

# Cloud computing - Seguridad

Especialización en Big Data

Mayo de 2022





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## 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 Seguridad
- 2 Protección de datos
- 3 Seguridad de los servicios
- 4 Estándares de autenticación
- 5 Estándares de virtualización
- 6 Principios de seguridad internacional

## GOAL

Conocer los aspectos de seguridad en la nube.



## Historia 1

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

# Seguridad



# Seguridad de la información

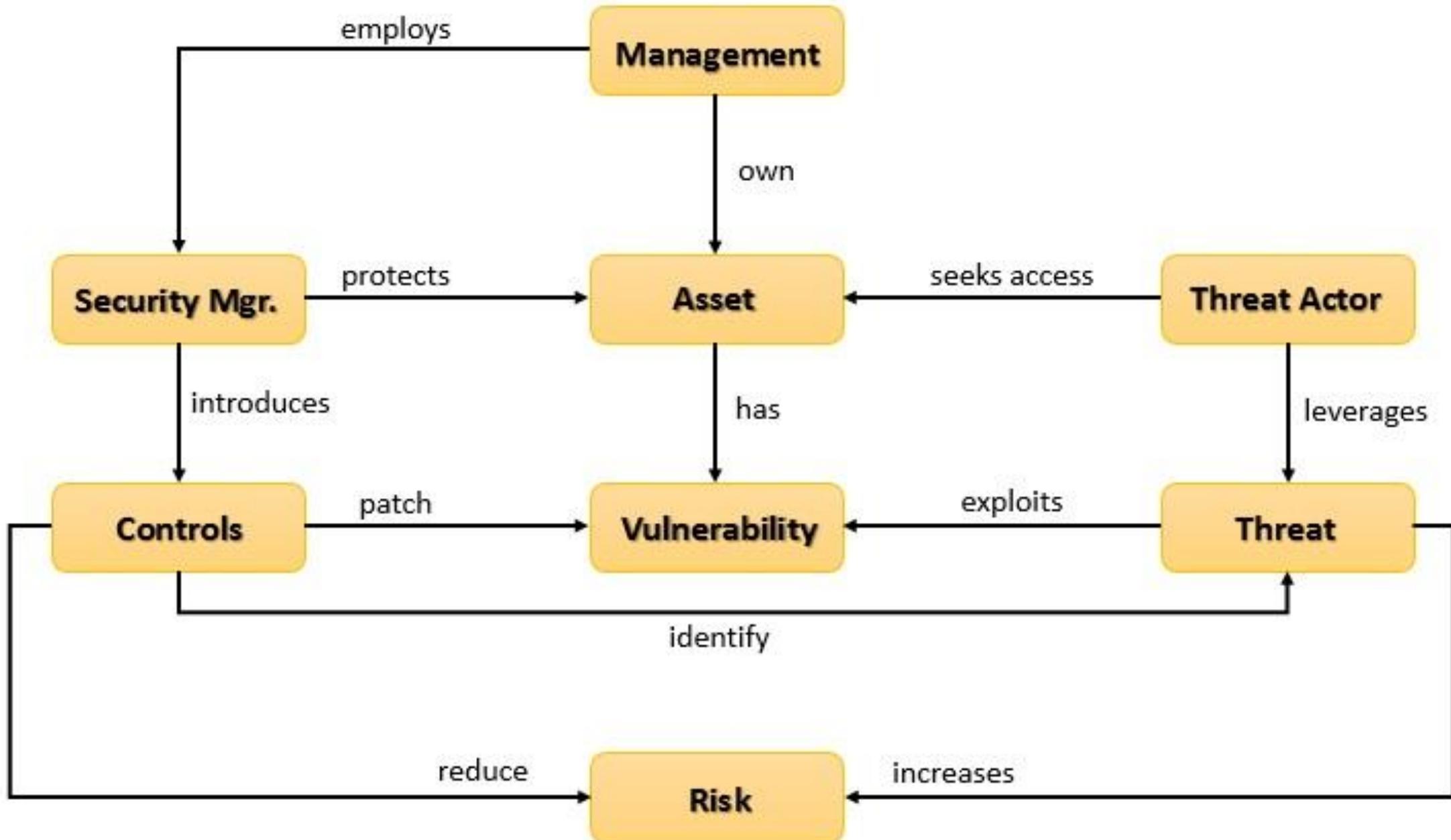
Procesos y herramientas diseñados y desplegados para proteger información sensible del negocio de modificación, destrucción, disruptión e inspección.

