**ACTIVIDAD 1**

**Tipo actividad: Proveedores de servicios en la nube (2 horas)**

Para esta actividad se realizará el análisis de los proveedores en la nube con los estudiantes. Utilizando 10 minutos, durante la sesión, los estudiantes deben averiguar qué empresas y servicios existen que provean servicios de:

* Almacenamiento de datos en la nube
* Procesamiento en la nube
* Creación de servidores virtualizados
* Creación de entornos de jupyter lab
* Creación de entornos de DataBricks

(Los tres grandes (Google Cloud, Microsoft Azure y Amazon Web Services (AWS)) se consideran los líderes consolidados. No obstante, hay muchos otros reproductores pequeños o nichos que también ofrecen servicios en la nube, como IBM, Alibaba, Oracle, Red Hat, DigitalOcean y Rackspace.

Una vez se conozcan los proveedores, se distribuyen los estudiantes en grupos y a cada uno de ellos se le asigna la tarea de investigar más de cada proveedor de servicios. Como actividad deberán determinar el costo de algunas de las herramientas más comunes como son:

1. Almacenamiento de datos (storage, blobs, entre otros)

## Choose the cloud solutions you need

Our sales team can help you find the best mix of cloud solutions to meet the unique needs of your business.

[**Get help from our sales team**](https://www.digitalocean.com/company/contact/sales?referrer=pricing)

### Droplets

Starting at

**$4/month**

Highly-efficient virtual machines

* Deploy in seconds
* Scale up on demand
* Run any workload - from mission critical apps to low traffic sites

[**View Dropletpricing**](https://www.digitalocean.com/pricing/droplets)

### Kubernetes

Starting at

**$12/month**

Simple, managed Kubernetes

* Simple, managed Kubernetes built for scale
* Free control plane, free bandwidth allowance, and more
* Automate and optimize to peak performance

[**View Kubernetespricing**](https://www.digitalocean.com/pricing/kubernetes)

### App Platform

Starting at

**$0/month**

Simple, fully-managed infrastructure solution

* Build, deploy and scale apps quickly
* Fully managed solution, zero infrastructure management
* Highly scalable

[**View App Platformpricing**](https://www.digitalocean.com/pricing/app-platform)

### Functions

Starting at

**$0/month**

Serverless computing solution

* Focus on building great apps
* Pay for what you use
* Scale automatically

[**View Functionspricing**](https://www.digitalocean.com/pricing/functions)

### Databases

Starting at

**$15/month**

Fully managed and maintained

* Managed MongoDB, Kafka, PostgreSQL, MySQL, and Managed Databases for Redis®\*
* Worry-free setup, maintenance, and easy migration
* Free daily backups, automated failover, and more!

[**View Managed Databasepricing**](https://www.digitalocean.com/pricing/managed-databases)

### Spaces

Starting at

**$5/month**

Simple, scalable object storage

* S3-compatible object storage
* Highly scalable
* Built in CDN

[**View Spaces Object Storagepricing**](https://www.digitalocean.com/pricing/spaces-object-storage)

### Volumes

Starting at

**$10/month**

Business-ready block storage

* Block storage
* Highly available
* Easily scale block storage, resize when needed, and move them between droplets

[**View Volumes Block Storagepricing**](https://www.digitalocean.com/pricing/volumes)

### Load Balancers

Starting at

**$12/month**

Load balancing, simplified

* Improve availability, performance, and scalability
* Let's Encrypt and HTTP/3 support
* Compatible with Droplets and DigitalOcean Kubernetes

[**View Load Balancerpricing**](https://www.digitalocean.com/pricing/load-balancers)

### Container Registry

Starting at

**$0/month**

Easily store and manage private container images

* Easily store and manage private container images
* Transfer container images over high-speed HTTPs connections to servers across four continents

[**View Container Registrypricing**](https://www.digitalocean.com/pricing/container-registry)

### Support Plans

Starting at

**$0/month**

Unlimited customized support

* Find answers to common questions, development guidelines written by experts and get free email support
* Ideal for those testing ideas and hosting small applications

[**View Support Planpricing**](https://www.digitalocean.com/pricing/support)

### Uptime

Starting at

**$0/month**

Automated endpoint alerts

* Uptime and latency checks
* Alerts by email and Slack
* 1 Uptime Check/month included with every account

[**View Uptime Monitoringpricing**](https://www.digitalocean.com/pricing/uptime-monitoring)

### Backups

**20%(for weekly) of Droplet cost per month**

**30%(for daily) of Droplet cost per month**

Protect your business data with frequent and fast backups

* Daily\*\* or weekly Droplet backups
* Fast and fully-automated
* Configurable four-hour windows

1. Creación de máquinas virtuales y tipos de máquinas que se pueden crear
2. Herramientas de analítica de datos automatizadas
3. Herramientas de machine learning automatizadas (sagemaker, vertex, azure cognitive services, entre otros)

https://www.paperspace.com/pricing

Para finalizar la sesión se debaten los resultados con los estudiantes para que cada grupo pueda ver las principales diferencias y ventajas de los proveedores encontrados en la nube. Además, los estudiantes deben concluir acerca de si es posible ejecutar los servicios en la nube; se debe preguntar si en todos los proveedores es posible correr cualquiera de estos entornos.