/month

Free upto 750 hours

Standard_B1ms (1 vCore) 12.41

Storage USD 3.84/month

Free upto 32 GB

Storage selected 32 GiB (USD 0.12 per GiB) 32 x 0.12

Bandwidth

For outbound data transfer across services in different regions will incur additional charges. Any inbound data transfer is free. Learn more

Review + create | < Previous | Next : Tags >

Flexible server

Microsoft

Server names, networking connectivity method and backup redundancy cannot be changed after server is created. Review these options carefully before provisioning.

Firewall rules

Inbound connections from the IP addresses specified below will be allowed to port 5432 on this server. Learn more

☐ Allow public access from any Azure service within Azure to this server

+ Add current client IP address (186.144.253.243) + Add 0.0.0.0 - 255.255.255.255

Firewall rule name	Start IP address	End IP address
Firewall rule name	Start IP address	End IP address

Encrypted connections

TLS/SSL is enforced on the server by default. You can download the SSL public certificate from the above menu. To disable SSL, please update the require_secure_transport server parameter to OFF.
You can also set TLS version by setting ssl_min_protocol_version and ssl_max_protocol_version server parameters.
Learn more

services in different regions will incur additional charges. Any inbound data transfer is free. Learn more

Estimated total USD 16.25/month

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Review + create | < Previous | Next : Tags >

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+ Add current client IP address (186.144.253.243) + Add 0.0.0.0 - 255.255.255.255

Firewall rule name	Start IP address	End IP address
AllowAll_2022-5-13_23-3-35	0.0.0.0	255.255.255.255
Firewall rule name	Start IP address	End IP address

Encrypted connections

TLS/SSL is enforced on the server by default. You can download the SSL public certificate from the above menu. To disable SSL, please update the require_secure_transport server parameter to OFF.
You can also set TLS version by setting ssl_min_protocol_version and ssl_max_protocol_version server parameters.

services in different regions will incur additional charges. Any inbound data transfer is free. Learn more

Estimated total USD 16.25/month

Charges will apply if you use above the free monthly limits. Please check your usage of free services. Final charges will appear in your local currency.

Review + create | < Previous | Next : Tags >

Submitting deployment...

Submitting the deployment template for resource group 'app_group'.

Flexible server

Microsoft

Server names, networking connectivity method and backup redundancy cannot be changed after server is created. Review these options carefully before provisioning.

Availability zone	No preference
High availability (Zone redundant)	Not Enabled
PostgreSQL version	13
Compute + storage	Burstable, B1ms, 1 vCores, 2 GiB RAM, 32 GiB storage
Backup retention period (in days)	7 day(s)
Geo-redundancy (preview)	Not Enabled

Charges will apply if you use above the free monthly limits. Please check your usage of free services. Final charges will appear in your local currency.

Networking (Change)

Connectivity method	Public access (allowed IP addresses)
Allow public access from any Azure service within Azure to this server	No
Firewall rules	1
Firewall rules	1

Tags (Change)

Validating... | < Previous | Download a template for automation

PostgreSqlFlexibleServer_0f79ff4a9501434e99a2f29cf24d941e | Overview

Deployment

Search (Ctrl+/)

- Overview
- Inputs
- Outputs
- Template

Delete | Cancel | Redeploy | Refresh

We'd love your feedback! →

Deployment is in progress

Deployment name: PostgreSqlFlexibleServer_0f79ff4a9501434e99a...
Subscription: Azure for Students
Resource group: app_group

Start time: 5/13/2022, 11:05:01 PM
Correlation ID: 3396e9a4-3d1d-451c-b7f7-d62a317682f9

Deployment details (Download)

Resource	Type	Status	Operation details
appdb93383	Microsoft.DBforPostgreSQL/flexibleServ...	Accepted	Operation details

Home >

PostgreSqlFlexibleServer_0f79ff4a9501434e99a2f29cf24d941e | Overview

Deployment

Search (Ctrl+/)

- Overview
- Inputs
- Outputs
- Template

Delete | Cancel | Redeploy | Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: PostgreSqlFlexibleServer_0f79ff4a9501434e99a...
Subscription: Azure for Students
Resource group: app_group

Start time: 5/13/2022, 11:05:01 PM
Correlation ID: 3396e9a4-3d1d-451c-b7f7-d62a317682f9

Deployment details (Download)

Next steps

- Learn how to manage your server Recommended
- For public access connectivity, setup a firewall rule to connect to the server Recommended
- Learn about private access connectivity method Recommended
- Setup monitoring alerts Recommended

Go to resource

Cost Management

Get notified to stay within your budge
prevent unexpected charges on your

Set up cost alerts >

Get started with PostgreSQL Flexible

Free Microsoft tutorials

Create Python + PostgreSQL App

Work with an expert

Azure experts are service provider pa

Create budget

Budget

*** Alert conditions**

Type	% of budget	Amount	Action group
Forecasted	20	1.00	None
Select type	Enter %	-	None

Manage action group

*** Alert recipients (email)**

Alert recipients (email)

alfonsoayalapaloma@gmail.com

example@email.com

It is recommended to add azure-noreply@microsoft.com to your email white list to ensure alert mails do not go to your spam folder.

Previous | Create

appdb93383

Azure Database for PostgreSQL flexible server

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Compute + storage
- Networking
- Connection strings
- Server parameters
- Maintenance
- High availability
- Advisor recommendations
- Locks

Delete | Reset password | Restore | Restart | Stop | Refresh | Feedback

Essentials

JSON View

Subscription (move)	: Azure for Students
Subscription ID	: 1aee89a2-7a89-40a2-a937-43c65b418715
Resource group (move)	: app_group
Status	: Available
Location	: East US
Server name	: appdb93383.postgres.database.azure.com
Server admin login name	: alfonso
Configuration	: Burstable, B1ms, 1 vCores, 2 GiB RAM, 32 GiB stora...
PostgreSQL version	: 13.6
Availability zone	: 3
High availability	: Not Enabled
Tags (edit)	: Click here to add tags

Getting started | Properties | Monitoring | Tutorials

Start your project

Connect to your database for the first time with a few simple steps.

Allow access

Configure network access to your PostgreSQL database

Connect

View connection string to learn how to connect with the application driver you use (.NET, PSQL, Python, JDBC, PHP, Node.js, Ruby, PHP, C++)

Samples

Setup a sample database schema to get started

appdb93383

Azure Database for PostgreSQL flexible server

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Compute + storage
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Delete | Reset password | Restore | Restart | Stop | Refresh | Feedback

Getting started | Properties | Monitoring | Tutorials

Start your project

Connect to your database for the first time with a few simple steps.

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Configure network access to your PostgreSQL database

Configure Networking

Connect

View connection string to learn how to connect with the application driver you use (.NET, PSQL, Python, JDBC, PHP, Node.js, Ruby, PHP, C++)

View connection strings

Samples

Setup a sample database schema to get started

Samples in Github

Configure your database for production use

Setup configuration for your PostgreSQL Flexible server by scheduling maintenance, update server parameters and configure high availability.

Maintenance schedule

Select a preferred time for service updates to be applies. Outside of critical security updates, these updates will be applied to more frequently than every 30 days.

Server parameters

Configure and tune PostgreSQL Flexible server parameters to optimize the server based on your workload needs.

