

Deliverable-4

We started with use of Cost Estimator service of AWS

Then later we used cost explorer to check for any optimisations possible.

The services utilized for the project are AWS S3,Glue,Athena,IAM and Sage Maker

The screenshot shows the AWS Pricing Calculator interface. At the top, there's a navigation bar with the AWS logo, 'pricing calculator', and links for 'Feedback', 'Language: English', 'Contact Sales', and 'Create an AWS Account'. A green banner at the top left says 'Successfully added Amazon SageMaker estimate.' Below this, the breadcrumb trail is 'AWS Pricing Calculator > My Estimate > Add service'. The left sidebar shows 'Step 1: Add service' and 'Step 2: Configure service'. The main area is titled 'Add service' and contains a search section with 'AWS services (170)' and two search options: 'Search by location type' (selected) and 'Search all services'. Below these are dropdowns for 'Choose a location type' (set to 'Region') and 'Choose a Region' (set to 'US East (N. Virginia)'). A search bar is also present. Below the search section, three service cards are visible: 'AWS Application Migration Service', 'Amazon API Gateway', and 'Amazon AppFlow'. At the bottom, a summary bar shows 'Upfront cost: 0.00 USD', 'Monthly cost: 217.92 USD', and 'Total 12 months cost 2,615.04 USD (Includes upfront cost)'. A 'View summary' button is on the right. The footer contains links for 'Privacy', 'Site terms', and 'Cookie preferences', along with a copyright notice for 2023.

Configurations are as follows for each of the service used:

S3:

The screenshot shows the 'Edit Amazon Simple Storage Service (S3)' configuration page. It has a title bar with 'Edit Amazon Simple Storage Service (S3)' and an 'Info' link. The 'Description' field is empty with a placeholder 'Enter a description for your estimate'. Below this are dropdowns for 'Choose a location type' (set to 'Region') and 'Choose a Region' (set to 'US East (N. Virginia)'). The main section is 'Select S3 Storage classes and other features', with a sub-header 'Select AWS services that you want to estimate'. It contains nine radio button options: 'S3 Standard' (selected), 'S3 One Zone - Infrequent Access', 'S3 Management and Insights', 'Data Transfer' (selected), 'S3 Intelligent - Tiering', 'S3 Glacier Flexible Retrieval', 'S3 Object Lambda', 'S3 Standard - Infrequent Access', 'S3 Glacier Deep Archive', and 'S3 Glacier Instant Retrieval'. At the bottom, a summary bar shows 'Total Upfront cost: 0.00 USD' and 'Total Monthly cost: 0.03 USD'. There are 'Show Details', 'Cancel', and 'Update' buttons.

▼ S3 Standard

Info

The calculations below exclude Free Tier discounts.

S3 Standard storage

1

Unit

GB per month

How will data be moved into S3 Standard?

Automatically calculates PUT, COPY, POST costs for moving data into S3 Standard initially. To compare the cost of current storage in S3 Standard to lifecycleing this data to another storage class, you can specify that your storage is already stored in S3 Standard while selecting Lifecycle under the new storage class to capture the upfront cost of moving your data.

The specified amount of data is already stored in S3 Standard

▼

PUT, COPY, POST, LIST requests to S3 Standard

Ongoing monthly number of PUT, COPY, POST or LIST requests

60

GET, SELECT, and all other requests from S3 Standard

Ongoing monthly number of GET, SELECT and all other requests

1000

Data returned by S3 Select

Ongoing monthly volume of data returned by S3 Select requests

Total Upfront cost: 0.00 USD

Total Monthly cost: 0.03 USD

Show Details ▼

Cancel

Update

Edit Amazon Simple Storage Service (S3)

Info

×

GET, SELECT, and all other requests from S3 Standard

Ongoing monthly number of GET, SELECT and all other requests

1000

Data returned by S3 Select

Ongoing monthly volume of data returned by S3 Select requests

Value

1

Unit

GB per month

Data scanned by S3 Select

Ongoing monthly volume of data scanned by S3 Select requests

Value

1

Unit

GB per month

► Show calculations

Data Transfer feature

Total Upfront cost: 0.00 USD

Total Monthly cost: 0.03 USD

Show Details ▼

Cancel

Update

Athena:

Configure Amazon Athena

Info

×

Region

▼

US East (Ohio)

▼

▼ SQL Queries

Info

SQL queries with per query pricing

With per query pricing, you pay only for the queries you run. To estimate your monthly cost, enter the total number of queries you expect to run in a day, week, or month and the amount of data scanned per query.