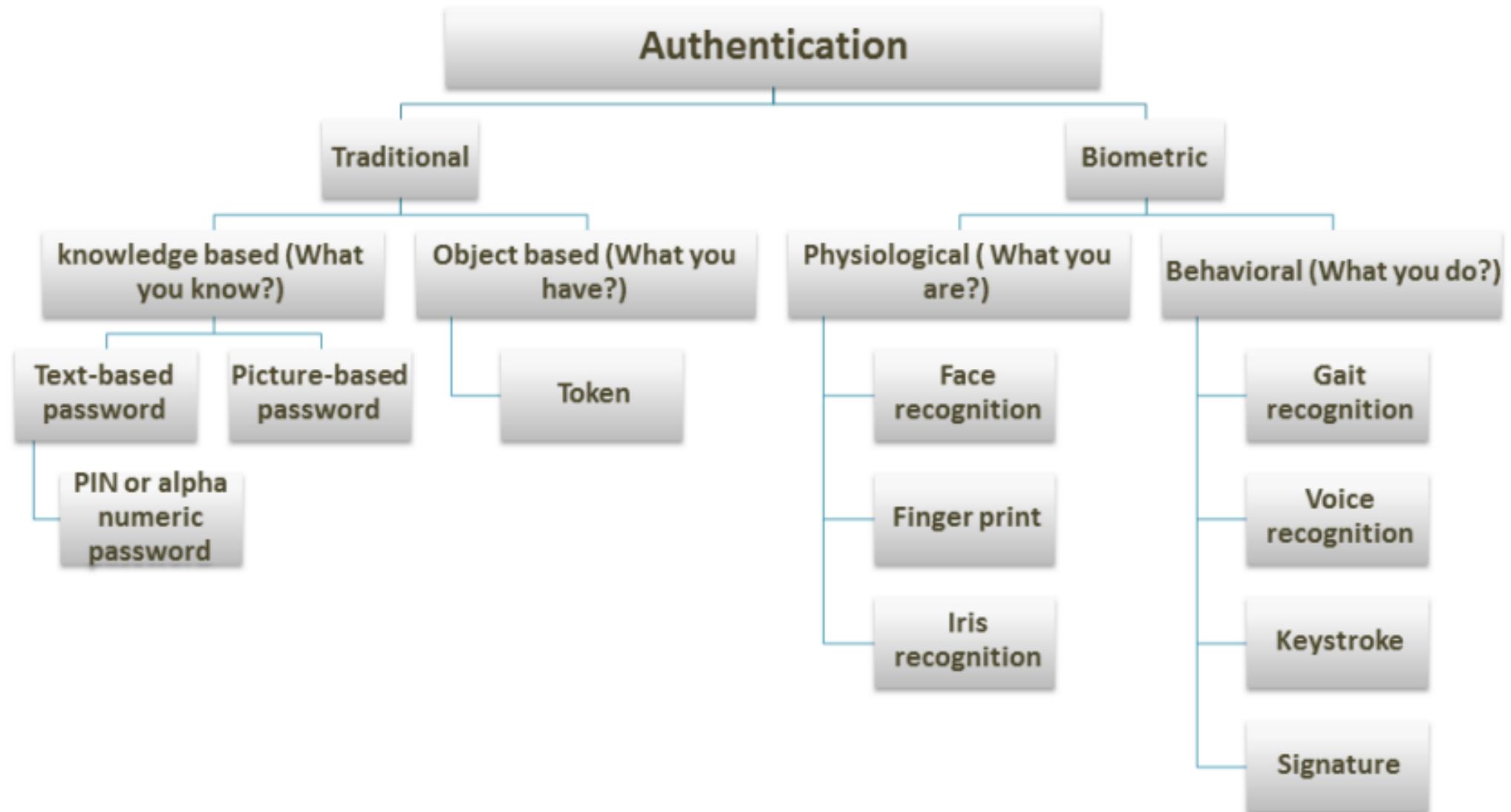


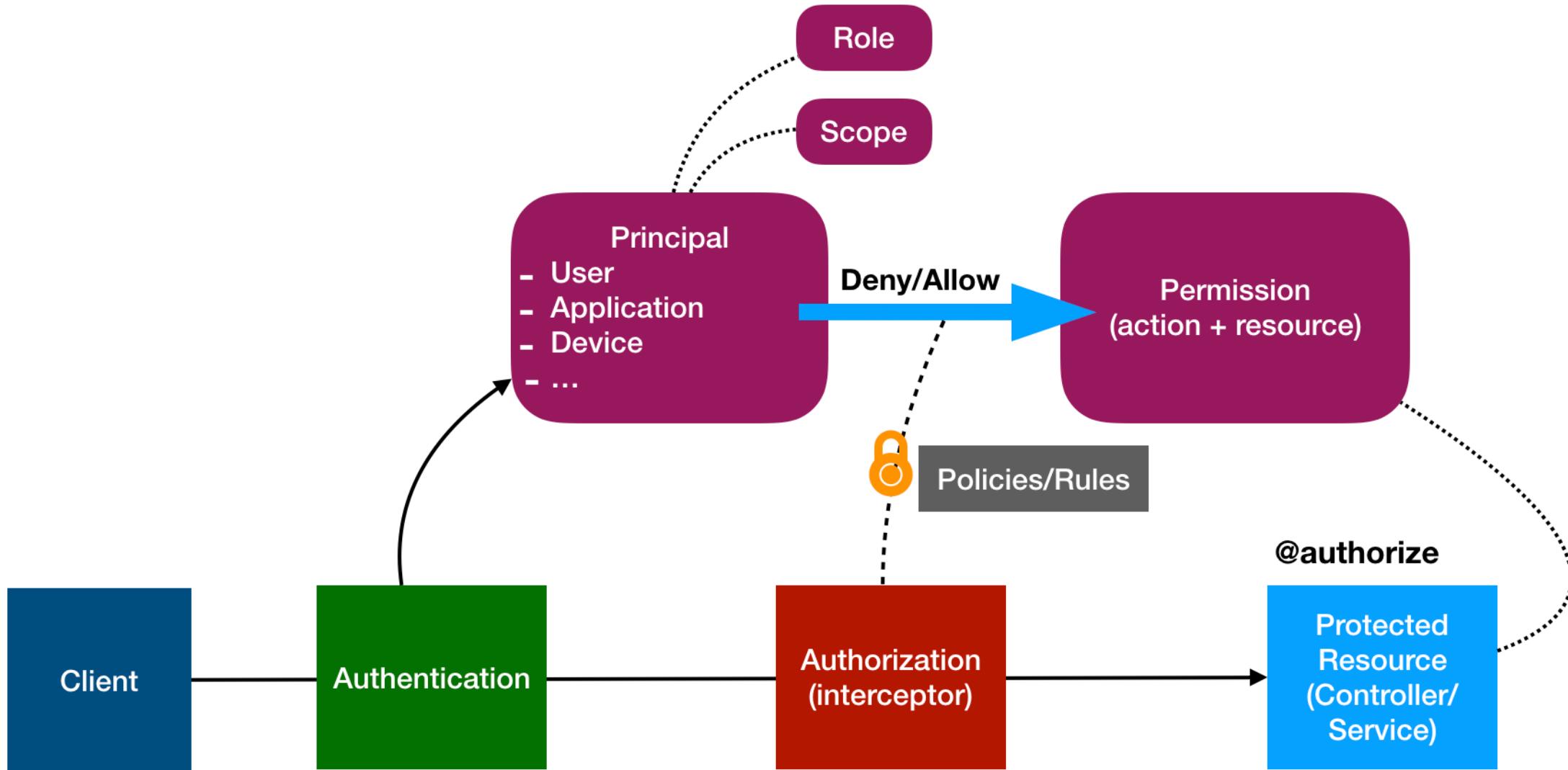
CIA



 **Risk** =  **Threat** \*  **Vulnerability**







## Authentication



**Who are you?**

Validate a system is accessing by the right person

## Authorization

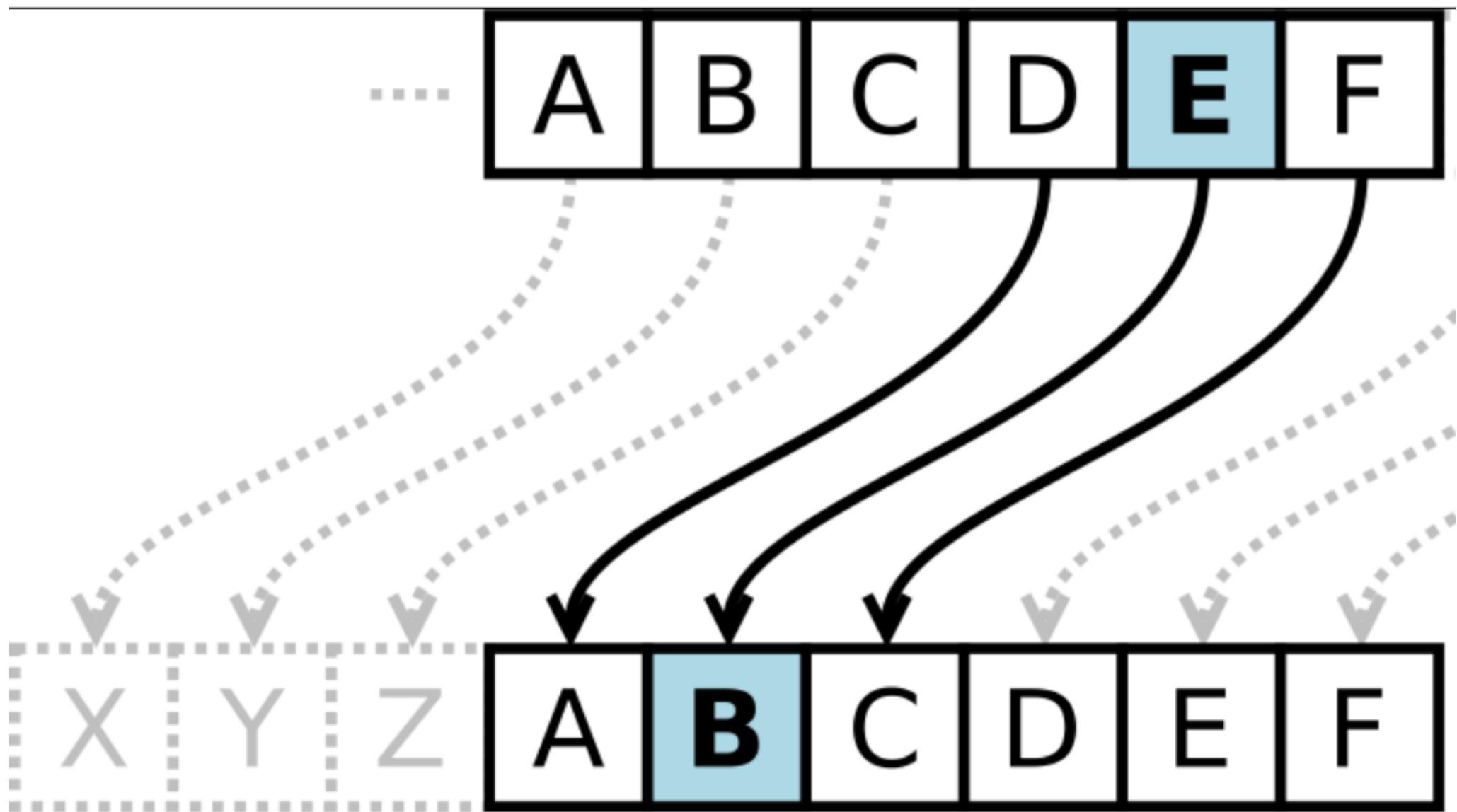


**Are you allowed to do that?**

Check users' permissions to access data

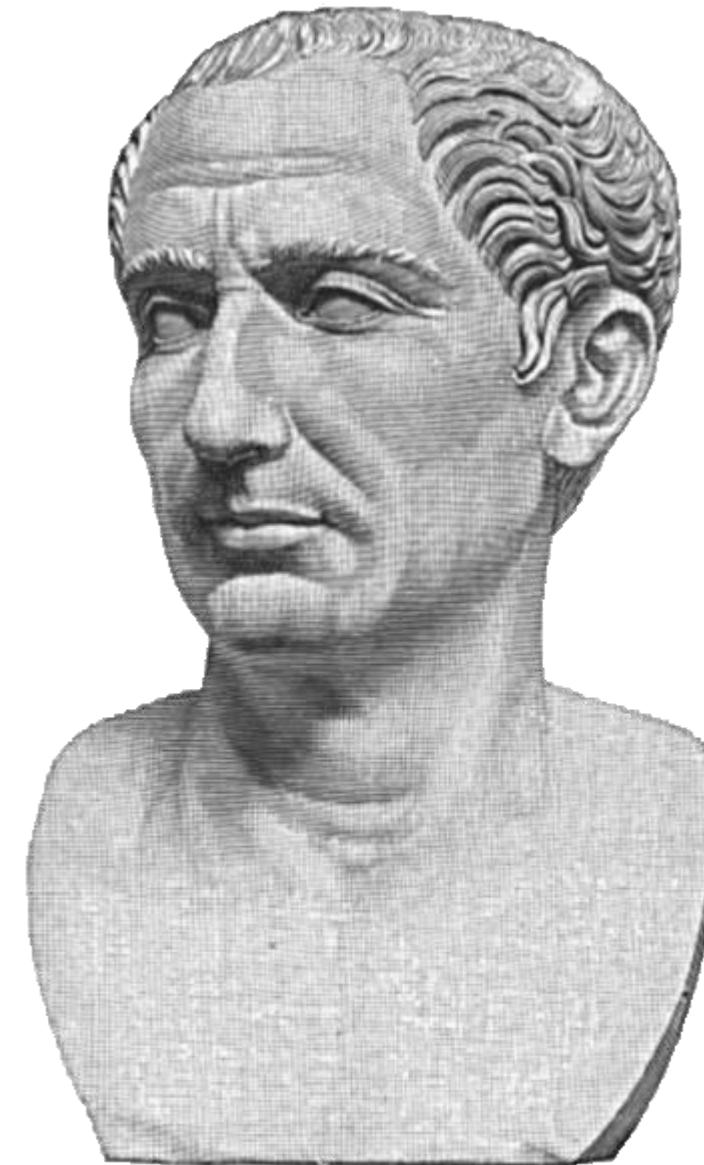
Descifra el mensaje:

pxisx qr jrkal

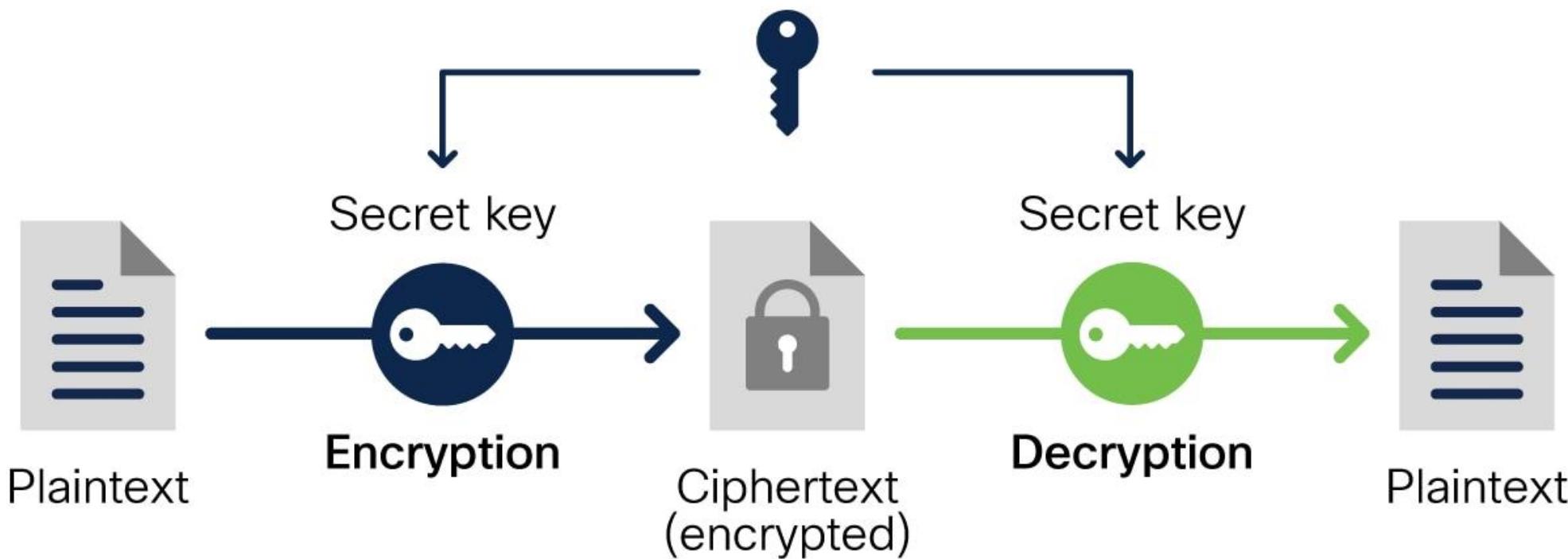


“Los cobardes mueren varias veces antes de su Muerte real, los valientes sólo saborean la Muerte una vez.”