High availability

High availability deploys a standby replica with automatic failover capability.

appdb93383 | Connection strings

Azure Database for PostgreSQL flexible server

Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Compute + storage
Networking
Connection strings
Server parameters
Maintenance
High availability
Advisor recommendations
Locks

Copy to clipboard

PostgreSQL connection URL

```
postgres://alfonso:{your_password}@appdb93383.postgres.database.azure.com/postgres?sslmode=require
```

psql

```
psql "host=appdb93383.postgres.database.azure.com port=5432 dbname={your_database} user=alfonso password={your_password} sslmode=require"
```

JDBC

```
jdbc:postgresql://appdb93383.postgres.database.azure.com:5432/{your_database}?user=alfonso&password={your_password}&sslmode=require
```

Node.js, Python, Ruby, PHP, C++ (libpq)

```
host=appdb93383.postgres.database.azure.com port=5432 dbname={your_database} user=alfonso password={your_password} sslmode=require
```

ADO.NET

```
Server=appdb93383.postgres.database.azure.com;Database={your_database};Port=5432;User Id=alfonso;Password={your_password};Ssl Mode=Require;
```

Secure SSL connections

For production use cases, we recommend using the 'verify-full' SSL mode, which ensures that connections to the database can't be intercepted. You will need to download the Azure Database for PostgreSQL SSL Certificate Authority, and provide it when connecting to the database. Learn more

appdb93383 | Activity log

Azure Database for PostgreSQL flexible server

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Compute + storage
- Networking
- Connection strings
- Server parameters
- Maintenance
- High availability
- Advisor recommendations
- Locks

Activity | Edit columns | Refresh | Export Activity Logs | Download as CSV | Logs | Pin current filters | Reset filters

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics

Search | Quick Insights

Management Group : **None** | Subscription : **Azure for Students** | Event severity : **All** | Timespan : **Last 6 hours** | Resource group : **app_group** | Resource : **appdb93383** | Add Filter

1 item.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
Update PostgreSQL Server Create	Succeeded	11 minutes ...	Fri May 13 ...	Azure for Students	aayalap@ucompensar.ed...

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psql "host=appdb93383.postgres.database.azure.com

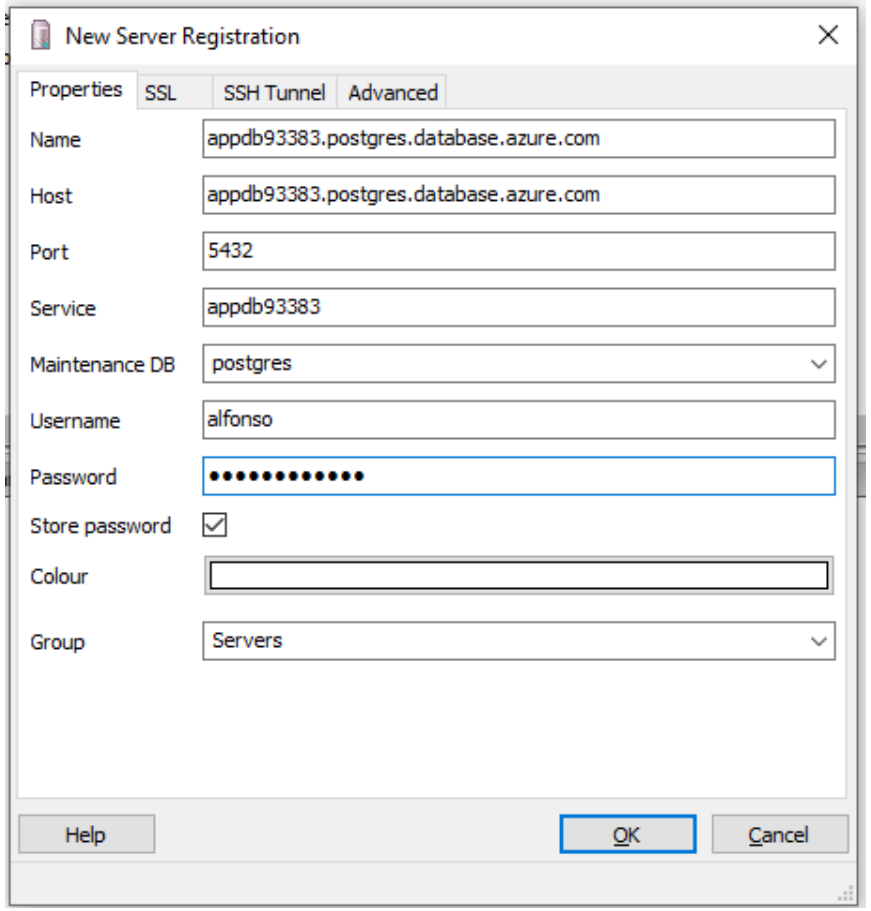
port=5432

dbname={your_database}

user=alfonso

password={your_password}

sslmode=require"



pgAdmin 4

pgAdmin File Object Tools Help

Browser

Servers

Dashboard Prop

Welcome

Feature rich

pgAdmin is an Op

procedural code d

ncludes a graphical administration interface, an SQL query tool, a

, DBAs and system administrators alike.

Quick Links

Configure pgAdmin

Getting Started

PostgreSQL

et PostgreSQL

Community Support

You are currently running version 6.3 of pgAdmin 4, however the current version is 6.9.

Please click **here** for more information.

Create - Server

General Connection SSL SSH Tunnel Advanced

Host name/address	appdb93383.postgres.database.azure.com
Port	5432
Maintenance database	postgres
Username	alfonsp
Kerberos authentication?	
Password	•••••••••••••
Save password?	
Role	
Service	

Close Reset Save

ESP 11:34 p. m. 13/05/2022

Autoguardado CC_02... Buscar (Alt+Q) Alfonso Ayala Paloma

Archivo Inicio Insertar Dibujar Diseño Transiciones Animaciones Presentación con diapositivas Grabar Revisar Vista Ayuda Grabar Compartir

Pegar Portapapeles Nueva diapositiva Volver a usar las diapositivas Proteger Formas Organizar Estilos rápidos Buscar Reemplazar Seleccionar Edición Dictar Voz Ideas de diseño Diseñador

Clasificación: Sin

Símbolo del sistema

```
Microsoft Windows [Versión 10.0.19042.1526]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\alfonso.ayala>ping appdb93383.postgres.database.azure.com

Haciendo ping a appdb93383.postgres.database.azure.com [20.237.96.242] con 32 bytes de datos:
Control-C
^C
C:\Users\alfonso.ayala>

C:\Users\alfonso.ayala>
```

103 104 105 106 107 108

Haga clic para agregar notas

Diapositiva 107 de 123 Español (Colombia) Accesibilidad: es necesario investigar Notas 64%

ESP 11:36 p. m. 13/05/2022

pgAdmin 4

pgAdmin File Object Tools Help

Browser

Servers

Dashboard Prop

Welcome

Feature rich

pgAdmin is an Op

procedural code d

Quick Links

Getting Started

PostgreSQL

Create - Server

General Connection SSL SSH Tunnel Advanced

Host name/address: 20.237.96.242

Port: 5432

Maintenance database: postgres

Username: alfonso

Kerberos authentication?

Password: ••••••••••••

Save password?

Role

Service

Close Reset Save

You are currently running version 6.3 of pgAdmin 4, however the current version is 6.9.

Please click **here** for more information.

ncludes a graphical administration interface, an SQL query tool, a

, DBAs and system administrators alike.

Configure pgAdmin

et PostgreSQL

Community Support

ESP 11:36 p. m. 13/05/2022

pgAdmin 4

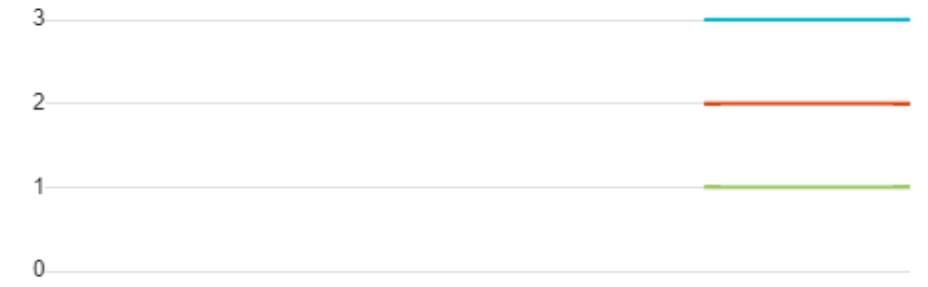
pgAdmin File Object Tools Help

Browser

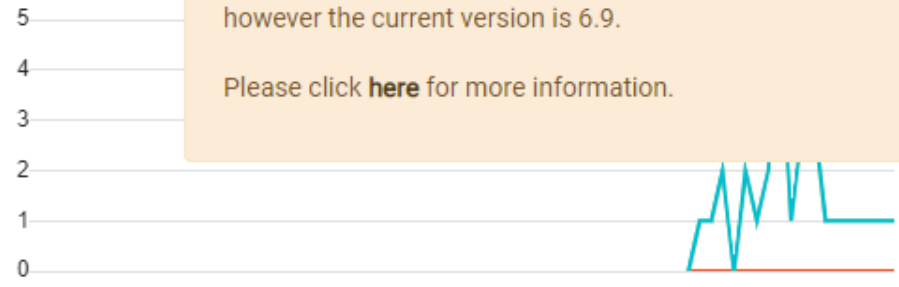
- Servers (10)
  - appdb93383.postgres.database.azure.co
    - Databases (3)
      - azure_maintenance
      - azure_sys
      - postgres
        - Casts
        - Catalogs
        - Event Triggers
        - Extensions
        - Foreign Data Wrappers
        - Languages
        - Publications
        - Schemas (2)
        - Subscriptions
    - Login/Group Roles
    - Tablespaces
  - inet_5433
  - localhost
  - production
  - rc_root
  - reporting_sshtunnel_pgadmin
  - reporting_via_local
  - tyke.db.elephantsql.com
  - via_inet
  - zteteam

