Amazon OpenSearch Service Pricing

Why Amazon OpenSearch Service?

With Amazon OpenSearch Service, you can search, analyze, visualize, and secure up to petabytes of text and unstructured data. Pay only for what you use; there is no minimum fee or usage requirement. You are charged based on three dimensions: instance hours, which are the number of hours that an instance is available to you for use; the amount of storage you need; and data transferred in and out of OpenSearch Service. Storage pricing depends on the storage tier and type of instance that you choose.

AWS Pricing Calculator

Calculate your Amazon OpenSearch Service and architecture cost in a single estimate.

Create your custom estimate now

On-Demand Instance pricing

Region:
Europe (London)

General Purpose - Current Generation	vCPU	Memory (GiB)	Instance Storage (GB)	Price Per hour
t3.small.search	2	2	EBS Only	$0.038
t3.medium.search	2	4	EBS Only	$0.077
t2.micro.search	1	1	EBS Only	$0.021
t2.small.search	1	2	EBS Only	$0.038
t2.medium.search	2	4	EBS Only	$0.077
m8g.medium.search	1	4	EBS Only	$0.087
m8g.large.search	2	8	EBS Only	$0.173
m8g.xlarge.search	4	16	EBS Only	$0.345
m8g.2xlarge.search	8	32	EBS Only	$0.69
m8g.4xlarge.search	16	64	EBS Only	$1.379
m8g.8xlarge.search	32	128	EBS Only	$2.757
m8g.12xlarge.search	48	192	EBS Only	$4.136
m8g.16xlarge.search	64	256	EBS Only	$5.514
m7g.medium.search	1	4	EBS Only	$0.078
m7g.large.search	2	8	EBS Only	$0.157
m7g.xlarge.search	4	16	EBS Only	$0.313
m7g.2xlarge.search	8	32	EBS Only	$0.626
m7g.4xlarge.search	16	64	EBS Only	$1.253
m7g.8xlarge.search	32	128	EBS Only	$2.506
m7g.12xlarge.search	48	192	EBS Only	$3.759
m7g.16xlarge.search	64	256	EBS Only	$5.012
m7i.large.search	2	8	EBS Only	$0.186
m7i.xlarge.search	4	16	EBS Only	$0.373
m7i.2xlarge.search	8	32	EBS Only	$0.746
m7i.4xlarge.search	16	64	EBS Only	$1.492
m7i.8xlarge.search	32	128	EBS Only	$2.984
m7i.12xlarge.search	48	192	EBS Only	$4.476
m7i.16xlarge.search	64	256	EBS Only	$5.967
m6g.large.search	2	8	EBS Only	$0.147
m6g.xlarge.search	4	16	EBS Only	$0.295
m6g.2xlarge.search	8	32	EBS Only	$0.59
m6g.4xlarge.search	16	64	EBS Only	$1.179
m6g.8xlarge.search	32	128	EBS Only	$2.359
m6g.12xlarge.search	48	192	EBS Only	$3.538
m5.large.search	2	8	EBS Only	$0.164
m5.xlarge.search	4	16	EBS Only	$0.327
m5.2xlarge.search	8	32	EBS Only	$0.655
m5.4xlarge.search	16	64	EBS Only	$1.31
m5.12xlarge.search	48	192	EBS Only	$3.929
m4.large.search	2	8	EBS Only	$0.184
m4.xlarge.search	4	16	EBS Only	$0.369
m4.2xlarge.search	8	32	EBS Only	$0.736
m4.4xlarge.search	16	64	EBS Only	$1.472
m4.10xlarge.search	40	160	EBS Only	$3.682

Compute Optimized - Current Generation	vCPU	Memory (GiB)	Instance Storage (GB)	Price Per hour
c8g.large.search	2	4	EBS Only	$0.157
c8g.xlarge.search	4	8	EBS Only	$0.314
c8g.2xlarge.search	8	16	EBS Only	$0.628
c8g.4xlarge.search	16	32	EBS Only	$1.255
c8g.8xlarge.search	32	64	EBS Only	$2.509
c8g.12xlarge.search	48	96	EBS Only	$3.763
c8g.16xlarge.search	64	128	EBS Only	$5.017
c7g.large.search	2	4	EBS Only	$0.143
c7g.xlarge.search	4	8	EBS Only	$0.285
c7g.2xlarge.search	8	16	EBS Only	$0.57
c7g.4xlarge.search	16	32	EBS Only	$1.14
c7g.8xlarge.search	32	64	EBS Only	$2.281
c7g.12xlarge.search	48	96	EBS Only	$3.421
c7g.16xlarge.search	64	128	EBS Only	$4.561
c7i.large.search	2	4	EBS Only	$0.17
c7i.xlarge.search	4	8	EBS Only	$0.339
c7i.2xlarge.search	8	16	EBS Only	$0.679
c7i.4xlarge.search	16	32	EBS Only	$1.357
c7i.8xlarge.search	32	64	EBS Only	$2.715
c7i.12xlarge.search	48	96	EBS Only	$4.072
c7i.16xlarge.search	64	128	EBS Only	$5.43
c6g.large.search	2	4	EBS Only	$0.134
c6g.xlarge.search	4	8	EBS Only	$0.268
c6g.2xlarge.search	8	16	EBS Only	$0.537
c6g.4xlarge.search	16	32	EBS Only	$1.073
c6g.8xlarge.search	32	64	EBS Only	$2.146
c6g.12xlarge.search	48	96	EBS Only	$3.219
c5.large.search	2	4	EBS Only	$0.149
c5.xlarge.search	4	8	EBS Only	$0.298
c5.2xlarge.search	8	16	EBS Only	$0.596
c5.4xlarge.search	16	32	EBS Only	$1.192
c5.9xlarge.search	36	72	EBS Only	$2.682
c5.18xlarge.search	72	144	EBS Only	$5.363
c4.large.search	2	3.75	EBS Only	$0.176
c4.xlarge.search	4	7.5	EBS Only	$0.35
c4.2xlarge.search	8	15	EBS Only	$0.702
c4.4xlarge.search	16	30	EBS Only	$1.401
c4.8xlarge.search	36	60	EBS Only	$2.805