Total number of queries

50

Unit

per day

Amount of data scanned per query

600

Unit

MB

SQL queries with capacity based pricing

With capacity based pricing, you can pay an hourly price for compute resources to run your queries. You pay only for the capacity you need, measured in Data Processing Units (DPUs), and the time capacity is active in your account. To estimate your monthly cost, enter the number of DPUs and time needed.

Total Upfront cost: 0.00 USD

Total Monthly cost: 4.35 USD

Show Details ▼

Save and view summary

Save and add service

Glue:

Configure AWS Glue [Info](#)

Choose a location type [Info](#)

Choose a Region

Region

US East (N. Virginia)

Select Glue service that you want to estimate

☒ AWS Glue ETL jobs and interactive sessions

☐ AWS Glue ETL jobs with Flex execution option

☐ AWS Glue ETL for Ray jobs and interactive sessions

☐ AWS Glue Data Catalog storage requests

☐ AWS Glue DataBrew interactive sessions

☐ AWS Glue Crawlers

AWS Glue ETL jobs and interactive sessions feature

▼ ETL jobs [Info](#)

Apache Spark ETL jobs

Total Upfront cost: 0.00 USD

Total Monthly cost: 0.00 USD

Show Details ▼

Save and view summary

Save and add service

▼ Crawlers [Info](#)

Number of crawlers

A single Data Processing Unit (DPU) provides 4 vCPU and 16 GB of memory.

1

Duration for each crawler

You are billed in increments of 1 second, rounded up to the nearest second, with a 10-minute minimum duration for each crawl.

Value

Unit

10

minutes

► Show calculations

Total Upfront cost: 0.00 USD

Total Monthly cost: 0.07 USD

Show Details ▼

Save and view summary

Save and add service

SageMaker:

Configure Amazon SageMaker

SageMaker Studio Notebooks

Number of data scientist(s)

Number of data scientist(s)

4

Number of Studio Notebook instances per data scientist

Number of Studio Notebook instances

2

Studio Notebook hour(s) per day

Number of hours Studio Notebooks are being used per day

6

Studio Notebook day(s) per month

Number of days Studio Notebooks are being used per month

20

ml.t3.large

Total Upfront cost: 0.00 USD

Total Monthly cost: 96.00 USD

Show Details

Save and view summary

Save and add service

Consolidated Estimate:

Successfully deleted Amazon EC2 estimate.

AWS Pricing Calculator

My Estimate_Group15

My Estimate_Group15

Export

Share

Estimate summary

Upfront cost

0.00 USD

Monthly cost

214.15 USD

Total 12 months cost

2,569.80 USD

Includes upfront cost

Getting Started with AWS

Get started for free

Contact Sales

My Estimate_Group15

Duplicate

Delete

Move to

Create group

Add support

Add service

Find resources

< 1 >

	Service Name	Status	Upfront cost	Monthly cost	Description	Region	Config Summary
<input type="checkbox"/>	AWS Billing Conductor	-	0.00 USD	41.25 USD	ProjectEstimate_Group15	US East (N. Virginia)	Calculate percentag...
<input type="checkbox"/>	Amazon Athena	-	0.00 USD	4.35 USD	Project_Group15	US East (Ohio)	Total number of que...
<input type="checkbox"/>	AWS Glue	-	0.00 USD	0.07 USD	Project_Group15	US East (N. Virginia)	Number of DPUs for...