Dashboard Properties SQL Statistics Dependencies Dependents

Database sessions — Total, Active, Idle



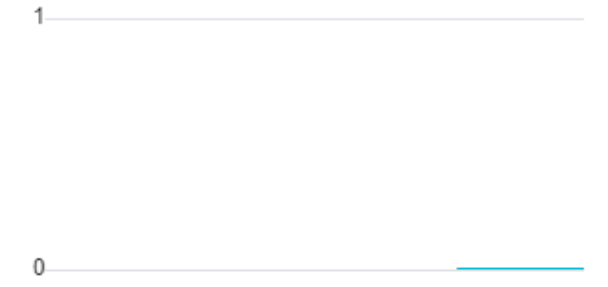
Transactions per



You are currently running version 6.3 of pgAdmin 4, however the current version is 6.9.

Please click **here** for more information.

Tuples in — Inserts, Updates, Delete



Tuples out — Fetched, Returned

Block I/O — Reads, Hits

Server activity

Sessions Locks Prepared Transactions Search

			PID	User	Application	Client	Backend start	State	Wait event	Blocking PIDs
			74	azuresu			2022-05-14 04:10:53 UTC	idle	Extension: Extension	
			1023	alfonso	pgAdmin 4 - DB:postgres	186.144.253.243	2022-05-14 04:37:01 UTC	active		
			1026	azuresu		127.0.0.1	2022-05-14 04:37:09 UTC	idle	Client: ClientRead	

ESP 11:37 p. m. 13/05/2022

Caso: Desplegando una página estática

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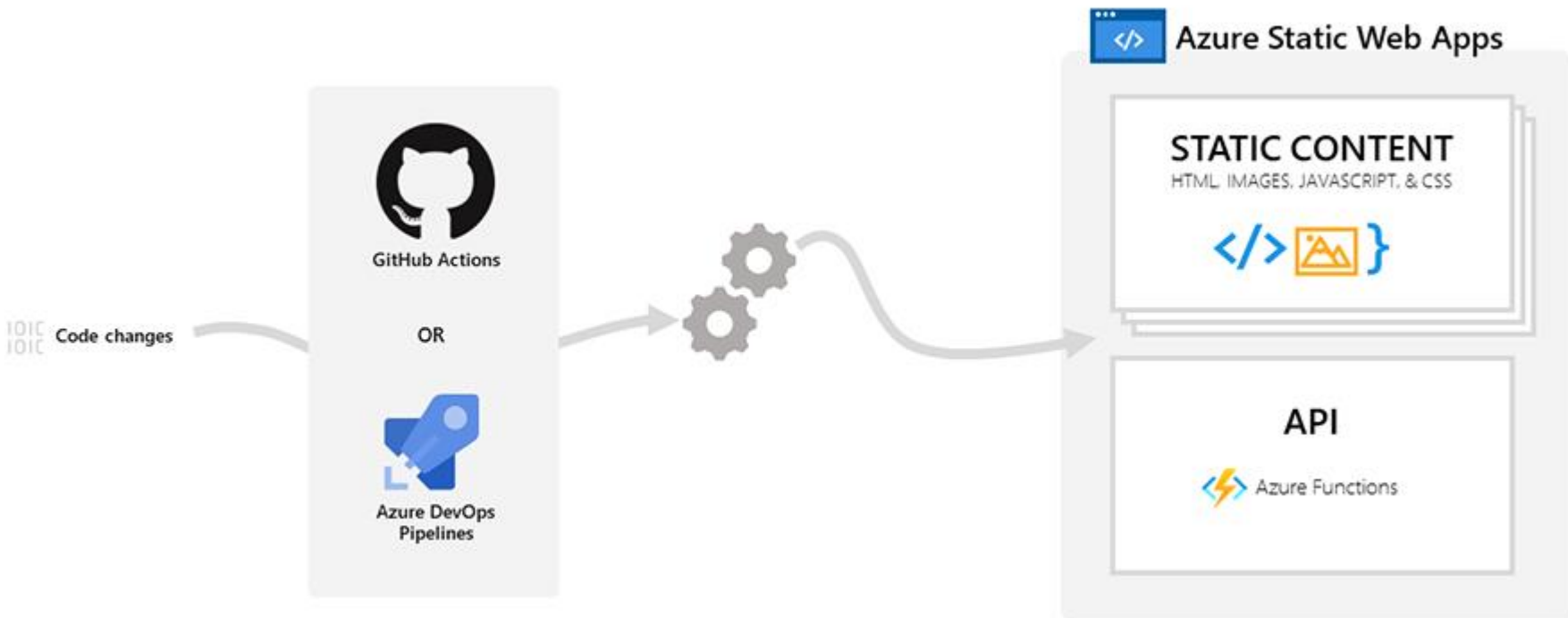
Historia 2

Como un dueño de aplicación web estática quiero migrarla a la nube, para aprovechar las ventajas de nube y reducir el tiempo fuera de servicio


Azure Static Web Apps
STATIC CONTENT
HTML, IMAGES, JAVASCRIPT, & CSS
API
Azure Functions
GitHub Actions
OR
Azure DevOps Pipelines
Code changes

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https://portal.azure.com/#home

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Azure services

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Name	Type	Last Viewed
reco_ws	Machine learning	3 hours ago
reco_rg	Resource group	15 hours ago
DFNodes	Data factory (V2)	2 weeks ago
cloud-shell-storage-southcentralus	Resource group	2 weeks ago
sa93383632	Storage account	2 weeks ago
myresourcegroup	Resource group	2 weeks ago

See all

https://portal.azure.com/#

Navigate

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Resources

Recent | Favorite

Name	Type	Last Viewed

Bash

```
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell

alfonso@Azure:~$
```

ESP 11:07 p. m. 12/05/2022

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Resources

Recent | Favorite

Name	Type	Last Viewed

Bash

```
alfonso@Azure:~$ df -h
Filesystem                                  Size  Used Avail Use% Mounted on
overlay                                      49G   28G   22G  57% /
tmpfs                                        64M     0   64M   0% /dev
tmpfs                                       2.0G     0  2.0G   0% /sys/fs/cgroup
/dev/sda1                                    49G   28G   22G  57% /home
shm                                          64M     0   64M   0% /dev/shm
//sa93383632.file.core.windows.net/fs93383632  6.0G  5.0G  1.0G  84% /usr/csuser/clouddrive
tmpfs                                       2.0G     0  2.0G   0% /proc/acpi
tmpfs                                       2.0G     0  2.0G   0% /proc/scsi
tmpfs                                       2.0G     0  2.0G   0% /sys/firmware
/dev/loop0                                  4.9G  363M  4.3G   8% /home/alfonso
alfonso@Azure:~$
```

ESP 11:07 p. m. 12/05/2022

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Resources

Recent | Favorite

Name	Type	Last Viewed

Bash

```
alfonso@Azure:~$ pwd
/home/alfonso
alfonso@Azure:~$ mkdir staticprj
alfonso@Azure:~$
```

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Azure services

Create a resource | Storage accounts | Free services | Cost Management ... | App Service plans | App Services | SQL databases | Data factories | Resource groups | More services