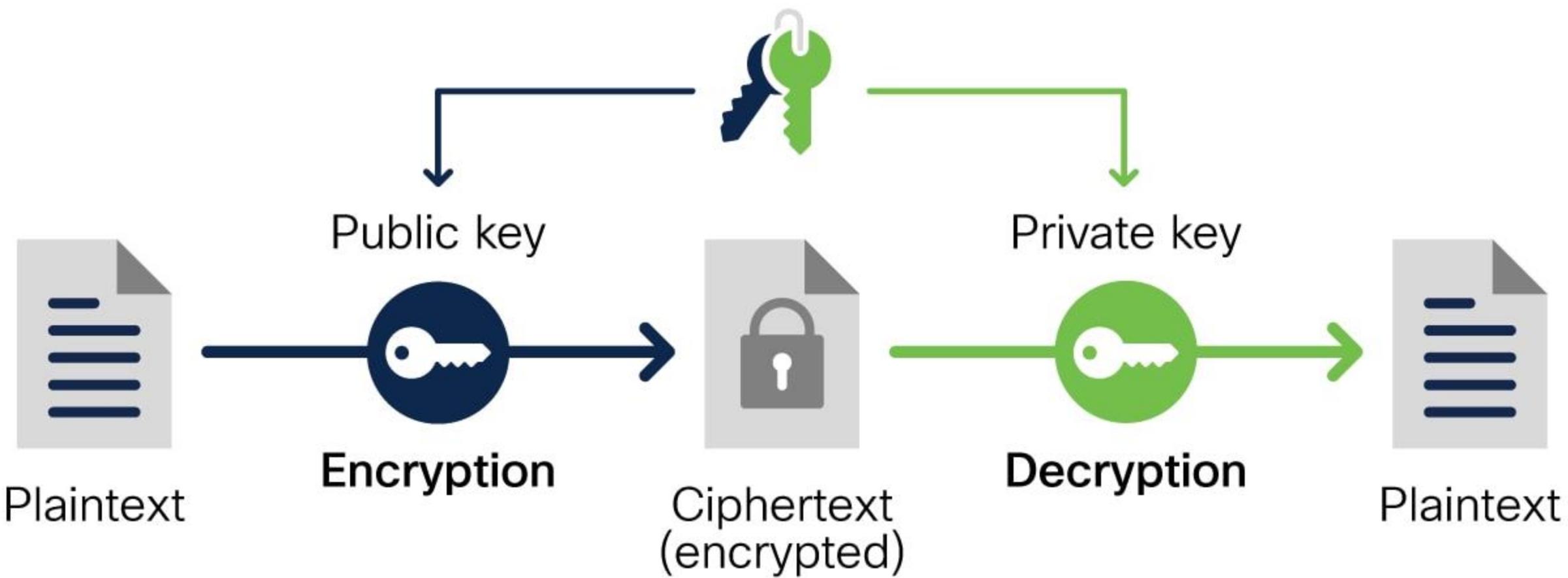
Julio Cesar



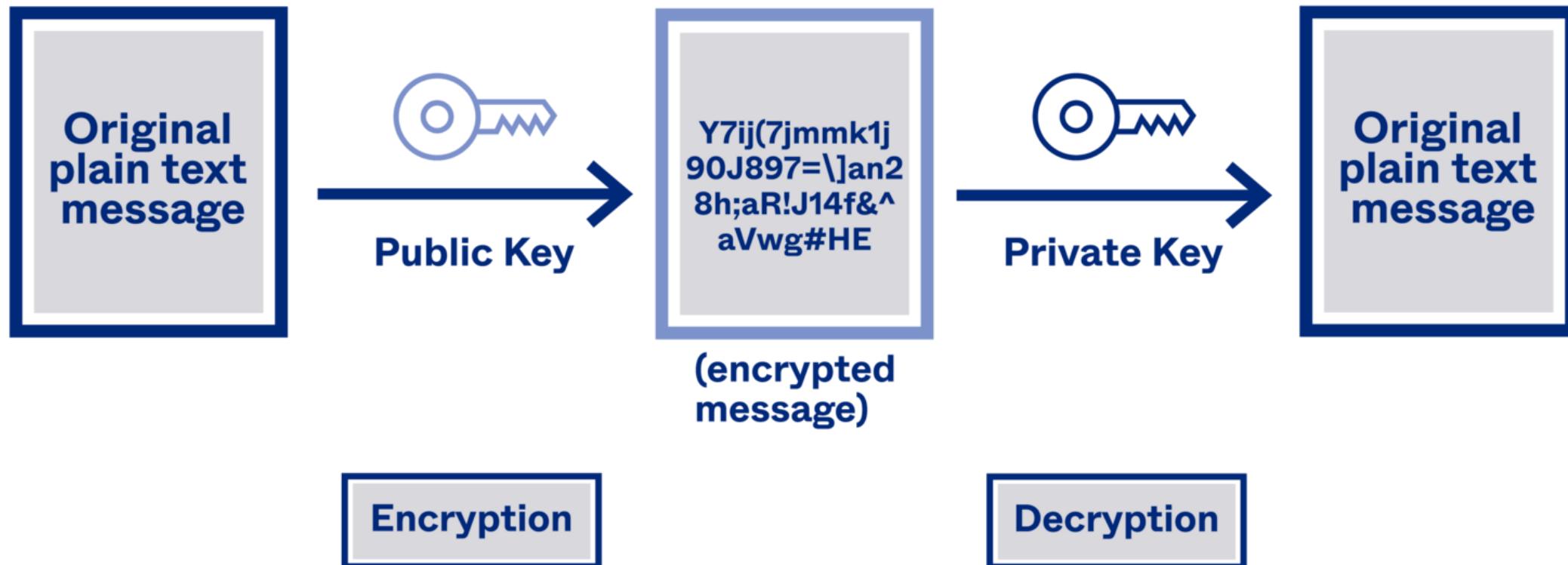
## Symmetric encryption



# Asymmetric encryption

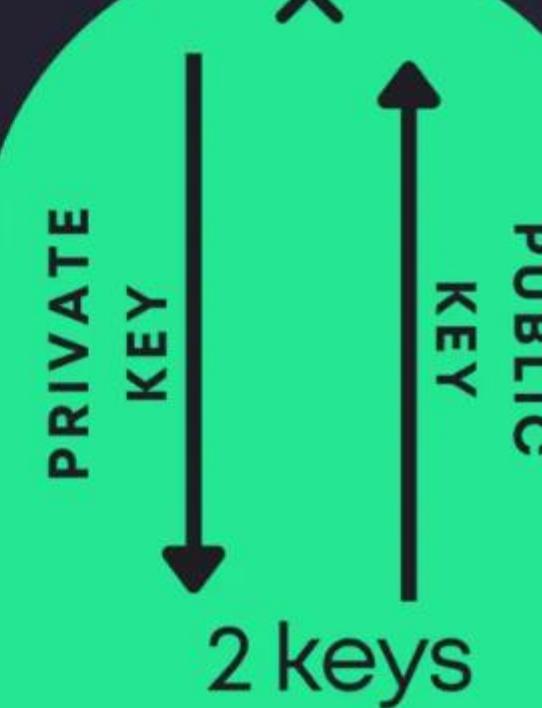


# PUBLIC KEY ENCRYPTION



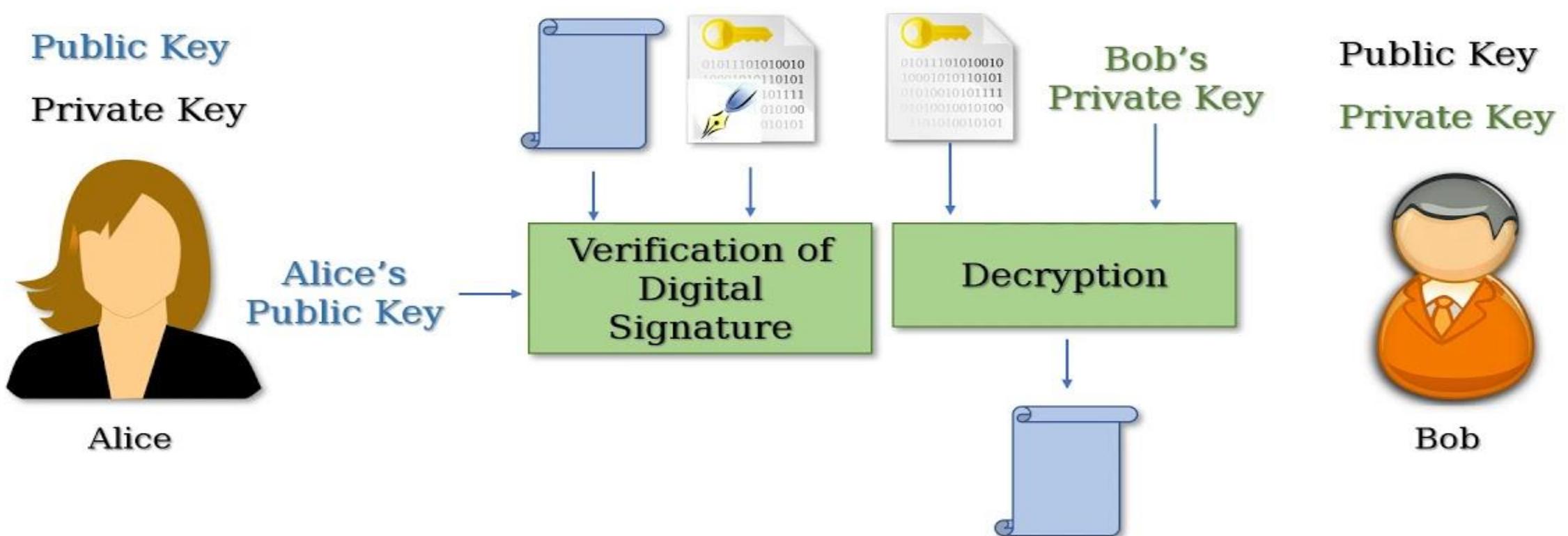
# Symmetric Encryption

1 key



# Asymmetric Encryption

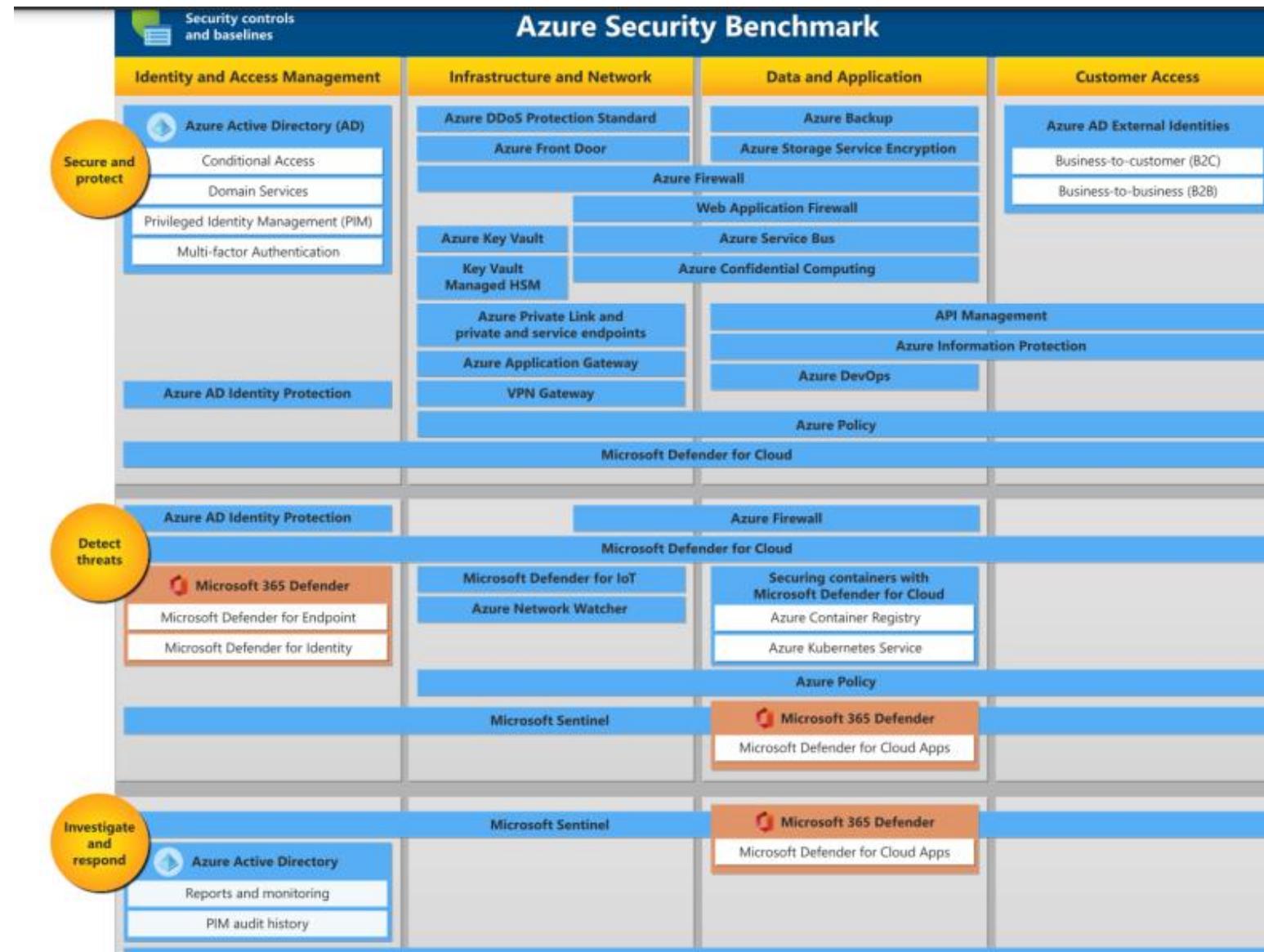
# No repudiación



# Protección de la data (Azure)

- Azure role-based access control (Azure RBAC)
- Shared Access Signature
- Encryption in Transit (HTTPS, SMB 3.0)
- Encryption at rest ()
- Storage Analytics
- Enabling Browser-Based Clients Using CORS

# Seguridad de los servicios



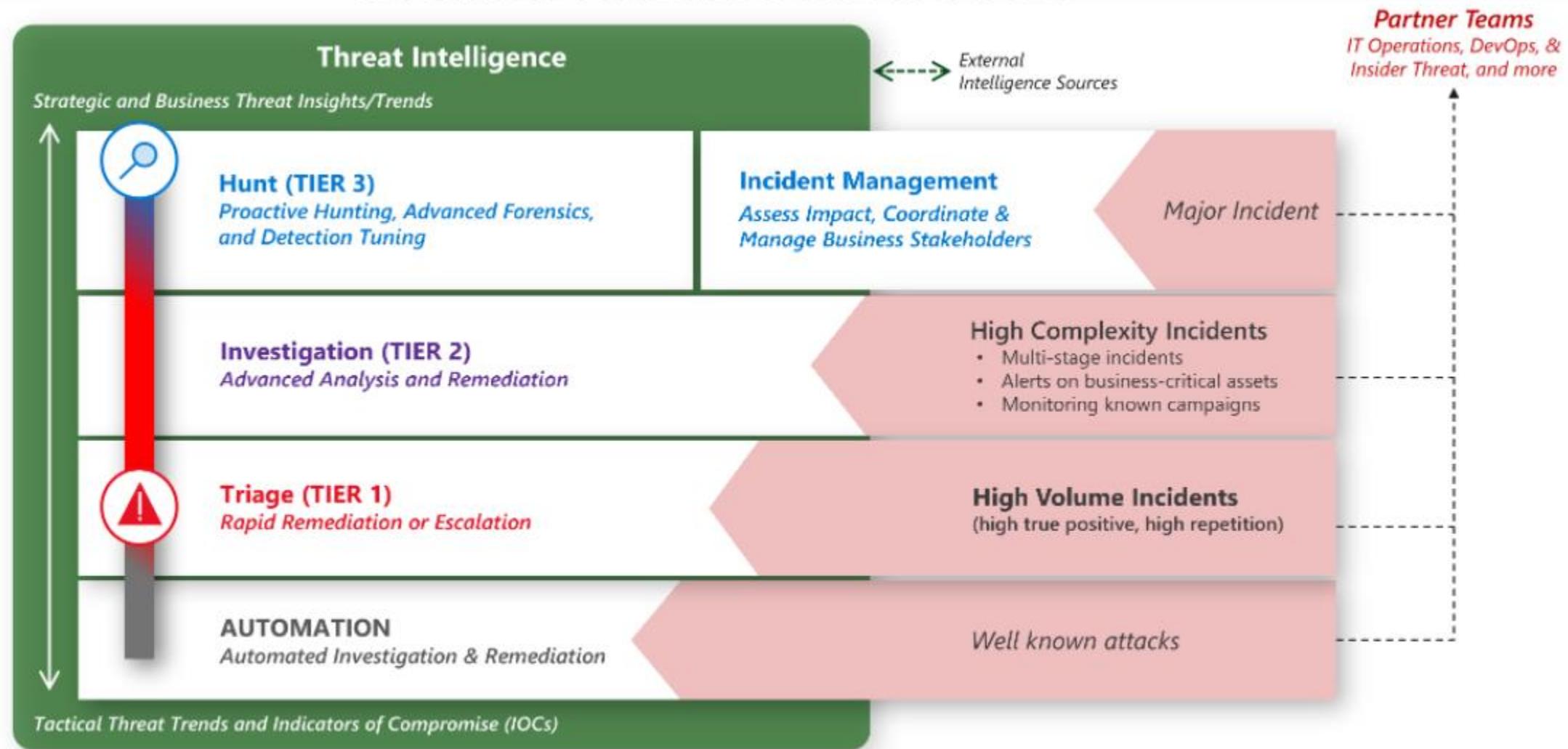


Diagram that shows the Security Operations model.

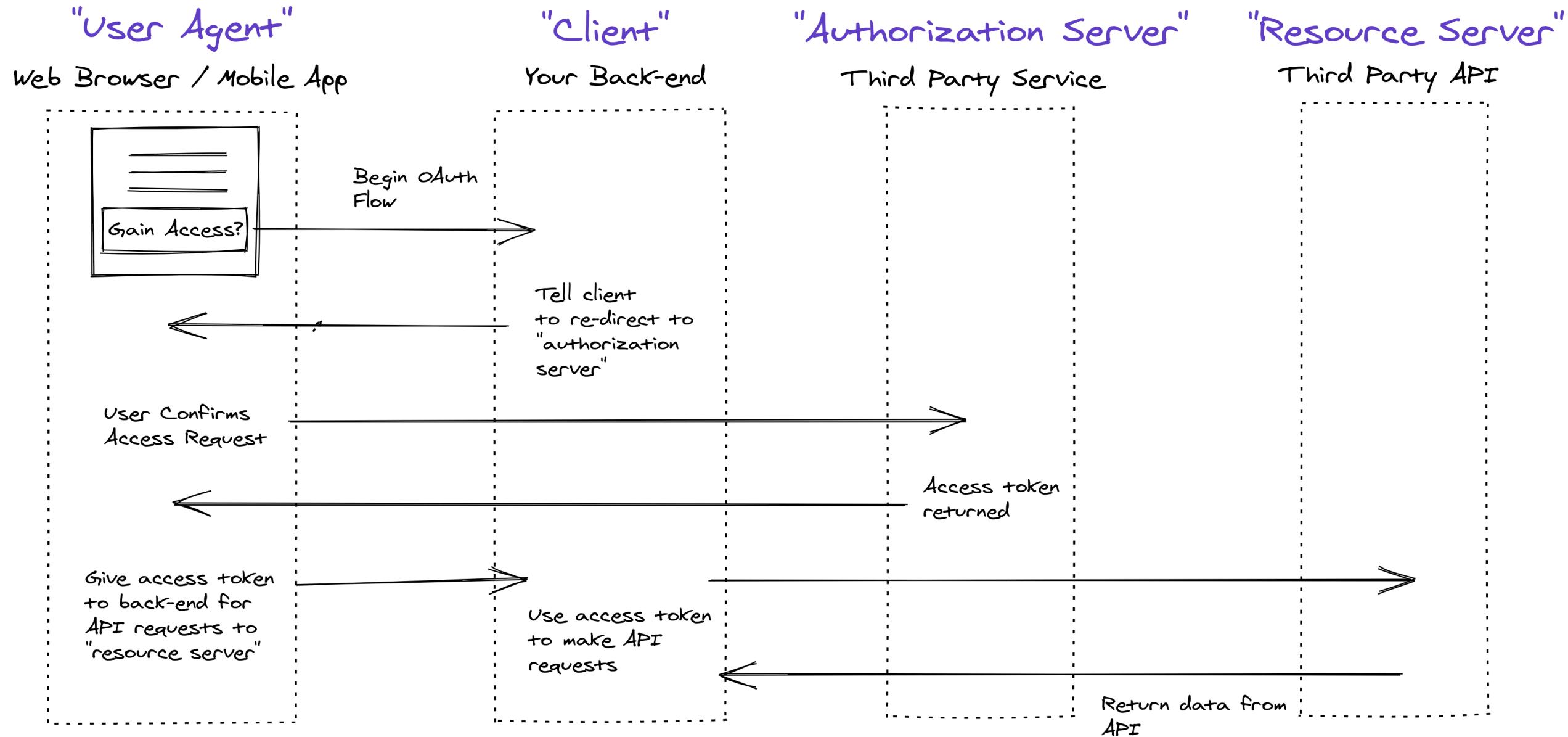


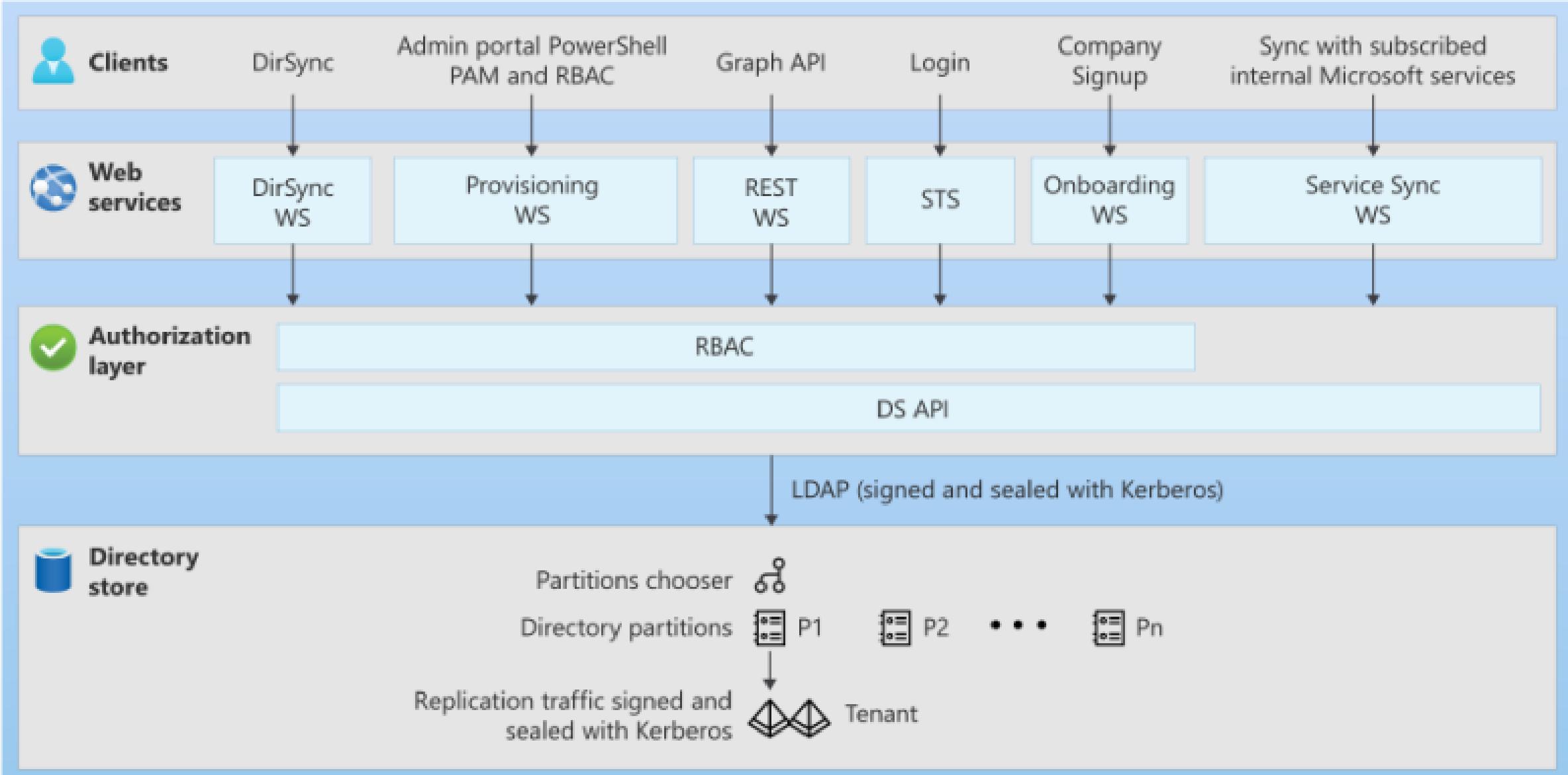
# Estándares de autorización

# Estándares de autenticación

Security Principle: Use a centralized identity and authentication system to govern your organization's identities and authentications for cloud and non-cloud resources.