Memory Optimized - Current Generation	vCPU	Memory (GiB)	Instance Storage (GB)	Price Per hour
r8g.medium.search	1	8	EBS Only	$0.115
r8g.large.search	2	16	EBS Only	$0.23
r8g.xlarge.search	4	32	EBS Only	$0.46
r8g.2xlarge.search	8	64	EBS Only	$0.919
r8g.4xlarge.search	16	128	EBS Only	$1.838
r8g.8xlarge.search	32	256	EBS Only	$3.676
r8g.12xlarge.search	48	384	EBS Only	$5.514
r8g.16xlarge.search	64	512	EBS Only	$7.351
r8gd.medium.search	1	8	1 x 59 NVMe SSD	$0.144
r8gd.large.search	2	16	1 x 118 NVMe SSD	$0.287
r8gd.xlarge.search	4	32	1 x 237 NVMe SSD	$0.573
r8gd.2xlarge.search	8	64	1 x 474 NVMe SSD	$1.145
r8gd.4xlarge.search	16	128	1 x 950 NVMe SSD	$2.29
r8gd.8xlarge.search	32	256	1 x 1900 NVMe SSD	$4.58
r8gd.12xlarge.search	48	384	3 x 950 NVMe SSD	$6.869
r8gd.16xlarge.search	64	512	2 x 1900 NVMe SSD	$9.159
r7g.medium.search	1	8	EBS Only	$0.104
r7g.large.search	2	16	EBS Only	$0.209
r7g.xlarge.search	4	32	EBS Only	$0.418
r7g.2xlarge.search	8	64	EBS Only	$0.835
r7g.4xlarge.search	16	128	EBS Only	$1.671
r7g.8xlarge.search	32	256	EBS Only	$3.341
r7g.12xlarge.search	48	384	EBS Only	$5.012
r7g.16xlarge.search	64	512	EBS Only	$6.682
r7gd.medium.search	1	8	1 x 80 SSD	$0.133
r7gd.large.search	2	16	1 x 118 NVMe SSD	$0.266
r7gd.xlarge.search	4	32	1 x 237 NVMe SSD	$0.531
r7gd.2xlarge.search	8	64	1 x 475 NVMe SSD	$1.061
r7gd.4xlarge.search	16	128	1 x 950 NVMe SSD	$2.121
r7gd.8xlarge.search	32	256	1 x 1900 NVMe SSD	$4.242
r7gd.12xlarge.search	48	384	2 x 1425 NVMe SSD	$6.363
r7gd.16xlarge.search	64	512	2 x 1900 NVMe SSD	$8.484
r7i.large.search	2	16	EBS Only	$0.249
r7i.xlarge.search	4	32	EBS Only	$0.497
r7i.2xlarge.search	8	64	EBS Only	$0.995
r7i.4xlarge.search	16	128	EBS Only	$1.989
r7i.8xlarge.search	32	256	EBS Only	$3.978
r7i.12xlarge.search	48	384	EBS Only	$5.967
r7i.16xlarge.search	64	512	EBS Only	$7.956
r6g.large.search	2	16	EBS Only	$0.197
r6g.xlarge.search	4	32	EBS Only	$0.393
r6g.2xlarge.search	8	64	EBS Only	$0.786
r6g.4xlarge.search	16	128	EBS Only	$1.572
r6g.8xlarge.search	32	256	EBS Only	$3.145
r6g.12xlarge.search	48	384	EBS Only	$4.717
r5.large.search	2	16	EBS Only	$0.218
r5.xlarge.search	4	32	EBS Only	$0.437
r5.2xlarge.search	8	64	EBS Only	$0.873
r5.4xlarge.search	16	128	EBS Only	$1.746
r5.12xlarge.search	48	384	EBS Only	$5.239
r4.large.search	2	15.25	EBS Only	$0.23
r4.xlarge.search	4	30.5	EBS Only	$0.46
r4.2xlarge.search	8	61	EBS Only	$0.92
r4.4xlarge.search	16	122	EBS Only	$1.841
r4.8xlarge.search	32	244	EBS Only	$3.682
r4.16xlarge.search	64	488	EBS Only	$7.363

Storage Optimized - Current Generation	vCPU	Memory (GiB)	Instance Storage (GB)	Price Per hour
i8g.large.search	2	16	1 x 468 GB SSD	$0.319
i8g.xlarge.search	4	32	1 x 937 GB SSD	$0.638
i8g.2xlarge.search	8	64	1 x 1875 GB SSD	$1.275
i8g.4xlarge.search	16	128	1 x 3750 GB SSD	$2.549
i8g.8xlarge.search	32	256	2 x 3750 GB SSD	$5.097
i8g.12xlarge.search	48	384	3 x 3750 GB SSD	$7.646
i8g.16xlarge.search	64	512	4 x 3750 GB SSD	$10.194
i4i.large.search	2	16	1 x 468 Nitro SSD	$0.318
i4i.xlarge.search	4	32	1 x 937 Nitro SSD	$0.637
i4i.2xlarge.search	8	64	1 x 1,875 Nitro SSD	$1.274
i4i.4xlarge.search	16	128	1 x 3,750 Nitro SSD	$2.549
i4i.8xlarge.search	32	256	2 x 3,750 Nitro SSD	$5.098
i4i.12xlarge.search	48	384	3 x 3,750 Nitro SSD	$7.645
i4i.16xlarge.search	64	512	4 x 3,750 Nitro SSD	$10.194
i4i.24xlarge.search	96	768	6 x 3,750 Nitro SSD	$15.291
i4i.32xlarge.search	128	1024	8 x 3,750 Nitro SSD	$20.388
i3.large.search	2	15.25	1 x 475 NVMe SSD	$0.29
i3.xlarge.search	4	30.5	1 x 950 NVMe SSD	$0.579
i3.2xlarge.search	8	61	1 x 1900 NVMe SSD	$1.158
i3.4xlarge.search	16	122	2 x 1900 NVMe SSD	$2.317
i3.8xlarge.search	32	244	4 x 1900 NVMe SSD	$4.634
i3.16xlarge.search	64	488	8 x 1900 NVMe SSD	$9.267
im4gn.large.search	2	8	1 x 937 SSD	$0.317
im4gn.xlarge.search	4	16	1 x 1875 SSD	$0.633
im4gn.2xlarge.search	8	32	1 x 3750 SSD	$1.266
im4gn.4xlarge.search	16	64	1 x 7500 SSD	$2.532
im4gn.8xlarge.search	32	128	2 x 7500 SSD	$5.064
im4gn.16xlarge.search	64	256	4 x 7500 SSD	$10.128

OpenSearch Optimized - Current Generation	vCPU	Memory (GiB)	Instance Storage (GB)	Price Per hour
oi2.large.search	2	16	1 x 468 GB	$0.33847
oi2.xlarge.search	4	32	1 x 937 GB	$0.67694
oi2.2xlarge.search	8	64	1 x 1,875 GB	$1.35388
oi2.4xlarge.search	16	128	1 x 3,750 GB	$2.70776
oi2.8xlarge.search	32	256	2 x 3,750 GB	$5.41552
oi2.12xlarge.search	48	384	3 x 3,750 GB	$8.12328
oi2.16xlarge.search	64	512	4 x 3,750 GB	$10.83104
oi2.24xlarge.search	96	768	6 x 3,750 GB	$16.24656
om2.large.search	2	8	EBS Only	$0.176
om2.xlarge.search	4	16	EBS Only	$0.353
om2.2xlarge.search	8	32	EBS Only	$0.706
om2.4xlarge.search	16	64	EBS Only	$1.412
om2.8xlarge.search	32	128	EBS Only	$2.823
om2.12xlarge.search	48	192	EBS Only	$4.235
om2.16xlarge.search	64	256	EBS Only	$5.647
or2.medium.search	1	8	EBS Only	$0.117623
or2.large.search	2	16	EBS Only	$0.235246
or2.xlarge.search	4	32	EBS Only	$0.470492
or2.2xlarge.search	8	64	EBS Only	$0.940984
or2.4xlarge.search	16	128	EBS Only	$1.881968
or2.8xlarge.search	32	256	EBS Only	$3.763936
or2.12xlarge.search	48	384	EBS Only	$5.645904
or2.16xlarge.search	64	512	EBS Only	$7.527872