Resources

Recent | Favorite

Name	Type	Last Viewed

Bash

```
alfonso@Azure:~$ pwd
/home/alfonso
alfonso@Azure:~$ mkdir staticprj
alfonso@Azure:~$  cd $HOME/staticprj
alfonso@Azure:~/staticprj$ git clone https://github.com/Azure-Samples/html-docs-hello-world.git
```

ESP 11:30 p. m. 12/05/2022

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Create a resource | Storage accounts | Free services | Cost Management ... | App Service plans | App Services | SQL databases | Data factories | Resource groups | More services

Resources

Recent | Favorite

Name	Type	Last Viewed

Bash

```
alfonso@Azure:~$ pwd
/home/alfonso
alfonso@Azure:~$ mkdir staticprj
alfonso@Azure:~$  cd $HOME/staticprj
alfonso@Azure:~/staticprj$ git clone https://github.com/Azure-Samples/html-docs-hello-world.git
Cloning into 'html-docs-hello-world'...
remote: Enumerating objects: 50, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 50 (delta 0), reused 2 (delta 0), pack-reused 46
Unpacking objects: 100% (50/50), done.
alfonso@Azure:~/staticprj$
```

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Bash

```
alfonso@Azure:~$ pwd
/home/alfonso
alfonso@Azure:~$ mkdir staticprj
alfonso@Azure:~$  cd $HOME/staticprj
alfonso@Azure:~/staticprj$ git clone https://github.com/Azure-Samples/html-docs-hello-world.git
Cloning into 'html-docs-hello-world'...
remote: Enumerating objects: 50, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 50 (delta 0), reused 2 (delta 0), pack-reused 46
Unpacking objects: 100% (50/50), done.
alfonso@Azure:~/staticprj$ ls -l
total 4
drwxr-xr-x 7 alfonso alfonso 4096 May 13 04:30 html-docs-hello-world
alfonso@Azure:~/staticprj$ cd html-docs-hello-world
alfonso@Azure:~/staticprj/html-docs-hello-world$ ls -l
total 28
drwxr-xr-x 2 alfonso alfonso 4096 May 13 04:30 css
drwxr-xr-x 2 alfonso alfonso 4096 May 13 04:30 fonts
drwxr-xr-x 2 alfonso alfonso 4096 May 13 04:30 img
-rw-r--r-- 1 alfonso alfonso 1760 May 13 04:30 index.html
drwxr-xr-x 2 alfonso alfonso 4096 May 13 04:30 js
-rw-r--r-- 1 alfonso alfonso 1183 May 13 04:30 LICENSE
-rw-r--r-- 1 alfonso alfonso  608 May 13 04:30 README.md
alfonso@Azure:~/staticprj/html-docs-hello-world$
```

Terminal container button

ESP 11:33 p. m. 12/05/2022

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https://portal.azure.com/#home

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Bash

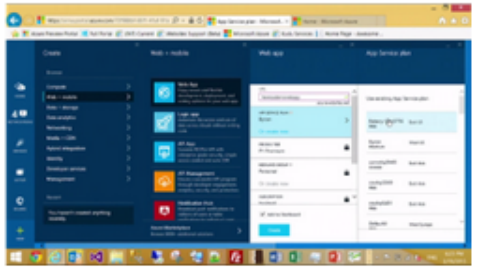
```
The webapp 'pikapp002' doesn't exist
Creating Resource group 'aayalap_rg_4467' ...
Resource group creation complete
Creating AppServicePlan 'aayalap_asp_4634' ...
Creating webapp 'pikapp002' ...
Configuring default logging for the app, if not already enabled
Creating zip with contents of dir /home/alfonso/staticprj/html-docs-hello-world ...
Getting scm site credentials for zip deployment
Starting zip deployment. This operation can take a while to complete ...
Deployment endpoint responded with status code 202
You can launch the app at http://pikapp002.azurewebsites.net
Setting 'az webapp up' default arguments for current directory. Manage defaults with 'az configure --scope local'
--resource-group/-g default: aayalap_rg_4467
--sku default: F1
--plan/-p default: aayalap_asp_4634
--location/-l default: westeurope
--name/-n default: pikapp002
{
  "URL": "http://pikapp002.azurewebsites.net",
  "appserviceplan": "aayalap_asp_4634",
  "location": "westeurope",
  "name": "pikapp002",
  "os": "Windows",
  "resourcegroup": "aayalap_rg_4467",
  "runtime_version": "-",
  "runtime_version_detected": "-",
  "sku": "FREE",
  "src_path": "//home//alfonso//staticprj//html-docs-hello-world"
}
alfonso@Azure:~/staticprj/html-docs-hello-world$
alfonso@Azure:~/staticprj/html-docs-hello-world$
```

Terminal container button

ESP 11:37 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | pikapp002 - Mic | Upload and anal | Connect to your | QuickStart: Crea | how to access a | Azure App Servic
https://pikapp002.azurewebsites.net

Azure App Service - Sample Static HTML Site



Azure App Service Web Apps

App Service Web Apps is a fully managed compute platform that is optimized for hosting websites and web applications. This platform-as-a-service (PaaS) offering of Microsoft Azure lets you focus on your business logic while Azure takes care of the infrastructure to run and scale your apps.

ESP 11:45 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | Home - Micr | Upload and anal | Connect to your | QuickStart: Crea | how to access a | Azure App Service -

https://portal.azure.com/#home

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Bash

```
The webapp 'pikapp002' doesn't exist
Creating Resource group 'aayalap_rg_4467' ...
Resource group creation complete
Creating AppServicePlan 'aayalap_asp_4634' ...
Creating webapp 'pikapp002' ...
Configuring default logging for the app, if not already enabled
Creating zip with contents of dir /home/alfonso/staticprj/html-docs-hello-world ...
Getting scm site credentials for zip deployment
Starting zip deployment. This operation can take a while to complete ...
Deployment endpoint responded with status code 202
You can launch the app at http://pikapp002.azurewebsites.net
Setting 'az webapp up' default arguments for current directory. Manage defaults with 'az configure --scope local'
--resource-group/-g default: aayalap_rg_4467
--sku default: F1
--plan/-p default: aayalap_asp_4634
--location/-l default: westeurope
--name/-n default: pikapp002
{
  "URL": "http://pikapp002.azurewebsites.net",
  "appserviceplan": "aayalap_asp_4634",
  "location": "westeurope",
  "name": "pikapp002",
  "os": "Windows",
  "resourcegroup": "aayalap_rg_4467",
  "runtime_version": "-",
  "runtime_version_detected": "-",
  "sku": "FREE",
  "src_path": "//home//alfonso//staticprj//html-docs-hello-world"
}
alfonso@Azure:~/staticprj/html-docs-hello-world$
alfonso@Azure:~/staticprj/html-docs-hello-world$ nano index.html
alfonso@Azure:~/staticprj/html-docs-hello-world$
```

Terminal container button

ESP 11:38 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | Home - Micr | Upload and anal | Connect to your | QuickStart: Crea | how to access a | Azure App Service -

https://portal.azure.com/#home

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Bash

```
  GNU nano 3.2                                  index.html                                  Modified

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="">
    <meta name="author" content="">

    <title>PikApp - Sample Static HTML Site</title>

    <!-- Bootstrap core CSS -->
    <link href="css/bootstrap.min.css" rel="stylesheet">
  </head>

  <body>
    <div class="navbar-wrapper">
      <div class="container">
          <h1>PikApp - Sample Static HTML Site</h1>
          <hr/>
      </div>
    </div>

    <!-- Wrap the rest of the page in another container to center all the content. -->

    <div class="container">

Save modified buffer?  (Answering "No" will DISCARD changes.)
 Y Yes
 N No           ^C Cancel
```

