

## Desafío 8

El objetivo de este ejercicio es comprender cómo utilizar la calculadora de precios de AWS para comparar los costos de una infraestructura en la nube en diferentes regiones. Además, se busca que identificar las variaciones de precios según la ubicación geográfica y los diferentes servicios de AWS. Se escogieron las locaciones del N. Virginia (este de EEUU), Tokyo (Japon) y Sao Paulo (Brasil).

Al entrar al sitio web <https://calculator.aws> presionamos el botón crear estimación y iremos al home de la calculadora de precios, donde podemos escoger los servicios que necesitemos

aws pricing calculator

Feedback Language: English Contact Sales Create an AWS Account

AWS Pricing Calculator > My Estimate > Add service

Step 1 Add service

Step 2 Configure service

**Add service** Info

Bulk import

Cancel

**AWS services (149)**

☒ Search by location type  
See the services that are available in your region, wave length zone, and local zone.

☐ Search all services  
Choose a service or workload to configure an estimate.

Choose a location type Info

Region

Choose a Region

US East (Ohio)

Find Service

Search for a service

AWS Application Migration Service Amazon API Gateway Amazon AppFlow

Upfront cost: 0.00 USD Monthly cost: 0.00 USD Total 12 months cost: 0.00 USD (includes upfront cost) View summary

Configuramos las instancias de EC2, seleccionando 3 por región, de tipo t3.large y 500 GB de EBS y luego agregamos otro servicio, veremos que nos quedara en el summary de momento de esta manera

aws pricing calculator

Feedback Language: English Contact Sales Create an AWS Account

**My Estimate** Edit

Export Share

**Estimate summary** Info

Upfront cost: 0.00 USD Monthly cost: 210.45 USD Total 12 months cost: 2,525.40 USD (includes upfront cost)

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**My Estimate** Duplicate Delete Move to Create group Add support Add service

Find resources

Service Name	Status	Upfront cost	Monthly cost	Description	Region	Config Summary
Amazon EC2	-	0.00 USD	210.45 USD	-	US East (N. Virginia)	Tenancy (Shared I...

Configuramos el servicio S3 Standard y Glacier, guardamos y agregamos otro servicio

The screenshot shows the AWS Pricing Calculator interface for configuring Amazon S3 services. The top navigation bar includes the AWS logo, 'pricing calculator', and links for Feedback, Language (English), Contact Sales, and Create an AWS Account. The main content area is divided into three sections: a left sidebar with 'Step 2: Configure service', a central configuration area, and a right sidebar titled 'Select sub-services'. In the central area, 'Choose a location type' is set to 'Region' and 'Choose a Region' is set to 'US East (N. Virginia)'. Below this, 'Select S3 Storage classes and other features' lists various options with radio buttons: S3 Standard (selected), S3 Intelligent-Tiering, S3 Standard - Infrequent Access, S3 One Zone - Infrequent Access, S3 Glacier Flexible Retrieval (selected), S3 Glacier Deep Archive, S3 Management and Insights, S3 Object Lambda, S3 Glacier Instant Retrieval, Data Transfer (selected), S3 Express One Zone, and S3 Access Grants. A 'S3 Standard feature' section is also visible. The right sidebar provides information about Amazon Simple Storage Service (Amazon S3) and a 'Learn more' link. At the bottom, the 'Total Upfront cost' and 'Total Monthly cost' are both 0.00 USD. Navigation buttons include 'Show Details', 'Cancel', 'Save and view summary', and 'Save and add service'.

Luego configuramos Cloudfront, seguiremos con N. Virginia para los servicios que faltan y comenzaremos de nuevo con las otras regiones, de esta manera luego podremos comparar los precios por regiones

The screenshot shows the AWS Pricing Calculator interface for configuring Amazon CloudFront. The top navigation bar is identical to the previous screenshot. The main content area is titled 'Create estimate: Configure Amazon CloudFront'. It includes a 'Description' field with the placeholder 'Enter a description for your estimate'. Below this, 'Choose a location type' is set to 'Region' and 'Choose a Region' is set to 'US East (N. Virginia)'. The 'CloudFront Edge Locations' section prompts the user to 'Choose the geographies where your content will be served'. A prominent information box states: 'CloudFront 1TB Free Tier. Effective December 1, 2021, the first 1TB per month of data transfer out to the internet and 10 million http/https requests from all Edge locations will be free (excludes CloudFront China). We are working to update the calculator to reflect this expanded offering. In the meantime, please incorporate these changes into your pricing calculator inputs below.' The bottom of the interface shows the same cost summary and navigation buttons as the previous screenshot.

Finalmente configuramos las Bases de dato RDS y DynamoDB de tipo db.t3.medium, con capacidad aprovisionada y 100 unidades de escritura/lectura

The screenshot shows the AWS Pricing Calculator interface for PostgreSQL instance specifications. The top navigation bar includes the AWS logo, 'pricing calculator', and links for 'Feedback', 'Language: English', 'Contact Sales', and 'Create an AWS Account'. The main content area is titled 'PostgreSQL instance specifications' and includes a 'Choose a location type' dropdown set to 'Region' and a 'Choose a Region' dropdown set to 'US East (N. Virginia)'. Below this, the 'Nodes' section prompts the user to 'Enter the number of DB instances that you need.' with a text input field containing '1'. A search bar shows 'db.t3.medium' with a clear button. A box below displays the 'Selected Instance: db.t3.medium' with 'vCPU: 2' and 'Memory: 4 GiB'. The bottom summary bar shows 'Total Upfront cost: 0.00 USD' and 'Total Monthly cost: 150.75 USD', along with a 'Show Details' link, 'Cancel', and an 'Update' button.