- Oauth:
- OpenID Connect (OIDC) is an open standard that uses JSON to add identity information to communications between a service provider (like Fastpath) and an identity provider. OIDC is often used for mobile authentication.
- The Security Assertion Markup Language (SAML 2.0) is another open standard that uses XML to allow multiple computers on a network share security credential. SAML is often used in Software as a Service (SaaS) authentication.
- FIDO (Fast Identity Online) NO-password.





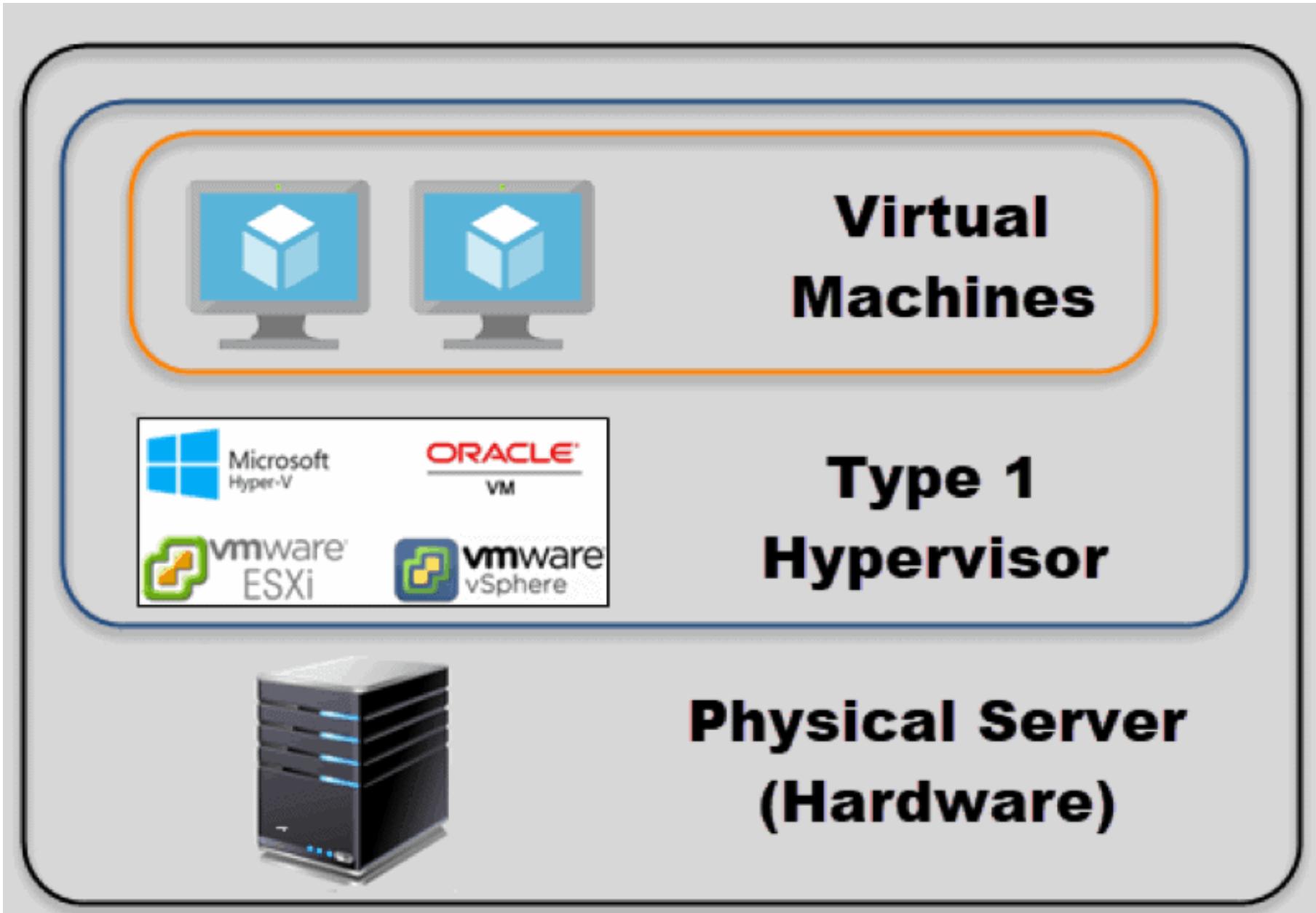
# Estándares de virtualización

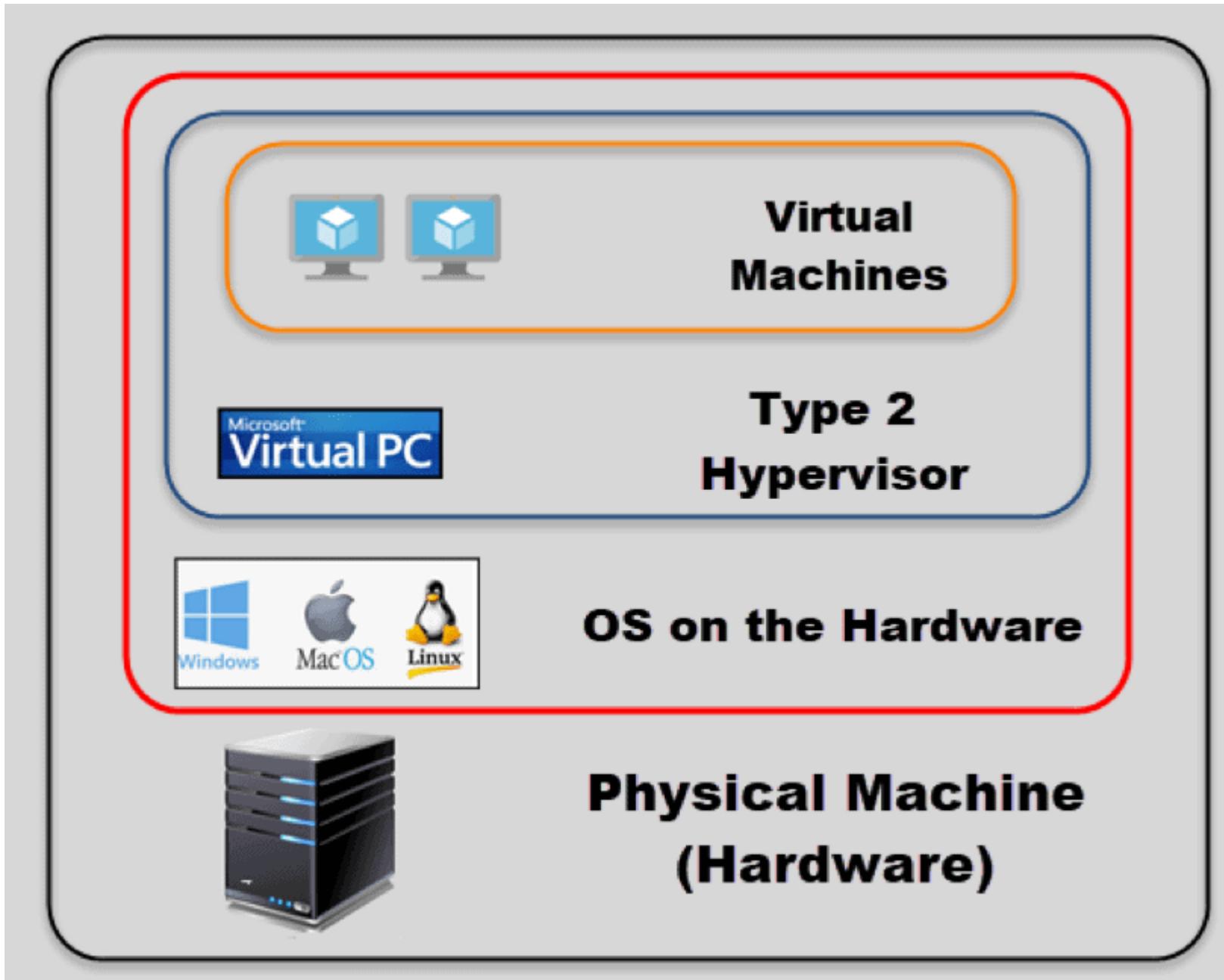


# Hypervisor

**A hypervisor is a crucial piece of software that makes virtualization possible.** It abstracts guest machines and the operating system they run on, from the actual hardware.

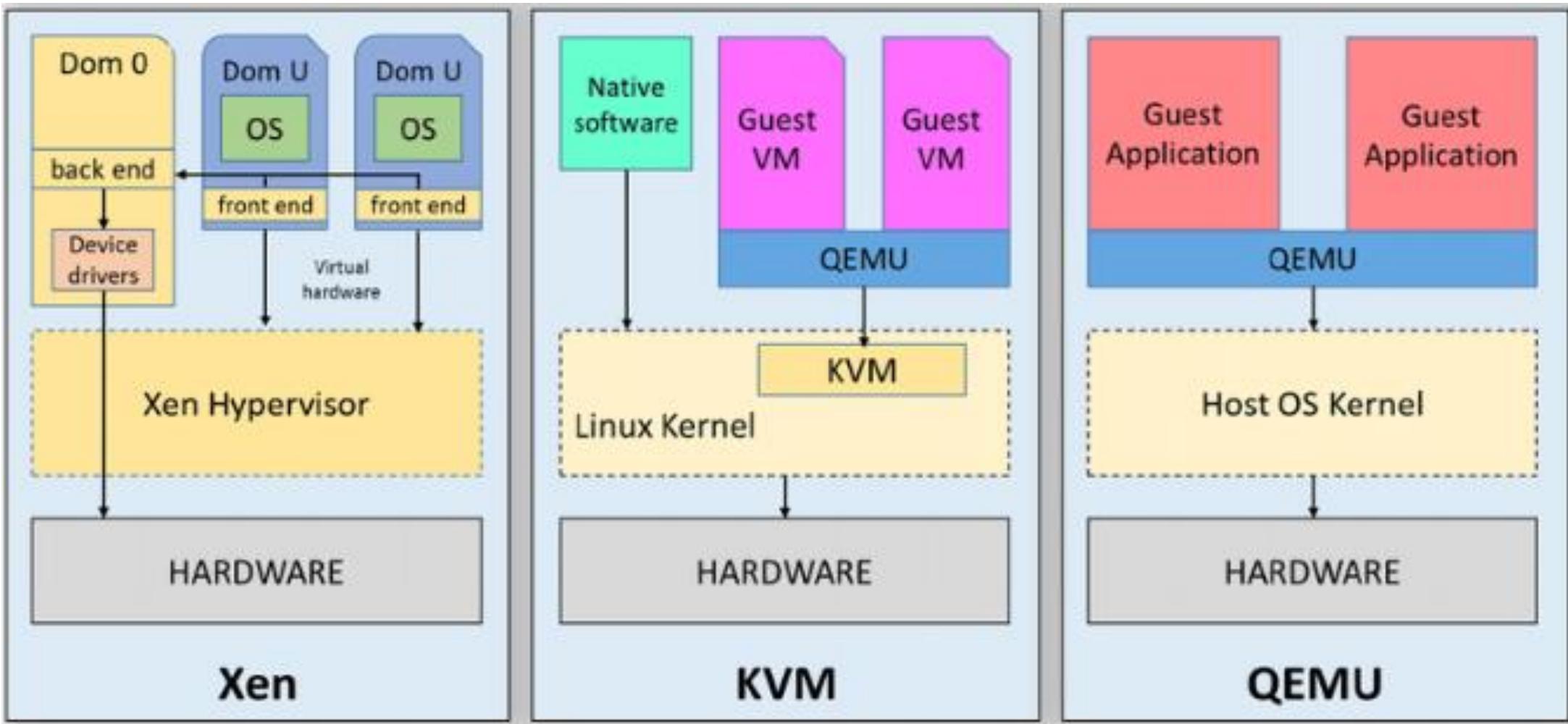
- **Type 1 Hypervisor** (also called bare metal or native)
- **Type 2 Hypervisor** (also known as hosted hypervisors)