Terminal container button

ESP 11:39 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | Home - Micr | Upload and anal | Connect to your | QuickStart: Crea | how to access a | Azure App Service -

https://portal.azure.com/#home

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

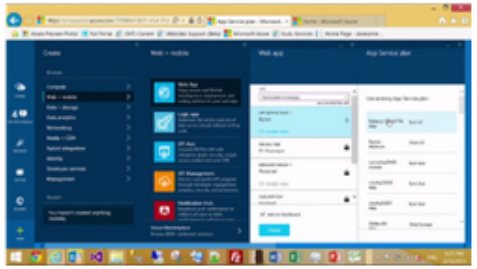
Bash

```
  "src_path": "//home//alfonso//staticprj//html-docs-hello-world"
}
alfonso@Azure:~/staticprj/html-docs-hello-world$
alfonso@Azure:~/staticprj/html-docs-hello-world$ nano index.html
alfonso@Azure:~/staticprj/html-docs-hello-world$ nano index.html
alfonso@Azure:~/staticprj/html-docs-hello-world$ az webapp up --location westeurope --name pikapp002 --html
Webapp 'pikapp002' already exists. The command will deploy contents to the existing app.
Creating AppServicePlan 'aayalap_asp_4634' ...
Creating zip with contents of dir /home/alfonso/staticprj/html-docs-hello-world ...
Getting scm site credentials for zip deployment
Starting zip deployment. This operation can take a while to complete ...
Deployment endpoint responded with status code 202
You can launch the app at http://pikapp002.azurewebsites.net
Setting 'az webapp up' default arguments for current directory. Manage defaults with 'az configure --scope local'
--resource-group/-g default: aayalap_rg_4467
--sku default: F1
--plan/-p default: aayalap_asp_4634
--location/-l default: westeurope
--name/-n default: pikapp002
{
  "URL": "http://pikapp002.azurewebsites.net",
  "appserviceplan": "aayalap_asp_4634",
  "location": "westeurope",
  "name": "pikapp002",
  "os": "Windows",
  "resourcegroup": "aayalap_rg_4467",
  "runtime_version": "-",
  "runtime_version_detected": "-",
  "sku": "FREE",
  "src_path": "//home//alfonso//staticprj//html-docs-hello-world"
}
alfonso@Azure:~/staticprj/html-docs-hello-world$
```

ESP 11:40 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | pikapp002 - Mic | Upload and anal | Connect to your | QuickStart: Crea | how to access a | PikApp - Sample
https://pikapp002.azurewebsites.net

PikApp - Sample Static HTML Site



Azure App Service Web Apps

App Service Web Apps is a fully managed compute platform that is optimized for hosting websites and web applications. This platform-as-a-service (PaaS) offering of Microsoft Azure lets you focus on your business logic while Azure takes care of the infrastructure to run and scale your apps.

ESP 11:46 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | Home - Micr | Upload and anal | Connect to your | QuickStart: Crea | how to access a | Azure App Service -

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Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home

Azure services

- Create a resource
- Storage accounts
- Free services
- Cost Management ...
- App Service plans
- App Services
- SQL databases
- Data factories
- Resource groups
- More services

Resources

Recent | Favorite

Name	Type	Last Viewed
coursestorage93383632	Storage account	3 minutes ago
storage_rg	Resource group	12 minutes ago
reco_ws	Machine learning	4 hours ago
reco_rg	Resource group	17 hours ago
DFNodes	Data factory (V2)	2 weeks ago
cloud-shell-storage-southcentralus	Resource group	2 weeks ago
sa93383632	Storage account	2 weeks ago
myresourcegroup	Resource group	2 weeks ago

https://portal.azure.com/#home

ESP 11:41 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | Home - Micr | Upload and anal | Connect to your | QuickStart: Crea | how to access a | Azure App Service -

https://portal.azure.com/#home

Search resources, services, and docs (G+/)

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UCOMPENSAR (UCOMPENSAR.E...

- Create a resource
- Home
- Dashb Azure home
- All services

FAVORITES

- All resources
- Resource groups
- App Services
- Function App
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor
- Advisor
- Microsoft Defender for

https://portal.azure.com/#home

vices

Storage accounts | Free services | Cost Management ... | App Service plans | App Services | SQL databases | Data factories | Resource groups | More services

avorite

	Type	Last Viewed
orage93383632	Storage account	3 minutes ago
rg	Resource group	12 minutes ago
	Machine learning	4 hours ago
	Resource group	17 hours ago
s	Data factory (V2)	2 weeks ago
ell-storage-southcentralus	Resource group	2 weeks ago
632	Storage account	2 weeks ago
rcegroup	Resource group	2 weeks ago

ESP 11:42 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | My Dashboar | Upload and anal | Connect to your | QuickStart: Crea | how to access a | Azure App Service -

https://portal.azure.com/#@ucompensar.edu.co/dashboard/private/582bac9c-7632-421f-b4f2-0a075d5

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

My Dashboard

Private dashboard

New dashboard | Refresh | Full screen | Edit | Share | Export | Clone | Assign tags | Delete | Feedback

Auto refresh : **Off**

Last updated: a few seconds ago

All resources

All subscriptions

Refresh

coursestorage93383632	Storage account
reco_ws	Machine learning
DFNodes	Data factory (V2)
sa93383632	Storage account
aayalap_asp_4634	App Service plan
pikapp002	App Service
recows0111402169	Application Insights
recows4464676922	Key vault
recows8146016283	Storage account

Azure getting started made easy!

Launch an app of your choice on Azure in a few quick steps

Create DevOps Start...

Quickstarts + tutorials

Windows Virtual Machines
Provision Windows Server, SQL Server, SharePoint VMs

Linux Virtual Machines
Provision Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service
Create Web Apps using .NET, Java, Node.js, Python, PHP

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715/resourceGroups/aayalap_rg_4467/providers/Microsoft.Web/sites/pikapp002

ESP 11:42 p. m. 12/05/2022

Curso: MACHIN | UCompensar - D | Epic 7: ML 101 - | pikapp002 - | Upload and anal | Connect to your | QuickStart: Crea | how to access a | PikApp - Sample Sta

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a937-43c

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Dashboard > pikapp002

pikapp002 | Activity log

App Service

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Security
- Events (preview)

Deployment

- Quickstart
- Deployment slots
- Deployment Center

Settings

- Configuration
- Authentication
- Application Insights

Activity | Edit columns | Refresh | Export Activity Logs | Download as CSV | Logs | Pin current filters | Reset filters

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics

Search | Quick Insights

Management Group : **None** | Subscription : **Azure for Students** | Event severity : **All** | Timespan : **Last 6 hours** | Resource group : **aayalap_rg_4467**

Resource : **pikapp002** | Add Filter

First 3 items.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
Update web sites config	Succeeded	9 minutes a...	Thu May 12...	Azure for Students	aayalap@ucompensar.ed...
Get Web App Publishing Profile	Succeeded	9 minutes a...	Thu May 12...	Azure for Students	aayalap@ucompensar.ed...
Update website	Succeeded	9 minutes a...	Thu May 12...	Azure for Students	aayalap@ucompensar.ed...

ESP 11:47 p. m. 12/05/2022

Máquinas virtuales

compensar | fundación universitaria

Historia 3

Como un ingeniero de datos, quiero crear una maquina virtual CentOS, para tener un ambiente de desarrollo.

https://portal.azure.com/#home

Microsoft Azure

Search resources, services, and docs (G+/)

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Azure services

Cre Create a resource resource

services

Cost Management ...

Storage accounts

App Service plans

App Services

SQL databases

Data factories

Resource groups

More services

Resources

Recent Favorite

Name	Type	Last Viewed
aayalap_asp_4634	App Service plan	8 hours ago
reco_rg	Resource group	10 hours ago
Azure for Students	Subscription	10 hours ago
sa93383632	Storage account	17 hours ago
myresourcegroup	Resource group	17 hours ago
cloud-shell-storage-southcentralus	Resource group	17 hours ago
pikapp002	App Service	a day ago
coursestorage93383632	Storage account	a day ago
ge_rg	Resource group	a day ago

https://portal.azure.com/#create/hub

ESP 12:50 a. m. 14/05/2022

Create a resource

Analytics
Blockchain
Compute
Containers
Databases
Developer Tools
DevOps
Identity
Integration
Internet of Things
IT & Management Tools
Media
Migration
Mixed Reality
Monitoring & Diagnostics
Networking

App Service Plan
Create | Learn more

Azure VMware Solution
Create | Learn more

Azure Spring Cloud
Create | Learn more

Function App
Create | Docs

Host pool
Create | Learn more

Virtual machine
Create | Learn more

Virtual machine scale set
Create | Learn more

Web App
Create | Docs | MS Learn

Ubuntu Server 20.04 LTS
Create | Learn more

Windows 10 Pro, version 21H2
Create | Learn more

Windows 11 Enterprise
Create | Learn more

Ubuntu Server 18.04 LTS
Create | Learn more

Debian 10 "Buster"
Create | Learn more

CentOS-based 7.9
Create | Learn more

Red Hat Enterprise Linux 8.2 (LVM)
Create | Learn more

Windows 7 Enterprise
Create | Learn more

https://portal.azure.com/#create/microsoft.freeaccountvirtualmachine-linux

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

Home > Free services > Create a virtual machine >

Select an image

Other Items

- My Images
- Shared Images
- Community Images (PREVIEW)

Marketplace

- All
- Recently created
- Private products

Categories

- Compute (479)
- Web (396)
- Developer Tools (303)

Marketplace

free

Pricing : **All** | Operating System : **All** | Publisher Type : **All** | Product Type : **Virtual Machine** | Image Type : **All** | Security Type : **All** | Publisher name : **All**

Showing results for 'free'.