The screenshot shows the AWS Pricing Calculator interface for Amazon DynamoDB configuration. The top navigation bar is identical to the previous screenshot. The main content area is titled 'Create estimate: Configure Amazon DynamoDB'. It includes a 'Step 1' section with an 'Add service' link and a 'Description' text input field. The 'Step 2' section is titled 'Configure service' and contains 'Choose a location type' (set to 'Region') and 'Choose a Region' (set to 'US East (N. Virginia)'). Below these is a 'Choose DynamoDB features' section with the instruction 'Choose the DynamoDB features whose pricing you want to estimate.' and a grid of toggle switches for various features: 'DynamoDB on-demand capacity' (off), 'DynamoDB provisioned capacity' (on), 'DynamoDB Accelerator (DAX) clusters' (off), 'DynamoDB Streams' (off), 'DynamoDB Backup and restore' (off), 'DynamoDB change data capture' (off), 'DynamoDB Data export to Amazon S3' (off), and 'DynamoDB Data Import from Amazon S3' (off). The bottom summary bar shows 'Total Upfront cost: 180.00 USD' and 'Total Monthly cost: 26.14 USD', along with a 'Show Details' link, 'Cancel', 'Save and view summary', and 'Save and add service' buttons.

Habiendo finalizado la configuración de servicios para la region, podemos ver el total estimado.

Estimate summary <a href="#">Info</a>		
Upfront cost	Monthly cost	Total 12 months cost
180.00 USD	387.34 USD	<b>4,828.08 USD</b>
		Includes upfront cost

	Service N...	Status	Upfront c...	Monthly c...	Description	Region	Config Sum...
	Amazon EC2	-	0.00 USD	210.45 USD	-	US East (N. ...	Tenancy (Shar...
	Amazon Sim...	-	0.00 USD	0.00 USD	-	US East (N. ...	S3 Standard A...
	Amazon Clo...	-	0.00 USD	0.00 USD	-	US East (N. ...	-
	Amazon RDS...	-	0.00 USD	150.75 USD	-	US East (N. ...	Storage amou...
	Amazon Dyn...	-	180.00 USD	26.14 USD	-	US East (N. ...	Table class (St...

Para las demas regiones el proceso es exactamente el mismo. El total estimado de Tokyo es :

aws pricing calculator

Feedback

Language: English

Contact Sales

Create an AWS Account

Successfully added Amazon DynamoDB estimate.

AWS Pricing Calculator

My Estimate

Region2

My Estimate

Export

Share

Estimate summary

Upfront cost

205.60 USD

Monthly cost

526.69 USD

Total 12 months cost

**6,525.88 USD**

Includes upfront cost

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	Service Name	Status	Upfront cost	Monthly cost	Description	Region	Configuration Summary
	Amazon EC2	-	0.00 USD	279.34 USD	-	Asia Pacific (Sydney)	Tenancy (Shared)
	Amazon S3 Glacier	-	0.00 USD	0.00 USD	-	Asia Pacific (Sydney)	S3 Glacier Flexible Retrieval
	Amazon CloudWatch	-	0.00 USD	0.00 USD	-	Asia Pacific (Sydney)	-
	Amazon RDS	-	0.00 USD	217.40 USD	-	Asia Pacific (Sydney)	Storage amount: 100GB
	Amazon DynamoDB	-	205.60 USD	29.95 USD	-	Asia Pacific (Sydney)	Table class: Standard

El total de Sao Paulo:

Estimate summary <a href="#">Info</a>		
Upfront cost	Monthly cost	Total 12 months cost
270.00 USD	722.23 USD	8,936.76 USD
		Includes upfront cost

■	Service N... ▾	Status ▾	Upfront c... ▾	Monthly c... ▾	Description ▾	Region ▾	Config Sum... ▾
■	Amazon EC2 	-	0.00 USD	374.95 USD	-	South Ameri...	Tenancy (Shar...
■	Amazon Sim... 	-	0.00 USD	0.00 USD	-	South Ameri...	S3 Glacier Flexi...
■	Amazon Clo... 	-	0.00 USD	0.00 USD	-	South Ameri...	-
■	Amazon RDS... 	-	0.00 USD	307.96 USD	-	South Ameri...	Storage amou...
■	Amazon Dyn... 	-	270.00 USD	39.32 USD	-	South Ameri...	Table class (St...

Teniendo N.Virginia un servicio de EC2 con un costo aproximado de 210.45 \$, un servicio de RDS de 150.75 \$ y uno de DynamoDB de 26.14 \$ con un upfront de 180 \$, N.Virginia resulta la región mas barata en todos los servicios comparados con un total de 387.34 \$ mensual mas 180 \$ de upfront, o bien, 12 meses a 4.828,08 \$ mas upfront incluido.