

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&cg_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	RAM	vCPU
10 GB	2 GB	2 vCPUs

☐ **Flex**

From \$0.011/hour
Up to \$30/month

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

STORAGE	RAM	vCPU
5 GB	Shared	Shared

☒ **Free**

For learning and exploring MongoDB in a cloud environment.

STORAGE	RAM	vCPU
512 MB	Shared	Shared

✓ **Free forever!** 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.

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.](#)

:

Quick setup

- ☒ Automate security setup ⓘ
- ☒ Preload sample dataset ⓘ

- username, password 설정

Overview

DATABASE

Clusters

SERVICES

Atlas Search

Stream Processing

Triggers

Migration

Data Federation

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

New On Atlas 5

Goto

동작'S ORG - 2025-09-08 > PROJECT 0

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.

Username and Password

Certificate

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

Enter username

Password

Enter password

Autogenerate Secure Password

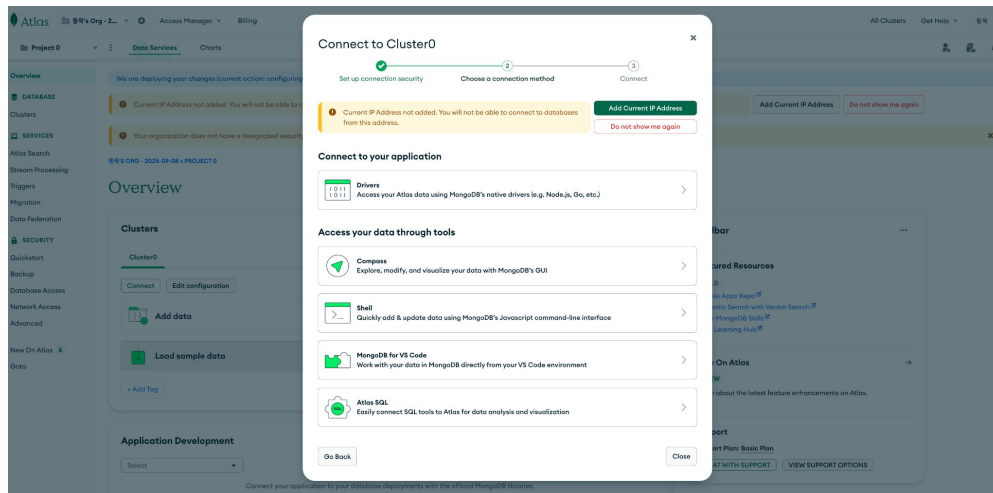
Copy

Create User

Username	Authentication Type	
test	Password	<div>EDIT REMOVE</div>

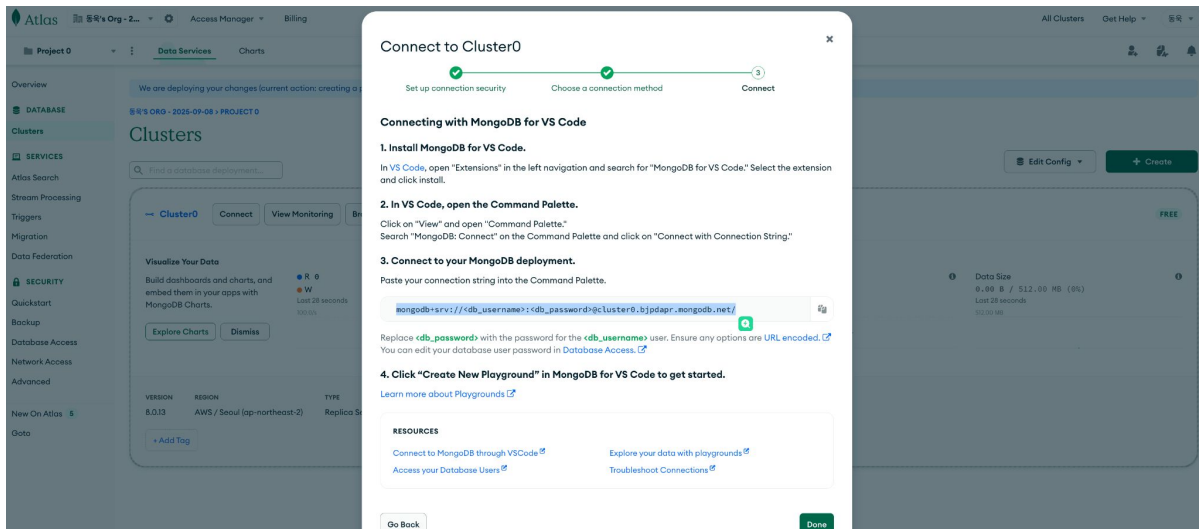
free tier 클러스터 생성

- MongoDB for VSCode 클릭



free tier 클러스터 생성

- db url 복사



free tier 클러스터 생성

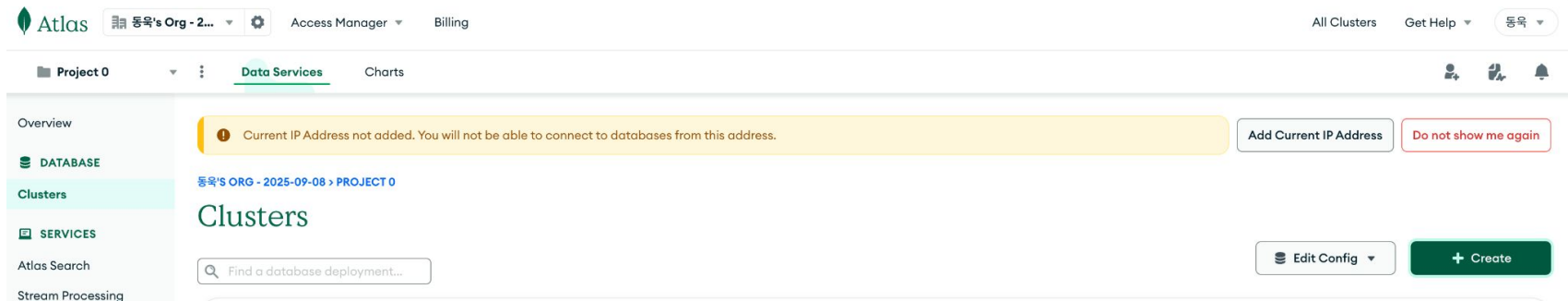
- pymongo client 코드 부분에 복사 및, username, password 입력

```
# MongoDB 연결
```

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

free tier 클러스터 생성

- create 클릭



The screenshot shows the Databricks Atlas interface. At the top, there's a navigation bar with the Atlas logo, a dropdown menu for '동욱's Org - 2...', and links for 'Access Manager' and 'Billing'. On the right, there are links for 'All Clusters', 'Get Help', and a '동욱' dropdown. Below this is a secondary navigation bar with 'Project 0', 'Data Services' (highlighted), and 'Charts'. On the far right of this bar are icons for users, documents, and notifications. The left sidebar contains a menu with 'Overview', 'DATABASE', 'Clusters' (highlighted), 'SERVICES', 'Atlas Search', and 'Stream Processing'. The main content area features a yellow warning banner: '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'. Below the banner, it says '동욱'S ORG - 2025-09-08 > PROJECT 0' and 'Clusters'. There's a search bar with the placeholder 'Find a database deployment...'. At the bottom right, there are buttons for 'Edit Config' and a green '+ Create' button.