Tile view

Showing 1 to 20 of 1002 results.

CentOS 7.7 Free
Cognosys
Virtual Machine
Stable, Predictable, Manageable and Reproducible, Free computing platform CentOS

CentOS 7.5 Free
Cognosys
Virtual Machine
Stable, Predictable, Manageable and Reproducible, Free computing platform CentOS

Ubuntu 18.04 LTS Free
Cognosys
Virtual Machine
Ubuntu is a free and open-source Linux distribution based on Debian.

CentOS 8.3 Free
Cognosys
Virtual Machine
Ready to use CentOS 8.3
Starts at

CentOS 8.2 Free
Cognosys
Virtual Machine
Stable, Predictable, Manageable and Reproducible, Free computing platform CentOS
Starts at

Is Marketplace helpful?

ESP 12:29 a. m. 14/05/2022

https://portal.azure.com/#create/microsoft.freeaccountvirtualmachine-linux

Microsoft Azure

Search resources, services, and docs (G+/)

aayalap@ucompensar.e...
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Home > Free services > Create a virtual machine >

Select an image

Other Items

- My Images
- Shared Images
- Community Images (PREVIEW)

Marketplace

- All
- Recently created
- Private products

Categories

- Compute (479)
- Web (396)
- Developer Tools (303)

Select

Select

Select

Select

Select

Docker CE with CentOS 7.7 Free

Cognosys

Virtual Machine

Docker CE is a free and open source containerization platform.

Starts at
Free

Select

Select

PHP 7.3 With CentOS 7.7 Free

Cognosys

Virtual Machine

PHP 7.3 With CentOS 7.7 Free

Starts at
Free

Select

Apache Web Server with CentOS 7.7 Free

Cognosys

Virtual Machine

Apache is an open-source free web server that powers around 67% of all webservers in the world.

Bring your own license

Select

Apache Web Server with CentOS 7.5 Free

Cognosys

Virtual Machine

Apache Web Server with CentOS 7.5 Free in Centos kernel.

Bring your own license

Select

Wordpress with Windows Server 2019 Free

Cognosys

Virtual Machine

WordPress is a free and open-source content management system.

Bring your own license

Select

Previous Page 1 of 51 Next

Is Marketplace helpful?

ESP 12:31 a. m. 14/05/2022

Create a virtual machine

all your resources.

Subscription * — Azure for Students

Resource group * — (New) appvm_group
Create new

Instance details

Virtual machine name * — appvm

Region * — (Asia Pacific) South India

Availability options — No infrastructure redundancy required

Security type — Standard

Image * — Docker CE with CentOS 7.7 Free - Gen1
See all images | Configure VM generation

Azure Spot instance — ☐

Size *

Review + create | < Previous | Next : Disks >

https://portal.azure.com/#create/Microsoft.VirtualMachine

Microsoft Azure | Search resources, services, and docs (G+/) | aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...

All services > Virtual machines >

Create a virtual machine

Security type: Standard

Image *: Docker CE with CentOS 7.7 Free - Gen1

See all images | Configure VM generation

Azure Spot instance: ☐

Size *: Standard_B1s - 1 vcpu, 1 GiB memory ($10.59/month)

See all sizes

Administrator account

Authentication type: ○ SSH public key ◉ Password

Username *: alfonso

Password *: ••••••••••••••

Confirm password *: ••••••••••••••

Review + create | < Previous | Next : Disks >

ESP 12:42 a. m. 14/05/2022

Select a VM size

Search by VM size... | Display cost : **Monthly** | vCPUs : **All** | RAM (GiB) : **All** | Add filter

Showing 390 VM sizes. | Subscription: Azure for Students | Region: South India | Current size: Standard_DS3 | Image: Docker CE with CentOS 7.7 Free | Learn more about VM sizes | Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disks	Max IOPS	Temp storage (GiB)	Premium disk
Most used by Azure users	The most used sizes by users in Azure						
B1ls	General purpose	1	0.5	2	160	4	Supported
B1s	General purpose	1	1	2	320	4	Supported
DS1_v2	General purpose	1	3.5	4	3200	7	Supported
B2s	General purpose	2	4	4	1280	8	Supported
DS2_v2	General purpose	2	7	8	6400	14	Supported
D2s_v3	General purpose	2	8	4	3200	16	Supported
B2ms	General purpose	2	8	4	1920	16	Supported

Select

Prices presented are estimates in your local currency that include Azure infrastructure applicable software costs, as well as any discounts for the subscription and location. Final charges will appear in your local currency in cost analysis and billing views. View Azure pricing calculator.

All services > Virtual machines >

Create a virtual machine

Basics | Disks | Networking | Management | Advanced | Tags | Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. Learn more

Disk options

OS disk type *: Standard SSD (locally-redundant storage)

If performance is critical for your workloads, choose Premium SSD disks for lower latency, higher IOPS and bandwidth, and bursting. Learn more

Delete with VM: [x]

Encryption at host: [ ]

Encryption at host is not registered for the selected subscription. Learn more about enabling this feature

Encryption type *: (Default) Encryption at-rest with a platform-managed key

Review + create | < Previous | Next : Networking >

Create a virtual machine

Validation passed

Basics | Disks | Networking | Management | Advanced | Tags | Review + create

Cost given below is an estimate and not the final price. Please use Pricing calculator for all your pricing needs.

PRODUCT DETAILS

Docker CE with CentOS 7.7 Free
by Cognosys
Microsoft Enterprise Contract | Privacy policy

Not covered by credits
0.0000 USD/hr

1 X Standard B1s
by Microsoft
Terms of use | Privacy policy

Subscription credits apply
0.0145 USD/hr
Pricing for other VM sizes

Create | < Previous | Next > | Download a template for automation

CreateVm-cognosys.docker-ce-with-centos-7-7-free--20220514004013 | Overview

Deployment

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-cognosys.docker-ce-with-centos-7-7...
Subscription: Azure for Students
Resource group: appvm_group

Start time: 5/14/2022, 12:48:14 AM
Correlation ID: 1401c654-2c13-40b3-a7f7-f70125deb739

Deployment details (Download)

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

Go to resource | Create another VM

Cost Management

Get notified to stay within your budge
prevent unexpected charges on your

Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Start learning today >

appvm
Virtual machine

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Networking
- Connect
- Disks
- Size
- Security
- Advisor recommendations
- Extensions + applications
- Continuous delivery

Connect | Start | Restart | Stop | Capture | Delete | Refresh | Open in mobile | CLI / PS | Feedback

Essentials

JSON View

Resource group (move)	appvm_group
Status	Running
Location	South India
Subscription (move)	Azure for Students
Subscription ID	1aee89a2-7a89-40a2-a937-43c65b418715
Tags (edit)	Click here to add tags
Operating system	Linux (centos 7.9.2009)
Size	Standard B1s (1 vcpu, 1 GiB memory)
Public IP address	52.140.55.93
Virtual network/subnet	appvm_group-vnet/default
DNS name	Not configured

