

My Courses > M001



Course Ends:

61d:11hr:27m

Oct 18, 17:00 UTC














Chapter Labs Due:

61d:11hr:27m

Oct 18, 17:00 UTC

Chapter 1: What is Mongo... ▼

Lessons

-  Lecture: Welcome to M001
-  Lecture: What is the MongoDB Database?
-  Quiz: What is MongoDB?
-  Lecture: What is a Document in MongoDB?
-  Quiz 1: What is the MongoDB Database?
-  Quiz 2: What is a Document?
-  Quiz 3: What is a Document?
-  Lecture: What is MongoDB Atlas?
-  Quiz: What is Atlas?
-  Lab: Create and Deploy an Atlas Cluster
-  Lecture: Atlas User Interface Overview
-  Lecture: Introducing the In-Browser IDE
-  Lab: Connect to your Atlas Cluster

Next Chapter



Course Overview



View Discussion

Chapter 1: What is MongoDB?

Lab: Create and Deploy an Atlas Cluster

Problem:

An Atlas account has already been created using your MongoDB University credentials.

[Follow this link](#) and select **Sign in** at the bottom right corner.

Get Started with MongoDB Atlas

Create a free tier cluster with our fully managed cloud database service in minutes. You'll be using MongoDB Atlas within MongoDB University courses as you complete specific exercises.

Create your free account

Your Company (optional)

How are you using MongoDB? ✓

Your Work Email

First Name

Last Name

Password

8 characters minimum

☐ I agree to the [terms of service](#) and [privacy policy](#).

Get started

Already have an account? [Sign in.](#)

The following 10 easy steps will guide you in creating:

- an Atlas Organization named MDBU
- a Project within MDBU called M001
- a Free Tier Atlas cluster named Sandbox

1. Select **Create an Organization**

If you already have an organization, create a [new organization from this menu](#)

Organizations



You don't belong to any Organizations

To get started, create an Organization. Within an Organization you can create projects, invite users, and setup a billing account.

[Create an Organization](#)

Learn more about what Organization can do in our docs.
[Organizations and Projects](#)

2. Name your Organization MDBU. Make sure that your cloud service is *Atlas*, then hit **Next**.

[← Organizations](#)

Create Organization

Name and Service

Add Members

Next

Name Your Organization

MDBU

Select Cloud Service

Features

☒ MongoDB Atlas

☐ Cloud Manager

3. Hit **Create Organization**

[← Organizations](#)

Create Organization

✓ Name and Service

Add Members

[← Go Back](#)

Create Organization

Add Members and Set Permissions

Invite new or existing users via email address...

4. Hit **New Project**

Projects

[New Project](#)

Project Name

Clusters

Users

Teams

Alerts

Actions

5. Name your Project M001 and hit **Next**

Create a Project

Name Your Project

Add Members

[Next](#)

Name Your Project

Project names have to be unique within the organization (and other restrictions).

[Cancel](#)[Next](#)

6. Select **Create Project**

Create a Project

✓ Name Your Project

Add Members

[← Go Back](#)[Create Project](#)

Add Members and Set Permissions

7. Select **Build a Database**

Database Deployments

 Find a database deployment...




Create a database

Choose your cloud provider, region, and specs.

Build a Database

Once your database is up and running, live migrate an existing MongoDB database into Atlas with our [Live Migration Service](#).

8. Select the right-most option that is **FREE** and hit **Create**




MONGODB ATLAS

Deploy a cloud database

Experience the best of MongoDB on AWS, Azure, and Google Cloud. Choose a deployment option to get started.

PREVIEW




Serverless

For serverless applications that aren't critical with variable traffic. Minimal configuration required.

- ✓ Pay only for the operations you run
- ✓ Resources scale seamlessly to meet your workload
- ✓ Always-on security and backups

Create

Starting at
\$0.30/1M reads



Dedicated


For production applications with sophisticated workload requirements. Advanced configuration controls.

- ✓ Network isolation and fine-grained access controls
- ✓ On-demand performance advice
- ✓ Multi-region and multi-cloud options available

Create

Starting at
\$0.08/hr*
*estimated cost \$56.94/month

FREE



Shared

For learning and exploring MongoDB in a cloud environment. Basic configuration options.

- ✓ No credit card required to start
- ✓ Explore with sample datasets
- ✓ Upgrade to dedicated clusters for full functionality

Create

Starting at
FREE

9. Select the region that is geographically closest to your location. On the bottom of the page change the cluster name to **Sandbox**. Create the cluster.

This step might take a minute or two to complete.

[CLUSTERS](#) > CREATE A SHARED CLUSTER

Create a Shared Cluster

Welcome to MongoDB Atlas! We've recommended some of our most popular options, but feel free to customize your cluster to your needs. For more information, check our [documentation](#).

PREVIEW Serverless

Dedicated

FREE Shared

For learning and exploring MongoDB in a sandbox environment. Basic configuration controls.

No credit card required to start. Upgrade to dedicated clusters for full functionality.
Explore with sample datasets. Limit of one free cluster per project.