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",
      5         (...)      26     }
      6 ]
--> 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 Atlas web interface. The top navigation bar includes the Atlas logo, a dropdown for '동작's Org - 2...', 'Access Manager', and 'Billing'. On the right, there are links for 'All Clusters', 'Get Help', and a user profile dropdown. The main navigation sidebar on the left lists various sections: Overview, DATABASE, Clusters, SERVICES, Atlas Search, Stream Processing, Triggers, Migration, Data Federation, SECURITY, Quickstart, Backup, Database Access, and Network Access (which is highlighted). The main content area is titled 'Network Access' and shows the 'IP Access List' tab. A yellow warning box states: 'Current IP Address not added. You will not be able to connect to databases from this address.' Below this, another yellow box says: 'You will only be able to connect to your cluster from the following list of IP Addresses:'. A table lists the IP addresses and their status. The first row shows an IP address ending in '32' with the comment 'Created as part of the Auto Setup process' and an 'Inactive' status. The second row shows an IP address with the comment '(includes your current IP address)' and an 'Inactive' status. Both rows have 'EDIT' and 'DELETE' buttons. A '+ADD IP ADDRESS' button is in the top right, and 'Add Current IP Address' and 'Do not show me again' buttons are below the first warning box.

Atlas 동작's Org - 2... Access Manager Billing All Clusters Get Help 동작

Project 0 Data Services Charts

Overview
DATABASE
Clusters
SERVICES
Atlas Search
Stream Processing
Triggers
Migration
Data Federation
SECURITY
Quickstart
Backup
Database Access
Network Access

동작's ORG - 2025-09-08 > PROJECT 0

Network Access

IP Access List Peering Private Endpoint

+ADD IP ADDRESS

1 Current IP Address not added. You will not be able to connect to databases from this address. Add Current IP Address Do not show me again

1 You will only be able to connect to your cluster from the following list of IP Addresses:

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