Properties | Monitoring | Capabilities (7) | Recommendations | Tutorials

Virtual machine

Computer name	appvm
Health state	-
Operating system	Linux (centos 7.9.2009)
Publisher	cognosys
Offer	docker-ce-with-centos-7-7-free
Plan	docker-ce-with-centos-7-7-free

Networking

Public IP address	52.140.55.93
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	appvm_group-vnet/default
DNS name	Configure

Administrar putty

Archivo Inicio Compartir Vista Herramientas de aplicación

Este equipo > Software (D:) > usr > share > putty

Buscar en putty

Nombre	Fecha de modificación	Tipo	Tamaño
diagpyme200.bat	4/01/2021 11:01 a. m.	Archivo por lotes ...	1 KB
wifi2.bat	29/12/2020 11:54 a. m.	Archivo por lotes ...	1 KB
PLINK.EXE	13/11/2020 8:24 a. m.	Aplicación	660 KB
PSCP.EXE	13/11/2020 8:24 a. m.	Aplicación	668 KB
PSFTP.EXE	13/11/2020 8:24 a. m.	Aplicación	684 KB
PUTTY.CHM	13/11/2020 8:24 a. m.	Archivo de Ayuda ...	291 KB
PUTTY.EXE	13/11/2020 8:24 a. m.	Aplicación	1.152 KB
PUTTYGEN.EXE	13/11/2020 8:24 a. m.	Aplicación	681 KB

Acceso rápido
- Escritorio
- Descargas
- Documentos
- Imágenes
- cloudcomputing
- downloads
- ml
- ref

OneDrive - Comunica

Este equipo
- Descargas
- Documentos
- Escritorio
- Imágenes
- Música
- Objetos 3D
- Vídeos
- System (C:)
- Software (D:)

Red

52.140.55.93 - PuTTY

PuTTY Security Alert

The server's host key is not cached in the registry. You have no guarantee that the server is the computer you think it is.
The server's ssh-ed25519 key fingerprint is:
ssh-ed25519 255
e5:d4:81:3f:83:02:b5:f4:17:98:48:bb:6b:20:83:e4
If you trust this host, hit Yes to add the key to PuTTY's cache and carry on connecting.
If you want to carry on connecting just once, without adding the key to the cache, hit No.
If you do not trust this host, hit Cancel to abandon the connection.

Sí | No | Cancelar | Ayuda

141 elementos 1 elemento seleccionado 1,12 MB

ESP 12:55 a. m. 14/05/2022

alfonso@appvm:~

```
login as: alfonso
alfonso@52.140.55.93's password:
[alfonso@appvm ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        454M     0  454M   0% /dev
tmpfs           464M     0  464M   0% /dev/shm
tmpfs           464M  6.8M  457M   2% /run
tmpfs           464M     0  464M   0% /sys/fs/cgroup
/dev/sda2        30G  1.9G   28G   7% /
/dev/sda1       494M  103M  392M  21% /boot
/dev/sda15      495M   12M  484M   3% /boot/efi
/dev/sdb1       3.9G   16M  3.7G   1% /mnt/resource
tmpfs            93M     0   93M   0% /run/user/1000
[alfonso@appvm ~]$ lscpu
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Byte Order:            Little Endian
CPU(s):                1
On-line CPU(s) list:   0
Thread(s) per core:    1
Core(s) per socket:    1
Socket(s):             1
NUMA node(s):          1
Vendor ID:             GenuineIntel
CPU family:            6
Model:                 63
Model name:            Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40GHz
Stepping:              2
CPU MHz:               2394.455
BogoMIPS:              4788.91
Hypervisor vendor:     Microsoft
Virtualization type:   full
Lld cache:             32K
Lli cache:             32K
L2 cache:              256K
L3 cache:              30720K
NUMA node0 CPU(s):     0
Flags:                 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush mmx fxsr sse sse2 ss syscall nx pdpelgb rdtscp lm constan
t_tsc rep_good nopl xtopology eagerfpu pni pclmulqdq ssse3 fma cx16 pcid sse4_1
sse4_2 movbe popcnt aes xsave avx f16c rdrand hypervisor lahf_lm abm invpcid_sin
gle fsgsbase bmi1 avx2 smep bmi2 erms invpcid xsaveopt md_clear
[alfonso@appvm ~]$
```

ESP 12:56 a. m. 14/05/2022

Recursos para estudiantes

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Historia 5

Como un estudiante, quiero conocer los recursos que me ofrece Azure, para aprender de la nube.

Recursos para estudiantes de desarrollo

Adquiera conocimientos que impulsen su carrera y cause un impacto positivo en todo el mundo.

Empiece gratis

Impulse su carrera tecnológica

Busque los recursos que necesita para aprenderlo todo, desde los principales lenguajes de programación hasta los conocimientos de desarrollo para la nube que pueden ayudarle a conseguir su primer trabajo. Obtenga más capacidad para conseguir más cosas con herramientas y programas exclusivos para estudiantes.

Compilación gratuita en la nube con Azure for Students

Use el correo electrónico de su universidad o escuela para registrarse y renovar cada año que sea estudiante

Empiece gratis

Más información acerca de la idoneidad

Comience con $100 crédito

No se requiere tarjeta de crédito

Curso: M | UCompe | Epic 7: M | Create a | Virtual M | (39) S | Quicksta | Azure Ap | Upload a | Connect | Quicksta | Sign | Free Virt

https://login.microsoftonline.com/organizations/oauth2/v2.0/authorize?client_id=8e0e8db5-b713-4e91

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Campus virtual

aayalap@ucompensar.edu.co

Enter password

Because you're accessing sensitive info, you need to verify your password.

••••••••••••

Forgot my password

Sign in with another account

Sign in

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Home > Education

Education | Get started

- Overview
- Get started

Learning resources

- Roles
- Software
- Learning
- Templates

My account

- Profile

Need help?

- Support

Welcome to the Azure Education Hub!

Whether you're a student getting started, an educator teaching advanced workloads, or just interested in building your cloud skills, we've got the development resources you need. Learn more

Explore Azure roles

Explore Azure roles to start building the key cloud skills you'll need to be successful in leading technology careers.

Launch your career

Discover free services on Azure

Deploy services that are included for free with your Azure subscription. You can use these services (within the limits) without using any of your credit.

Azure free services

Download free software

Gain access to full versions of professional developer tools for free to help you build code and deploy on your Azure subscription.

Download software

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Developer

Roles

You design, build, and test the software and systems that make technology work, from commercial apps to enterprise cloud solutions. Get the skills and knowledge needed to build your career as a successful Developer.

Learning Paths (45) | Azure Templates (14)

Provision a function app with sourc...
Azure Functions Github · Intermediate · $$
This template deploys a Function App hosted in a new dedicated App Service Plan. The Function App has a child resource that

Copy FTP files to Blob with logic app.
Azure Logic App · Beginner · $
This template allows you to create a Logic app that listens to a folder on an FTP server and will copy it to an Azure Blob container.

Provision a function app run
Azure Function · Intermediate ·
This template provisions a fun
dedicated hosting plan, meani
and billed just like any App Se

Create a logic app by using a template
Azure Logic App · Beginner · $
This template creates an empty logic app that can be used to define workflows.

Build a Web App on Linux with Azur...
Azure App Services · Beginner · FREE
This template provides a easy way to deploy Web Apps on Linux with Azure database for MySQL.

Azure Web App with Java To
Azure App Services · Intermedi
This template deploys a simple
Application with Java 8 and To
allowing you to run Java applic

Build a Web App on Linux wit...

Azure Quickstart Templates

Azure App Services · Beginner · FREE
Developer

This template provides a easy way to deploy Web Apps on Linux with Azure database for MySQL.

Browse learning

Explore this topic in-depth through guided paths or learn how to accomplish a specific task through individual modules.

Browse related learning options

Useful links

Getting Started
Azure App Services
Read Me
Browse on GitHub

Deploy | Cancel

ESP 4:19 p. m. 13/05/2022

Inicio - Microsoft Azure

portal.azure.com/#home

Microsoft Azure | Buscar recursos, servicios y documentos (G+/) | Cloud Shell | alfonso.ayala@claro.co... COMUNICACION CELULAR S.A.- ...

Le damos la bienvenida a Azure

¿No tiene ninguna suscripción? Consulte las opciones siguientes.

