

Cloud computing - Estándares

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 Estándares cloud
- 2 Establecimiento
- 3 Virtualización, autenticación, BEEVA
- 4 Cloud en la organización y la empresa
- 5 DX / Cloud
- 6 Estrategias cloud. Adopción/Retos
- 7 Tecnologías que impactan
- 8 Aplicaciones

GOAL

Conocer los estándares cloud

Conocer estrategias cloud

Conocer casos de uso cloud



Historia 1

Como un diseñador de soluciones quiero conocer los estándares cloud para poder solucionar problemas en mi empresa con cloud

Estándares



STANDARD: A formula that describes the best way of doing something.

It could be about making a product, managing a process, delivering a service or supplying materials.

Goals

Common goals for cloud standards include:

portability,
migration,
and security.

They also enable interoperability across multiple platforms, balance workloads and underpin security and data protection.



Players



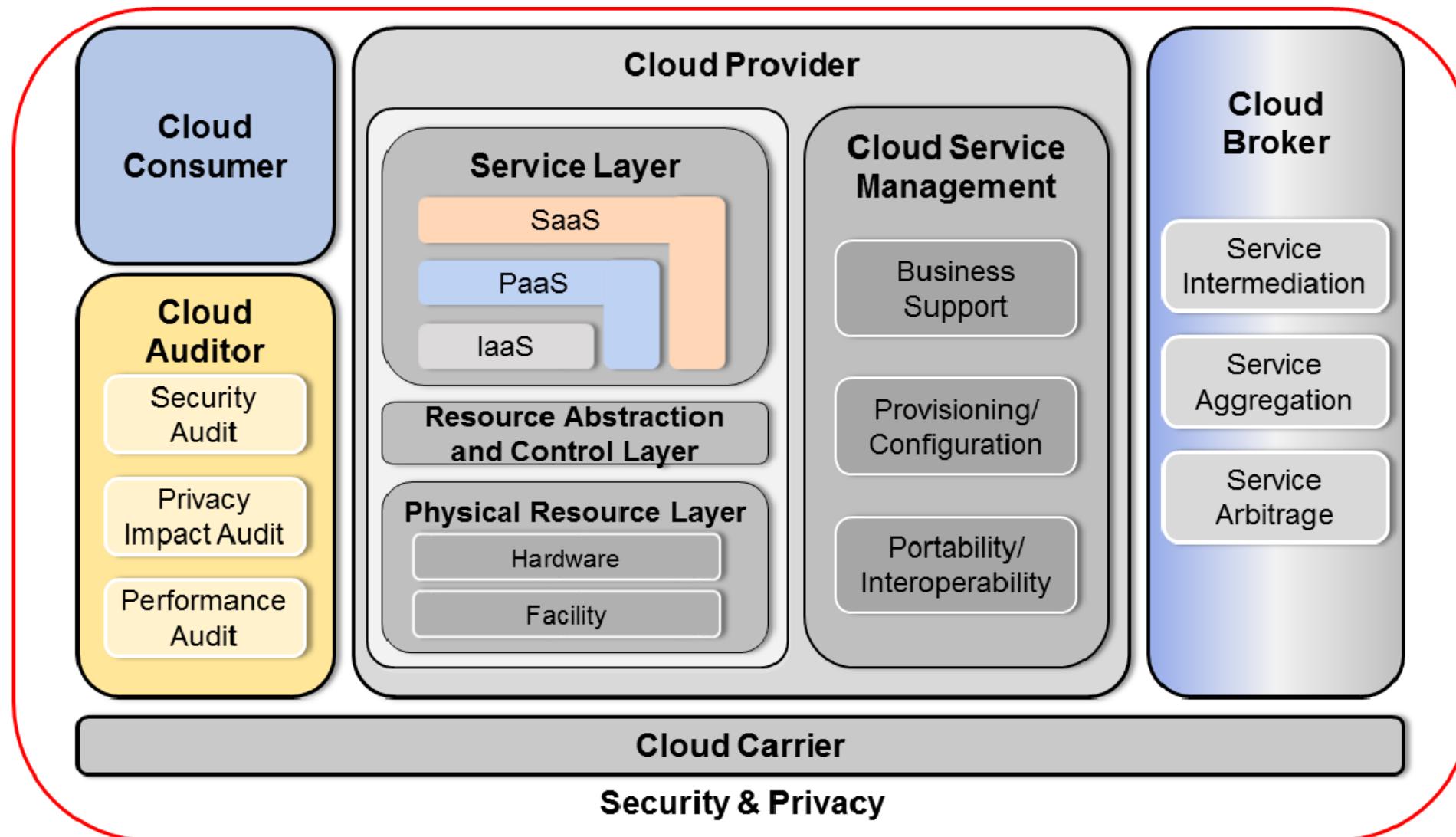


DE FACTO

DE JURE

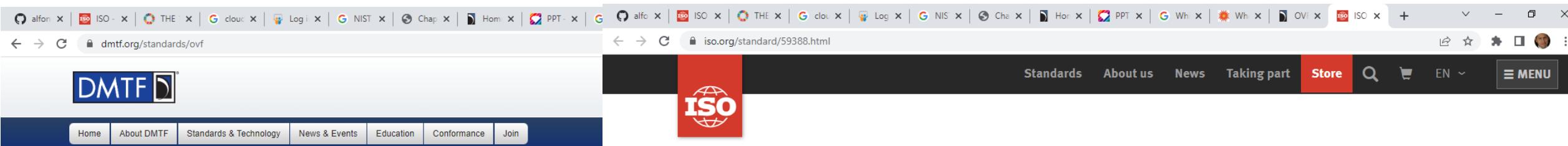


NIST 800-145 Reference architecture



DMTF: Distributed Management Task Force

OVF:Open Virtualization Format



The image shows two side-by-side browser windows. The left window displays the DMTF website at dmtf.org/standards/ovf. The right window displays the ISO website at iso.org/standard/59388.html.

Open Virtualization Format

OVF

DMTF's Open Virtualization Format (OVF) standard provides the industry with a standard packaging format for software solutions based on virtual systems, solving critical business needs for software vendors and cloud computing service providers. OVF has been adopted and published by the International Organization for Standardization (ISO) as [ISO 17203](#).

The rapid adoption of virtual infrastructure has highlighted the need for a standard, portable metadata format for the distribution of virtual systems onto and between virtualization platforms. In the modern cloud computing era, OVF provides a platform independent, efficient, open and extensible packaging and distribution format that facilitates the mobility of virtual machines and gives customers platform independence.

An OVF package can be used:

- By an independent software vendor (ISV) to publish a software solution
- By a data center operator to transport a software solution from one data center to another
- By a customer to archive a software solution
- In any other use case that can be met by having a standardized package for a software solution

From the user's point of view, OVF is a packaging format for virtual appliances. Once installed, an OVF package adds to the user's infrastructure a self-contained, self-consistent, software application that provides a particular service or services.

ICS > 35 > 35.100 > 35.100.05

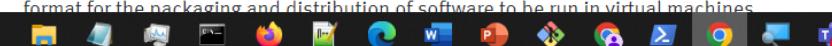
ISO/IEC 17203:2011

Information technology – Open Virtualization Format (OVF) specification

THIS STANDARD HAS BEEN REVISED BY ISO/IEC 17203:2017

ABSTRACT

ISO/IEC 17203:2011 specifies an open, secure, portable, efficient and extensible format for the packaging and distribution of software to be run in virtual machines.



Standards for developers

Browser:

Ajax (Asynchronous Javascript and XML)

Data:

XML (Extensive Markup Language)

JSON(Javascript Object Notation)

Solution Stacks:

LAMP,

LAPP

Standards for messaging

SMTP Simple Mail Transfer Protocol

POP: Post Office Protocol

IMAP: Internet Messaging Access Protocol

Syndication: Atom, Atom publishing protocol, RSS(Really Simple Syndication)

REST: Representational State Transfer

SOAP: Simple Object Access Protocol

Standards for Communications

HTTP: HyperText Transfer Protocol

XMPP: Extensible Messaging and Transfer Protocol

HTTPS: Secure HTTP

Standards for Security

Oauth: Open Authentication

OpenID: SSO Access control

SSL/TLS: Secure Sockets Layer/Transport Layer Security



Next Technologies

Súmate

67690



Unimos personas y tecnología

Deja de buscar. Has llegado. Abre la puerta a un universo lleno de retos por descubrir. Somos aquellos que crecimos pensando en la tecnología, personas muy diferentes que compartimos la misma inquietud: construir un futuro mejor gracias a ella. Unimos personas y tecnología. Nuestro conocimiento, compartido, es más. Este es tu sitio. ¡Bienvenid@ a BBVA Next Technologies!

Cloud y la empresa



The Digital Transformation pyramid

Corporate
layers

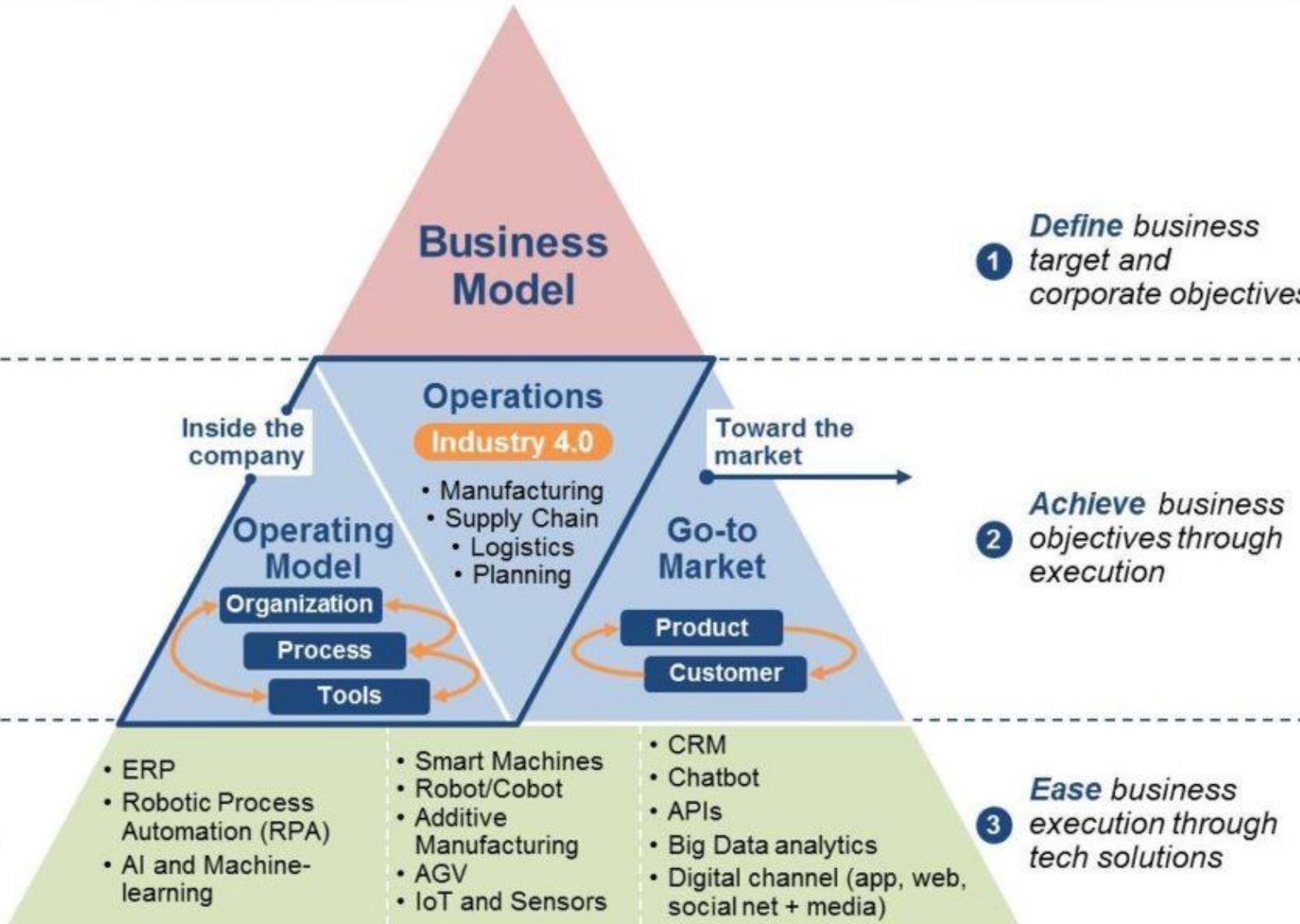
Corporate
building blocks

Corporate
goals

Business
Strategy

Corporate
Execution

Enabling
Technologies



Caso de estudio

Travelex es una empresa que provee servicios de intercambio de divisas en más de 50 países. Más del 40 por ciento de los viajeros del mundo pasan por aeropuertos donde opera la empresa. Es un negocio tradicional que ha sido muy transaccional para vender y comprar divisas. Este intercambio no permitió el desarrollo de relaciones con los clientes y una buena experiencia de usuario.

