Amazon Braket Pricing

Why Amazon Braket?

With Amazon Braket, there are no upfront charges, and you pay only for the AWS resources you use. Amazon Braket provides on-demand and dedicated access to quantum computers, quantum circuit simulators, fully managed execution of hybrid quantum-classical algorithms, and Jupyter notebook development environments.

You will be billed separately for use of these capabilities, as well as other AWS services that you use with Amazon Braket such as Amazon Simple Storage Service (S3) for storing the results of quantum computations.

Quantum Computers | Simulators | Hybrid Jobs | Managed Notebooks

Amazon Braket offers three pricing components for on-demand use of a quantum computer (QPU): a per-shot fee and a per-task fee or a single hourly reservation fee.

A shot is a single execution of a quantum algorithm on a QPU—for example, a single pass through a complete quantum circuit on gate-based QPUs from AQT, IonQ, IQM, or Rigetti, or the time evolution of a Hamiltonian on QuEra's QPU. A task is a sequence of repeated shots based on the same circuit design or Hamiltonian, with the number of shots defined when you submit the task. The hourly reservation fee applies to the actual time you book to use a QPU.

Per-task pricing is consistent across all QPUs, while per-shot pricing varies by QPU type. For gate-based QPUs, the per-shot price remains the same regardless of the number or type of gates used in a quantum circuit. Note that IonQ's Aria QPU requires a minimum of 2,500 shots per task when using error mitigation.

Braket Direct Program:

For users requiring dedicated access, Braket Direct allows you to skip the wait with reserved device access, expert advice, and experimental capabilities in one comprehensive package. Reserved access is priced based on reservation duration rather than task volume, available in 1-hour increments, with free cancellation up to 48 hours in advance.

Additional program features include:

Expert advice offerings (billed separately from Braket)
Experimental capabilities (available on a per-request basis)
For detailed information about expert advice pricing or experimental capabilities, please navigate to Braket Direct in the AWS Management Console.

Quantum Computers

Hardware Provider	QPU family	Per-task price	Per-shot price
AQT	IBEX-Q1	$0.30000	$0.02350
IonQ	Aria	$0.30000	$0.03000
IonQ	Forte	$0.30000	$0.08000
IQM	Emerald	$0.30000	$0.00160
IQM	Garnet	$0.30000	$0.00145
QuEra	Aquila	$0.30000	$0.01000
Rigetti	Ankaa	$0.30000	$0.00090

Reservation Mode

Hardware Provider	QPU family	Reservation Rate (Hour) ($)
AQT	IBEX-Q1	$4,800.00
IonQ	Aria	$7,000.00
IonQ	Forte	$7,000.00
IQM	Emerald	$4,000.00
IQM	Garnet	$3,000.00
QuEra	Aquila	$2,500.00
Rigetti	Ankaa	$5,750.00

AWS Free Tier

Amazon Braket is part of the AWS Free Tier. The AWS Free Tier gives you one free hour of quantum circuit simulation time per month. This applies to simulation time on SV1, DM1, TN1, or any combination of those three managed quantum circuit simulators. Standard rates for incremental usage apply after the free hour has been used. Use of other Amazon Braket resources such as managed notebooks, hybrid job instances, and quantum computers will incur costs.

Pricing Examples

Example 1: on-demand simulator

Let's say a developer uses the Amazon Braket SDK running in a local environment to design a quantum circuit to use 30 qubits, and then simulates the circuit using the Amazon Braket on-demand simulator SV1 ($0.075 per minute) in the AWS US East (N. Virginia) region. The simulation takes 4 minutes to run. The developer is running this simulation after using Amazon Braket for 10 months, with no other simulation usage so far that month.

This workload does not use a managed notebook, and the simulation time is covered by the AWS Free Tier, which provides one hour of included on-demand simulation time per month for the first twelve months of using Amazon Braket.
Total charges for first 12 months: $0.