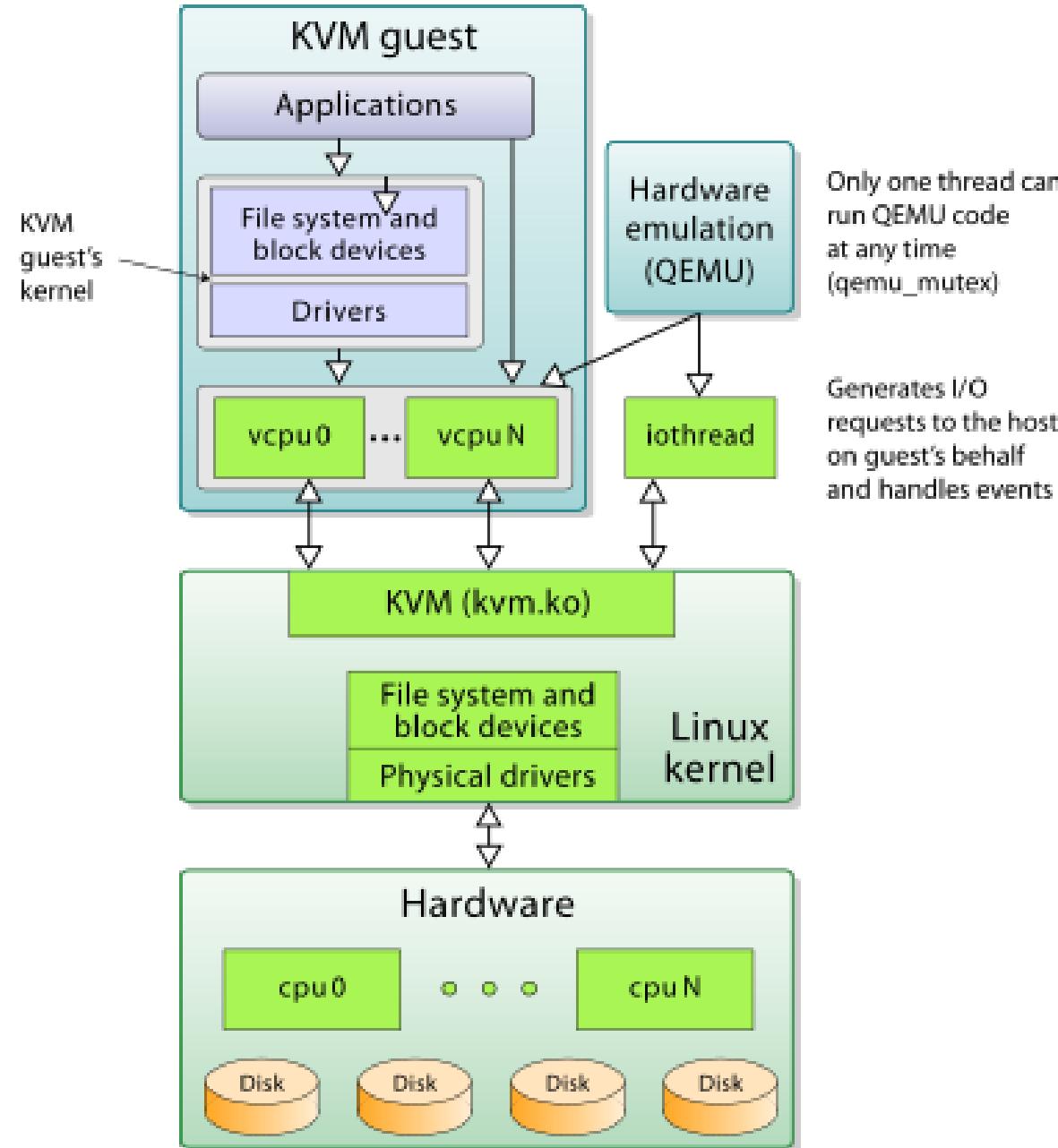


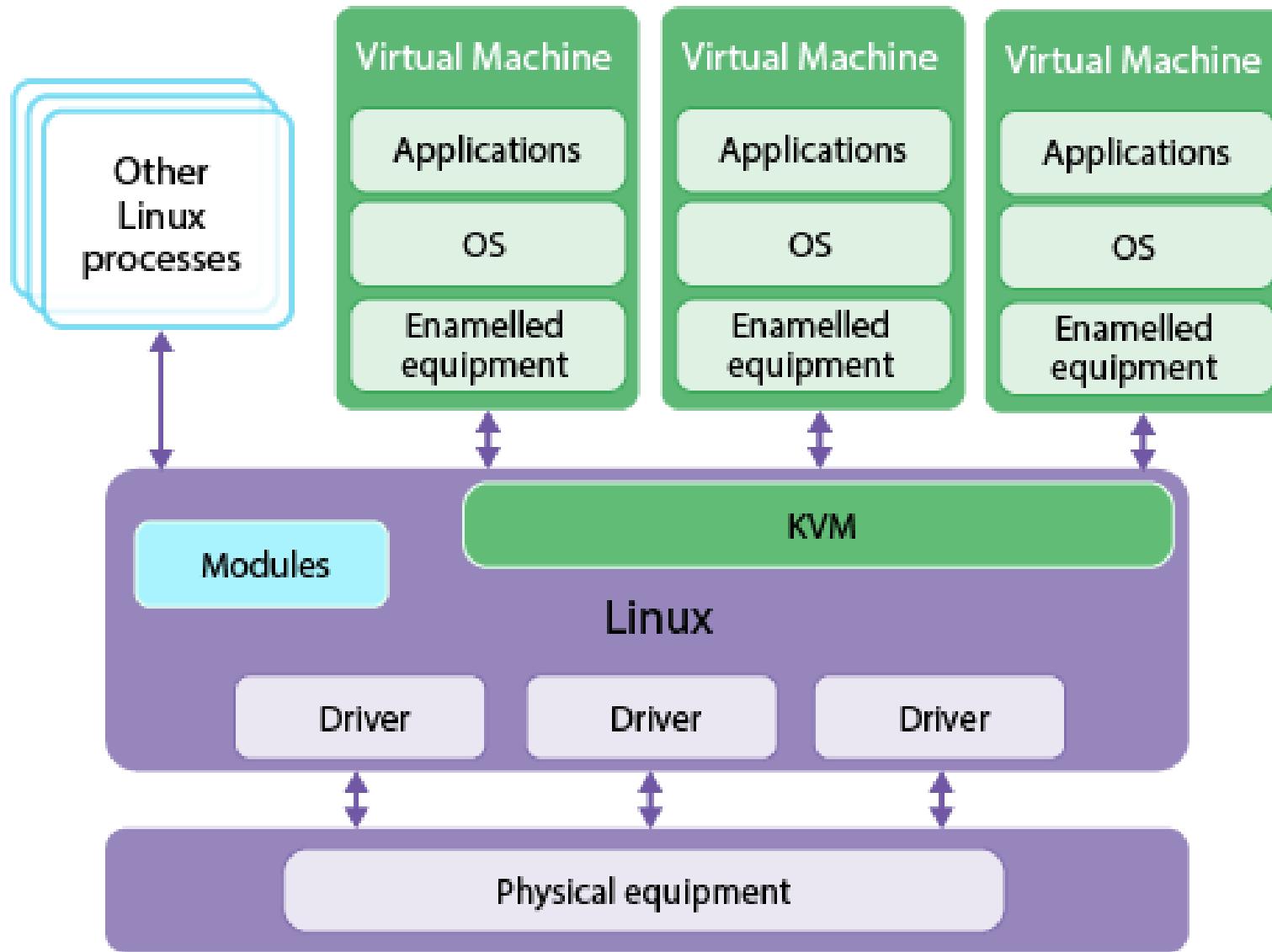


# Estándares de virtualización

- XEN
- QEMU
- KVM (Kernel Virtual Machine)







# Principios de regulación en seguridad internacional



# Principios de regulación internacional



## Timeline of SOX Regulations

2000



Dot com bubblebursts

2001-2002



Corporations face fraud charges

2002



Congress passes Sarbanes-Oxley Act for financial oversight

2019



IT departments must ensure compliance for financial files and records

“para proteger a los inversores mejorando la precisión y confiabilidad de la divulgación corporativa de información realizada de acuerdo con las leyes de valores”

# Principios de regulación internacional



## Basics of SOX Compliance



Keep data secure and free  
of tampering



Track attempted security  
breaches and resolutions



Keep event logs available  
for independent auditing



Prove compliance for past  
90 days

# Principios de regulación internacional



The General Data Protection Regulation is a regulation in EU law on data protection and privacy in the European Union and the European Economic Area.

# What is HIPAA Compliance?

**HIPAA compliance** is adherence to the physical, administrative, and technical safeguards outlined in HIPAA, which covered entities and business associates must uphold to protect the integrity of Protected Health Information (PHI).





Security  
Standards Council<sup>TM</sup>

## Payment Card Industry (PCI) Data Security Standard



**Estándar de Seguridad de Datos de la Industria de Tarjetas de Pago**  
(*Payment Card Industry Data Security Standard - PCI DSS*)

					
<b>Desarrollar y mantener redes y sistemas seguros</b>	<b>Proteger los datos del titular de la tarjeta</b>	<b>Mantener un programa de administración de vulnerabilidad</b>	<b>Implementar medidas sólidas de control de acceso</b>	<b>Supervisar y evaluar las redes con regularidad</b>	<b>Mantener una política de seguridad de información</b>

1. Instale y mantenga una configuración de firewall para proteger los datos del titular de la tarjeta.

2. No usar los valores predeterminados suministrados por el proveedor para las contraseñas del sistema y otros parámetros de seguridad.

3. Proteja los datos del titular de la tarjeta que fueron almacenados.

4. Cifrar la transmisión de los datos del titular de la tarjeta en las redes públicas abiertas.

5. Proteger todos los sistemas contra malware y actualizar los programas o software antivirus regularmente.

6. Desarrollar y mantener sistemas y aplicaciones seguros.

7. Restringir el acceso a los datos del titular de la tarjeta según la necesidad de saber que tenga la empresa.

8. Identificar y autenticar el acceso a los componentes del sistema.

9. Restringir el acceso físico a los datos del titular de la tarjeta.

10. Rastrear y supervisar todos los accesos a los recursos de red y a los datos del titular de la tarjeta.

11. Probar periódicamente los sistemas y procesos de seguridad.

12. Mantener una política que aborde la seguridad de la información para todo el personal.

# Leyes en colombia

**Ley 1273 de 2009.** Por medio de la cual se crea un nuevo bien jurídico tutelado denominado “de la protección de la **información** y de los datos”

Ley 1032 de 2006, por el cual se dictan disposiciones generales del Habeas Data y se regula el manejo de la información contenida en base de datos personales.

Ley 1266 de 2007, por la cual se dictan disposiciones generales del Habeas Data y se regula el manejo de la información contenida en base de datos personales.

Ley 1273 de 2009, "Delitos Informáticos" protección de la información y los datos.

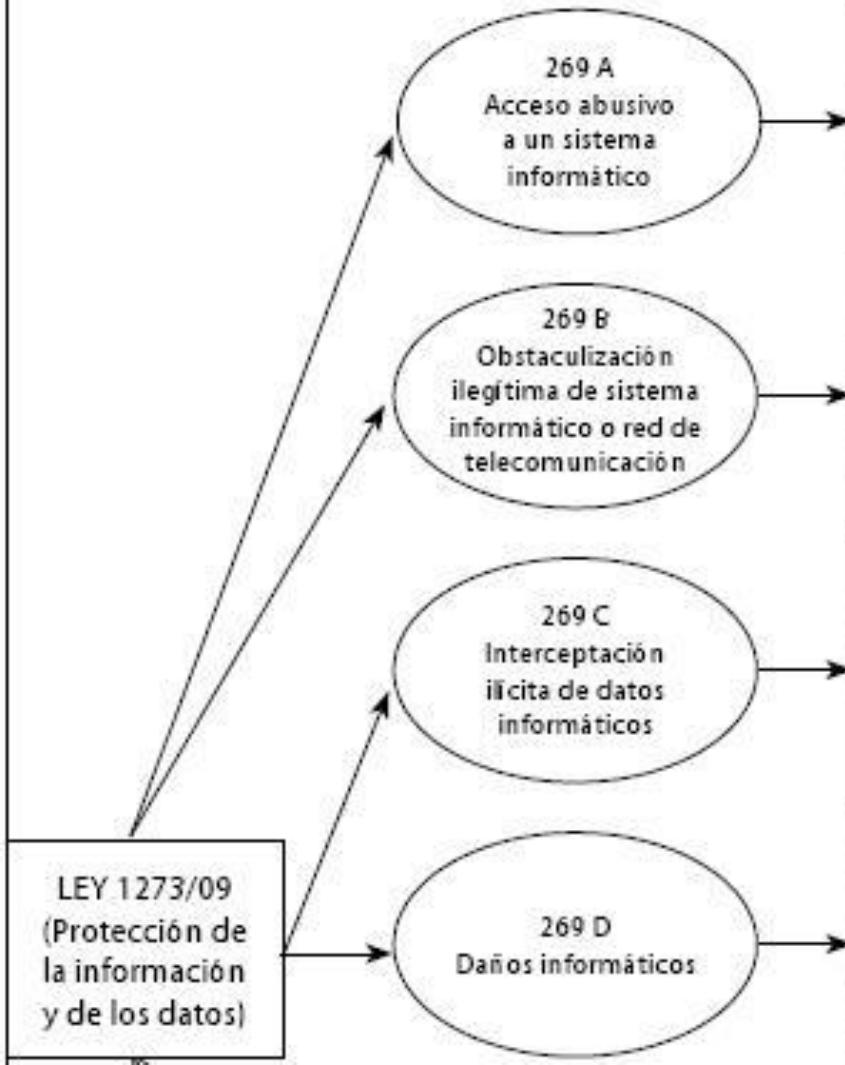
Ley 1581 de 2012, "Protección de Datos Personales".

Ley 1341 de 2009. “Tecnologías de la Información y aplicación de seguridad”.

## Habeas data

El derecho de **hábeas data** es aquel que tiene toda persona de conocer, actualizar y rectificar la información que se haya recogido sobre ella en archivos y bancos de datos de naturaleza pública o privada

# Delitos informáticos en Colombia

LEY 1273/09 (Protección de la información y de los datos)	Se comete cuando	Pena
	<p>269 A Acceso abusivo a un sistema informático</p> <p>269 B Obstaculización ilegítima de sistema informático o red de telecomunicación</p>	<p>Aprovechan la vulnerabilidad en el acceso a los sistemas de información o debilidades en los procedimientos de seguridad.</p> <p>Prisión de 48 a 96 meses y multa de 100 a 1.000 salarios mínimos vigentes</p>
	<p>269 C Interceptación ilícita de datos informáticos</p>	<p>Bloquean en forma ilegal un sistema o impiden su ingreso, igualmente, el acceso a cuentas de correo electrónico de otras personas, sin el debido consentimiento.</p> <p>Prisión de 48 a 96 meses y multa de 100 a 1.000 salarios mínimos vigentes</p>
	<p>269 D Daños informáticos</p>	<p>Obstruyen datos sin autorización legal, en su sitio de origen, en el destino o en el interior de un sistema informático.</p> <p>Prisión de 36 a 72 meses vigentes</p> <p>Cuando una persona que sin estar autorizada, modifica, daña, altera, borra, destruye o suprime datos del programa o documentos electrónicos y se hace en los recursos de TIC.</p> <p>Prisión de 48 a 96 meses y multa de 100 a 1.000 salarios mínimos vigentes</p>

mas frente a los delitos informáticos. Di

# Delitos informáticos en Colombia

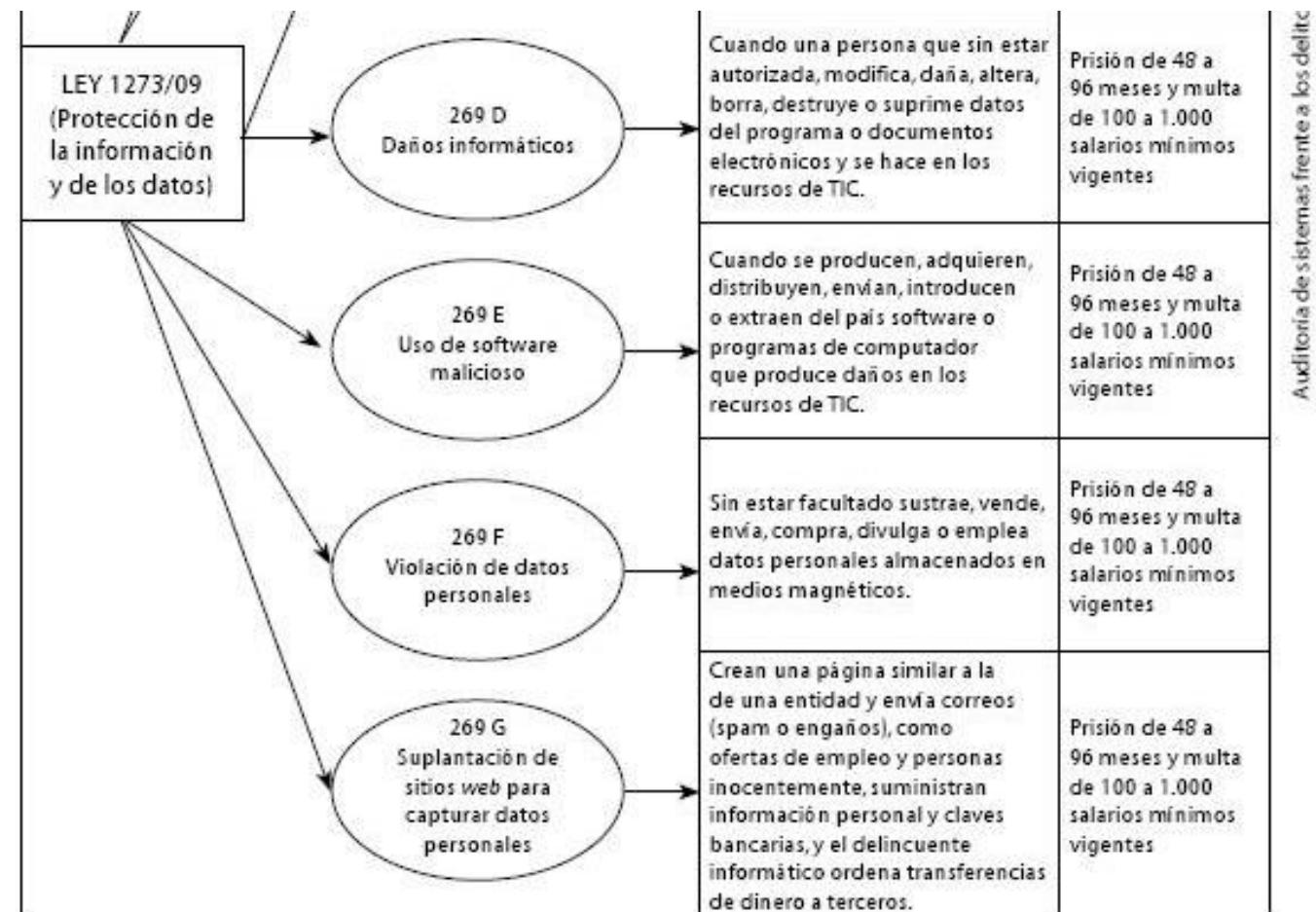


Figura 2. Legislación penal colombiana frente a los delitos informáticos (artículo 1 de la Ley 1273 de 2009).