Cloud Provider & Region

AWS, N. Virginia (us-east-1) ▾

aws

Google Cloud

Azure

★ Recommended region ⓘ

NORTH AMERICA

🇺🇸 Oregon (us-west-2) ★

🇺🇸 N. Virginia (us-east-1) ★

EUROPE

🇮🇪 Ireland (eu-west-1) ★

🇩🇪 Frankfurt (eu-central-1) ★

ASIA

🇮🇳 Mumbai (ap-south-1)

🇸🇬 Singapore (ap-southeast-1) ★

AUSTRALIA

🇦🇺 Sydney (ap-southeast-2) ★

Cluster Tier

M0 Sandbox (Shared RAM, 512 MB Storage) ^{Encrypted} ^

Additional Settings

MongoDB 4.4, No Backup ^

Cluster Name

Sandbox ▾

One time only: once your cluster is created, you won't be able to change its name.

Sandbox

Cluster names can only contain ASCII letters, numbers, and hyphens.

FREE

Free forever! Your M0 cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime.

[Back](#)

Create Cluster

10. Now that you have an Atlas cluster you need to grant access to your IP Address and create a Database User.

- You should see **Security Quickstart** now.
- With **Username and Password** selected, create a user for your database with the following username and password:
 - username: m001-student
 - password: m001-mongodb-basics

Click on **Create User**

MDBU > M001

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 *read and write to any database* privilege by default. You can update these permissions and/or create additional users later. Ensure these credentials are different to your MongoDB Cloud username and password. You can manage existing users via the [Database Access Page](#).

Username Password 

m001-student


m001-mongodb-basi

Create User

- Select the option on the left **My Local Environment** and add an entry under **Add entries to your IP Access List**. Add your local IP address 0.0.0.0/0 and click **Add Entry**


2 Where would you like to connect from?

Enable access for any network(s) that need to read and write data to your cluster.



My Local Environment

Use this to add network IP addresses to the IP Access List. This can be modified at any time.



Cloud Environment

Use this to configure network access between Atlas and your cloud or on-premise environment. Specifically, set up IP Access Lists, Network Peering, and Private Endpoints.

ADVANCED

Add entries to your IP Access List

Only an IP address you add to your Access List will be able to connect to your project's clusters.

| IP Address | Description | | |
|----------------------|------------------------------|----------------------|--------------------------------------|
| <div>0.0.0.0/0</div> | <div>Enter description</div> | <div>Add Entry</div> | <div>Add My Current IP Address</div> |

Allowing access from anywhere is **not* a good security practice. Production clusters should not have this enabled and should limit network access.

- Finally, click **Finish and Close** at the bottom.

Load the Sample Dataset

Select the "... " option in the cluster menu -> choose the **"Load Sample Dataset"** option, then confirm your choice.

Database Deployments

Sandbox

Connect

View Monitoring

Browse Collections

...

● R 0

● W

100.0/s

Connections 0

Last 11 minutes

100.0

● In 0.0 B/s

● Out

100.0 B/s

Edit Configuration

Command Line Tools

Load Sample Dataset

Terminate

VERSION

REGION

CLUSTER TIER

TYPE

BACKUPS

LIN

4.4.8

AWS / N. Virginia (us-east-1)

M0 Sandbox (General)

Replica Set - 3 nodes

Inactive

No

Load Sample Dataset

We've created a sample dataset to help you test features on Sandbox.

[Sample Dataset](#)

Size: ~350 MB

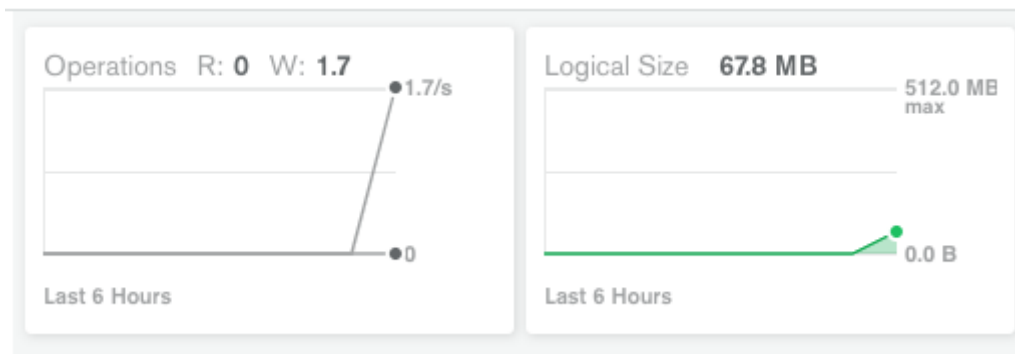
Please confirm that you want to load this sample dataset.

Cancel

Load Sample Dataset

When the dataset is loaded the graph labeled **"Logical Size"** on the right side of the screen should go up and display the size of the dataset that is above zero an

below 512 MB. Your graph may look different than the picture below.



Did the logical size of the dataset and the number of operations increase in your cluster view *similar* to how it did in this image?

Attempts Remaining: ∞ Unlimited Attempts

Choose the best answer:

☐ yes

☐ no

Submit

[Proceed to next section](#)