No existe data de clientes, únicamente de transacciones, pues la empresa tradicionalmente no ha invertido en investigación de mercados y no tiene la infraestructura en sitio para entender sus clientes en forma continua.

En su lugar, se asumen comportamientos de los clientes basados en tendencias históricas transaccionales, sin embargo, los comportamientos de sus clientes han ido cambiando rápidamente y cada vez es más difícil encontrar los cambios a los que la empresa debe estar respondiendo y lo que la organización está haciendo bien y lo que debería mejorar.

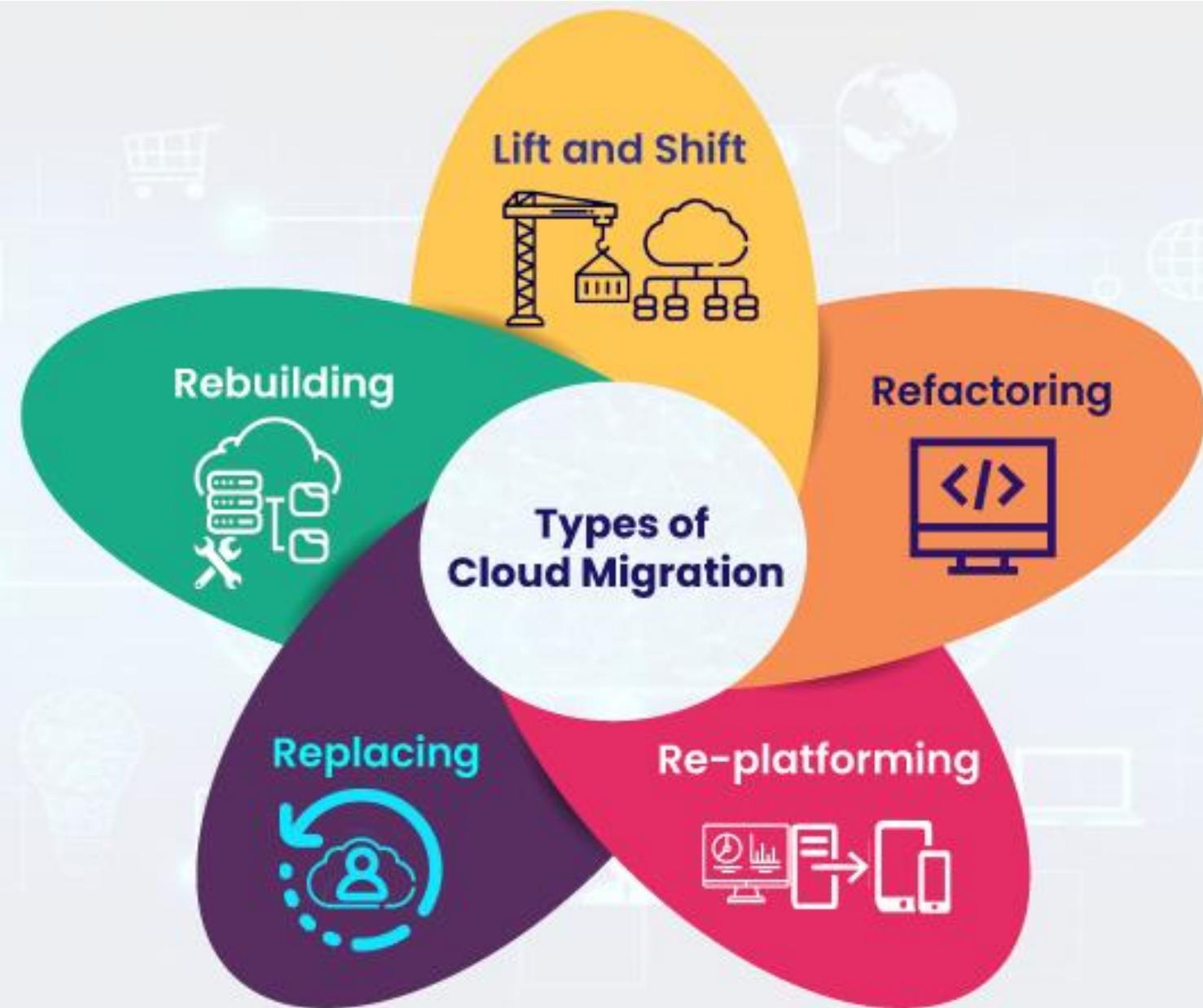
La empresa tiene una identidad visual en su logo rojo y azul, y lucha por articular su esencia de marca. Los líderes y los empleados no pueden responder a las preguntas como "por qué existimos" y "por qué los clientes deben elegirnos".

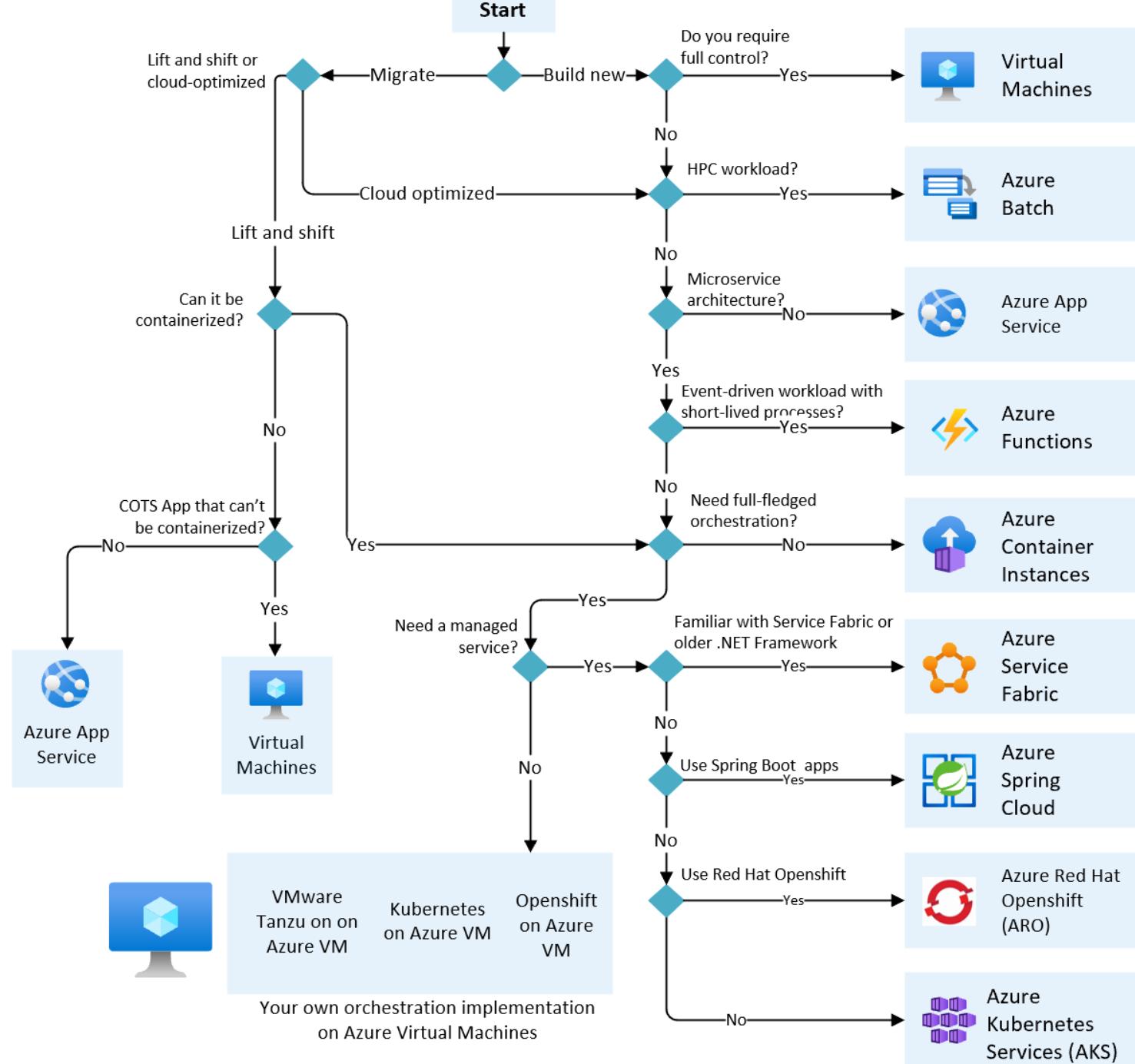
Preguntas

1. Desde el punto de vista de la pirámide de DX, con los tres niveles: Estrategia del negocio, Ejecución corporativa (modelo operativo, operaciones, salida al mercado) y Tecnologías habilitadoras, qué problemas/necesidades encontramos?
2. Formulemos un reto de la forma: ¿Cómo podríamos (crear/identificar/utilizar/financiar/formar/desarrollar/etc.) problema/necesidad ?
3. Seleccionemos un reto a trabajar
4. Busquemos soluciones al reto