OR1 - Current Generation	vCPU	Memory (GiB)	Instance Storage (GB)	Price Per hour
or1.medium.search	1	8	EBS Only	$0.123
or1.large.search	2	16	EBS Only	$0.246
or1.xlarge.search	4	32	EBS Only	$0.491
or1.2xlarge.search	8	64	EBS Only	$0.983
or1.4xlarge.search	16	128	EBS Only	$1.965
or1.8xlarge.search	32	256	EBS Only	$3.931
or1.12xlarge.search	48	384	EBS Only	$5.896
or1.16xlarge.search	64	512	EBS Only	$7.85

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.

Reserved Instance pricing

With Amazon OpenSearch Service Reserved Instances, you can reserve instances for a one- or three-year term and realize significant savings on usage costs compared to On-Demand instances. Functionally, On-Demand and Reserved Instances are identical. From a billing perspective, however, Reserved Instances can provide significant cost savings.

Reserved Instances have three payment options:

- No Upfront Reserved Instances (NURI) – NURIs offer significant savings compared to On-Demand Instance pricing. You pay nothing upfront, but you commit to pay for the Reserved Instances over the course of a one- or three-year term. One-year NURIs offer a 31% discount and three-year NURIs offer a 48% discount. For T3.medium, one-year NURIs offer a 18% discount and three-year NURIs offer a 28% discount.
- Partial Upfront Reserved Instances (PURI) – PURIs offer higher savings than NURIs. This option requires you to pay a portion of the total cost upfront and pay the remainder of the cost on an hourly basis over the course of the term. One-year PURIs offer a 33% discount and three-year PURIs offer a 50% discount. For T3.medium, one-year PURIs offer a 20% discount and three-year PURIs offer a 30% discount.
- All Upfront Reserved Instances (AURI) – AURIs offer the highest savings of all of the Reserved Instance payment options. You pay for the entire reservation with one upfront payment and pay nothing on an hourly basis. One-year AURIs offer a 35% discount and three-year AURIs offer a 52% discount. For T3.medium, one-year AURIs offer a 22% discount and three-year AURIs offer a 32% discount.
- Reserved Instance pricing is specific to each region and depends on the payment option and term that you select. When you purchase a Reserved Instance, you will be charged for the associated upfront fees (if applicable) and hourly fees (if applicable), even if you are not currently running Amazon OpenSearch Service. To purchase Reserved Instances, visit the Reserved Instance tab in our Console.

Reserved Instance Plans for Amazon OpenSearch Service

Select a location type and region
Location Type: AWS Region
Region: US East (Ohio)

Select terms for your Reserved Instances
Term length: 1 year
Payment options: No Upfront

Select an instance type to view rates
Instance type: All

Viewing 206 available instances

‹ 1 2 3 4 5 6 7 … 11 ›

Instance name	RI upfront fee	RI monthly fees*	RI effective hourly rate**	Savings over On-Demand	On-Demand rate
t3.medium.search	$0.00	$43.80	$0.060	18%	$0.0730
m8g.medium.search	$0.00	$37.96	$0.052	31%	$0.0750
m8g.large.search	$0.00	$75.92	$0.104	31%	$0.1500
m8g.xlarge.search	$0.00	$150.38	$0.206	31%	$0.2990
m8g.2xlarge.search	$0.00	$300.76	$0.412	31%	$0.5970
m8g.4xlarge.search	$0.00	$600.79	$0.823	31%	$1.1930
m8g.8xlarge.search	$0.00	$1,201.58	$1.646	31%	$2.3850
m8g.12xlarge.search	$0.00	$1,801.64	$2.468	31%	$3.5770
m8g.16xlarge.search	$0.00	$2,402.43	$3.291	31%	$4.7690
m7g.medium.search	$0.00	$34.31	$0.047	31%	$0.0680
m7g.large.search	$0.00	$67.89	$0.093	31%	$0.1350
m7g.xlarge.search	$0.00	$136.51	$0.187	31%	$0.2710
m7g.2xlarge.search	$0.00	$273.02	$0.374	31%	$0.5420
m7g.4xlarge.search	$0.00	$546.04	$0.748	31%	$1.0840
m7g.8xlarge.search	$0.00	$1,091.35	$1.495	31%	$2.1670
m7g.12xlarge.search	$0.00	$1,637.39	$2.243	31%	$3.2510
m7g.16xlarge.search	$0.00	$2,183.43	$2.991	31%	$4.3350
m7i.large.search	$0.00	$81.03	$0.111	31%	$0.1610
m7i.xlarge.search	$0.00	$162.79	$0.223	31%	$0.3230
m7i.2xlarge.search	$0.00	$324.85	$0.445	31%	$0.6450

* This is the average monthly payment over the course of the Reserved Instance term. For each month, the actual monthly payment will equal the actual number of hours in that month multiplied by the hourly usage rate or number of seconds in that month multiplied by the hourly usage rate divided by 3600, depending on the RDS for SQL Server instance type you run. The hourly usage rate is equivalent to the total average monthly payments over the term of the Reserved Instance divided by the total number of hours (based on a 365 day year) over the term of the Reserved Instance.

** Effective hourly pricing helps you calculate the amount of money a Reserved Instance will save you over On-Demand pricing. When you purchase a Reserved Instance, you are billed for every hour during the entire Reserved Instance term you select, regardless of whether the instance is running. The effective hourly price shows the amortized hourly instance cost. This takes the total cost of the Reserved Instance over the entire term, including any upfront payment, and spreads it out over each hour of the Reserved Instance term.

Amazon OpenSearch Serverless

With Amazon OpenSearch Serverless, you only pay for the resources consumed by the workload. OpenSearch Serverless charges for compute and storage separately. The compute capacity is measured in OpenSearch Compute Units (OCUs). The number of OCUs corresponds directly to the CPU, memory, Amazon EBS storage, and I/O resources required to index data or run queries. One OCU comprises 6 GB of RAM, corresponding vCPU, GP3 storage (used to provide fast access to the most frequently accessed data), and data transfer to Amazon Simple Storage Service (S3).

You will see one entry for compute in OCU-hours with two labels: one for data indexing and the other for search. OCUs are billed on an hourly basis on a collection with per-second granularity. Data stored on Amazon S3 will be billed by gigabyte-months. You will be billed at least for a minimum of 2 OCUs (1 OCU [0.5 x 2] indexing includes primary and standby, and 1 OCU [0.5 x 2] search includes one replica for HA) for the first collection in an account. However, the minimum varies based on your data size and collections type in use.

