

MongoDB 연결

free tier 클러스터 생성

https://www.mongodb.com/cloud/atlas/register?utm_source=google&utm_campaign=search_gs_pl_evergreen_atlas_core-high-int_prosp-brand_gic-null_ww-tier1_ps-all_desktop_eng_lead&utm_term=atlas%20mongodb&utm_medium=cpc_paid_search&utm_ad=p&utm_ad_campaign_id=22031347569&adgroup=173739098393&cmp=22031347569&gad_source=1&gad_campaignid=22031347569

Deploy your cluster

Use a template below or set up advanced configuration options. You can also edit these configuration options once the cluster is created.

M10

\$0.10/hour

Dedicated cluster for development environments and low-traffic applications.

STORAGE

10 GB

RAM

2 GB

vCPU

2 vCPUs

Flex

From \$0.011/hour

Up to \$30/month

For development and testing, with on-demand burst capacity for unpredictable traffic.

STORAGE

5 GB

RAM

Shared

vCPU

Shared

Free

For learning and exploring MongoDB in a cloud environment.

STORAGE

512 MB

RAM

Shared

vCPU

Shared



Your free cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime.

Configurations

Name

You cannot change the name once the cluster is created.

Cluster0

Provider



Region



Seoul (ap-northeast-2) ★



★ Recommended ⓘ Low carbon emissions ⓘ

Tag (optional)

Create your first tag to categorize and label your resources; more tags can be added later. [Learn more](#).

Select or enter key

: Select or enter value

Quick setup

Automate security setup ⓘ

Preload sample dataset ⓘ

- username, password 설정

Overview 동욱's ORG - 2025-09-08 > PROJECT 0

DATABASE

Clusters

SERVICES

Atlas Search

Stream Processing

Triggers

Migration

Data Federation

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

New On Atlas 5

Goto

Security Quickstart

To access data stored in Atlas, you'll need to create users and set up network security controls. [Learn more about security setup](#)

How would you like to authenticate your connection?

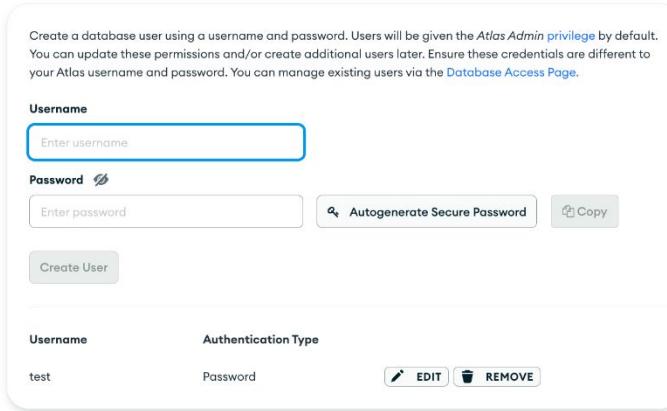
Your first user will have permission to read and write any data in your project.

Create a database user using a username and password. Users will be given the [Atlas Admin privilege](#) by default. You can update these permissions and/or create additional users later. Ensure these credentials are different to your Atlas username and password. You can manage existing users via the [Database Access Page](#).