Estrategias de adopción



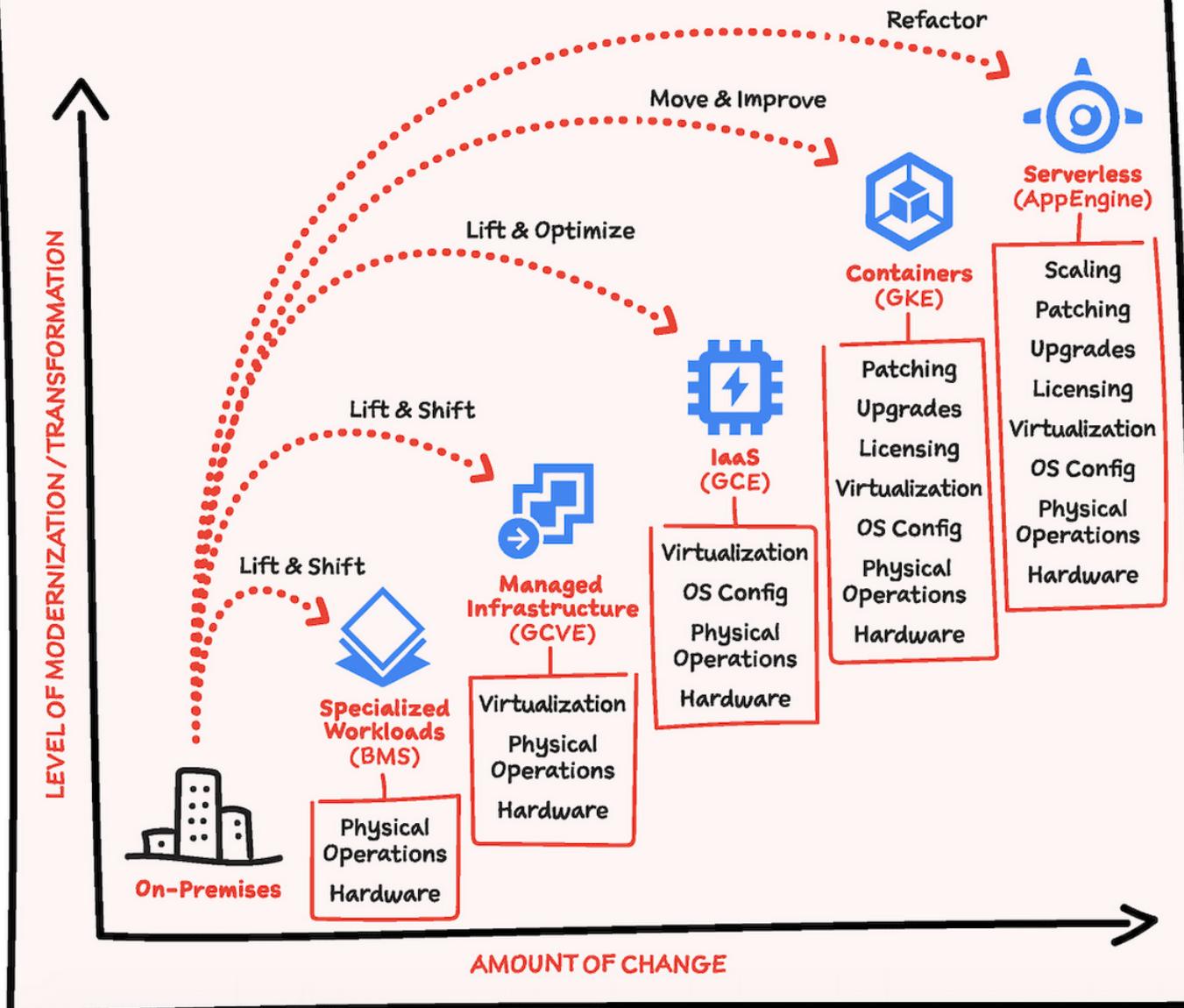


CULTURE	Individualist	Predictive	Iterative	Collabprative	Experimental
PROD/SERVICE DESIGN	Arbitrary	Long-term plan	Feature driven	Data driven	All driven
TEAM	No organization, single contributor	Hierarchy	Cross-functional teams	DevOps / SRE	Internal supply chains
PROCESS	Random	Waterfall	Agile (Scrum/Kanban)	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

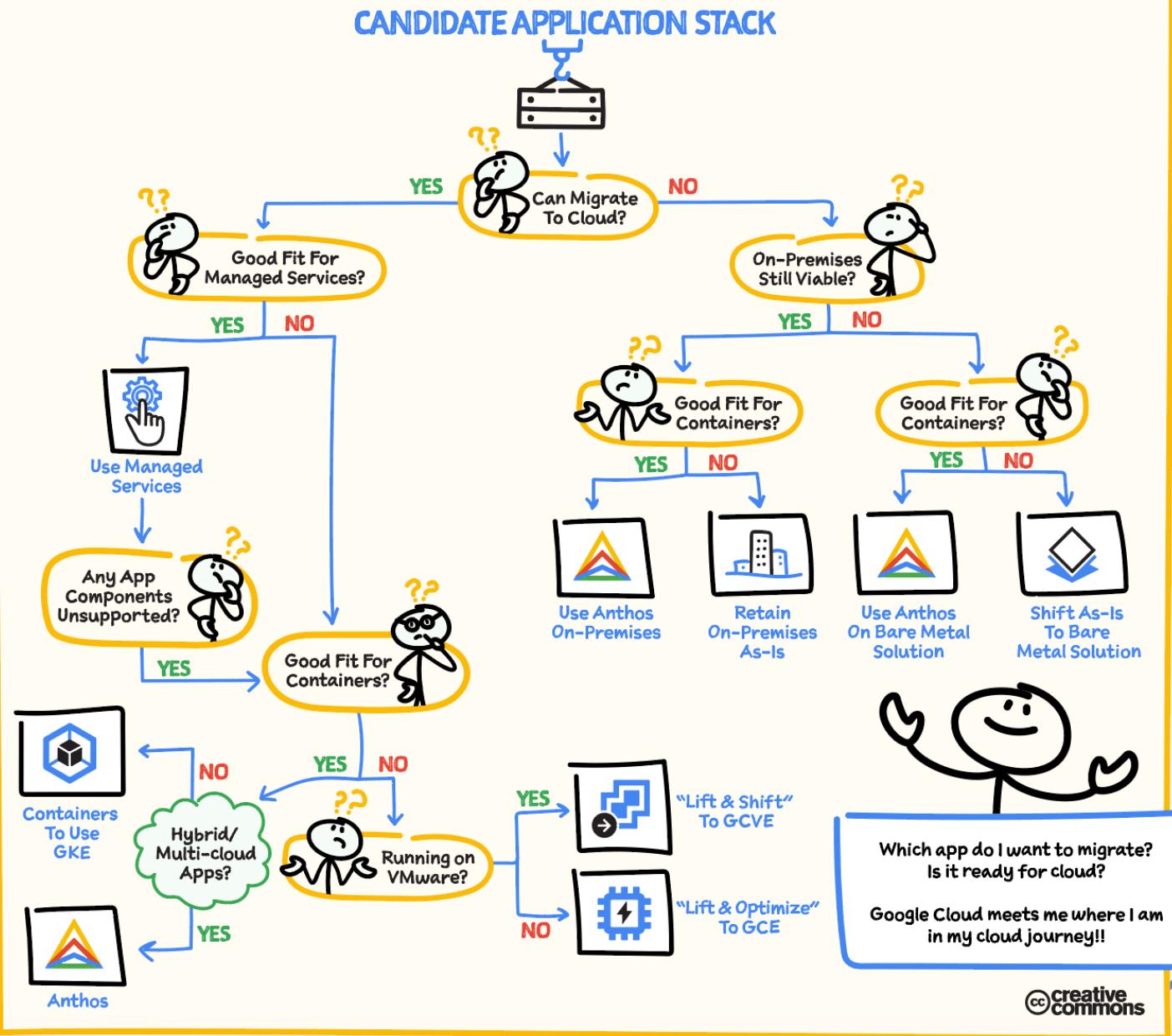
Google options

1. Migrating to Google Cloud managed services
2. Migrating to containers on Google Kubernetes Engine (GKE) or Anthos
3. Migrating to VMs (“Lift and Shift”) on GCE (Google Compute Engine)
4. Migrating to Google Cloud VMware Engine
5. Migrating to the Google Cloud Bare Metal Solution

Time-to-value with migration options



Application Migration Made Easy with Google Cloud



Common Use Case #1 - "HYBRID CLOUD BURST"

ON-PREM DATA CENTER

WORKLOADS



③ Lift & Shift
or
Lift & Optimize
Workloads as needed

① Network
Connectivity
to GCP (Established)

INTERCONNECT

GOOGLE CLOUD

② Create Cloud Landing Zone
for Greenfield & Brownfield



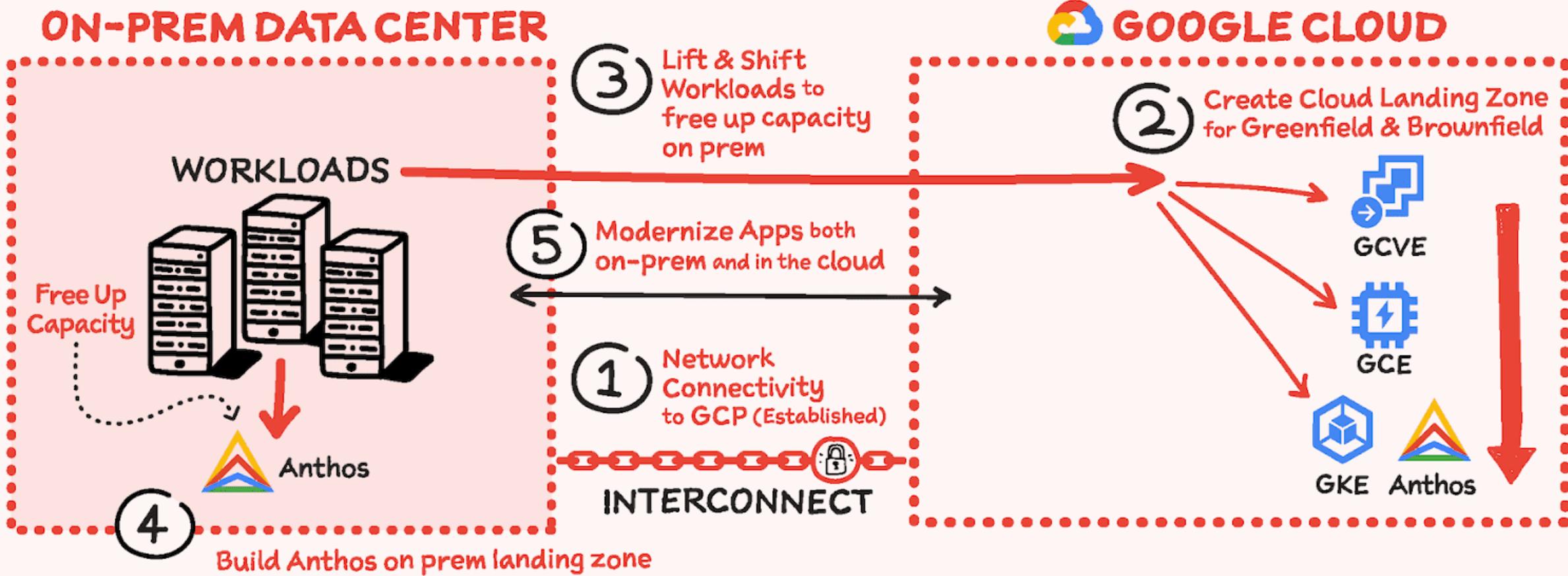
④ Burst
workloads
to cloud to
lower stress
on existing
data center