Additionally, OpenSearch Serverless also offers a dev-test option, where you can launch a collection without redundant standby nodes. This deployment mode further cuts the cost in half, with 0.5 OCU for indexing and 0.5 OCU for search. All the data is stored in Amazon S3 in both modes offering the complete data durability. However, the minimum varies based on your data size and collections type in use.

All subsequent collections using the same encryption key can share those OCUs. Additional OCUs will be added based on compute instances and data needed to support your collections. You can configure a maximum number of OCUs per account to control costs.

A vector search collection cannot share OCUs with search and time series collections, even if the vector search collection uses the same KMS key as the search or time series collections. A new set of OCUs will be created for your first vector search collection. The OCUs of vector search collections are shared among the same KMS key vector collections.

Region:

Amazon OpenSearch Ingestion

With Amazon OpenSearch Ingestion, you only pay for the resources consumed by your workload. OpenSearch Ingestion charges for only the compute needed to ingest, transform, and route data in an OpenSearch Ingestion pipeline. The compute capacity is measured in OpenSearch Compute Units (OCUs). The number of OCUs corresponds directly to the CPU and memory required to ingest data or perform transformation on the data. One OCU comprises 15 GB of RAM and 2vCPU. You will see one entry for compute in OCU-hours with the label for data ingestion. OCUs are billed on an hourly basis with per-minute granularity. You can configure a minimum and maximum number of OCUs per pipeline to control cost. Furthermore, OpenSearch Ingestion allows you to completely pause a pipeline when not in use and no OCUs are consumed when a pipeline is paused.

Region:

Amazon OpenSearch Service Vector Ingestion

Amazon OpenSearch Service Vector Ingestion provides a simplified way to create Amazon OpenSearch Ingestion pipelines specifically for building vector databases on Amazon OpenSearch Service. You can optionally run vector auto-optimize jobs and use GPU-accelerated vector indexing to quickly optimize and build large-scale vector databases. There are no additional charges beyond the features you opt to use. Refer to the pricing for Amazon OpenSearch Ingestion, Amazon OpenSearch Service Vector Auto-Optimize Jobs, and Amazon OpenSearch Service Vector Index GPU-Acceleration for pricing respectively. Learn More

Data Source	OpenSearch Service Feature Pricing	Additional AWS Service Pricing
Amazon S3	• Amazon OpenSearch Ingestion • Amazon OpenSearch Service Auto-optimize Jobs (Optional) • Amazon OpenSearch Service Vector Index GPU-Acceleration (Optional)	Amazon S3 (read, store, and transfer costs) See Amazon S3 Pricing for more information

Amazon OpenSearch Service Vector Index GPU-Acceleration

With Amazon OpenSearch Service Vector Index GPU-Acceleration, you only pay for resources consumed during accelerated vector indexing workloads. The compute capacity is measured in OpenSearch Compute Units (OCUs)—Vector Acceleration. This OCU type comprises 6GB of GPU memory, 8 GiB of RAM, and 2 vCPUs. When you have GPU-acceleration enabled, and your indexing throughput exceeds a configurable threshold, vector indexing tasks are offloaded to these OCUs. The OCUs will scale with higher throughput, but you pay based on total OCU time. In other words, if your OCUs are doubled, the processing time is halved, so your total cost is the same as without the doubling of OCUs. Auto-scaling and warm pooling is fully managed but isn't added to your billed time. OCUs are billed hourly at the second granularity. Learn More about this feature.

Region:

Amazon OpenSearch Service Vector Auto-Optimize Jobs

With Amazon OpenSearch Service Vector Auto-Optimize Jobs, you pay a fixed rate for each job. Each job runs a hyperparameter optimization process. This involves sampling vectors from your dataset, launching parallel experiments to build and evaluate indexes using a variety of configurations, and generating a report with optimization recommendations. Learn More

Region:

Amazon OpenSearch Service S3 Vectors

Amazon S3 Vectors provides cost-effective, elastic, and durable vector storage at up to 90% lower costs for uploading, storing, and querying vectors. With S3 Vectors, you can power RAG and other semantic search workloads at scale, at a fraction of the cost for storage, requests, data uploaded, and data queried.

PUT cost
PUT pricing is based on logical GB of the vectors you upload, where each vector is the sum of its logical vector data, metadata, and key. You can upload multiple vectors in a single PUT request, maximizing upload throughput and minimizing upload costs.

Storage cost
Total storage is the sum of logical storage across your indexes, where the size of your storage is determined by the number of vectors you store and their size. Vector size is determined by:

1) Vector data: Each vector has a size determined by number of dimensions. Each dimension equals 4 bytes of storage per vector, so for example, a 1024-dimensional vector requires 4 KB of logical vector data.

2) Metadata: You can store both filterable and non-filterable metadata with your vector. Non-filterable metadata is used to return information as a part of query results while filterable metadata can also be used to filter query results.

3) Key: Each vector is associated with a key. Keys require 1 byte of storage per character.

Query cost
Query charges include a per API charge in addition to a $/TB charge based on the average vector size, including vector data, key, and filterable metadata, multiplied by the number of vectors in the index you're querying. As your vector index grows, data processing charges for query increase proportionally; however, at larger scale, you benefit from lower $/TB pricing above 100K in your vector index.

Vector pricing

Region:

Amazon OpenSearch Service Automatic Semantic Enrichment

With Automatic Semantic Enrichment, you pay only for the resources your workload consumes. The compute capacity is measured in OpenSearch Compute Units (OCUs). Each OCU directly correspond to the CPU, GPU, and memory required to generate semantic encodings for your specified data fields during data ingestion. Semantic Search OCUs scale automatically, without requiring you to pre-configure minimum or maximum values. OCUs are billed on an hourly basis with per-minute granularity. Each OCU processes approximately 45 MB (11.1 million input tokens) of English content or 30 MB (7.3 million input tokens) of multi-lingual content. When not in use, no Semantic Search OCUs are charged. There are no additional Semantic Search OCU charges during search operations or for data storage.

Region:

Amazon OpenSearch Service Direct Query

With Amazon OpenSearch Service Direct Query, you only pay for the resources consumed by your workload. OpenSearch Service Direct Query charges for only the compute needed to query your connected data source as well as if you decide to index data in OpenSearch Service. The compute capacity is measured in OpenSearch Compute Units (OCUs). The number of OCUs corresponds directly to the vCPU and memory required to query or maintain indexes based on the data. One OCU comprises 2vCPU and 8 GiB of RAM. You will see one entry for compute in OCU-hours with the label for direct query. OCUs are billed on an hourly basis with per-minute granularity. To limit costs, you can set a maximum number of OCU-hours that can be used within a billing period using AWS Budget. If no queries or indexing jobs are active, no OCUs are consumed.

Costs for Direct Query OCUs will be based on the data size and frequency with which the indexed data in OpenSearch is kept updated. Serverless indexing, search, and managed storage costs will vary based on the size of the data indexed for use in the dashboards and the retention period in OpenSearch.

Now with direct query you can analyze logs data stored in Amazon S3, Amazon CloudWatch Logs, and Amazon Security Lake.

