Create domain Info

Name

Domain name

moodle-serach

The name must start with a lowercase letter and must be between 3 and 28 characters. Valid characters are a-z (lowercase only), 0-9, and - (hyphen).

Custom endpoint

Each Amazon OpenSearch Service domain has an auto-generated endpoint, but you can also add a custom endpoint using AWS Certificate Manager (ACM). Learn more

☐ Enable custom endpoint

Deployment type

Deployment types specify common settings for your use case. After creating the domain, you can change these settings at any time.

Deployment type

- ○ Production — Domain intended for production workloads spanning multiple AZ and dedicated master.
- ◉ Development and testing — Domain intended for development or testing use outside of a production environment.
- ○ Custom — Choose settings from all available options.

Version

2.3 (latest)

Certain features require specific OpenSearch/Elasticsearch versions. We recommend choosing the latest version. Learn more

☐ Include older versions

☑ Enable compatibility mode

Certain Elasticsearch OSS clients, such as Logstash, check the cluster version before connecting. Compatibility mode sets OpenSearch to report its version as 7.10 so that these clients continue to work with the service. Learn more

Auto-Tune

Auto-Tune analyzes cluster performance over time and suggests optimizations based on your workload. You can choose to deploy these changes or rollback to the default OpenSearch settings at any time. Learn more

ⓘ The T2 or T3 instance types do not support Auto-Tune.

Data nodes

Select an instance type that corresponds to the compute, memory, and storage needs of your application. Consider the size of your indices, number of shards and replicas, type of queries, and volume of requests. Learn more

Availability Zones

- ○ 3-AZ — Recommended for production workloads with higher availability requirements.
- ○ 2-AZ — Suitable for production workloads.
- ◉ 1-AZ

Instance type

t3.small.search

t3.small.search instance type needs EBS storage.

The AWS Free Tier includes usage of up to 750 hours per month of t3.small instance usage and up to 20 GiB of General Purpose EBS storage. Learn more

☐ Include previous generation instance types

⚠ T3 instance types are suitable only for testing and development purposes. For production workloads, we recommend using latest generation instance types - general purpose, memory optimized, compute optimized, or storage optimized.

Number of nodes

1

The number must be between 1 and 10.

Storage type

Choose a storage type for your data nodes.

EBS

EBS volume type

EBS volumes enable you to independently scale the storage resources of your domain from its compute resources. EBS volumes are most useful for domains with very large data sets, but without the need for large compute resources.

General Purpose (SSD) - gp3

☐ Include previous generation EBS volume types

EBS storage size per node

10

EBS storage size per node in GiB. Minimum 10 GiB and maximum 100 GiB.

▼ Advanced settings

Total Provisioned IOPS Info

3000 — 3000 IOPS included in storage price.

Minimum 3000 IOPS and maximum 11800 IOPS. The IOPS to volume size ratio should not exceed 500:1.

Total Provisioned Throughput (MiB/s) Info

125 — 125 MiB/s included in storage price.

Minimum 125 MiB/s and maximum 260 MiB/s. The Throughput to IOPS ratio should not exceed 1:4.

Warm and cold data storage

Enable UltraWarm to store even more data on Amazon OpenSearch Service. You can economically retain large amounts of data while keeping the same interactive analysis experience. Learn more

Enable cold storage to further reduce storage costs for data you rarely access. To view data in cold storage, you must first move it to warm storage. Learn more

ⓘ UltraWarm data nodes feature is not supported by the data instance type you selected.

Dedicated master nodes

Dedicated master nodes improve the stability of your domain. For production domains, three is recommended. Learn more

☐ Enable dedicated master nodes

Snapshot configuration

Amazon OpenSearch Service takes an automated snapshot of your cluster. Learn more

Frequency

Hourly

ⓘ Elasticsearch version 5.3 and above have hourly snapshots only.

Network

Choose internet or VPC access. To enable VPC access, we use private IP addresses from your VPC, which provides an inherent layer of security. You control network access within your VPC using security groups. Optionally, you can add an additional layer of security by applying a restrictive access policy. Internet endpoints are publicly accessible. If you select public access, you should secure your domain with an access policy that only allows specific users or IP addresses to access the domain.

Network

- ○ VPC access (recommended)
- ◉ Public access

Fine-grained access control

Fine-grained access control provides numerous features to help you keep your data secure. Features include document-level security, field-level security, read-only users, and OpenSearch Dashboards/Kibana tenants. Fine-grained access control requires a master user. Learn more

☑ Enable fine-grained access control

Master user

- ○ Set IAM ARN as master user
- ◉ Create master user

Master username

search_admin

Master usernames must be between 1 and 16 characters.

Master password

••••••••••

Master password must be at least 8 characters long and contain at least one uppercase letter, one lowercase letter, one number, and one special character.

Confirm master password

••••••••••

SAML authentication for OpenSearch Dashboards/Kibana

SAML authentication lets you use your existing identity provider for single sign-on for OpenSearch Dashboards/Kibana. Learn more

☐ Prepare SAML authentication

Amazon Cognito authentication

Enable to use Amazon Cognito authentication for OpenSearch Dashboards/Kibana. Amazon Cognito supports a variety of identity providers for username-password authentication. Learn more

☐ Enable Amazon Cognito authentication

Access policy

Access policies control whether a request is accepted or rejected when it reaches the Amazon OpenSearch Service domain. If you specify an account, user, or role in this policy, you must sign your requests. Learn more

Domain access policy

- ○ Only use fine-grained access control — Allow open access to the domain.
- ◉ Do not set domain level access policy — All requests to the domain will be denied.
- ○ Configure domain level access policy

Encryption

ⓘ You enabled fine-grained access control, which requires HTTPS, node-to-node encryption, and encryption at rest to be enabled.

Encryption

☑ Require HTTPS for all traffic to the domain — When enabled, your domain only accepts requests over HTTPS.

☑ Node-to-node encryption — This setting provides an additional layer of security. Each Amazon OpenSearch domain operates within a secure, dedicated VPC. Node-to-node encryption enables TLS encryption for all communications within that VPC. After you enable node-to-node encryption, you can't disable it. This setting requires Elasticsearch version 6.7 and above.

☑ Enable encryption of data at rest — Encryption at rest secures the indices and automated snapshots associated with the domain. After you enable encryption of data at rest, you can't disable it. This setting requires Elasticsearch version 6.7 and above

Choose an AWS KMS key

This key will be used to encrypt and decrypt your resources. Learn more

- ◉ Use AWS owned key — A key that AWS owns and manages for you.
- ○ Choose a different AWS KMS key (advanced) — Choose a key you have permission to use, or create a new one.

Tags - *optional*

You can add tags to describe your domain. A tag consists of a case-sensitive key-value pair. For example, you can define a tag with a key-value pair of Environment Name-Development. Learn More

No tags associated with this domain

Add new tag

You can add 50 more tags.

▶ Advanced cluster settings - *optional*

Cancel Create