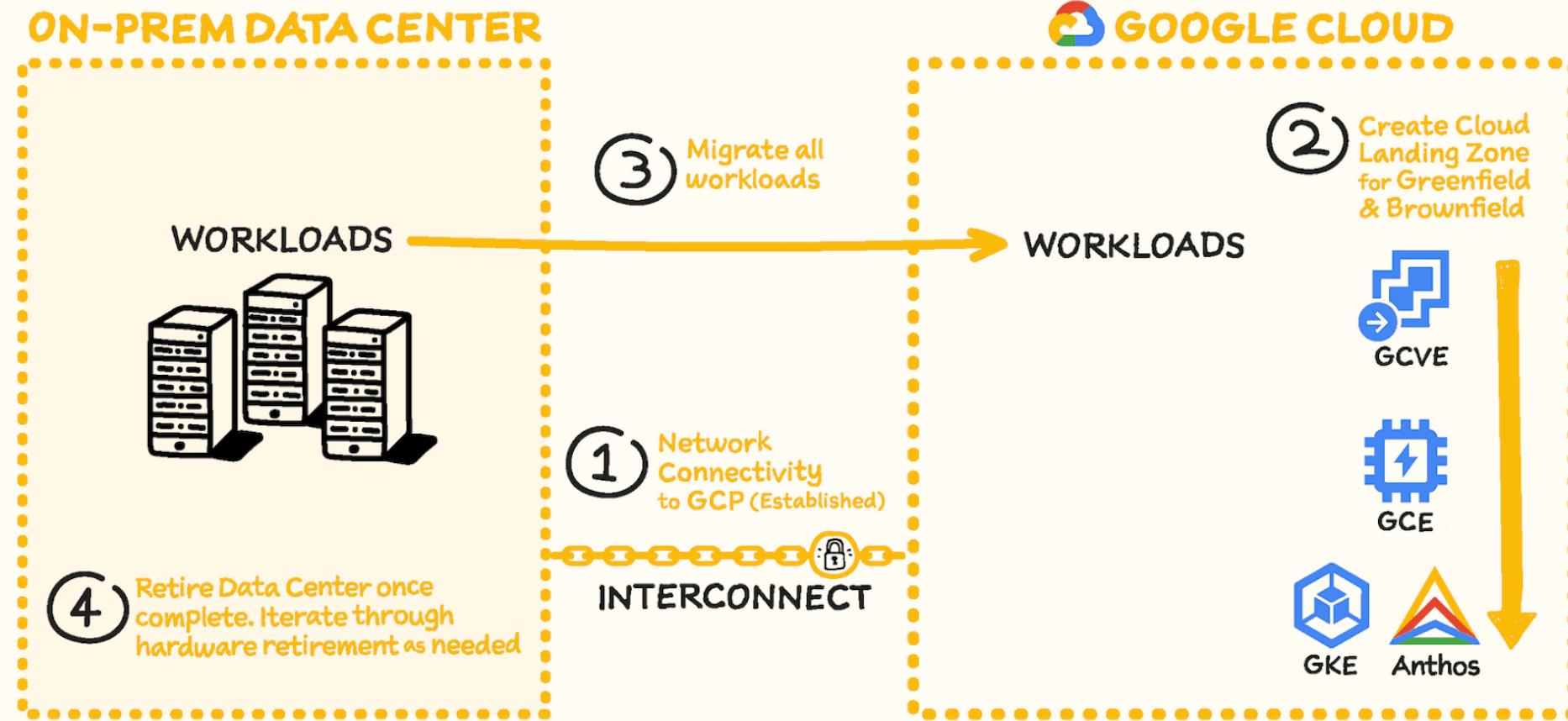
BURST WORKLOADS



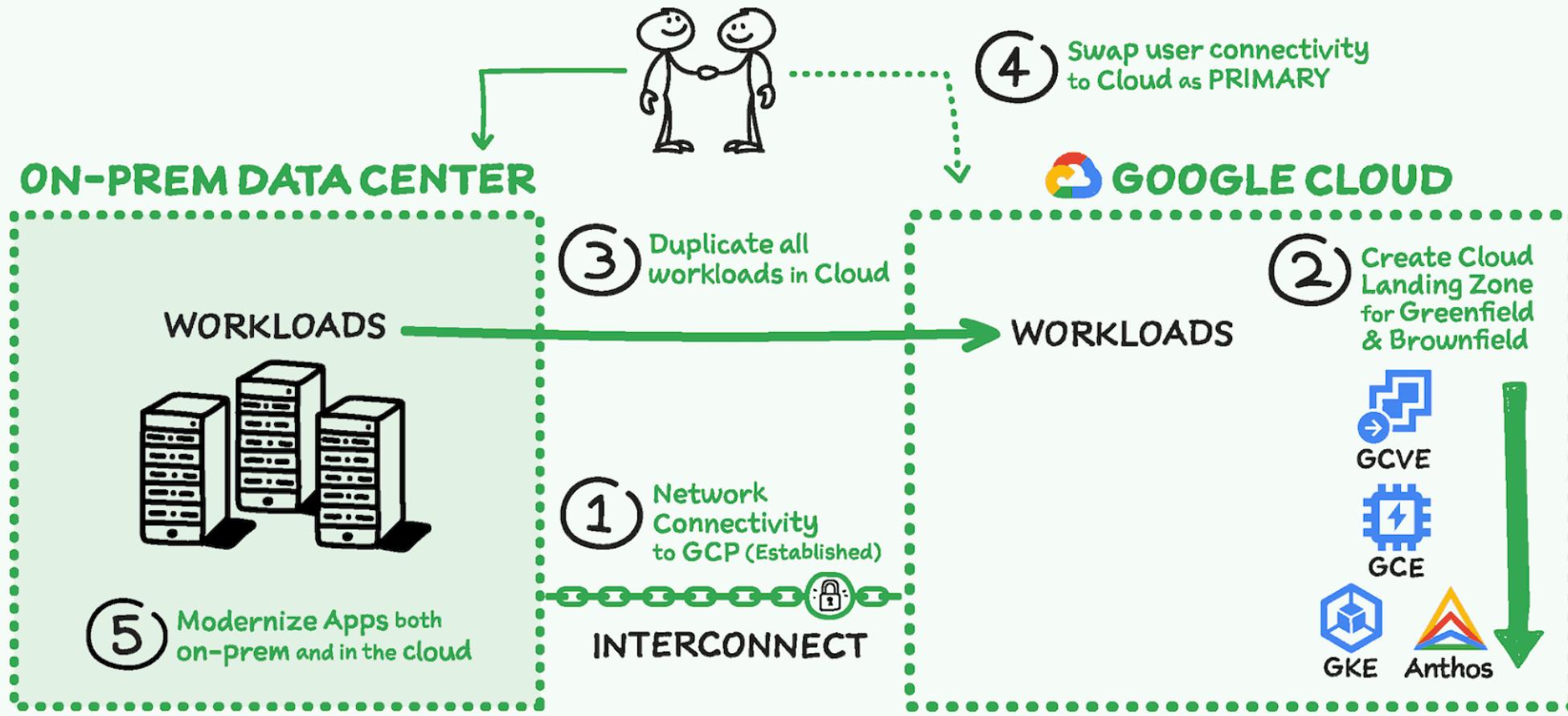
Common Use Case #2 - "MODERNIZE WITH ANTHOS"



Common Use Case #3 - “LAND, EXPAND, RETIRE”



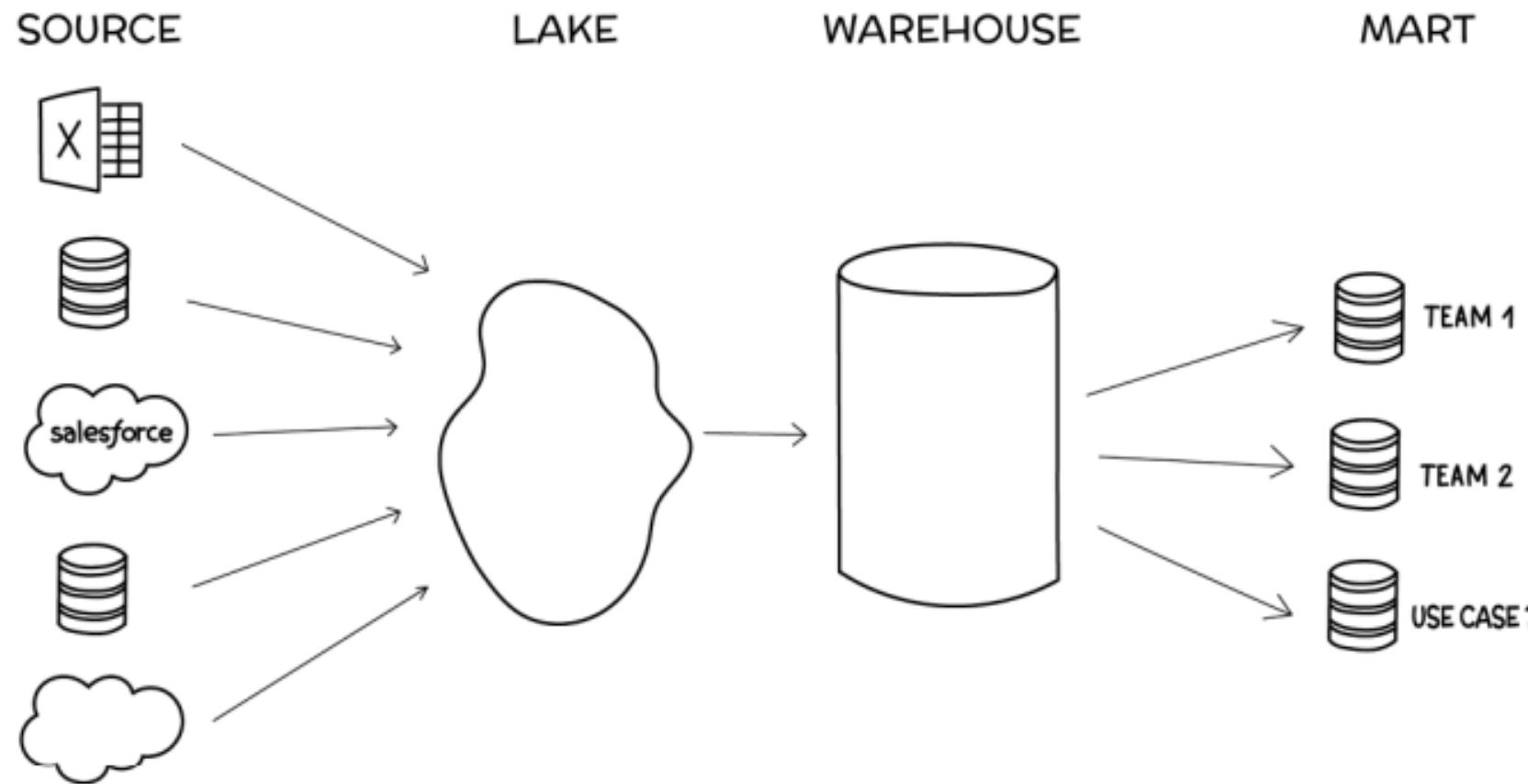
Common Use Case #4 - “DR SITE PROMOTION”