Fuente: Elaboración de los autores, con base en la Ley 1273 de 2009. Congreso de la República (2009).

# Security Practices (Azure)

## People:

- 1.[Educate teams about the cloud security journey](#)
- 2.[Educate teams on cloud security technology](#)

## Process:

- 3.[Assign accountability for cloud security decisions](#)
- 4.[Update incident response processes for cloud](#)
- 5.[Establish security posture management](#)

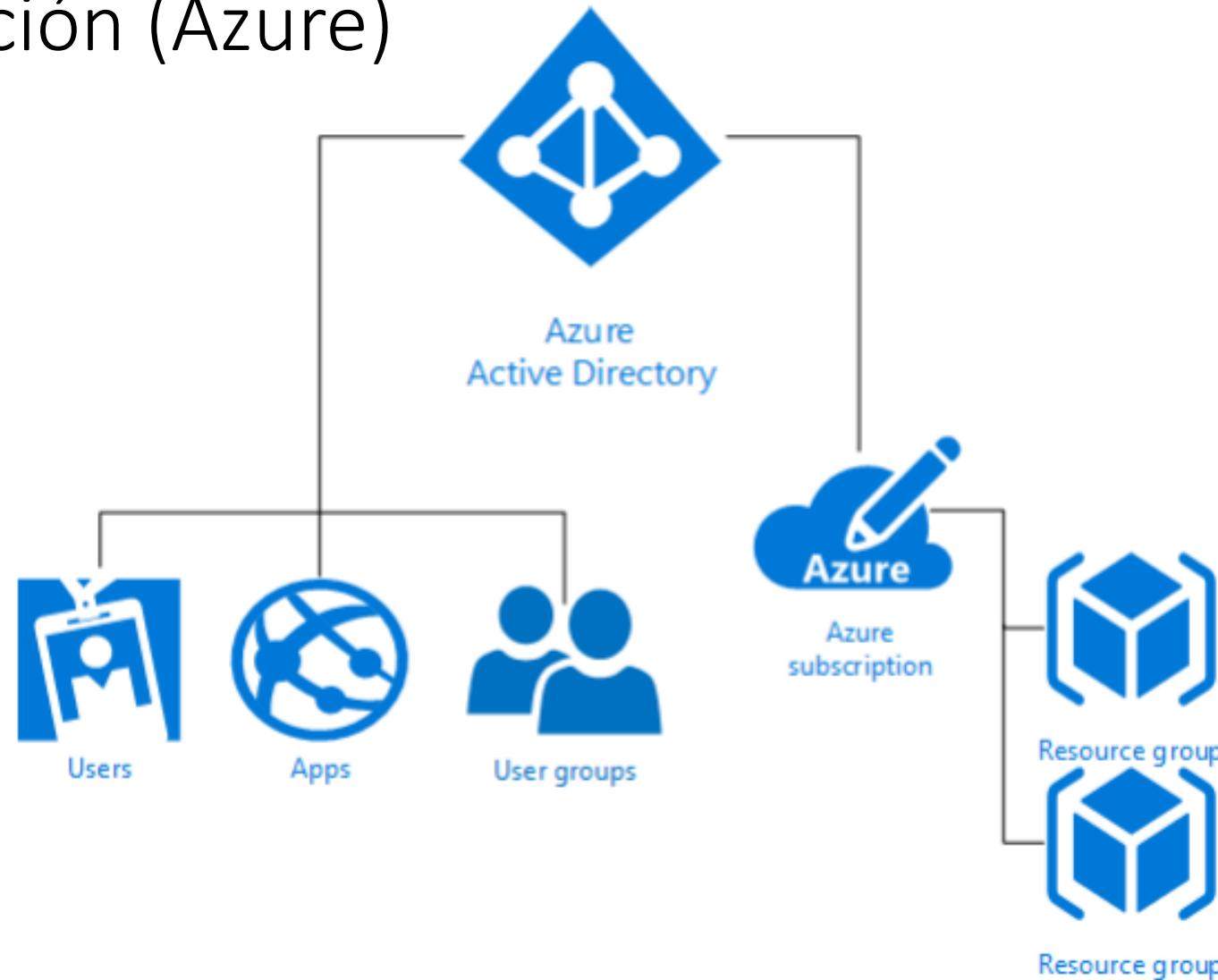
## Technology:

- 6.[Require passwordless or multifactor authentication](#)
- 7.[Integrate native firewall and network security](#)
- 8.[Integrate native threat detection](#)

## Foundational architecture decisions:

- 9.[Standardize on a single directory and identity](#)
- 10.[Use identity-based access control \(instead of keys\)](#)
- 11.[Establish a single unified security strategy](#)

# Autenticación (Azure)

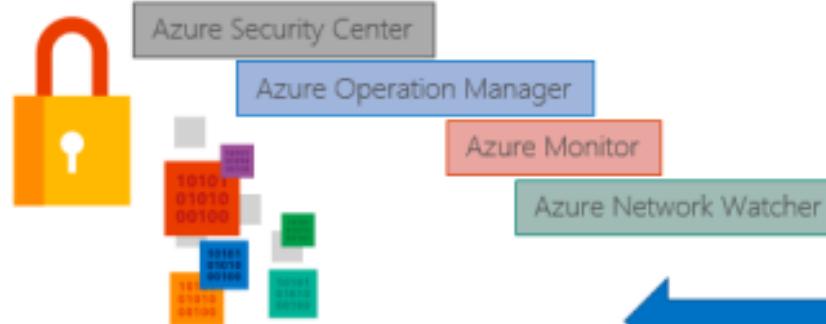


# Controles

Your Application and Infrastructure on Azure



Build on Azure Security Services (Protect)



Secure Azure Resources on Deployment (Detect)



Azure Security To Do List for Central IT

# Zero Trust

Verify explicitly - Always authenticate and authorize based on all available data points.

Use least privilege access - Limit user access with Just-In-Time and Just-Enough-Access (JIT/JEA), risk based adaptive policies, and data protection.

Assume breach - Minimize blast radius and segment access. Verify end-to-end encryption and use analytics to get visibility, drive threat detection, and improve defenses.

# Trust but verify

two different organizations working together toward a common goal despite having some other potentially divergent interests

Example: A business recently lost their data. When they turned to their cloud backup, it hadn't been working. The cloud provider said they had tried to notify them of the issue but blamed an email problem for not getting them that critical information.



## Business Alignment

### Risk Insights



Integrate security insights into risk management framework and digital initiatives

### Security Integration



Integrate security insights and practices into business and IT processes, integrate security disciplines together

### Business Resilience



Ensure organization can operate during attacks and rapidly regain full operational status

## Security disciplines

### Access Control

Establish Zero Trust access model to modern and legacy assets using identity & network controls

### Security Operations

Detect, Respond, and Recover from attacks; Hunt for hidden threats; share threat intelligence broadly

### Asset Protection

Protect sensitive data and systems. Continuously discover, classify & secure assets

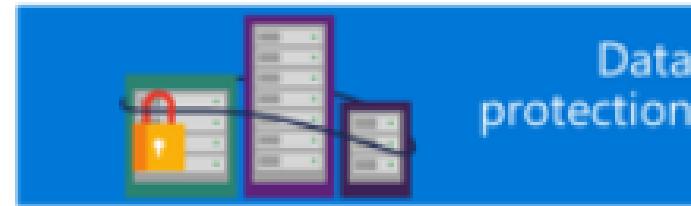
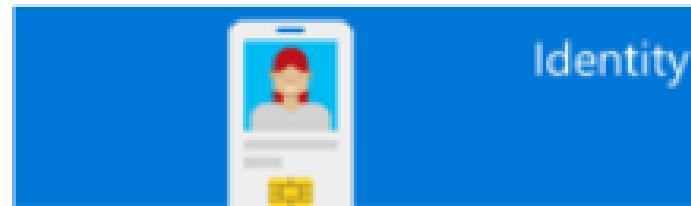
### Security Governance

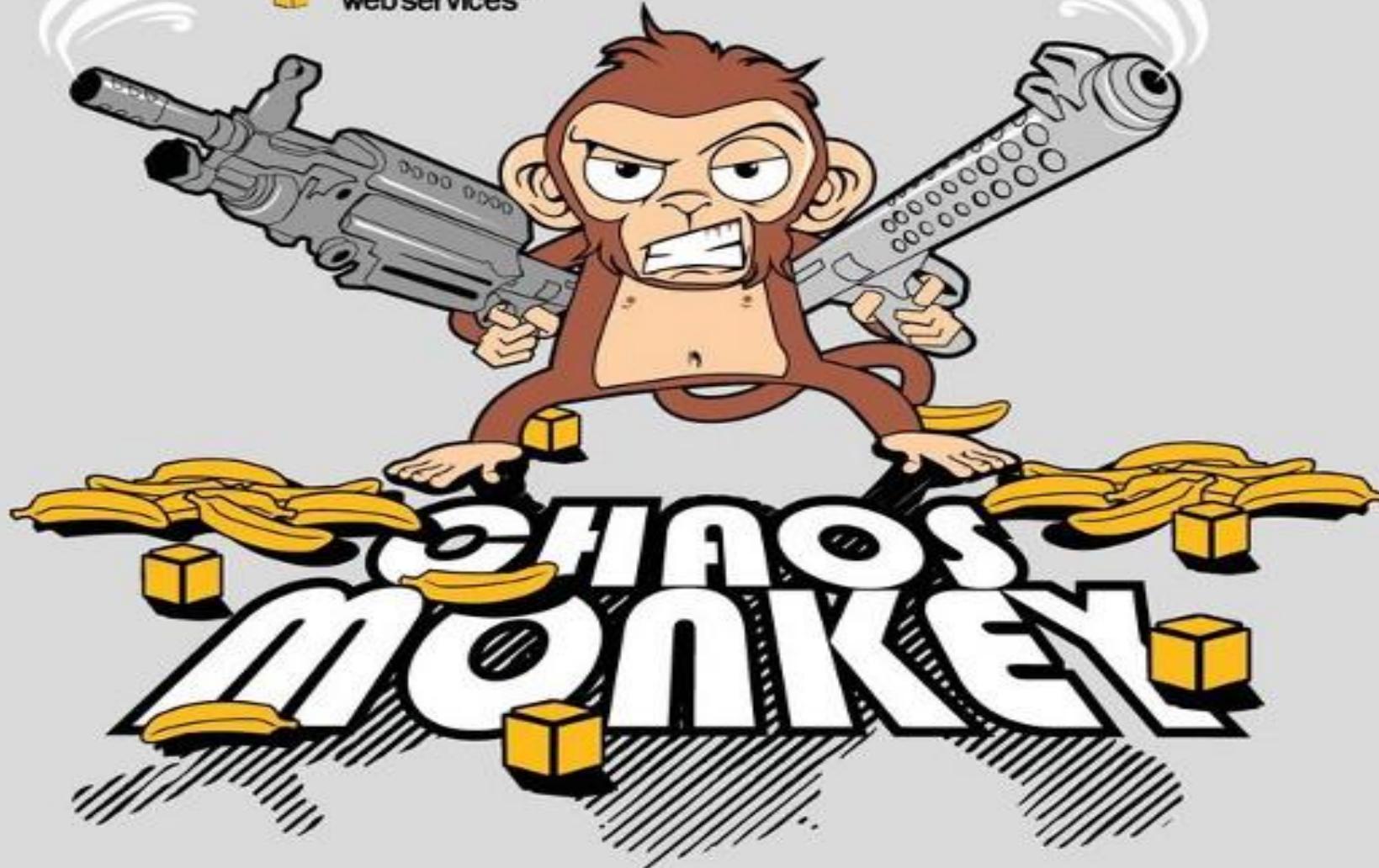
Continuously Identify, measure, and manage security posture to reduce risk & maintain compliance

### Innovation Security

Integrate Security into DevSecOps processes. Align security, development, and operations practices.

# Servicios de seguridad (Azure)





# Chaos Engineering

*the discipline of experimenting on a distributed system in order to build confidence in the system's capability to withstand turbulent conditions in production.*



# Seguridad en Azure

Screenshot of the Microsoft Azure Security Center interface.