Empiece con una prueba gratuita de Azure

Obtenga un crédito gratuito de 200 USD para los productos y servicios de Azure, más 12 meses de servicios gratuitos populares.

Iniciar | Más información

Administrar Azure Active Directory

Administre el acceso, establezca directivas inteligentes y mejore la seguridad con Azure Active Directory.

Ver | Más información

Acceder a las ventajas para alumnos

Obtenga software gratuito o crédito de Azure, o acceda a Azure Dev Tools for Teaching después de verificar su estado académico.

Explorar | Más información

Servicios de Azure

Crear un recurso | Cuentas de Microsoft... | Azure DevOps organizations | Centro de inicio rápido | Máquinas virtuales | App Services | Cuentas de almacenamiento | SQL Database | Azure Cosmos DB | Más servicios

https://portal.azure.com/#

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Microsoft Azure

Buscar recursos, servicios y documentos (G+/)

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Le damos la bienvenida a Azure

¿No tiene ninguna suscripción? Consulte las opciones siguientes.

Bienvenido a Az

Seleccione Bash o PowerShell. Puede cambiar los shells en cualquier momento mediante el selector de entorno en la barra de herramientas de Cloud Shell. El entorno utilizado más recientemente será el que se utilice de manera predeterminada para la próxima sesión.

Seleccione Bash o PowerShell. Puede cambiar los shells en cualquier momento mediante el selector de entorno en la barra de herramientas de Cloud Shell. El entorno utilizado más recientemente será el que se utilice de manera predeterminada para la próxima sesión.

Bash PowerShell

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Le damos la bienvenida a Azure

¿No tiene ninguna suscripción? Consulte las opciones siguientes.

No se encontraron suscripciones válidas

Necesita una suscripción de Azure para usar Azure Cloud Shell.

Crear una suscripción de Azure

Cerrar

Cuadro de diálogo de terminal de Cloud Shell

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Inicio - Microsoft Azure | Cree su cuenta gratuita de Azure

azure.microsoft.com/es-es/free/

Azure | Explorar | Productos | Soluciones | Precios | Asociados | Recursos | Búsqueda | Documentación | Soporte | Póngase en contacto con ventas | Iniciar sesión

Cree soluciones en la nube con una cuenta gratuita de Azure

Cree, implemente y administre aplicaciones en varias nubes, en el entorno local y en el perímetro

Empiece gratis

Pago por uso >

Servicios populares

40+ otros servicios gratis

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Inicio - Microsoft Azure | Iniciar sesión en la cuenta

login.microsoftonline.com/organizations/oauth2/v2.0/authorize?client_id=8e0e8db5-b713-4e91-98e6-470fed0aa4c2&response_mode=form_post&response_...

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Escribir contraseña

Puesto que va a acceder a información sensible, debe verificar su contraseña.

••••••••••

He olvidado mi contraseña

Iniciar sesión con otra cuenta

Iniciar sesión

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Inicio - Microsoft Azure | Azure - Sign up

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Su perfil

País o región

Colombia

Elija la ubicación que coincida con su dirección de facturación. **No podrá cambiar la selección posteriormente.** Si su país no aparece en la lista, la oferta no está disponible en su región. Más información

Nombre

Alfonso

Segundo nombre (Opcional)

Apellido

Ayala

Dirección de correo electrónico

alfonso.ayala@claro.com.co

Teléfono

3 203 476702

No escriba el código de país en su número de teléfono.

Creación de una cuenta de Azure gratuita

- Servicios populares gratuitos durante 12 meses
- Más de 40 servicios siempre gratuitos
- USD200 de crédito para usar en los primeros 30 días

Sin cargos automáticos

Una vez agotado el crédito, le preguntaremos si quiere continuar con la opción de pago por uso. En caso afirmativo, solo pagará si supera la cantidad gratuita de servicios establecida.

Chatear con ventas

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Ayala

Dirección de correo electrónico

alfonso.ayala@claro.com.co

Teléfono

3 203 476702

Use otro número de teléfono para verificar su identidad.

Envíeme un mensaje de texto | Llámeme

Hemos enviado un código a su teléfono.

Código de verificación

768568

Comprobar código | No he recibido ningún código.

Id. de NIT de empresa

Opcional

Dirección (línea 1)

Carrera 51A 127 75, 901 Int 6

Una vez agotado el crédito, le preguntaremos si quiere continuar con la opción de pago por uso. En caso afirmativo, solo pagará si supera la cantidad gratuita de servicios establecida.

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Código postal (opcional)

Si continúa, acepta que, si usa el correo electrónico de su organización, es posible que su organización disponga de derechos para acceder y administrar sus datos y su cuenta. Más información

- [x] Acepto el contrato de cliente y el contrato de privacidad.
- [x] Quiero recibir información, sugerencias y ofertas de Microsoft sobre Azure y otros productos y servicios de Microsoft y que Microsoft comparta mi información con determinados partners para poder recibir información pertinente sobre sus productos y servicios.

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PowerBI embeded

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Historia 5

Como un estudiante, quiero conocer los recursos que me ofrece Azure, para aprender de la nube.

Create a resource

- Analytics
- Blockchain
- Compute
- Containers
- Databases
- Developer Tools
- DevOps
- Identity
- Integration
- Internet of Things
- IT & Management Tools
- Media
- Migration
- Mixed Reality
- Monitoring & Diagnostics
- Networking

Azure Data Explorer
Create | Learn more

Azure Databricks
Create | Docs | MS Learn

Azure HDInsight
Create | Docs | MS Learn

Log Analytics Workspace
Create | Docs | MS Learn

Power BI Embedded
Create | Docs

Stream Analytics job
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Azure Synapse Analytics
Create | Learn more

Data Science Virtual Machine - Ubuntu 18.04
Create | Learn more

Data Science Virtual Machine - Windows Server 2019
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Confluent Cloud - Pay as you Go
Set up + subscribe | Learn more

Azure Cost Mangement plan
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Azure CycleCloud 8.2
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Metered Plan
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https://portal.azure.com/#create/Microsoft.PowerBIDedicated

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Home > Create a resource >

Power BI Embedded

Resource group * (New) powerbi_group
Create new

RESOURCE DETAILS

Resource name * dashboards
Cannot check name availability in the selected location.

Location *
Sign up for Power BI Try again

Size
A1
1 v-core, 3 GB memory
Change size

Power BI capacity administrator * aayalap@ucompensar.edu.co
Select

Review + Create Next : Tags >

https://go.microsoft.com/fwlink/?linkid=857274

ESP 1:46 a. m. 14/05/2022

https://app.powerbi.com/home?noSignUpCheck=1

Power BI Home

Search

- Home
- Favorites
- Recent
- Create
- Datasets
- Goals
- Apps
- Shared with me
- Learn
- Workspaces
- My workspace
- Get data

Good morning, Alfonso

Select a tile to find and share data-driven insights

Power BI free license assigned

We've assigned you a Power BI (free) license for personal use. You're signed in and can create and explore your own Power BI reports.

Learn more

Privacy Statement

OK

Recommended

Getting started with Power BI

Explore basic Power BI conce...

Explore this data story

Explore the 100 most useful p...

Explore this data story

Cancer statistics in the USA

Getting started with Power BI

Intro—What is Power BI?

Explor

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Home > Create a resource >

Power BI Embedded

Subscription * : Azure for Students

Resource group * : (New) powerbi_group

Create new

RESOURCE DETAILS

Resource name * : compensardashboards

Location * : South Central US

Size : **A1**
1 v-core, 3 GB memory
Change size

Power BI capacity administrator * : aayalap@ucompensar.edu.co

Select

Review + Create

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Power BI Embedded

Welcome to Embedded Generation 2

Improved scalability and usage tracking, and our best performance ever.

Find out more

*Basics Tags Review + Create

BASICS

Subscription	Azure for Students
Resource group	powerbi_group
Location	South Central US
Resource name	compensardashboards
Size	A1
Power BI capacity administrator	aayalap@ucompensar.edu.co

Create < Previous : Tags Automation template

Create

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SPRINT REVIEW

Almacenamiento con servicio

SPRINT RETROSPECTIVE

POR HACER:

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