If the developer runs the same simulation after using Amazon Braket for twelve months, standard SV1 pricing ($0.075 per minute) applies:
($0.075 / minute) x 4 minutes =$0.30
Total charges after first 12 months: $0.30

Example 2: Gate-based QPU

A scientist runs a quantum algorithm on the Rigetti Ankaa quantum computer in the AWS US West (N. California) Region. This task includes 10,000 repeated shots of the same circuit design. The cost to run this task includes a per-task charge of $0.30, plus 10,000 shots at a per-shot price of $0.00090.
The cost to run this algorithm:
Task charges: 1 task x $0.30 / task = $0.30
Shots charges: 10,000 shots x $0.00090 / shot = $9.00
Total charges: $9.30

Example 3: Hybrid job with on-demand simulator

A researcher designs a hybrid quantum-classical algorithm and runs it using the Amazon Braket Hybrid Jobs feature and the SV1 simulator ($0.075 per minute) in the AWS US East (N. Virginia) Region. The hybrid job is set up to run for 30 iterations each with 10 tasks. Each task takes 5 seconds to run on the simulator and the total duration of the job is 1500 seconds. The researcher uses an ml.m5.xlarge job instance ($0.23 per hour) for classical compute.

The cost to run this job:
SV1 simulator charges, if the researcher has exceeded the AWS Free Tier: ($0.075 / minute) x (1500/60 minutes) = $1.875
ml.m5.xlarge job instance usage charges: ($0.23 / 60 minutes) x (1500/60 minutes) = $0.096
Total charges: $1.97

Example 4: Hybrid job with a QPU

A scientist runs a quantum machine learning algorithm on the Rigetti quantum computer using Amazon Braket Hybrid Jobs in the AWS US West (N. California) Region. This job includes 50 iterations, each with 2 tasks that have 100 shots. The cost to run this job includes a per-task charge of $0.30, plus each run of the 100 shots at a per-shot price of $0.00090, for each iteration. The scientist also uses an ml.p3.8xlarge job instance ($14.688 per hour) for the entire duration of the job, which lasts 26 minutes.

The cost to run this job:
Task charges: 50 iterations x 2 tasks x $0.30 / task = $30.00
Shots charges: 50 iterations x 2 tasks x 100 shots x $0.0009 / shot = $9.00
ml.p3.8xlarge usage charges: ($14.688 / 60 minutes) x 26 minutes = $6.36
Total charges: $45.36

Example 5: Hybrid job with embedded simulator

A researcher designs a hybrid quantum-classical algorithm on 24 qubits and runs it on the embedded lightning.gpu simulator using Amazon Braket Hybrid Jobs, in the AWS US East (N. Virginia) Region. The hybrid job is set up to run for 10 iterations with zero shots each. The researcher uses a single ml.p3.8xlarge job instance ($0.2448 per-minute) for classical compute. The job takes 2 minutes to complete.

The cost to run this job:
ml.p3.8xlarge job instance usage charges: ($0.2448 per-minute) x (2 minutes) = $0.49
Total charges: $0.49

Example 6: Experiment with error mitigation

A scientist experiments with error mitigation on the IonQ Aria QPU in the AWS US East (N. Virginia) Region.
The cost to run a task on the QPU includes a per-task charge of $0.30, plus a per-shot charge of $0.03.
The cost to run a task with error mitigation enabled and with 2,500 shots:
Task charges: 1 task x $0.30 / task = $0.30Shots charges: 2,500 shots x $0.03 / shot = $75
Total charges: $75.30
Note that since error mitigation requires a minimum of 2,500 shots, attempting to run such a task with fewer shots will fail and the scientists would not be charged.

Additional pricing resources

AWS Pricing Calculator
Easily calculate your monthly costs with AWS

Get pricing assistance
Contact AWS specialists to get a personalized quote

Get Started with AWS
Learn how to start using AWS in minutes

AWS Free Tier
Gain free, hands-on experience with AWS for 12 months

Proven Security to Accelerate Your Innovation
Find the resources you need to build, run, and scale your applications on the most secure cloud computing environment available today »

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