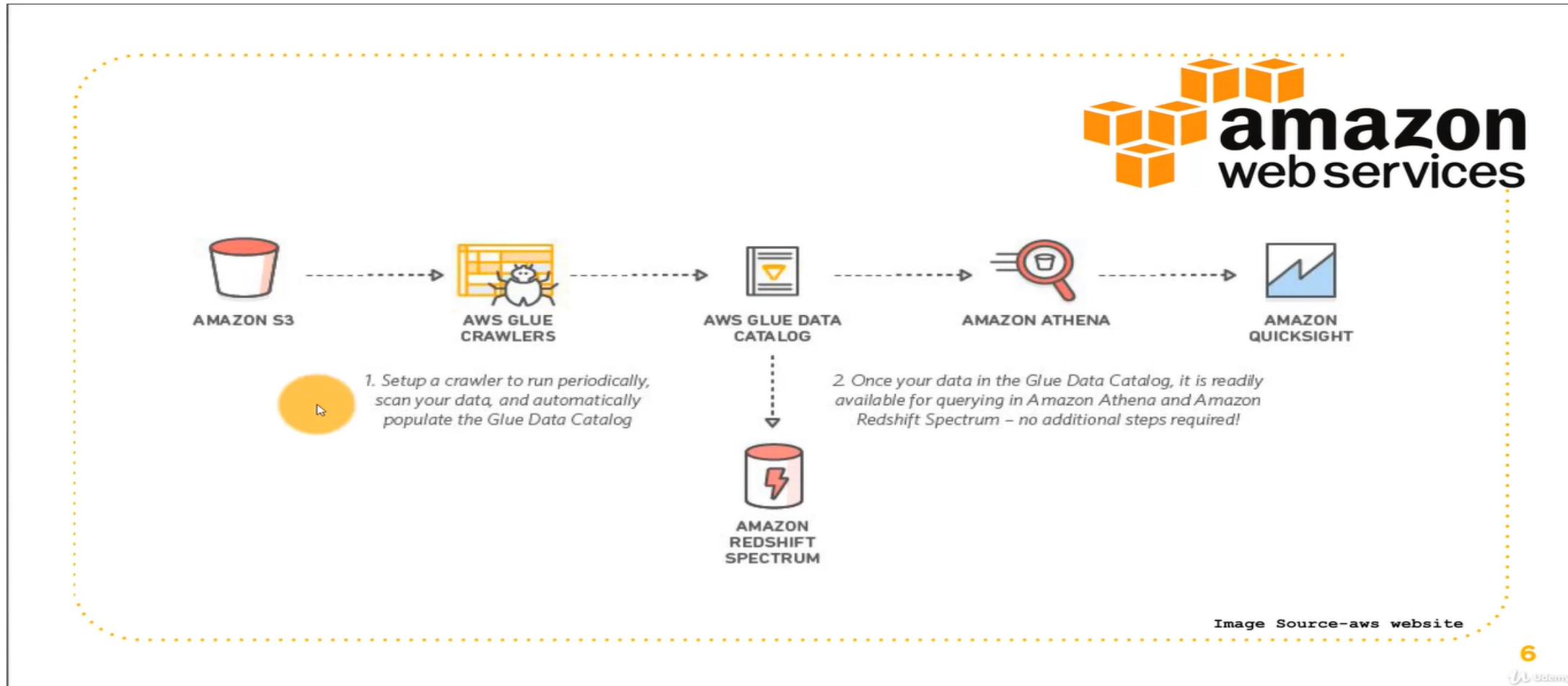
Tecnologías que
impactan



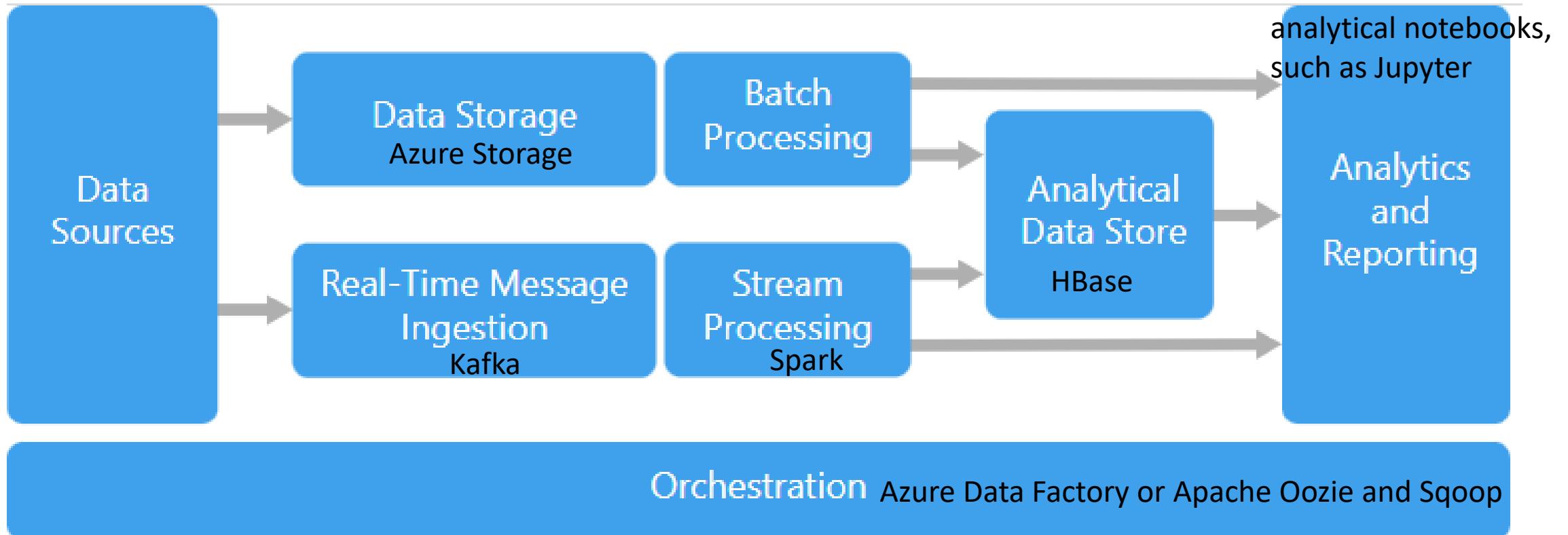
Data Pipeline



Ejemplo



Arquitectura



Creando valor

- Qué le podemos brindar a nuestros clientes?

Conveniencia

Simplicidad

Confianza /
Emoción

Snowflake pipeline



Historia 2

Como un diseñador de soluciones quiero conocer una herramienta de datalake/datawarehouse/datamart cloud para poder solucionar problemas en mi empresa

Dataset

<https://raw.githubusercontent.com/alfonsoayalapaloma/datasets/main/desition.csv>

Age:

19,19000,0

35,20000,0

26,43000,0

27,57000,0

19,76000,0

27,58000,0

27,84000,0

32,150000,1

25,33000,0

35,65000,0

26,80000,0

26,52000,0

20,86000,0

32,18000,0

18,82000,0

29,80000,0

47,25000,1

45,26000,1

Salary:

Purchased:



START YOUR 30-DAY FREE TRIAL

- Gain immediate access to the Data Cloud
 - Enable your most critical data workloads
 - Scale instantly, elastically, and near-infinitely across public clouds
 - Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Authorized



Start your 30-day free Snowflake trial which includes \$400 worth of free usage

First Name*

Last Name*

Email*

Company*

Colombia ▾

By clicking the button below you understand that Snowflake will process your personal information in accordance with its Privacy Notice.



signup.snowflake.com/?utm_cta=website-cloud-data-platform-for-dummies-ebook-confirmation&_ga=2.129921292.1850029689.1653115137-1413925870.16527...

- Gain immediate access to the Data Cloud
- Enable your most critical data workloads
- Scale instantly, elastically, and near-infinitely across public clouds
- Snowflake is HIPAA, PCI DSS, SOC 1 and SOC 2 Type 2 compliant, and FedRAMP Authorized

Choose your Snowflake edition*

Standard
A strong balance between features, level of support, and cost.

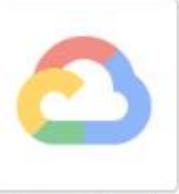
Enterprise
Standard plus 90-day time travel, multi-cluster warehouses, and materialized views.

Business Critical
Enterprise plus enhanced security, data protection, and database failover/fallback.

Choose your cloud provider*

 Microsoft Azure

 Amazon Web Services

 Google Cloud Platform

South Central US (Texas)

Check here to indicate that you have read and agree to the terms of the [Snowflake Self Service On Demand Terms](#).

GET STARTED



Inbox 1,834

- Snoozed
- Important
- Sent
- Drafts 25
- Spam 112
- Categories
 - Social 631
 - Updates 29,562
 - Forums 37
 - Promotions 4,994
- More

- LABELS
- chess
 - conferences 7
 - documents 1
 - mckinsey 1,664
 - Notes
 - Personal
 - More



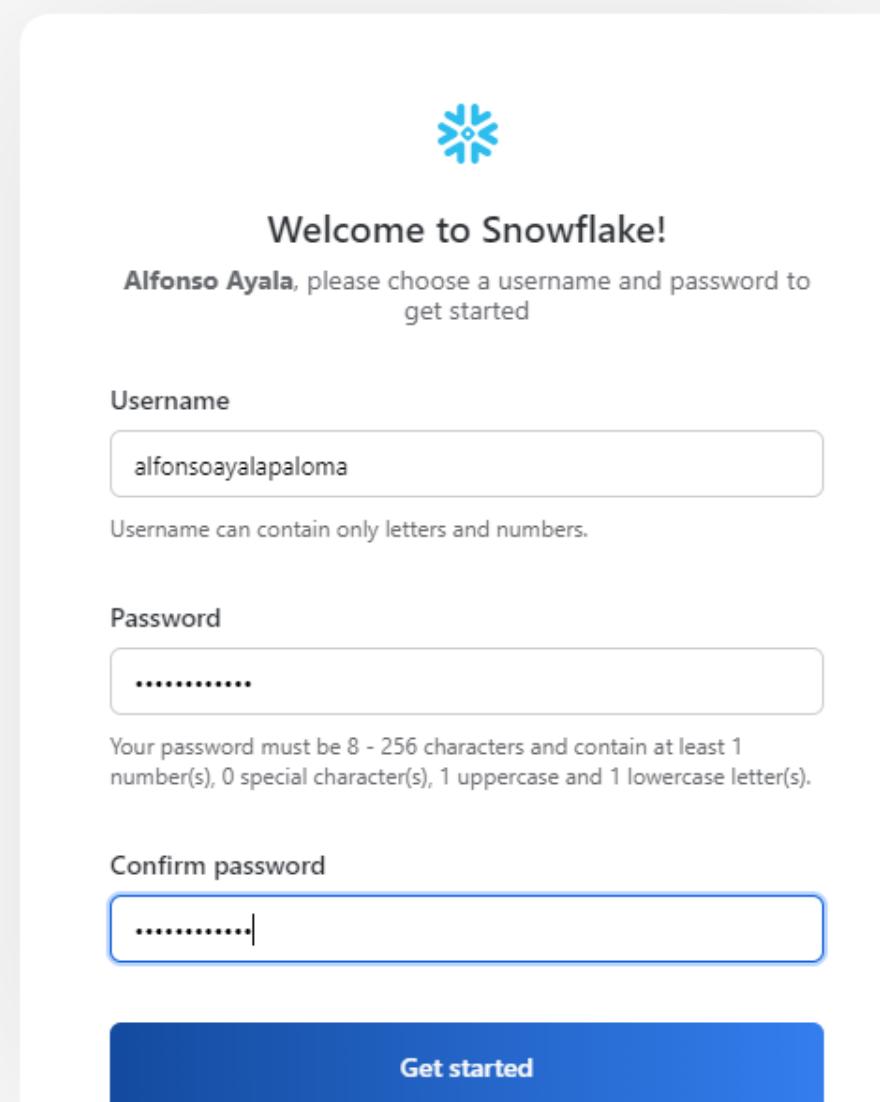
Hi Alfonso,

Congratulations on taking the first step to become a data-driven organization by signing up for Snowflake. Click the button below to activate your account.

CLICK TO ACTIVATE

Please note, your activation link is temporary and will expire in 72 hours. Once you activate your account, you can access it at <https://UF78091.south-central-us.azure.snowflakecomputing.com/console/login>.

Be sure to bookmark your login link to easily access your account going forward. If you experience any problems logging into your account or you forgot your username or password, please contact



Welcome to Snowflake!

Alfonso Ayala, please choose a username and password to get started

Username

The input field contains the text "alfonsoayalapaloma".

Username can contain only letters and numbers.

Password

The input field contains five dots, indicating a password has been entered.

Your password must be 8 - 256 characters and contain at least 1 number(s), 0 special character(s), 1 uppercase and 1 lowercase letter(s).

Confirm password

The input field contains five dots and a cursor, indicating a password is being typed.

Get started

uf78091.south-central-us.azure.snowflakecomputing.com/oauth/authorize?client_id=le8hfISG7ZCzYMjnSyWCgCVUJMn6BA%3D%3D&display=popup&redirect_uri...



Sign in to Snowflake

Username

Password

Sign in

Become SnowPro Certified At Summit June 13-16, [Register Today!](#)

AA Alfonso Ayala
ACCOUNTADMIN

Worksheets

Dashboards

Data

Marketplace

Activity

Admin

Help & Support

Classic Console



39 days left in trial

Upgrade

Welcome to our new navigation!

We've made the features you need most easier to find. Visit **Activity** to see recent queries and copies; go to **Admin** to manage usage, warehouses, permissions, and more; explore the **Marketplace** or get **Help** in one click.

Got it!

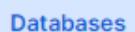


Ready to start using Worksheets and Dashboards?

Snowflake's next-generation Worksheets and Dashboards are ready to be enabled for your account.

