

PySpark pricing

SQL pricing

AWS Clean Rooms ML pricing

AWS Entity Resolution on AWS Clean Rooms pricing

Additional costs

With AWS Clean Rooms, you can run queries using the Spark SQL dialect in AWS Clean Rooms collaborations. AWS Clean Rooms Spark SQL offers configurable compute sizes to provide more control over price performance when running SQL workloads.

Spark SQL pricing

AWS Clean Rooms measures compute capacity in Clean Rooms Processing Unit (CRPU)-hours, on a per-second basis (with a 60-second minimum charge). There are no resources to manage and no upfront costs, and you are not charged for startup or shutdown time. When you run Spark SQL queries on AWS Clean Rooms, payment responsibilities can be configured to either the collaborator running the queries or to any of the members participating in a collaboration. The member responsible for payment will be billed for all queries in the collaboration.

AWS Clean Rooms Spark SQL charges an hourly rate based on the number of CRPUs used to run your query. You pay for the usage of compute on a price-per-CRPU-hour, with the option to choose from different instances to run your queries. By default, AWS Clean Rooms allocates 32 CRPUs to each Spark SQL query.

You can choose the instance type and number of instances (workers) to run your Spark SQL queries. For CR.1X, you can select up to 128 workers or a minimum of 2 workers. For CR.4X, you can select up to 32 workers or a minimum of 2 workers. For example:

Instance Type	Instances	Total CRPU-hour
CR.1X	2	4
CR.1X (default)	16 (default)	32 (default)
CR.1X	128	256
CR.4X	8	64
CR.4X	32	256

Note: You can choose a compute engine configuration with more instances to allocate more resources for your Spark SQL queries. A higher compute engine configuration will distribute the workload across more instances to meet your job requirements and limits. Learn more about the associated vCPU, memory, and storage for each configuration [here](#).

Spark SQL rule pricing dimension

Spark SQL compute: You pay for the length of time that your Spark SQL queries take to run on a price-per-CRPU-hour rate. AWS Clean Rooms Spark SQL Compute pricing varies by AWS region.

Region:

Europe (London)

Type	Pricing
SQL Compute	\$2.49 per CRPU-hour
AWS Clean Rooms Differential Privacy	\$2.49 per CRPU-hour (incremental, if enabled)

Spark SQL pricing examples

Example 1 – Spark SQL query (using the default CR.1X with 16 instances)

You want to use Spark SQL queries to run analysis across configured tables from multiple collaboration members. Your Spark SQL query runs for 3 minutes, and needs to be processed three times per day in an AWS Clean Rooms collaboration in US East (N. Virginia). You want to use the default AWS Clean Rooms Spark SQL compute engine configuration with CR.1X and 16 instances, which uses a total capacity of 32 CRPUs per hour to run the queries.

The following table summarizes your total usage for the day and the year:

Query execution period	The query was run three times per day, each taking 3 minutes = 9 minutes = 540 seconds / 3,600 = 0.150 hours
Capacity used	4.8 CRPUs = (0.150 hours * 32 CRPU-hour using CR.1X and 16 instances)
Daily charges	\$9.60 = (4.8 CRPUs * \$2.00 per CRPU-hour)
Yearly charges	\$3,504.00 = \$9.60 * 365

Example 2 – Spark SQL query (using CR.4X with 8 instances)

You want to use Spark SQL queries to run analysis across configured tables from multiple collaboration members. Your Spark SQL query runs once per day for 3 minutes in an AWS Clean Rooms collaboration in US East (N. Virginia). You choose to use an AWS Clean Rooms Spark SQL compute engine configuration with CR.4X and 8 instances, which uses a total capacity of 64 CRPUs per hour to run the queries.

The following table summarizes your total usage for the day and the year:

Query execution period	The query was run once, taking 3 minutes = 180 seconds / 3,600 = 0.050 hours
Capacity used	3.2 CRPUs = (0.050 hours * 64 CRPU-hour using CR.4X and 8 instances)
Daily charges	\$6.40 = (3.2 CRPUs * \$2.00 per CRPU-hour)
Yearly charges	\$2,336.00 = \$6.40 * 365

Example 3 – Spark SQL query with AWS Clean Rooms Differential Privacy enabled

You want to use Spark SQL queries to run analysis across configured tables from multiple collaboration members and use AWS Clean Rooms Differential Privacy for an additional layer of protection. The total cost per CRPU-hour is \$4.00 (\$2.00 per CRPU-hour for Spark SQL compute + \$2.00 per CRPU-hour for AWS Clean Rooms Differential Privacy). The query needs to be processed once per day in an AWS Clean Rooms collaboration in US East (N. Virginia). You want to use the default AWS Clean Rooms Spark SQL compute engine configuration with CR.1X and 16 instances, which uses a total capacity of 32 CRPUs per hour to run the queries. Your average query completion time is 4.5 minutes.

The following table summarizes your total usage for the day and the year:

Query execution period	The query was run once, taking 4.5 minutes = 270 seconds / 3,600 = 0.075 hours
Capacity used	2.4 CRPUs = (0.075 hours * 32 CRPU-hour using CR.1X and 16 instances)
Daily charges	\$9.60 = (2.4 CRPUs * \$4.00 per CRPU-hour)
Yearly charges	\$3,504.00 = \$9.60 * 365

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