Privacy

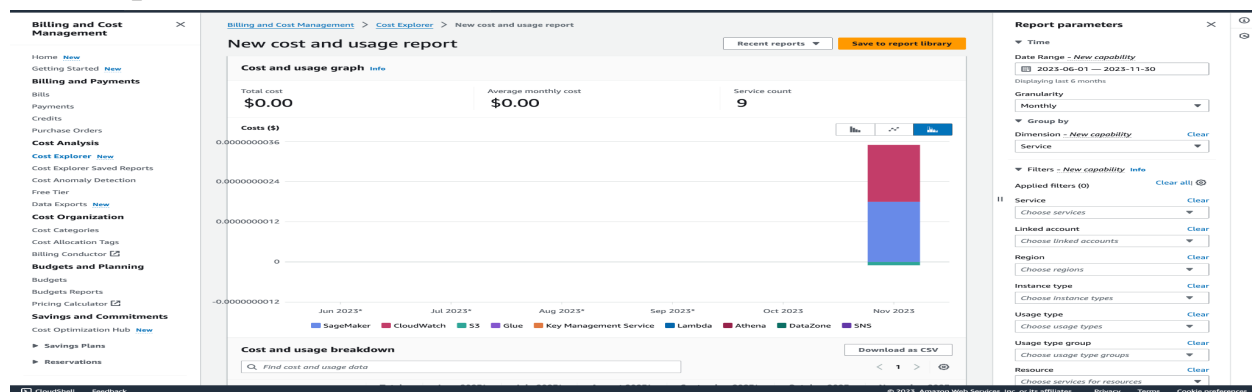
Site terms

Cookie preferences

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My Estimate_Group15								
<div> <input type="text" value="Find resources"/> </div> <div> Duplicate Delete Move to Create group Add support Add service </div>								
<input type="checkbox"/>	Service Name	Status	Upfront cost	Monthly cost	Description	Region	Config Summary	
<input type="checkbox"/>	AWS Billing Conductor	-	0.00 USD	41.25 USD	ProjectEstimate_Group15	US East (N. Virginia)	Calculate percentag...	
<input type="checkbox"/>	Amazon Athena	-	0.00 USD	4.35 USD	Project_Group15	US East (Ohio)	Total number of que...	
<input type="checkbox"/>	AWS Glue	-	0.00 USD	0.07 USD	Project_Group15	US East (N. Virginia)	Number of DPU for...	
<input type="checkbox"/>	Amazon SageMaker	-	0.00 USD	168.45 USD	-	US East (N. Virginia)	Instance name (mLt...	
<input type="checkbox"/>	Amazon Simple Stor...	-	0.00 USD	0.03 USD	-	US East (N. Virginia)	S3 Standard storage...	

Cost Explorer:



Recommendation Parameters:

Billing and Cost Management

- Home [New](#)
- Getting Started [New](#)
- Billing and Payments**
 - Bills
 - Payments
 - Credits
 - Purchase Orders
- Cost Analysis**
 - Cost Explorer [New](#)
 - Cost Explorer Saved Reports
 - Cost Anomaly Detection
 - Free Tier
 - Data Exports [New](#)
- Cost Organization**
 - Cost Categories
 - Cost Allocation Tags
 - Billing Conductor [EC](#)
- Budgets and Planning**
 - Budgets
 - Budgets Reports
 - Pricing Calculator [EC](#)
- Savings and Commitments**
 - Cost Optimization Hub [New](#)
- Savings Plans**
 - Overview

Visual Savings Plans recommendations

You can now see the impact of each Savings Plan recommendation on your cost, utilization, and coverage by choosing [View details](#) in the table below

☐ Don't show this again

[Billing and Cost Management](#) > [Savings Plans](#) > Recommendations

[Refresh recommendations \(updated 2 minutes ago\)](#)

Recommendation parameters

Savings Plans type

☒ **Compute Savings Plans**
Applies to EC2 instance usage, AWS Fargate, and AWS Lambda service usage, regardless of region, instance family, size, tenancy, and operating system.
 ☐ **EC2 Instance Savings Plans**
Applies to EC2 instance usage within the committed EC2 family and region, regardless of size, tenancy, and operating system.
 ☐ **SageMaker Savings Plans**
Applies to SageMaker service usage, regardless of region, instance family, and component.

Recommendation options

Savings Plans term

☒ 1-year
☐ 3-year

Payment option

☒ All upfront
☐ Partial upfront
☐ No upfront

Based on the past

☐ 7 days
☒ 30 days
☐ 60 days

Recommendations (0)

Date last updated: Dec 9, 2023 10:13:26 pm UTC

Before recommended purchase	After recommended purchase
Current monthly on-demand spend	Estimated monthly spend
=	=
(- per hour)	(- per hour)
Estimated monthly savings	
=	
(- per hour)	

Recommended Savings Plans

[Download CSV](#) [Add Savings Plans to cart](#)

The recommendations were not retrieved as a countable amount of revenue was not yet utilized to start saving upon the resources. The chosen configuration might generate new data if you used it on a regular basis.