Username

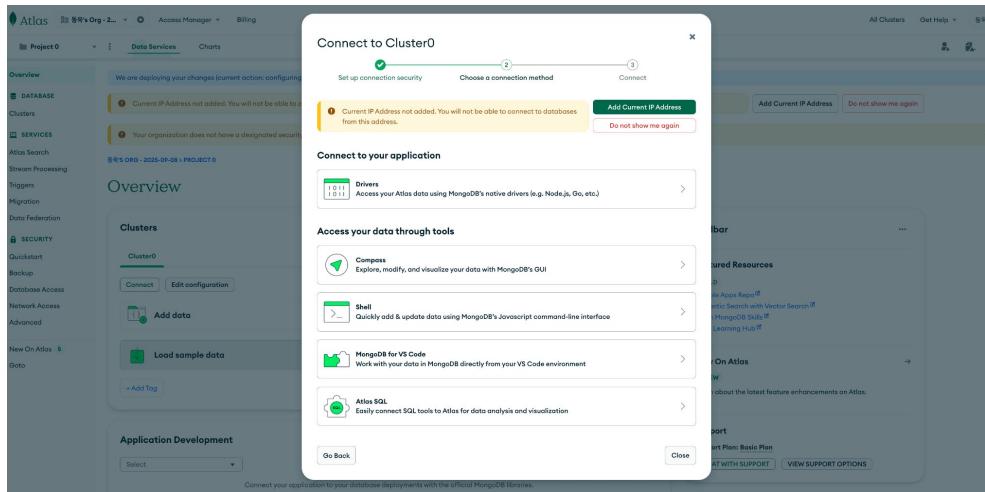
Password 

Username	Authentication Type
test	Password



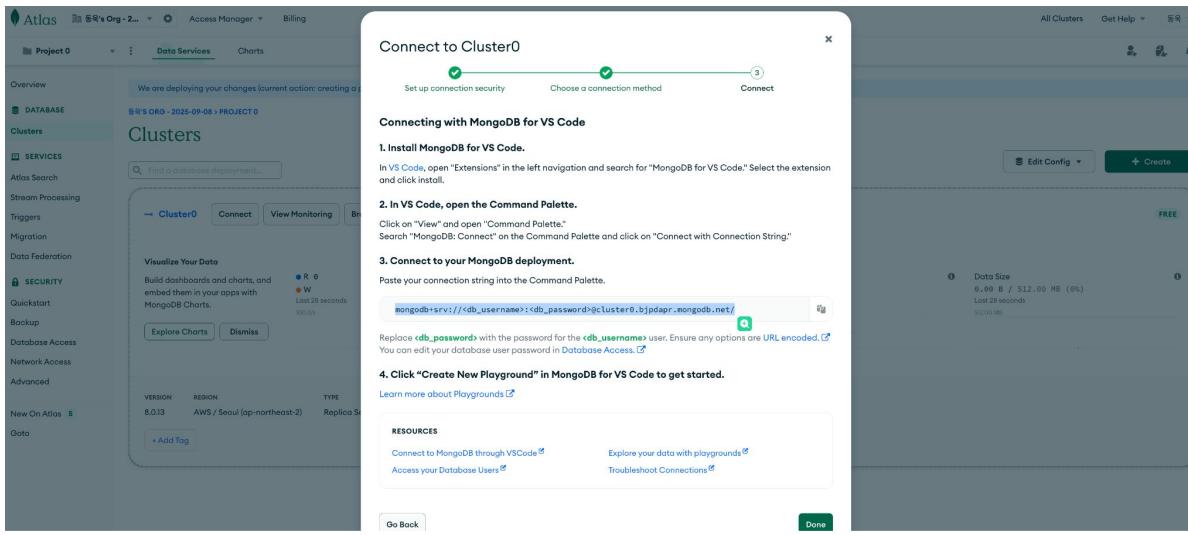
free tier 클러스터 생성

- MongoDB for VScode 클릭



free tier 클러스터 생성

- db url 복사



free tier 클러스터 생성

- pymongo client 코드 부분에 복사 및, username, password 입력

```
# MongoDB 연결
```

```
client = MongoClient('mongodb+srv://test:test1234@cluster0.hvz1li1.mongodb.net/')
```

free tier 클러스터 생성

- create 클릭

The screenshot shows the MongoDB Atlas web interface. At the top, there's a navigation bar with the 'Atlas' logo, a dropdown for '동욱's Org - 2...', a gear icon for 'Access Manager', and tabs for 'Billing', 'All Clusters', 'Get Help', and a language dropdown. Below the navigation is a secondary navigation bar with 'Project 0', 'Data Services' (which is selected), and 'Charts'. On the left, a sidebar lists 'Overview', 'DATABASE' (selected), 'Clusters' (which is also selected and highlighted in green), 'SERVICES', 'Atlas Search', and 'Stream Processing'. A message box at the top right says 'Current IP Address not added. You will not be able to connect to databases from this address.' with buttons 'Add Current IP Address' and 'Do not show me again'. The main content area is titled 'Clusters' and contains a search bar 'Find a database deployment...'. At the bottom right of this area are buttons for 'Edit Config' and '+ Create'.

클러스터 생성 후 연결 안될 때

- db는 연결됐는데 데이터 insert 등이 안될 수 있음

```
-----  
ServerSelectionTimeoutError                         Traceback (most recent call last)  
Cell In[5], line 29  
      1 # 상품 데이터 삽입  
      2 products_data = [  
      3     {  
      4         "product_id": "prod001",  
      (...)    26     }  
      27 ]  
--> 29 products_collection.insert_many(products_data)  
 30 print("상품 데이터 삽입 완료")  
  
File ~/miniconda3/envs/py312/lib/python3.12/site-packages/pymongo/_csot.py:125, in apply.<locals>.csot_wrapper(self, *args, **kwargs)  
 123     with _TimeoutContext(timeout):  
 124         return func(self, *args, **kwargs)  
--> 125 return func(self, *args, **kwargs)  
  
File ~/miniconda3/envs/py312/lib/python3.12/site-packages/pymongo/synchronous/collection.py:975, in Collection.insert_many(self, documents, ordered, bypass_document_validation, session, comment)  
 973 blk = _Bulk(self, ordered, bypass_document_validation, comment=comment)  
 974 blk.ops = list(gen())  
--> 975 blk.execute(write_concern, session, _Op.INSERT)  
 976 return InsertManyResult(inserted_ids, write_concern.acknowledged)
```

클러스터 생성 후 연결 안될 때

- 클러스터 페이지 - 왼쪽에서 Network Access 클릭 - 현재 접속 IP 허용

The screenshot shows the MongoDB Atlas Network Access page for a cluster named "PROJECT 0". The left sidebar includes options like Overview, DATABASE, Clusters, SERVICES (which is currently selected), Atlas Search, Stream Processing, Triggers, Migration, Data Federation, SECURITY, Quickstart, Backup, Database Access, and Network Access (which is also highlighted).

The main content area is titled "Network Access" and shows the "IP Access List". It displays two entries:

IP Address	Comment	Status	Actions
[REDACTED] 32	Created as part of the Auto Setup process	Inactive	<button>EDIT</button> <button>DELETE</button>
[REDACTED] (includes your current IP address)		Inactive	<button>EDIT</button> <button>DELETE</button>

Two yellow warning boxes are present:

- "Current IP Address not added. You will not be able to connect to databases from this address." with buttons "Add Current IP Address" and "Do not show me again".
- "You will only be able to connect to your cluster from the following list of IP Addresses:".