Whenever you're ready, click the button below to enable Worksheets and Dashboards for all users in your account. Worksheets will still be available in the Classic UI.

Enable Worksheets and Dashboards

 Alfonso Ayala
ACCOUNTADMIN Worksheets Dashboards Data Databases

Private Sharing

 Marketplace Activity Admin Help & Support Classic Console

39 days left in trial

 Search

...

>  SNOWFLAKE>  SNOWFLAKE_SAMPLE_DATA

Databases

 Database

2 Databases

 Search  C

NAME ↑	SOURCE	OWNER	CREATED	...
 SNOWFLAKE	Share	—	5 minutes ago	...
 SNOWFLAKE_SAMPLE_D...	Share	 ACCOUNTADMIN	5 minutes ago	...



The screenshot shows the Snowflake Data Cloud interface. The left sidebar includes options like Worksheets, Dashboards, Data, Databases (selected), Private Sharing, Marketplace, Activity, Admin, Help & Support, and Classic Console. A trial message at the bottom indicates 39 days left in trial. The main area displays the 'Databases' section with three entries: CAMPANAS (Local, ACCOUNTADMIN, just now), SNOWFLAKE (Share, —, 6 minutes ago), and SNOWFLAKE_SAMPLE_D... (Share, ACCOUNTADMIN, 6 minutes ago). A '+' Database button is in the top right.

Alfonso Ayala
ACCOUNTADMIN

Worksheets

Dashboards

Data

Databases

Private Sharing

Marketplace

Activity

Admin

Help & Support

Classic Console

39 days left in trial

Search ...

CAMPANAS

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

Databases

3 Databases

NAME ↑ SOURCE OWNER CREATED

NAME ↑	SOURCE	OWNER	CREATED	...
CAMPANAS	Local	ACCOUNTADMIN	just now	...
SNOWFLAKE	Share	—	6 minutes ago	...
SNOWFLAKE_SAMPLE_D...	Share	ACCOUNTADMIN	6 minutes ago	...

+ Database

Search Source All C

app.snowflake.com/south-central-us.azure/uf78091/data/databases/CAMPANAS

Windows Taskbar icons: File Explorer, Edge, File Manager, Task View, Firefox, Paint, Word, PowerPoint, Photos, OneDrive, Task View, Chrome, File Explorer, Microsoft Teams.

System tray: Network, Battery, Volume, ESP, 2:00 a.m., 21/05/2022, Notifications (2).



Enjoy your free trial! Visit our documentation to learn more about using Snowflake or contact our support team with any questions.

Databases Shares Data Marketplace Warehouses Worksheets History Account Partner Connect Help Notifications Snowsight ALFONSOAYALAPALOMA ACCOUNTADMIN

New Worksheet + ▾

Find database objects Starting with... Run All Queries Saved 7 seconds ago ACCOUNTADMIN COMPUTE_WH (XS) Select Database Select Schema ...

CAMPANAS SNOWFLAKE SNOWFLAKE_SAMPLE_DATA

1

Results Data Preview Open History

Query results will appear here.



2:07 a.m.
21/05/2022

2



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Databases Shares Data Marketplace Warehouses Worksheets History Account Partner Connect Help Notifications Snowsight ALFONSOAYALAPALOMA ACCOUNTADMIN

New Worksheet + Run Query (Cmd/Ctrl + Return)

Find database objects All Queries | Saved 13 seconds ago ACCOUNTADMIN COMPUTE_WH (XS) CAMPANAS PUBLIC ...

Starting with...
CAMPANAS
SNOWFLAKE
SNOWFLAKE_SAMPLE_DATA

1 use database campanas;
2 create table desition (age number, salary number , purchased number);

Results Data Preview Open History

Query ID SQL 132ms 1 rows

Filter result... Copy Columns

Row	status
1	Table DESITION successfully created.



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ALFONSOAYALAPALOMA
ACCOUNTADMIN

Databases

Last refreshed 2:26:38 AM

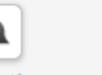
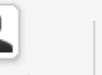
[Create...](#) [Clone...](#) [Drop...](#) [Transfer Ownership](#)Search Databases 3 databases

Database	Origin	Creation Time	Owner	Comment
CAMPANAS		2:00 AM	ACCOUNTADMIN	
SNOWFLAKE_SAMPLE_DATA	SFC_SAMPLES.SA...	1:54 AM	ACCOUNTADMIN	Provided by Snowflake during account provisioning
SNOWFLAKE	SNOWFLAKE.ACCO...	1:54 AM		





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ALFONSOAYALAPALOMA
ACCOUNTADMIN

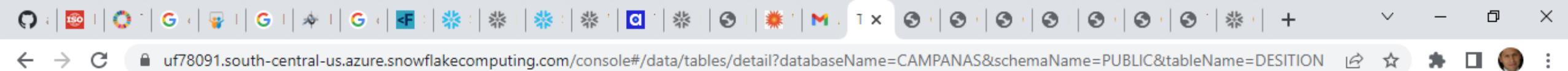
Databases > CAMPANAS

Last refreshed 2:26:51 AM

[Tables](#) [Views](#) [Schemas](#) [Stages](#) [File Formats](#) [Sequences](#) [Pipes](#)[+ Create...](#) [+ Create Like...](#) [Clone...](#) [Load Data...](#) [Drop...](#) [Transfer Ownership](#)

Table Name	Schema	Creation Time ▾	Owner	Rows	Size	Comment
DESITION	PUBLIC	2:20:18 AM	ACCOUNTADMIN			

Table Name: DESITION



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Databases Shares Data Marketplace Warehouses Worksheets History Account | Partner Connect Help Notifications Snowsight ALFONSOAYALAPALOMA ACCOUNTADMIN

Databases > CAMPANAS > DESITION (PUBLIC)

Last refreshed 2:27:01 AM

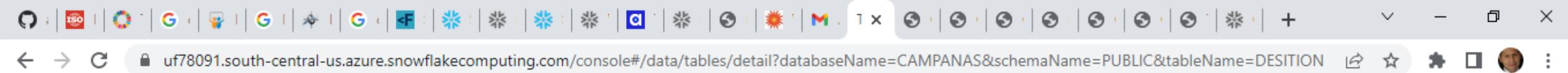


Tables Views Schemas Stages File Formats Sequences Pipes

Load Table

Column N	Load data into a table	Ordinal ▲	Type	Nullable	Default	Comment
AGE		1	NUMBER(38,0)	true	NULL	
SALARY		2	NUMBER(38,0)	true	NULL	
PURCHASED		3	NUMBER(38,0)	true	NULL	





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Databases Shares Data Marketplace Warehouses Worksheets History Account Partner Connect Help Notifications Snowsight ALFONSOAYALAPALOMA ACCOUNTADMIN

Databases > CAMPANAS > DESITION (PUBLIC) Last refreshed 2:27:01 AM

Tables Views Schemas Stages File Formats Sequences Pipes

Load Table

Column Name	Ordinal ▲	Type
AGE	1	NUMBER
SALARY	2	NUMBER
PURCHASED	3	NUMBER

Load Data

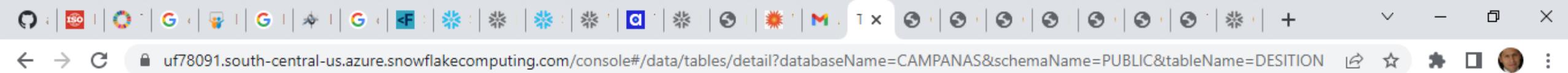
Warehouse Source Files File Format Load Options

Which warehouse do you want to use to load the files?

COMPUTE_WH

Cancel Next





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Databases Shares Data Marketplace Warehouses Worksheets History Account Partner Connect Help Notifications Snowsight ALFONSOAYALAPALOMA ACCOUNTADMIN

Databases > CAMPANAS > DESITION (PUBLIC) Last refreshed 2:27:01 AM

Tables Views Schemas Stages File

Load Table

Column Name	Ordinal ▲	Type
AGE	1	NUMBER
SALARY	2	NUMBER
PURCHASED	3	NUMBER

Load Data

Warehouse Source Files File Format Load Options

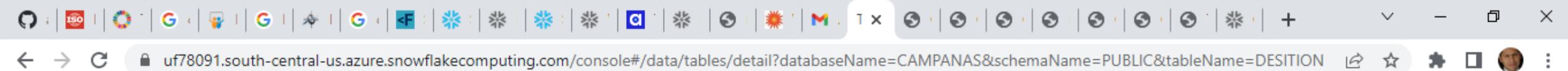
From where do you want to load files?

Load files from your computer Select Files...
Social_Network_Ad.csv (text/csv) - 4.8KB, last modified: 5/21/2022, 2:23:00 AM

Load files from external stage Stage +
Path

Cancel Back Next

Windows Taskbar: Search, File Explorer, File Manager, Firefox, Microsoft Word, Microsoft Powerpoint, Microsoft Excel, Microsoft Edge, Google Chrome, Task View, Taskbar icons, System tray: Volume, Battery, Network, Date/Time (2:27 a.m., 21/05/2022), Taskbar icon with notification (2).



Enjoy your free trial! Visit our documentation to learn more about using Snowflake or contact our support team with any questions.

Databases Shares Data Marketplace Warehouses Worksheets History Account Partner Connect Help Notifications Snowsight ALFONSOAYALAPALOMA ACCOUNTADMIN

Databases > CAMPANAS > DESITION (PUBLIC)