The browser address bar shows: https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/SecurityMenuBlade/SecurityCenter

The left sidebar navigation includes:

- Getting started
- Protect
  - Conditional Access
  - Identity Protection
  - Security Center**
- Manage
  - Identity Secure Score
  - Named locations
  - Authentication methods
  - MFA
- Report
  - Risky users

Main content area:

- A banner at the top says: "Visit Microsoft Defender for Cloud to manage security across your virtual networks, data, apps, and more".
- Recommendations by severity** and **Alerts by severity** tables:

Severity	Count
High	0
Medium	0
Low	0

Severity	Count
High	0
Medium	0
Low	0
- Identity and access recommendations**: A section stating "Microsoft Defender for Cloud continuously monitors users identity and access activity, identifies vulnerabilities and recommends actions to mitigate them." followed by four small, illegible icons.
- Links on the right side:
  - Learn more about Microsoft Defender for Cloud
  - Learn more about monitoring identity and access



5  
9

https://portal.azure.com/#blade/Microsoft\_Azure\_Security/ComplianceBlade

## Regulatory Compliance

Download report Manage compliance policies Open query Audit reports Compliance over time workbook

You can now fully customize the standards you track in the dashboard. Update your dashboard by selecting 'Manage compliance policies' above. →

### Azure Security Benchmark

You have no default policy assignment  
Open policy settings to manage default compliance policies  
Manage compliance policies >

### Lowest compliance regulatory standards

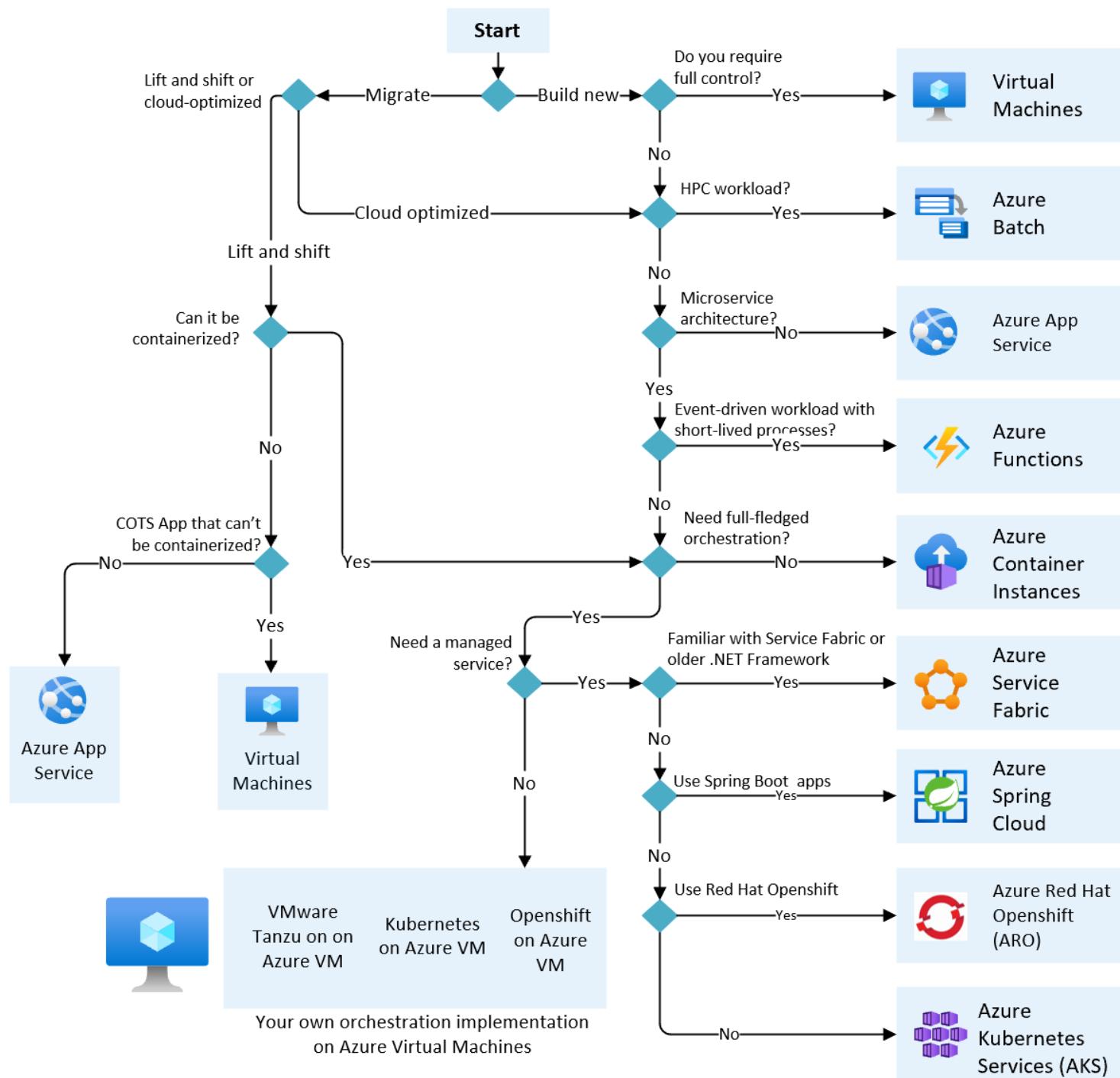
No additional standards are currently monitored.  
Open policy settings to manage additional compliance policies  
Manage compliance policies >

### Audit reports

Stay up to date on the latest privacy, security, and compliance-related information for Microsoft's cloud services.  
Open

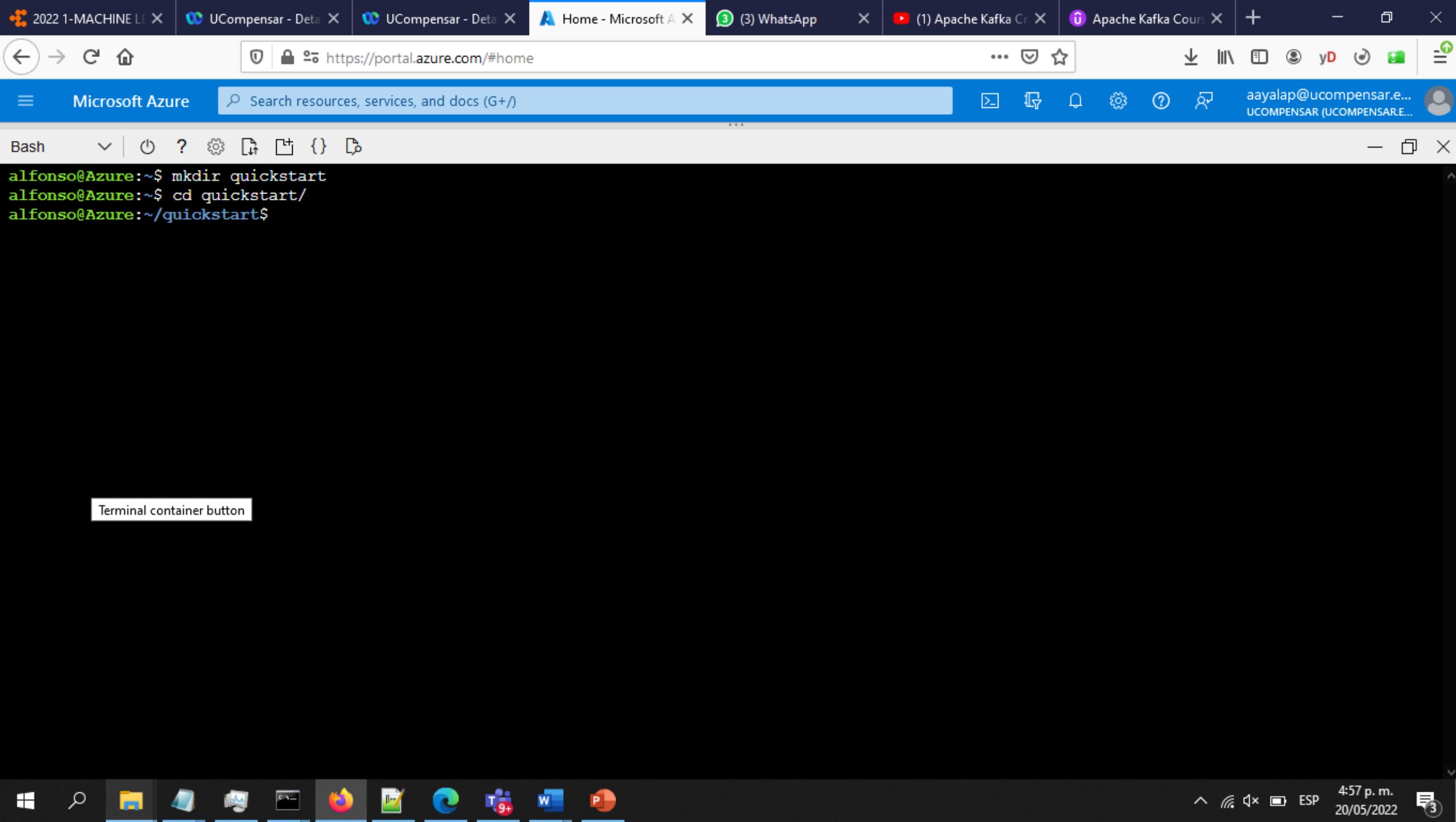
Is the regulatory compliance experience clear to you?  Yes  No

https://portal.azure.com/#





Desplegando una  
web estatica



2022-1-MACHINE LEARN X UCompensar - Data X UCompensar - Data X Home - Microsoft A X (3) WhatsApp X (1) Apache Kafka C X Apache Kafka Cours X + - =

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

Microsoft Azure Search resources, services, and docs (G+) ...

Bash

```
alfonso@Azure:~$ mkdir quickstart
alfonso@Azure:~$ cd quickstart/
alfonso@Azure:~/quickstart$ 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:~/quickstart$
```

Terminal container button

Windows Taskbar: Windows icon, Search icon, File icon, Task View icon, Firefox icon, Microsoft Edge icon, Microsoft Teams icon, Microsoft Word icon, Microsoft Powerpoint icon.

System tray: Network icon, Volume icon, Battery icon, ESP, 4:58 p.m., 20/05/2022, Chat icon.

2022-1-MACHINE LI X UCompensar - Data X UCompensar - Data X Home - Microsoft A X (3) WhatsApp X (1) Apache Kafka C X Apache Kafka Cours X + - =

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

Microsoft Azure Search resources, services, and docs (G+) ...

Bash Bash ? ⚙️ { } ⌂

```
remote: Total 50 (delta 0), reused 2 (delta 0), pack-reused 46
Unpacking objects: 100% (50/50), done.
alfonso@Azure:~/quickstart$ cd html-docs-hello-world
alfonso@Azure:~/quickstart/html-docs-hello-world$ ls -l
total 28
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 css
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 fonts
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 img
-rw-r--r-- 1 alfonso alfonso 1760 May 20 21:57 index.html
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 js
-rw-r--r-- 1 alfonso alfonso 1183 May 20 21:57 LICENSE
-rw-r--r-- 1 alfonso alfonso 608 May 20 21:57 README.md
alfonso@Azure:~/quickstart/html-docs-hello-world$ more README.md
---
topic: HTML Hello World
languages:
  - HTML
products:
  - Azure App Service
  - Azure Web Apps
---
# HTML Hello World

This sample demonstrates a tiny Hello World HTML app for [App Service] (https://docs.microsoft.com/azure/app-service).

# Contributing

This project has adopted the [Microsoft Open Source Code of Conduct] (https://opensource.microsoft.com/codeofconduct/). For more information see the [Code of Conduct FAQ] (https://opensource.microsoft.com/codeofconduct/faq/) or contact [opencode@microsoft.com] (mailto:opencode@microsoft.com) with any additional questions or comments.
alfonso@Azure:~/quickstart/html-docs-hello-world$
```

Terminal container button

Windows Taskbar: File Explorer, Edge, Firefox, Paint, OneDrive, Word, Powerpoint

System tray: WiFi, Volume, Battery, ESP, 4:59 p.m., 20/05/2022, Notifications

2022-1-MACHINE LI X UCompensar - Data X UCompensar - Data X Home - Microsoft A X (3) WhatsApp X (1) Apache Kafka C X Apache Kafka Cours X + - =

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

Microsoft Azure Search resources, services, and docs (G+) ...

Bash e.

```
alfonso@Azure:~/quickstart/html-docs-hello-world$ az webapp up --location westeurope --name cloudcompapp001 --html
The webapp 'cloudcompapp001' doesn't exist
Creating Resource group 'aayalap_rg_2666' ...
Resource group creation complete
Creating AppServicePlan 'aayalap_asp_8217' ...
Creating webapp 'cloudcompapp001' ...
Configuring default logging for the app, if not already enabled
Creating zip with contents of dir /home/alfonso/quickstart/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://cloudcompapp001.azurewebsites.net
Setting 'az webapp up' default arguments for current directory. Manage defaults with 'az configure --scope local'
--resource-group/-g default: aayalap_rg_2666
--sku default: F1
--plan/-p default: aayalap_asp_8217
--location/-l default: westeurope
--name/-n default: cloudcompapp001
{
  "URL": "http://cloudcompapp001.azurewebsites.net",
  "appserviceplan": "aayalap_asp_8217",
  "location": "westerneurope",
  "name": "cloudcompapp001",
  "os": "Windows",
  "resourcegroup": "aayalap_rg_2666",
  "runtime_version": "14.0",
  "runtime_version_detected": "-",
  "sku": "FREE",
  "src_path": "//home//alfonso//quickstart//html-docs-hello-world"
}
```

alfonso@Azure:~/quickstart/html-docs-hello-world\$

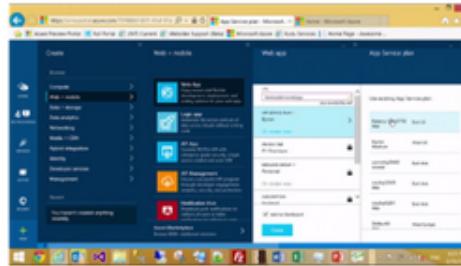
Windows Search File Explorer Task View Firefox Edge T 9+ W P 5:02 p.m. ESP 20/05/2022 3

Ir a :

`http://<app_name>.azurewebsites.net.`

Donde <app\_name> puede ser **cloudcompapp001**

# 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.

```
Bash | ⌂ ? ⌘ ⌚ ⌛ ⌜ ⌝ ⌞ ⌟

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://cloudcompapp001.azurewebsites.net
Setting 'az webapp up' default arguments for current directory. Manage defaults with 'az configure --scope local'
--resource-group/-g default: aayalap_rg_2666
--sku default: F1
--plan/-p default: aayalap_asp_8217
--location/-l default: westeurope
--name/-n default: cloudcompapp001
{
    "URL": "http://cloudcompapp001.azurewebsites.net",
    "appserviceplan": "aayalap_asp_8217",
    "location": "westeurope",
    "name": "cloudcompapp001",
    "os": "Windows",
    "resourcegroup": "aayalap_rg_2666",
    "runtime_version": "-",
    "runtime_version_detected": "-",
    "sku": "FREE",
    "src_path": "//home//alfonso//quickstart//html-docs-hello-world"
}
Terminal container button

alfonso@Azure:~/quickstart/html-docs-hello-world$ ls -l
total 28
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 css
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 fonts
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 img
-rw-r--r-- 1 alfonso alfonso 1760 May 20 21:57 index.html
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 js
-rw-r--r-- 1 alfonso alfonso 1183 May 20 21:57 LICENSE
-rw-r--r-- 1 alfonso alfonso 608 May 20 21:57 README.md
alfonso@Azure:~/quickstart/html-docs-hello-world$ nano index.html
```



GNU nano 3.2

```
<!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>Mi maravilloso Sitio WEB</title>

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

  <body>
    <div class="navbar-wrapper">
      <div class="container">
        <h1>Lo importante es lo de adentro.</h1>
        <hr/>
      </div>
    </div>

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

    <div class="container">
```

2022-1-MACHINE LI X UCompensar - Data X UCompensar - Data X Home - Microsoft A X (3) WhatsApp X (1) Apache Kafka Cr X Azure App Service - Sam X + - =

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

Microsoft Azure Search resources, services, and docs (G+) ...

