



















Cloud Platform	Quantum Provider	Programming	Simulators	Pricing	Classical	Queue	Near RT
IBM Quantum	IBM	Qiskit	Clifford simulator, Matrix Product State, Extended Clifford (e.g. Clifford+T), General, context-aware, Schrödinger wavefunction	Pay-as-you-go, Premium Plan, Open Plan	IBM Cloud Code Engine, IBM Cloud Functions	✓	✗
 Azure Quantum	Microsoft, IONQ, Quantinuum, Rigetti, Pasqal, Quantum Circuits, 1Qit, Toshiba	Cirq, Qiskit, Q#	Full state simulator, Sparse simulator, Simple resources estimator, Trace-based resource estimator, Toffoli simulator, Noise simulator	Pay-as-you-go	Azure Container Apps, Azure Functions	✓	✗
 Google AI Quantum	Google, IONQ	Cirq, OpenFermion, TensorFlow Quantum	Quantum Virtual Machine (QVM), qsim - Optimized quantum circuit simulators, GPU-based quantum simulation on Google Cloud, FQE	Pay-as-you-go	Google Cloud Run, Google Cloud Functions	✓	✗
 Amazon Braket	AWS, D-Wave, IONQ, Oxford Quantum Circuits (OQC), QuEra, Rigetti, Xanadu	Amazon Braket, Qiskit provider for Amazon Braket	Local state vector simulator (braket_sv) ('Default Simulator'), Local density matrix simulator (braket_dm), State vector simulator (SV1), Density matrix simulator (DM1), Tensor network simulator (TN1), PennyLane's Lightning Simulators	Free-Tier, Per-task price, Per-shot price, Per-minute rate, Price per Minute	AWS Fargate, AWS Elastic Compute Service ECS, AWS Lambda	✓	✗
 Quantum Computing Cloud Platform (C-J) Alibaba Cloud	Alibaba Group	Alibaba Cloud Quantum Development Platform (ACQDP)	general-purpose, tensor-contraction based quantum circuit simulator, error correction simulations	N/A	Elastic Container Instance, Function Compute, Alibaba Cloud Container Service for Kubernetes (ACK)	✓	✗
 Quantum Cloud Services (QCS)	Rigetti	Cirq, Qiskit, Q#, pyQuil, quilc, QVM	WavefunctionSimulator, ReferenceWavefunctionSimulator, ReferenceDensitySimulator, NumpyWavefunctionSimulator	Pay-as-you-go	✗	N/A	✗
 Atos OneCloud	Atos	myQLM, Qiskit, Cirq, ProjectQ or Forest	Atos Quantum Learning Machine (Atos QLM), Atos QLM Enhanced (Atos QLM E)	N/A	✗	✗	✗
 量易伏 QUANTUM LEAF	Baidu	Qcompute	QCompute OpenSimulator	Pay-as-you-go	✗	✓	✗
N/A	Intel	Quantum SDK (C++)	Intel Quantum Simulator (Intel-QS), also known as qHiPSTER (The Quantum High Performance Software Testing Environment)	N/A	✗	✗	✗
N/A	Honeywell	Cirq, Qiskit, Q#	Syntax Validation tool, H1-1 Emulator, H1-2 Emulator	N/A	✗	✗	✗
 IONQ Quantum Cloud	IONQ	Cirq, Qiskit, Q#, Amazon Braket, blqs	IONQ Quantum simulator	Volume Based Pricing, Request Custom Pricing	✗	✓	✗
 D-Wave Leap	D-Wave	D-Wave SDK, Ocean Tools, Qiskit	Simulated annealing	Free-Trail, Custom plan, Pay-as-you-go	✗	✓	✓
 QCI Qatalyst	IONQ, Rigetti, D-Wave	Qatalyst API (Q Api)	braket_simulator, braket_simulator_tn1, braket_simulator_dm1, and qonductor. Braket's simulators: SV1 (state vector simulator), TN1 (based on tensor networks), and DM1 (density matrix simulator)	Pay-as-you-go, AWS Braket (Free-Tier, Per-task price, Per-shot price, Per-minute rate, Price per Minute)	✗	✓	✗
 XANADU Cloud	Xanadu	PennyLane, Strawberry Fields	Lightning quantum simulator, Strawberry Fields Simulator, Jet	Free Tier, Flexible Tier, Partner Tier	✗	✓	✗
 STRANGE WORKS	AWS, Azure, D-Wave, HITACHI, Honeywell, IBM, IONQ, Rigetti	Strangeworks QC	Strangeworks Quantum Simulator	Pay-as-you-go	✗	✓	✗
 ZAPATA AI Orquestra	D-Wave, IBM, IONQ, Quantinuum, Rigetti	Orquestra	SymbolicSimulator, ForestSimulator, CirqSimulator, QiskitSimulator (aer_simulator, aer_simulator_statevector), QulacsSimulator, QSimSimulator, CuStateVecSimulator, BraketLocalSimulator, BraketOnDemandSimulator	Different packages depending on the need of the customer	✗	✓	✗
 QUANTINUUM	Quantinuum, Honeywell	TKET, Qermit, lambeq	H1-1 Emulator, H1-2 Emulator	Pay-as-you-go (H-System Quantum Credits (HQC))	✗	✓	✗
 QCWARE Forge	QC Ware, AWS Braket	Forge	Quantum Approximate Optimization Algorithm (QAOA) QAOA qcware/cpu_simulator, QAOA qcware/gpu_simulator	Free (Developer Plan), Enterprise (Pay-As-You-Go, Small, Medium, Large)	✗	✓	✗
 PASQAL Cloud services	PASQAL	Pulser	Fresnel quantum simulator from PASQAL	N/A	✗	N/A	✗
 OQC private Quantum Computing-as-a-Service (QCaaS)	Oxford Quantum Circuits (OQC)	Amazon Braket Python SDK	N/A	N/A	✗	N/A	✗
 Q-CTRL	IBM, Rigetti	Q-CTRL Python package, Open Controls, IBM Qiskit, Quantum Machines, Rigetti Quil, QuTIP	coherent_simulation, noise_simulation, Simulate quantum dynamics for noiseless systems using graphs, Simulate quantum dynamics subject to noise with graphs, Simulate multi-qubit circuits in quantum computing, Simulate open system dynamics, Simulate large open system dynamics	Pay monthly (Basic plan - free, Pro, Enterprise), Pay annually (Basic plan - free, Pro, Enterprise)	✗	✓	✗