Region:

Data source	OpenSearch Service Feature Pricing	Additional AWS service pricing
Amazon S3 Not available in US West (N. California), Asia Pacific (Osaka), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), and South America (Sao Paulo).	OpenSearch Direct Query On-demand instances Reserved Instances	Amazon S3 (read, store, and transfer costs). See Amazon S3 pricing for more information. Glue Data Catalog is used by OpenSearch Service to manage tables you are charged standard Glue Data Catalog rates. For details, visit the AWS Glue pricing page.
Amazon CloudWatch Logs - New	OpenSearch Direct Query OpenSearch Serverless (indexing, searching, storage) - minimum 1 OCU (0.5 indexing, 0.5 search).	Ingestion and storage in CloudWatch Logs. See CloudWatch Logs pricing for more information.
Amazon Security Lake - New Not available in US West (N. California), Asia Pacific (Osaka), Europe (Milan), and Europe (Spain).	OpenSearch Direct Query OpenSearch Serverless (indexing, searching, storage) - minimum 1 OCU (0.5 indexing, 0.5 search)	Amazon S3 (read, store, and transfer costs). See Amazon S3 pricing for more information. Glue Data Catalog is used by OpenSearch Service to manage tables you are charged standard Glue Data Catalog rates. For details, visit the AWS Glue pricing page. Ingestion and storage in Security Lake. See Security Lake pricing for more information.

CloudWatch Logs customers building OpenSearch dashboards for VPC, WAF, CloudTrail

CloudWatch Logs customers can build OpenSearch dashboards in CloudWatch on their VPC, WAF and CloudTrail logs by navigating to "Analyze with OpenSearch" in CloudWatch Logs Insights, selecting the dashboard type and the logs. Prior to this step, CloudWatch customers first need to configure an OpenSearch integration - this step creates an OpenSearch collection which is used for storing the metrics needed for the logs in OpenSearch. Direct Query is used to keep the metric data in OpenSearch updated, by querying the CloudWatch logs and updating the metrics in OpenSearch. For instructions on how to create these dashboards refer to the CloudWatch documentation.

Use case	OpenSearch Service Feature Pricing	Additional AWS service pricing
Amazon OpenSearch Dashboards within CloudWatch Logs Insights ("Analyze with OpenSearch")	OpenSearch Direct Query OpenSearch Serverless (indexing, searching, storage) - minimum 1 OCU (0.5 indexing, 0.5 search).	Ingestion and storage in CloudWatch Logs. See CloudWatch Logs pricing for more information.

Amazon EBS volume pricing (applies if you choose EBS volumes)

Amazon OpenSearch Service allows you to choose the type of Amazon EBS volume. If you choose Provisioned IOPS (SSD) storage, you will be charged for the storage as well as the throughput you provision. However, you will not be charged for the I/Os you consume.

Region:

UltraWarm and cold storage pricing

UltraWarm is an Amazon OpenSearch Service tier allowing you to economically retain large amounts of data while keeping the same interactive analysis experience. Learn more »

Cold storage is the lowest-cost storage tier for Amazon OpenSearch Service, which lets you detach and store infrequently accessed data in Amazon S3 and pay for compute only when you need it. Learn more »

Region:

Region:

Note: Managed storage pricing is applicable to UltraWarm data, cold storage data and OR1 remote store data.

Extended support costs

Amazon OpenSearch Service provides critical security fixes and operating system patches for engine versions that are in Extended Support, beyond the end of Standard Support, for a period of at least 12 months. This gives you more time to plan your upgrade to a more recent supported engine version. When you are running a version in Extended Support, you will be charged a flat fee/Normalized instance hour (NIH), in addition to the standard instance cost. NIH is computed as a factor of the instance size (e.g. medium, large), and number of instance hours. Please see the documentation for more information on Extended Support, calculating Extended Support charges, and the schedule for various versions. Please see below for Extended Support pricing per NIH.

REGION	PRICE/NIH
US East (N. Virginia)	$0.0065
US East (Ohio)	$0.0065
US West (N. California)	$0.0077
US West (Oregon)	$0.0065
Canada (Central)	$0.0072
Canada West (Calgary)	$0.0072
AWS GovCloud (US-East)	$0.0078
AWS GovCloud (US-West)	$0.0078
Africa (Cape Town)	$0.0086
Asia Pacific (Hong Kong)	$0.0087
Asia Pacific (Hyderabad)	$0.0070
Asia Pacific (Jakarta)	$0.0078
Asia Pacific (Malaysia)	$0.0074
Asia Pacific (Melbourne)	$0.0082
Asia Pacific (Mumbai)	$0.0070
Asia Pacific (New Zealand)	$0.0087
Asia Pacific (Osaka)	$0.0081
Asia Pacific (Seoul)	$0.0077
Asia Pacific (Singapore)	$0.0078
Asia Pacific (Sydney)	$0.0082
Asia Pacific (Taipei)	$0.0077
Asia Pacific (Thailand)	$0.0075
Asia Pacific (Tokyo)	$0.0081
Europe (Frankfurt)	$0.0076
Europe (Ireland)	$0.0072
Europe (London)	$0.0075
Europe (Milan)	$0.0076
Europe (Paris)	$0.0075
Europe (Stockholm)	$0.0068
Europe (Spain)	$0.0072
Europe (Zurich)	$0.0083
Israel (Tel Aviv)	$0.0076
Mexico (Central)	$0.0069
Middle East (Bahrain)	$0.0079
Middle East (UAE)	$0.0079
South America (Sao Paulo)	$0.0103

Standard AWS data transfer charges

You need to pay standard AWS data transfer charges for the data transferred in and out of Amazon OpenSearch Service. You will not be charged for the data transfer between nodes within your Amazon OpenSearch Service domain.

Free automated snapshot storage

Amazon OpenSearch Service offers added data durability through automated and manual cluster snapshots. The service provides storage space for automated snapshots free of charge for each Amazon OpenSearch Service domain, and retains these snapshots for a period of 14 days. Manual snapshots are stored in Amazon S3 and incur standard Amazon S3 usage charges. Data transfer for using the snapshots is free of charge.

Pricing examples

Pricing example 1

Let's say you are creating a new production-grade domain with three Availability Zones in the US East (N. Virginia) region with the following configuration: three data nodes of type r6g.xlarge.search with 500 GB EBS storage (General Purpose SSD) each, three cluster manager nodes of type c6g.large.search, and two UltraWarm nodes of type ultrawarm1.medium.search with 1.5 TB storage each. In one month, the eight instances on your domain (three data nodes, three cluster manager nodes, and two UltraWarm nodes) will run for 730 hours each, totaling 5,840 instance hours. Based on the price of these individual instance types, your total cost for instance hours is $1,328.60. Your total storage cost for the month includes the cost of EBS storage for the three data nodes and the cost of storage for the UltraWarm nodes. With 500 GB EBS storage on each of the three instances, you will be charged for 1,500 GB at $0.135 per GB per month, which amounts to an EBS storage cost of $202.50 for the month. For storage for the two UltraWarm nodes, you will be charged for 3 TB (1.5 TB per instance), which amounts to $73.728 (at $0.024 per GB per month).