Last refreshed 2:30:01 AM



Tables

Views

Schemas

Stages

File Formats

Sequences

Pipes

Load Table

Column Name	Ordinal ▲	Type
AGE	1	NUMBER
SALARY	2	NUMBER
PURCHASED	3	NUMBER

Load Results

Loaded	File	Rows Parsed	Rows Loaded
✓	desition.csv	400	400

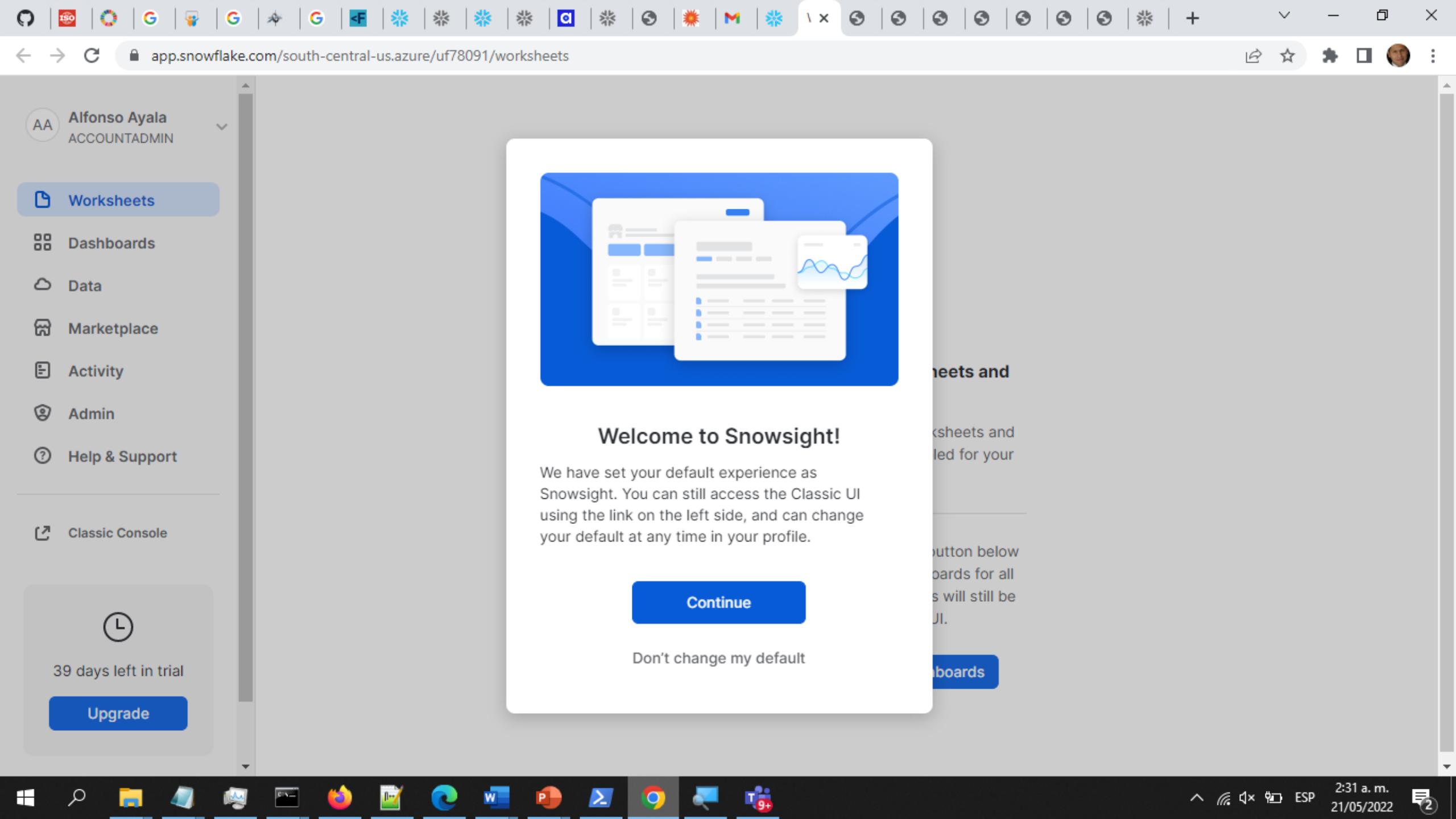
OK



2:30 a.m.

21/05/2022





app.snowflake.com/south-central-us.azure/uf78091/w59mGZku567L/query

ACCOUNTADMIN • No Warehouse selected Share

Updated just now



Add Tiles to get started

+ New Tile





Return to desition

2022-05-21 2:36am

Updated 8 seconds ago

CAMPANAS.PUBLIC

```
1 select age, salary, purchased  
2 from desition  
3 where purchased=1
```

Objects Query Results Chart

	AGE	SALARY	PURCHASED
1	32	150,000	1
2	47	25,000	1
3	45	26,000	1
4	46	28,000	1
5	48	29,000	1
6	45	22,000	1
7	47	49,000	1

Query Details

Query duration 42ms

Rows 143

AGE

SALARY





Return to desition

2022-05-21 2:36am

Updated 43 seconds ago

CAMPANAS.PUBLIC

```
1 select age, salary, purchased  
2 from desition  
3 where purchased=1  
4 order by age
```

Objects Query Results Chart

2022-05-21 2:36am

1M

Chart type Bar

Data

- SALARY sum
- AGE none

+ Add column





Return to desition

2022-05-21 2:36am

Updated 1 minute ago

CAMPANAS.PUBLIC

```
1 select age, salary, purchased  
2 from desition  
3 where purchased=1  
4 order by age
```

Objects Query Results Chart

DESION 400 Rows

123 AGE
123 SALARY
123 PURCHASED

2022-05-21 2:36am

Data

Appearance

Orientation

Order bars by AGE

Order direction Ascend...

Series direction Ascend...

Label X-Axis





Return to desition

2022-05-21 2:36am

Updated 21 seconds ago

CAMPANAS.PUBLIC

```
1 select age, salary, purchased  
2 from desition  
3 where purchased=1  
4 order by age
```

Objects Query Results Chart

DESION 400 Rows

123 AGE
123 SALARY
123 PURCHASED

2022-05-21 2:36am

Appearance

Order bars by AGE

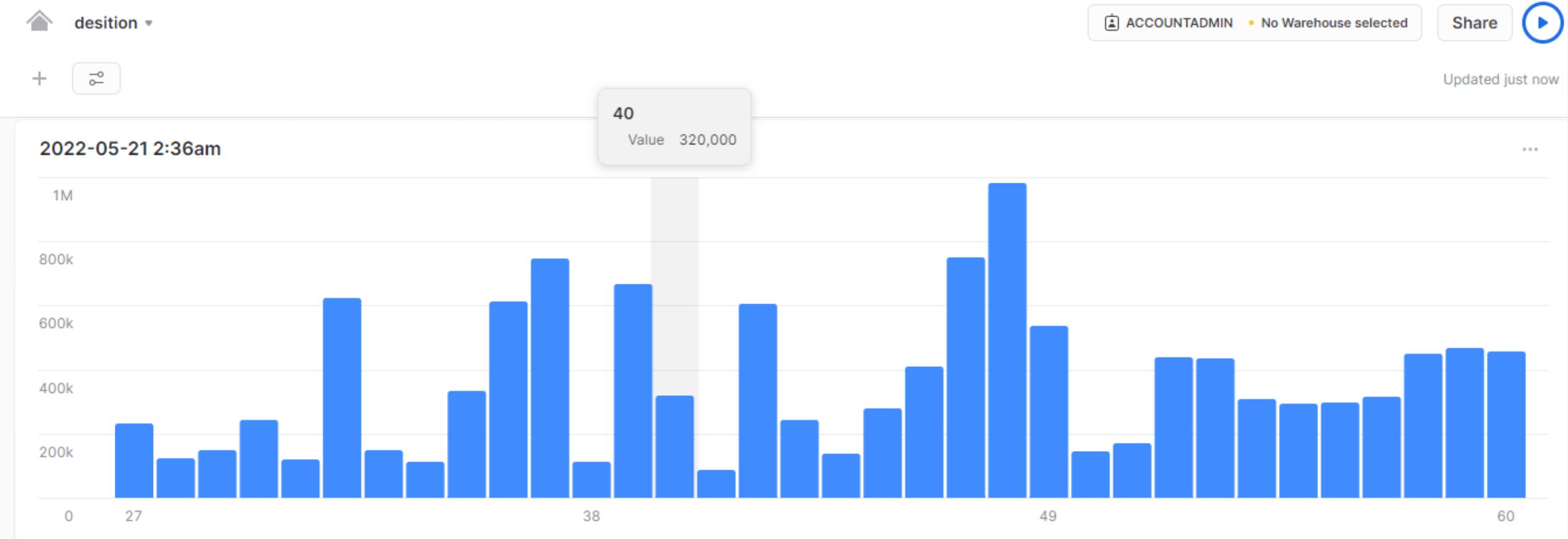
Order direction Ascend...

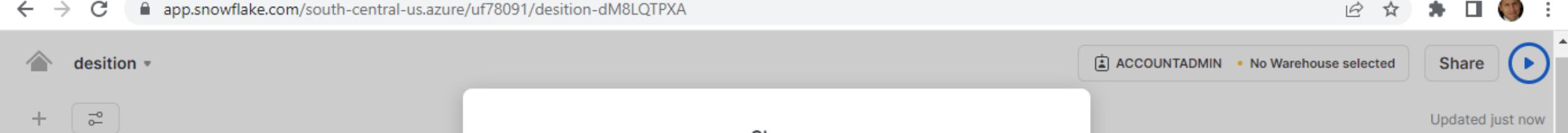
Series direction Ascend...

Label X-Axis

Label Y-Axis







2022-05-21 2:36am

1M

800k

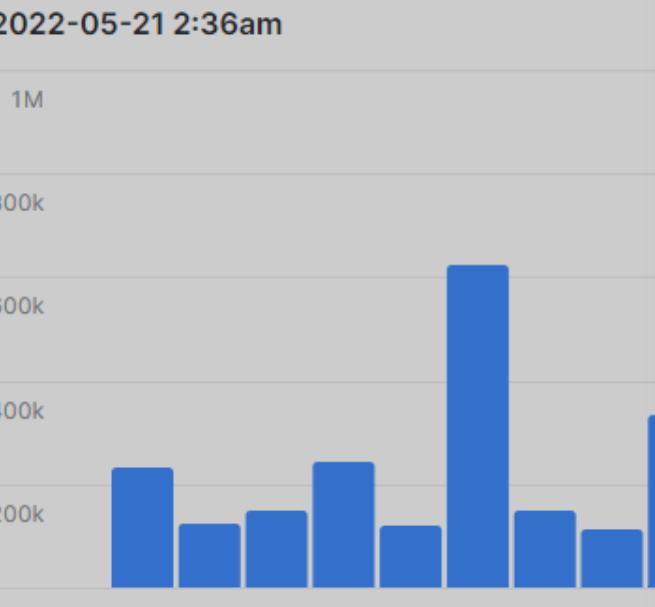
600k

400k

200k

0 27

60



Share

The role ACCOUNTADMIN is required to view this Dashboard.
Viewers without the role can duplicate and run under their own roles.

Invite by name or username



Alfonso Ayala ALFONSOAYALAPALOMA

Owner



People with link

People without the role ACCOUNTADMIN can
only view query text.

View results ▾

Get Link

Done



<https://app.snowflake.com/south-central-us.azure/uf78091/desition-dM8LQTPXA>

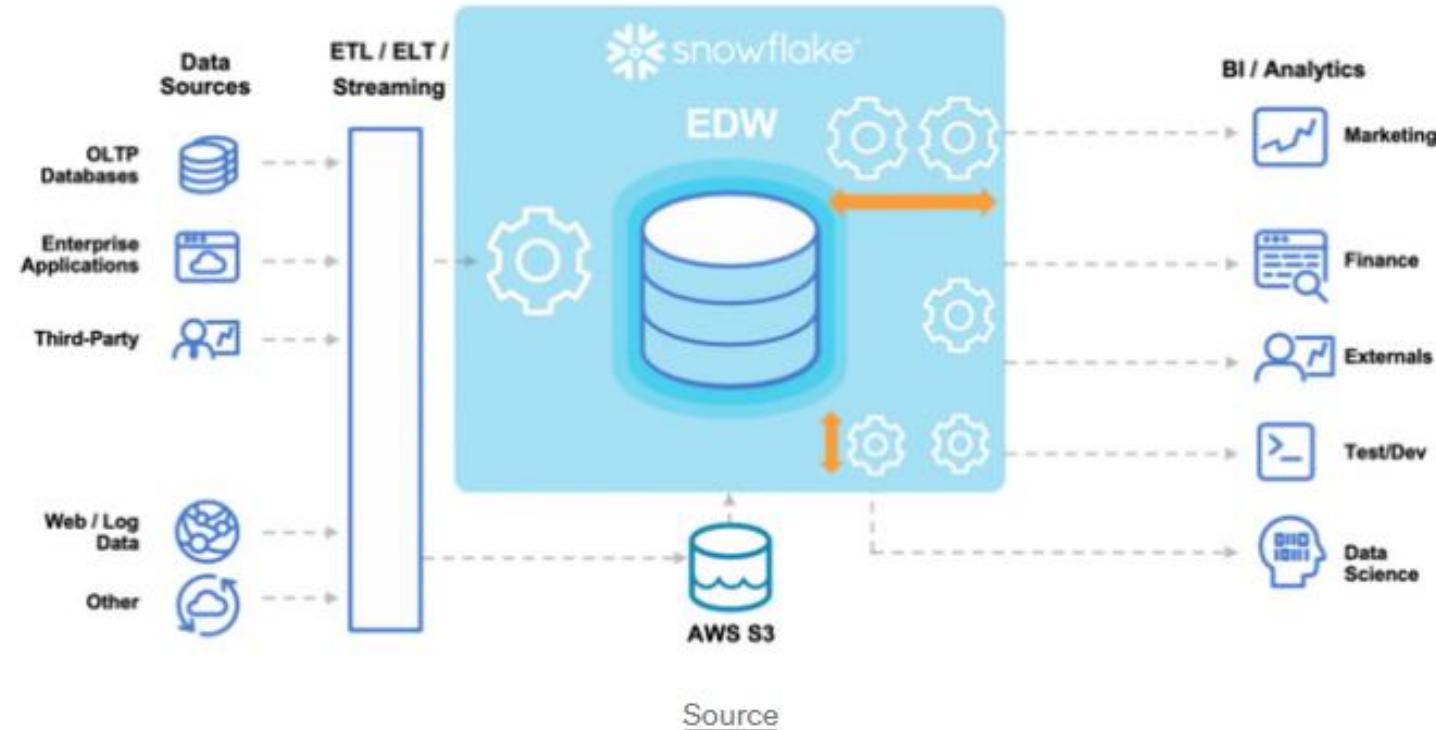
Snowflake

- **Store all of your data:**

Store semi-structured data such as JSON, Avro, ORC, Parquet, and XML alongside your relational data. Query all your data with standard, ACID-compliant SQL, and dot notation.