Bash index.html Modified

GNU nano 3.2

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
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    <div class="navbar-wrapper">
      <div class="container">
        <h1>Lo importante es lo de adentro.</h1>
        <hr/>
      </div>
    </div>

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

    <div class="container">
```

Terminal container button

Save modified buffer? (Answering "No" will DISCARD changes.)

Y Yes  
N No ^C Cancel

5:09 p.m.  
20/05/2022

2022-1-MACHINE LI X UCompensar - Data X UCompensar - Data X Home - Microsoft A X (3) WhatsApp X (1) Apache Kafka Cr X Azure App Service - Sam X + - =

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

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

Bash

```
-rw-r--r-- 1 alfonso alfonso 1760 May 20 21:57 index.html
drwxr-xr-x 2 alfonso alfonso 4096 May 20 21:57 js
-rw-r--r-- 1 alfonso alfonso 1183 May 20 21:57 LICENSE
-rw-r--r-- 1 alfonso alfonso 608 May 20 21:57 README.md
alfonso@Azure:~/quickstart/html-docs-hello-world$ nano index.html
alfonso@Azure:~/quickstart/html-docs-hello-world$ az webapp up --location westeurope --name cloudcompapp001 --html
Webapp 'cloudcompapp001' already exists. The command will deploy contents to the existing app.
Creating AppServicePlan 'aayalap_asp_8217' ...
Creating zip with contents of dir /home/alfonso/quickstart/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://cloudcompapp001.azurewebsites.net
Setting 'az webapp up' default arguments for current directory. Manage defaults with 'az configure --scope local'
--resource-group/-g default: aayalap_rg_2666
--sku default: F1
--plan/-p default: aayalap_asp_8217
--location/-l default: westeurope
--name/-n default: cloudcompapp001
{
  "URL": "http://cloudcompapp001.azurewebsites.net",
  "appserviceplan": "aayalap_asp_8217",
  "location": "westeurope",
  "name": "cloudcompapp001",
  "os": "Windows",
  "resourcegroup": "aayalap_rg_2666",
  "runtime_version": "-",
  "runtime_version_detected": "-",
  "sku": "FREE",
  "src_path": "//home//alfonso//quickstart//html-docs-hello-world"
}
alfonso@Azure:~/quickstart/html-docs-hello-world$
```

5:10 p.m. 20/05/2022

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Microsoft Azure Search resources, services, and docs (G+) ☰ 🔍

Azure services

Create a resource Confluent organizations Resource groups Free services Cost Management ... Azure Database fo... Azure Database fo... Storage accounts App Service plans More services →

Resources

Recent Favorite

Name	Type	Last Viewed
cloud-shell-storage-southcentralus	Resource group	2 days ago
app_group	Resource group	6 days ago
appdb93383	Azure Database for PostgreSQL flexible server	6 days ago
appvm_group	Resource group	6 days ago
docker	Virtual machine	7 days ago
aayalap_asp_4634	App Service plan	a week ago
Azure for Students	Subscription	a week ago
sa93383632	Storage account	a week ago
sourcegroup	Resource group	a week ago

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Microsoft Azure

app servic

All Services (67) Marketplace (11) Documentation (29) Resources (0) Resource Groups (0)

Azure Active Directory (0)

Services

App Service Certificates App Services

App Service Domains Function App

App Service Environments Container Apps

App Service plans Reservations

See all More services

Resources

Recent

Name

App Service Domain KoçSistem Azure App Service Management

Function App Wordpress on App Service (preview)

App Service Plan App Service Environment v3

App Service Certificate Verloop.io

Marketplace

Documentation

Continue searching in Azure Active Directory

Give feedback a week ago

Searching all subscriptions.

Storage account

Resource group a week ago

Home &gt;

## App Services

Ucompensar (ucompensar.edu.co)

Create Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete

Filter for any field...

Subscription == all

Resource group == all

Location == all

Add filter

No grouping

List view

Name ↑↓	Status ↑↓	Location ↑↓	Pricing Tier ↑↓	App Service Plan ↑↓	Subscription ↑↓	App Type ↑↓	...
cloudcompapp001	Running	West Europe	Free	aayalap_asp_8217	Azure for Students	Web App	
pikapp002	Running	West Europe	Free	aayalap_asp_4634	Azure for Students	Web App	

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715/resourceGroups/aayalap\_rg\_2666/providers/Microsoft.Web/sites/cloudcompapp001/eventlogs

# Microsoft Azure

## App Services

### cloudcompapp001

App Service

Search resources, services, and docs (G+)

Home > App Services >

Ucompensar (ucompensar.edu.co)

+ Create Manage view ...

Filter for any field...

Name ↑

- cloudcompapp001 ...
- pikapp002 ...

Search (Ctrl+)/

Browse Stop Swap Restart Delete Refresh Get publish profile ...

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Security

Events (preview)

Deployment

Quickstart

Deployment slots

Deployment Center

Settings

Configuration

Authentication

Essentials

Resource group ([move](#))  
aayalap\_rg\_2666

Status  
Running

Location  
West Europe

Subscription ([move](#))  
[Azure for Students](#)

Subscription ID  
1aee89a2-7a89-40a2-a937-43c65b418715

URL  
<https://cloudcompapp001.azurewebsites.net>

Health Check  
[Not Configured](#)

App Service Plan  
[aayalap\\_asp\\_8217 \(F1: Free\)](#)

FTP/deployment username  
No FTP/deployment user set

FTP hostname  
[ftp://waws-prod-am2-571.ftp.azurewebsites.windows...](ftp://waws-prod-am2-571.ftp.azurewebsites.windows.net)

FTPS hostname  
<https://waws-prod-am2-571.ftp.azurewebsites.window...>

Tags ([edit](#))  
[Click here to add tags](#)

Diagnose and solve problems  
Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

Application Insights  
Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

Page 1 of 1 >

Microsoft Azure Search resources, services, and docs (G+) Down arrow Filter Notification Gear Help Copy aayalap@ucompensar.e...

Home > App Services > cloudcompapp001

## App Services

Ucompensar (ucompensar.edu.co)

+ Create Manage view ...

Filter for any field...

Name ↑↓

cloudcompapp001 ...

pikapp002 ...

## cloudcompapp001 | Security

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

Page 1 of 1 < >

For enhanced security with just-in-time access, adaptive application controls and more, upgrade your subscription's Microsoft Defender for Cloud plan

Visit [Microsoft Defender for Cloud](#) to manage security across your virtual networks, data, apps, and more

Recommendations

Security alerts

Microsoft Defender for App Services Unknown

0 ! 0 !

### Recommendations

Defender for Cloud continuously monitors the configuration of your app services to identify potential security vulnerabilities and recommends actions to mitigate them.



No recommendations to display

There are no recommendations for this service.

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

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

Home > App Services >

## App Services

Ucompensar (ucompensar.edu.co)

+ Create  ...

Filter for any field...

Name	...
cloudcompapp001	...
pikapp002	...

Overview         ...

Activity log     

Access control (IAM)    

Tags   

Diagnose and solve problems  

Security 

Events (preview) 

Deployment

Quickstart  

Deployment slots 

Deployment Center 

Configuration  

Authentication 

Application Insights 

cloudcompapp001   ...

App Service

Http Server Errors (Sum)  
cloudcompapp001  
0

Data In (Sum)  
cloudcompapp001  
789.62 kB

Data Out (Sum)  
cloudcompapp001  
102.49 kB

Requests  Requests (Sum)  
cloudcompapp001  
9

Response Time  Response Time (Avg)  
cloudcompapp001  
286 ms

Page 1 of 1 < >

```
az group delete --name appsvc_rg_Windows_westeurope
```

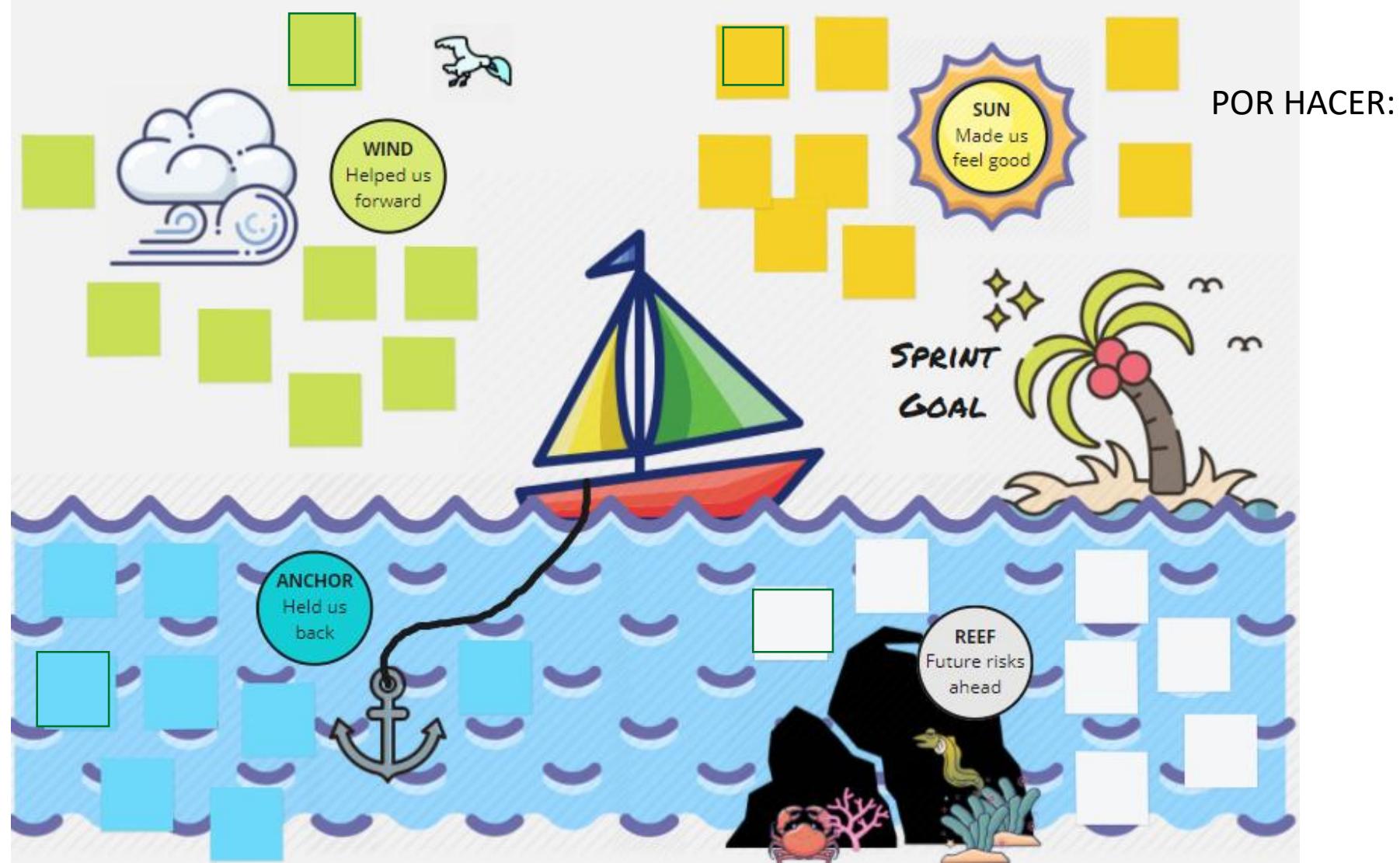


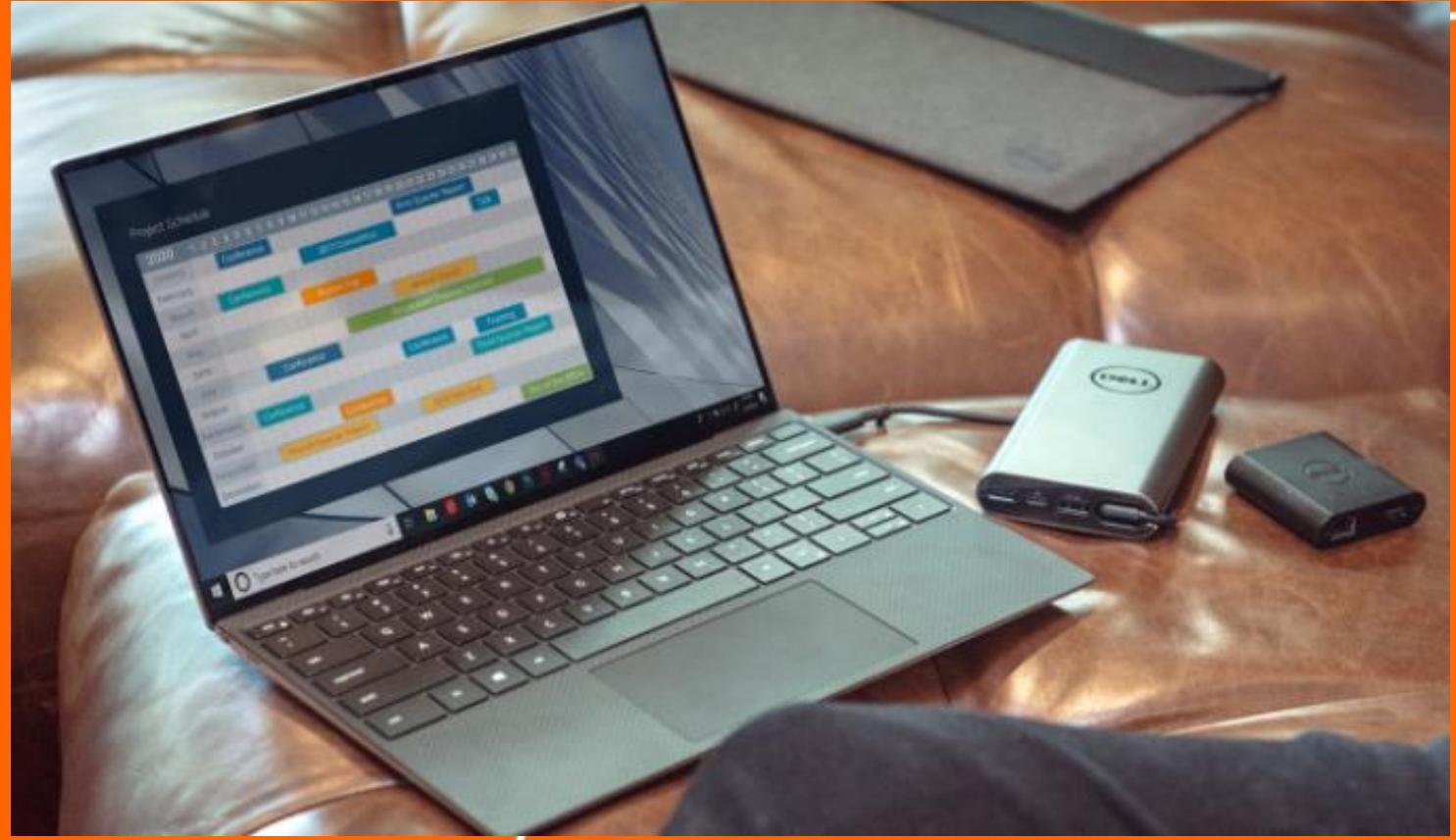
## SPRINT REVIEW

### Seguridad en cloud



## SPRINT RETROSPECTIVE





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Pbx: 555 82 10  
[ucompensar.edu.co](http://ucompensar.edu.co)  
Bogotá, D.C. - Colombia