Please see below for a breakdown of the monthly costs (USD) you are likely to incur.

Cost Type	Pricing	Usage	Cost per month
Instance Usage	r6g.xlarge.search = $0.335 per hour	3 instances (data nodes) * 730 hours in a month = 2,190 hours	2,190 hours * $0.335 = $733.65
	c6g.large.search = $0.113 per hour	3 instances (cluster manager nodes) * 730 hours in a month = 2,190 hours	2,190 hours * $0.113 = $247.47
	ultrawarm1.medium.search = $0.238 per hour	2 instances * 730 hours= 1,460 hours	1,460 hours * $0.238 = $347.48
Storage Cost	EBS General Purpose SSD (gp2) = $0.135 per GB per month	500 GB per node * 3 instances (data nodes) = 1,500 GB per month	1,500 GB * $0.135 = $202.5
	UltraWarm Managed Storage Cost = $0.024 per GB per month	1.5 TB * 2 instances = 3 TB per month	3072 GB * $0.024 = $73.728
		Total Cost	$1,604.83

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Pricing example 2

Amazon OpenSearch Service does not charge for Multi-AZ with Standby.

Scenario 1: Customer has a well configured domain with 3 cluster manager nodes, 6 data nodes and 3 copies of data. They will not see any impact of moving their domain to Multi-AZ with Standby. The before and after cost is the same.

ITEM	CONFIGURATION	COUNT	RATE	Total
Cluster Manager Nodes	m5.large.search	3	$0.14	$306.72
Data Nodes	m5.large.search	6	$0.14	$613.44
EBS Storage	GP2	512 GB	$0.14	$414.72
Total				**1,334.880**

Scenario 2: Customer has a domain that is undersized (more than 60% CPU or RAM utilisation) cluster manager. The customer will need to update their cluster manager node instance type before enabling Multi-AZ with Standby. In this case, for 10-20 data nodes, they need to use an instance type of c5.xlarge.search or above. Due to the change in cluster manager node size the customer will see some increase in cost as Multi-AZ with Standby enforces these best practices.

Table 2A Pre-Multi-AZ with Standby cluster with undersized cluster manager

ITEM	CONFIGURATION	COUNT	RATE	Total
Cluster Manager Nodes	m5.large.search	3	$0.14	$306.72
Data Nodes	r5.large.search	18	$0.37	$4,821.12
EBS Storage	GP2	1500 GB	$0.14	$3,645
Total				**$ 8,772.840**

Table 2B Post-Multi-AZ with Standby cluster with correct cluster manager selection

ITEM	CONFIGURATION	COUNT	RATE	Total
Cluster Manager Nodes	c5.xlarge.search	3	$0.25	$542.16
Data Nodes	r5.xlarge.search	18	$0.37	$4,821.12
EBS Storage	GP2	1500 GB	$0.14	$3,645
Total				**$ 9,008.280**

Scenario 3: Customer has a domain that follows old best practices and guidelines, thus has 2-copies of data (1 primary and 1 replica) and storage utilization is above 70%. Enabling Multi-AZ with Standby requires at least 3 or multiple of 3 copies of data. To accommodate the additional copy of data the customer would need an additional 40% of storage while still keeping 20% of free disk space. This means an additional 9 data nodes.

Table 3A Pre-Multi-AZ with Standby customer cluster had less than 20% free disk space and 2-copies of data

ITEM	CONFIGURATION	COUNT	RATE	Total
Cluster Manager Nodes	m5.large.search	3	$0.14	$306.72
Data Nodes	r5.xlarge.search	18	$0.37	$4,821.12
EBS Storage	GP2	1500 GB	$0.14	$3,645
Total				**$ 8,772.840**

Table 3B Post-Multi-AZ with Standby customer would add 9 additional data nodes to accommodate the 3rd copy of data

ITEM	CONFIGURATION	COUNT	RATE	Total
Cluster Manager Nodes	c5.xlarge.search	3	$0.25	$542.16
Data Nodes	r5.xlarge.search	27*	$0.37	7,231.68
EBS Storage	GP2	1500 GB	$0.14	$5,467.50
Total				**$ 13,241.340**

*In case the customer uses only 50-60% of the total storage, they would not need to add additional storage for the third copy and hence may not incur additional cost.

From the above examples, customers who follow best practices do not incur additional cost of enabling Multi-AZ with Standby on their domain.

Pricing Example 3

Let's say you are creating a new production-grade domain with three Availability Zones in the US East (N. Virginia) region with the following configuration: three data nodes of type or1.xlarge.search with 500 GB EBS storage (General Purpose SSD) each, three cluster manager nodes of type c6g.large.search, and three Ultrawarm nodes of type ultrawarm1.medium.search with 1.5 TB storage each. In one month, the nine instances on your domain (three data nodes, three cluster manager nodes, and three Ultrawarm nodes) will run for 720 hours each, totaling 5780 instance hours. Based on the price of these individual instance types, your total cost for instance hours is $1661.04. Your total storage cost for the month includes the cost of EBS storage for the three data nodes, local storage and the cost of storage for managed storage which is $292.728. With 500 GB EBS storage on each of the three instances, you will be charged for 1,500 GB at $0.122 per GB per month, which amounts to an EBS storage cost of $183.0 for the month. As data is written synchronously to Amazon S3 In the remote store, you will be charged for 1,500 GB at $0.024 per GB per month, which amounts to $36.0 For storage for the three Ultrawarm nodes, you will be charged for 3 TB (1.5 TB per instance), which amounts to $73.728 (at $0.024 per GB per month).

Please see below for a breakdown of the monthly costs (USD) you are likely to incur.

COST TYPE	PRICING	USAGE	COST PER MONTH
Instance Usage	or1.xlarge.search = $0.418 per hour	3 instances (data nodes) * 720 hours in a month = 2160 hours	2,160 hours * $0.418 = $902.88
	c6g.large.search = $0.113 per hour	3 instances (cluster manager nodes) * 720 hours in a month = 2,190 hours	2,160 hours * $0.113 = $244.08
	ultrawarm1.medium.search = $0.238 per hour	3 instances * 720 hours= 2160 hours	2160 hours * $0.238 = $514.08
Storage Cost	EBS General Purpose SSD (gp2) = $0.135 per GB per month	500 GB per node * 3 instances (data nodes) = 1,500 GB per month	1,500 GB * $0.122 = $183.00
	OR1 Managed Storage Cost = $0.024 per GB per month	500 GB per node * 3 instances (data nodes) = 1,500 GB per month	1,500 GB * $0.024 =$36.00
	Ultrawarm Managed Storage Cost = $0.024 per GB per month	1.5 TB * 2 instances = 3 TB per month	3072 GB * $0.024 = $73.728
Total Cost			$1,953.732

Pricing Example 4

OpenSearch Service Direct Query - Querying Amazon S3

Let's say you have an Amazon OpenSearch Service domain already setup in the US-East (N. Virginia) region and you created a new Direct Query data source using Amazon S3 to query to your VPC flow logs. You refer to your run book to kick off a series of queries which in its entirety use 2 OCU-hours to complete. You would be billed 2 OCUs * 0.24 OCU-hours * 24 hours/day = $11.52 / day to maintain your index for faster query performance.