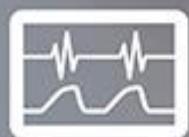
- **Pay for what you use:**

Snowflake's built-for-the-cloud architecture scales storage separately from compute. Whether up and down or transparently and automatically, you only pay for what you use.





\$.



AI



BIG DATA

Conjunto de funciones relacionadas con la minería de datos, analítica y modelado predictivo sobre un gran volumen de datos.



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Y todo esto
PARA QUÉ?





<https://sdgs.un.org/goals>

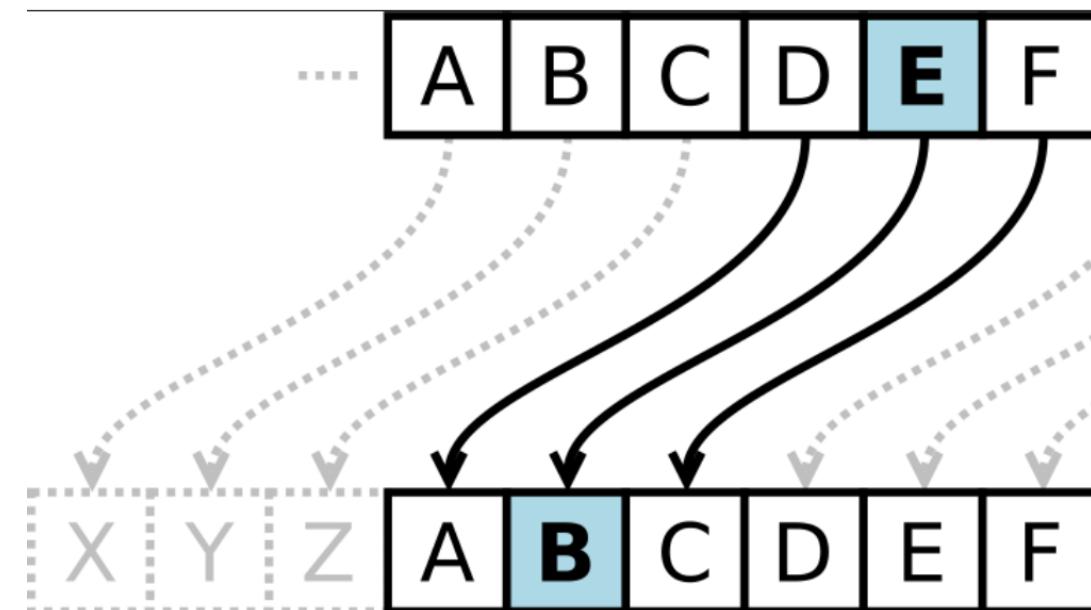
Qué problema resolvemos hoy?



A sus 15 años, Gitanjali Rao ha inventando distintas tecnologías, incluyendo un instrumento que puede identificar contenido de plomo en agua potable y una app que utiliza la inteligencia artificial para detectar ejemplos de ciberacoso.

Descifra el mensaje:

pxisx qr jrkal



SALVA TU MUNDO

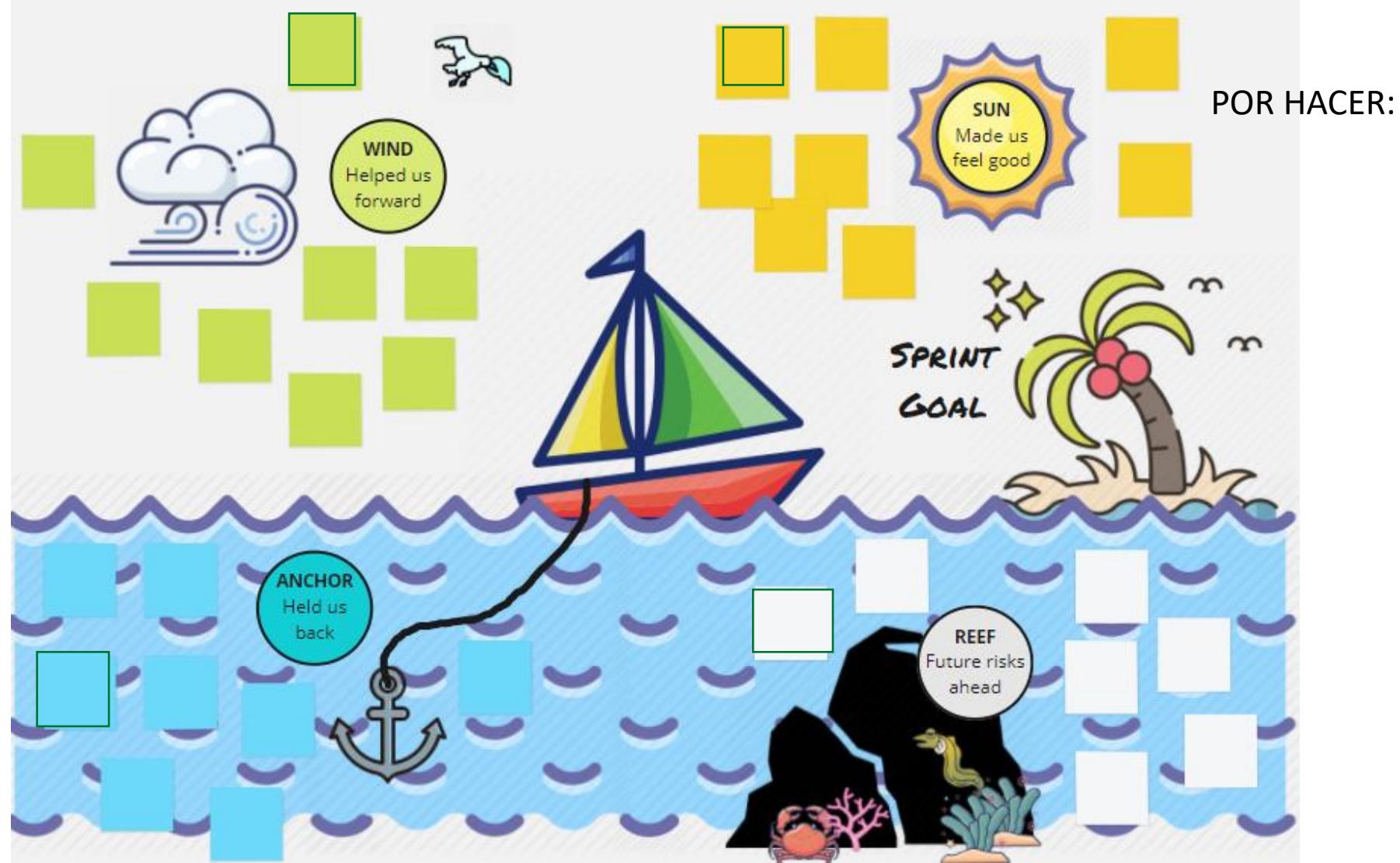
SPRINT REVIEW

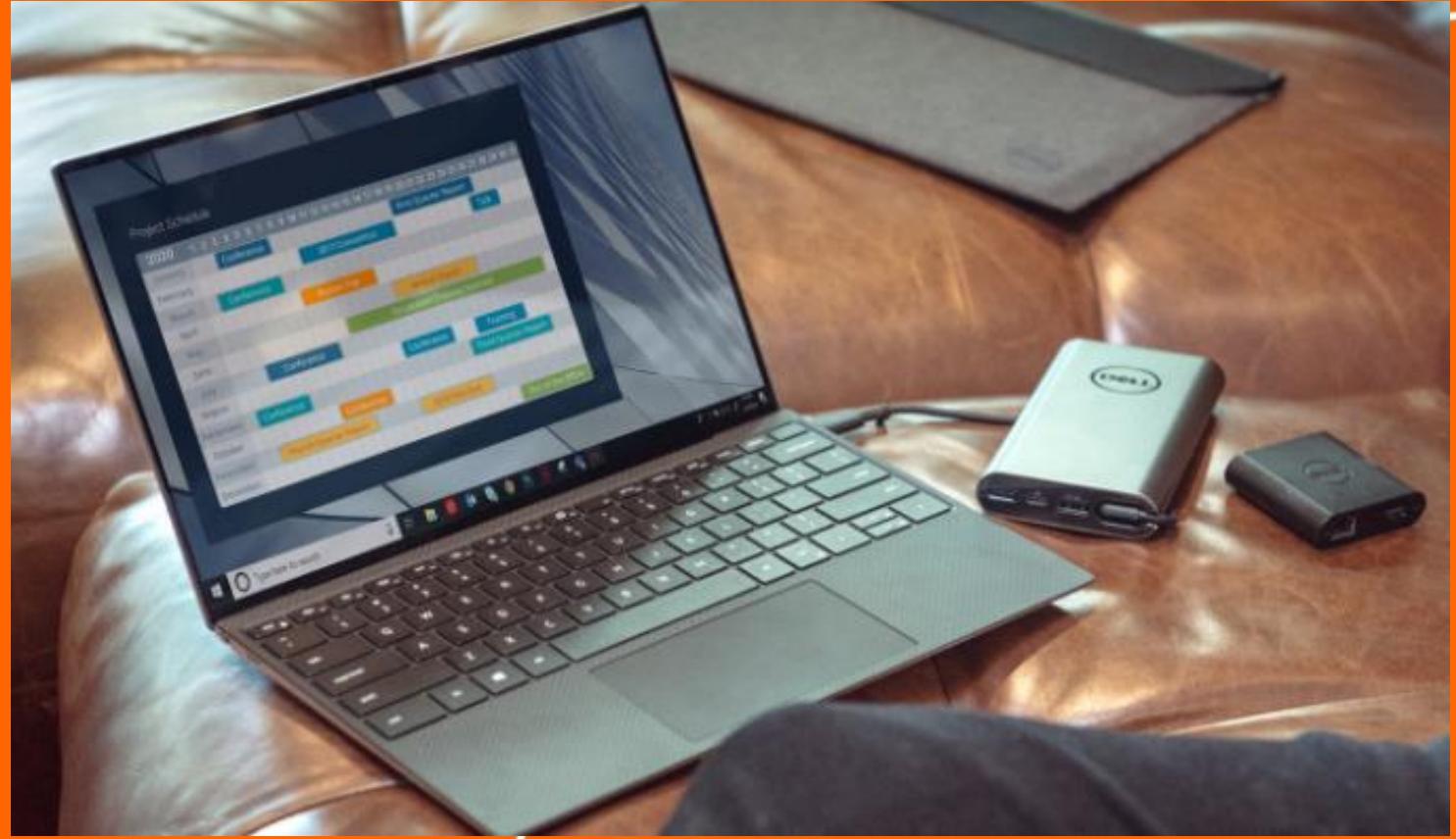
Estándares cloud

Usos de cloud



SPRINT RETROSPECTIVE





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