Amazon SWF pricing

Why SWF?

Pay only for what you use. There is no minimum fee. Estimate your monthly bill using the Simple Monthly Calculator

All charges are metered daily and billed monthly.

Free Tier*

As part of AWS's Free Usage Tier, Amazon SWF offers the following **each month** to new and existing customers:

- 1,000 workflow executions can be started at no charge
- 10,000 tasks, timers, signals, and markers can be used in aggregate at no charge
- 30,000 workflow-days can be used at no charge. A workflow-day refers to each 24-hour period that an execution is either open or retained in Amazon SWF.

*Free Tier for data transfer is applicable as per AWS's Free Usage Tier***

AWS Pricing Calculator

Calculate your Amazon SWF and architecture cost in a single estimate.

Create your custom estimate now

Workflow executions

A workflow is a set of tasks executed in a certain order (sometimes with a set of conditional flows or loops). Each time that a workflow is executed, it is considered a distinct workflow execution. You pay for workflow executions when you start them (i.e. their first task becomes available for application hosts to execute) and for each 24-hour period until they are completed. The first 24 hours of workflow execution are free.

Start a workflow execution

Region: US East (Ohio)

- $0.00 for first 1,000 workflow executions
- $0.0001 per workflow execution above the free tier

Open and retained workflows

Region: US East (Ohio)

- $0.00 for first 30,000 combined open workflow and retained workflow days (24 hour period)
- $0.000005 per 24 hour period that a workflow is retained above the free tier
- $0.000005 per 24 hour period that a workflow is open above the free tier

Except as otherwise noted, our prices are exclusive of applicable taxes and duties, including VAT and applicable sales tax. For customers with a Japanese billing address, use of AWS is subject to Japanese Consumption Tax. Learn more.

Tasks, markers, timers and signals

Until a workflow execution is completed, your worker or client machines will execute additional tasks, may add "markers" (custom workflow execution log entries), start timers, or receive signals. For each of these you pay:

Region: US East (Ohio)

- $0.00 for first 10,000 combined tasks, signals, timers, markers
- $0.000025 per task, signal, timer, or marker above the free tier

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Data transfer**

Region: US East (Ohio)

Data Transferred	Pricing
Data Transfer IN	$0.00 per GB
All data transfer in	
Data Transfer OUT ***	
Next 9.999 TB / Month	$0.09 per GB
Next 40 TB / Month	$0.085 per GB
Next 100 TB / Month	$0.07 per GB
Greater than 150 TB / Month	$0.05 per GB

Contact us for additional high usage data transfer price information.

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Data transfer "in" and "out" refers to transfer into and out of Amazon SWF. Data transferred between Amazon SWF and other AWS services (e.g. Amazon EC2 where workers and deciders may be deployed) within a single region is free of charge (i.e., $0.00 per GB). Data transferred between Amazon SWF and other AWS services in different regions will be charged at Internet Data Transfer rates on both sides of the transfer.

* Your free usage is calculated each month and automatically applied to your bill – free usage does not accumulate.

** As part of AWS's Free Usage Tier, AWS customers will receive free 15 GB of data transfer out each month aggregated across all AWS services for one year.

*** Data transfer out rate tiers aggregate outbound data transfer across Amazon EC2, AWS Lambda, Amazon S3, Amazon RDS, Amazon SimpleDB, Amazon DynamoDB, Amazon SWF, Amazon SQS, Amazon SNS, AWS Storage Gateway, and Amazon VPC.

Example cost calculation

To illustrate Amazon SWF pricing, consider a simple video processing application with three tasks: download a video, encode it, and store the encoded video in Amazon S3. This application is used to encode 10,000 videos, each of which comprises a unique workflow execution. The workers and deciders in this application are all running on Amazon EC2 in the same region as Amazon SWF. The cost incurred for running 10,000 workflow executions of this workflow daily in US East (N. Virginia) is $1.75 as follows:

- $1.00 for starting 10,000 workflow executions (10,000 x $0.0001)
- $0.75 for initiating tasks ($0.000025 per task x 3 tasks per workflow execution x 10,000 workflow executions)
- We assume a video can be encoded and uploaded to S3 in less than 24 hours. As a result the workflow execution completes within 24 hours of being started and there is no ongoing workflow execution charge.

Let's suppose you also want to have Amazon SWF retain information about the encoding workflow executions for 7 days after they complete. The cost for retaining information about the workflow executions is $0.35 ($0.000005 per day per execution x 7 workflow-days of retention x 10,000 workflow executions).

In total the Amazon SWF cost to coordinate the encoding and uploading of 10,000 videos and to retain information about the associated workflow executions and processing steps for 7 days is: $2.10 ($1.75 for running the workflow executions + $0.35 for retaining information on them).

AWS GovCloud Region

AWS GovCloud is an AWS Region designed to allow U.S. government agencies and contractors to move more sensitive workloads into the cloud by addressing their specific regulatory and compliance requirements. For pricing and more information on the new AWS GovCloud Region, please visit the AWS GovCloud web page.

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