Pricing Example 5

OpenSearch Service Direct Query - Acceleration with Amazon S3

Let's say you have an Amazon OpenSearch Service domain already setup in the US-East (N. Virginia) region and you have created a new Direct Query data source using Amazon S3 to query to your S3 Logs. You want to tune query performance so that your queries complete faster. You enable a materialized view on your S3 Logs table in AWS Glue Data Catalog when setting up the data source which runs every hour and uses 2 OCU-hours each time it runs. You would be billed 2 * 0.24 OCU-hours * 24 hours/day = $11.52 / day to maintain your index for faster query performance.

Pricing Example 6

Running an OpenSearch Dashboard from either OpenSearch UI or CloudWatch Logs

Let's say you installed an out-of-the-box VPC Flow log dashboard within the CloudWatch Logs console which ingested 1440 GB of data per month. In addition to your typical CloudWatch Logs costs to ingest and store the data, you would also see the following OpenSearch charges on your bill:

OpenSearch Compute Units (OCUs) are used for **a)** querying data in CloudWatch Logs, **b)** indexing and **c)** storing the data into OpenSearch Serverless Managed Storage, **d)** viewing the dashboards using Search and Query. The number of OCUs used depend on your data ingestion size as well as query frequency.

a) Querying data in CloudWatch Logs using Direct Query: OCUs used to query your data in CloudWatch Logs and move it to an OpenSearch Serverless collection to build the dashboard

- Uses .5 OCU-hours per query for two minutes per hour * 730 hours per month: .5 * 2/60 * 730 * $0.24 per OCU-hours = **$3 per month**

b) To index the data into the OpenSearch Service collection:

- Uses Indexing OCUs: 1 OCU-hours * 730 hours per month * $0.24 per OCU-hours = **$176 per month**

c) To store the data in the OpenSearch Serverless collection

- Uses **Managed Storage**: you ingest 1440 GB of data into the collection per month, which incurs a charge of $0.02 per GB per month = **$29 per month**

d) You search and filter your VPC Flow dashboard

- Uses **Search and Query** 1 OCU-hours * $0.24 per OCU-hours * 730 hours = **$176 per month**

The total monthly charges = $384

- $3 (Direct Query OCU)
- $176 (Serverless Indexing)
- $29 (Serverless Storage)
- $176 (Serverless Search)

Pricing Example 7

OpenSearch Service Automatic Semantic Search

Let's say you've set up an OpenSearch Service Serverless Search Collection in the US-East (N. Virginia) region. You want to create a new search index for your product catalog with three fields: Product ID, Product Size, and Product Description. You plan to enable automatic semantic search on the Product Description field for English content, while keeping the other two fields as regular lexical search. For this example, let's assume you've ingested 10 GB of data into the Product Description field. Generally, every 500 MB of data generates about 120 million input tokens during the automatic semantic enrichment encoding process. So, 10 GB would generate approximately 2.4 billion tokens. (Note: The actual number of tokens may vary depending on your specific workload characteristics.)

One Semantic Search OCU can process 11.1 million tokens for English contents. To process 2.4 billion tokens, you'd need about 216 Semantic Search OCU-hours (2.4 billion / 11.10 million). With a price of $0.24 per Semantic Search OCU-hour, the cost for processing 10 GB of data for automatic semantic search would be $51 (216 OCU-hours × $0.24/OCU-hour). There are no additional Semantic Search OCU charges during search operations or for data storage.

Pricing Example 8

S3 Vectors

You're building a RAG (Retrieval-Augmented Generation) workflow to provide accurate and relevant text responses to customers. Your architecture uses an OpenSearch cluster with OR2 large instance type and k-NN index using S3VectorEngine for efficient vector storage and retrieval. OpenSearch behind the scenes will use the S3Vector index for both vector data storage and query. It will use local compute and store for metadata storage and processing of filters, text search or hybrid search.

Consider you have a total of 100 million vectors so a k-NN index with a single shard can accommodate it with the S3Vector engine. Each of the data document has vector record with 1024 dimension and uses 4 bytes per dimension, 2KB of metadata containing other fields to perform filter, text or hybrid search. Let's also assume you perform 10% vector updates per month and around 1 million search requests per month without fetching vectors in the search result. This example uses pricing for the US East (N. Virginia) AWS Region.

**Apart from the costs listed below for S3Vector storage, put and query, OpenSearch may also make certain requests like CreateIndexes and ListIndexes for management of S3vector indexes which can incur some cost.*

Cost Type	Pricing	Usage	Cost Per Month	Totals
OpenSearch Compute - Data Node	om2.large.search = $0.153 per hour	2 instances x 730 hours per month = 1460 hours/month	$223.38	
OpenSearch Compute - Master Node	c6g.large.search = $0.113 per hour	3 instances x 730 hours per month = 2190 hours/month	$247.47	
EBS Storage - OpenSearch Data Node	General Purpose SSD (gp3) - Storage = $0.122 per GB / month	2KB (per record) x 100 million records x ((1+1 replica) * 1.45) (OpenSearch replica + indexing overhead) = 553 GB per month	$67.466	
Subtotal				$538.316
S3 Vector Storage	Storage = $0.06/GB per month	(4 bytes * 1024 dimensions) vector data/vector + 0.17 KB key/vector) * 100 million = 397.68 GB per month	$23.8608	
S3 Vector PUT request	$0.20 per GB	397.68 GB (1 full upload) first month	$79.536	
		39.76 GB (10% updates per month)	$7.952	
S3Vector Query Charge	Query API cost - $2.5/million queries	1 million queries	$2.5	
	Tier 1 query processing cost - $0.004/TB	100 thousand vectors * 4.17 KB/average vector * 1 million queries = 388.36 TB	$1.55344	
	Tier 2 query processing cost - $0.002/TB	150 thousand vectors * 4.17 KB/average vector * 1 million queries = 582.54 TB	$1.16508	
Subtotal				$116.56732
Total				$654.88332

FAQs

On-Demand Instance pricing

Q: How will I be charged and billed for my use of Amazon OpenSearch Service?

You pay only for what you use, and there are no minimum or setup fees. You are billed based on:

- Amazon OpenSearch Service instance hours – Based on the class (e.g. Standard Small, Large, Extra Large) of the Amazon OpenSearch Service instance consumed. Partial Amazon OpenSearch Service instance hours consumed are billed as full hours.
- Storage (per GB per month) – Amazon EBS Storage capacity you have provisioned to your Amazon OpenSearch Service instance. If you scale your provisioned storage capacity within the month, your bill will be pro-rated.
- Provisioned IOPS per month – Amazon EBS Provisioned IOPS rate, regardless of IOPS consumed (for Amazon OpenSearch Service Provisioned IOPS (SSD) Storage only).
- Data transfer – Regular AWS data transfer charges apply.

Please refer to the Amazon OpenSearch Service pricing page for detailed pricing information.

Q: When does billing of my Amazon OpenSearch Service domain begin and end?

Billing commences for an Amazon OpenSearch Service instance as soon as the instance is available. Billing continues until the Amazon OpenSearch Service instance terminates, which would occur upon deletion or in the event of instance failure.

Q: What defines billable instance hours for Amazon OpenSearch Service?

Amazon OpenSearch Service instance hours are billed for each hour your instance is running in an available state. If you no longer wish to be charged for your Amazon OpenSearch Service instance, you must delete the domain to avoid being billed for additional instance hours. Partial Amazon OpenSearch Service instance hours consumed are billed as full hours.

Reserved Instance pricing

Q: What is a Reserved Instance (RI)?

Amazon OpenSearch Service Reserved Instances give you the option to reserve an instance for a one- or three-year term, and in turn receive significant savings compared to the On-Demand Instance pricing.

Q: How are Reserved Instances different from On-Demand Instances?

Functionally, Reserved Instances and On-Demand Instances are exactly the same. The only difference is how your instance(s) are billed. With Reserved Instances, you purchase a one- or three-year reservation and receive a lower effective hourly usage rate (compared to On-Demand Instances) for the duration of the term. Unless you purchase Reserved Instances in a Region, all instances in that Region are billed at On-Demand Instance hourly rates.

Q: What are the payment options for Reserved Instances?

Three options are available:

- No Upfront Reserved Instances (NURI) – NURIs offer significant savings compared to On-Demand Instance prices. You pay nothing upfront, but commit to paying for the Reserved Instance over the course of the one- or three-year term.
- Partial Upfront Reserved Instances (PURI) – PURIs offer higher savings than NURIs. You pay for a portion of the total cost upfront, and the remainder over the course of the term. This option balances payments between upfront and hourly.
- All Upfront Reserved Instances (AURI) – AURIs offer the highest savings of all of the Reserved Instance payment options. You pay for the entire reservation with one upfront payment, and pay nothing on an hourly basis.

Q: How do I purchase Reserved Instances?

You purchase Reserved Instances in the "Reserved Instance" section of the AWS Management Console for Amazon OpenSearch Service. Alternatively, you can use the Amazon OpenSearch Service API or AWS Command Line Interface to list and purchase Reserved Instances.

Once you purchase a Reserved Instance, you can use it just like an On-Demand Instance. As long as the purchased reservation is active, Amazon OpenSearch Service applies the reduced hourly rate to it.

Q: Are Reserved Instances specific to an Availability Zone?

Amazon OpenSearch Service Reserved Instances are purchased for a Region rather than for a specific Availability Zone. After you purchase a Reserved Instance for a Region, the discount applies to matching usage in any Availability Zone within that Region.

Q: How many Reserved Instances can I purchase?

You can procure up to 100 Reserved Instances in a single purchase. If you need more Reserved Instances, you need to place more purchase requests.

Q: Do Reserved Instances include a capacity reservation?

Amazon OpenSearch Service Reserved Instances are purchased for a Region rather than for a specific Availability Zone. Hence, they are not capacity reservations. Even if capacity is limited in one Availability Zone, Reserved Instances can still be purchased in the Region. The discount applies to matching usage in any Availability Zone within that Region.

Q: What if I have an existing On-Demand Instance that I'd like to convert to a Reserved Instance?

Simply purchase a Reserved Instance of the same type as the existing On-Demand Instance. If the Reserved Instance purchase succeeds, Amazon OpenSearch Service automatically applies the new hourly usage charge for the duration of your reservation.

Q: If I sign up for a Reserved Instance, when does the term begin? What happens to my Reserved Instance when the term ends?

Pricing changes and the reservation term associated with your Reserved Instance become active after your request is received and the payment authorization is processed. If the one-time payment (if applicable) or new hourly rate (if applicable) cannot be successfully authorized by the next billing period, the discounted price does not take effect and your term does not begin. You can follow the status of your reservation using the console, API, or CLI. For more details, refer our documentation.

When your Reserved Instance term expires, your Reserved Instance reverts to the appropriate On-Demand Instance hourly usage rate for your instance class and Region.

Q: How do I control which instances are billed at the Reserved Instance rate?

When computing your bill, our system automatically applies your reservation(s) such that all eligible instances are charged at the lower hourly Reserved Instance rate. Amazon OpenSearch Service does not distinguish between On-Demand and Reserved Instances while operating Amazon OpenSearch Service domains.

Q: If I scale my Reserved Instance up or down, what happens to my reservation?

Each Reserved Instance is associated with the instance type and Region that you picked for it. If you change the instance type in the Region where you have the Reserved Instance, you will not receive discounted pricing. You must ensure that your reservation matches the instance type you plan to use. For more details, please refer to Amazon OpenSearch Service Reserved Instance Documentation.

Q: Can I move a Reserved Instance from one Region or Availability Zone to another?

Each Reserved Instance is associated with a specific Region, which is fixed for the lifetime of the reservation and cannot be changed. Each Reserved Instance can, however, be used in any of the Availability Zones within the associated Region.

Q: Are Reserved Instances applicable if use multiple Availability Zones?

A Reserved Instance is for an AWS Region and can be used in any of the Availability Zones in that Region.

Q: Are Reserved Instances available for both cluster manager nodes and Data nodes?

Yes. Amazon OpenSearch Service does not differentiate between cluster manager and Data nodes when applying Reserved Instance discounts.

Q: Can I cancel a Reserved Instance?

No, you cannot cancel your Reserved Instances, and the one-time payment (if applicable) and discounted hourly usage rate (if applicable) are not refundable. Also, you cannot transfer the Reserved Instance to another account. You must pay for every hour during your Reserved Instance's term, regardless of your usage.

Q: If I purchase a Reserved Instance from a payer (primary) account, is it accessible to all the member accounts?

Yes. Reserved Instance pricing and application follows the policies defined for consolidated billing on AWS. More details can be found here.

Q: If AWS reduces prices of On-Demand Instances for Amazon OpenSearch Service, will the amount I pay for my current Reserved Instances change?

No. The price you pay for already-purchased Reserved Instances does not change for the term of the reservation.

Q: Can I sell my Reserved Instances on the Reserved Instance Marketplace?

No. Reserved Instances purchased on Amazon OpenSearch Service cannot be sold on the Reserved Instance Marketplace.

Q: Are volume discounts available for Reserved Instance purchase?

No. We do not offer volume discounts for Amazon OpenSearch Service Reserved Instances.

Additional pricing resources

AWS Pricing Calculator
Easily calculate your monthly costs with AWS

Get pricing assistance
Contact AWS specialists to get a personalized quote

Learn how to get started with Amazon OpenSearch Service

Visit the getting started page

Monitor your RI utilization?
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