

NOSQL DATABASE

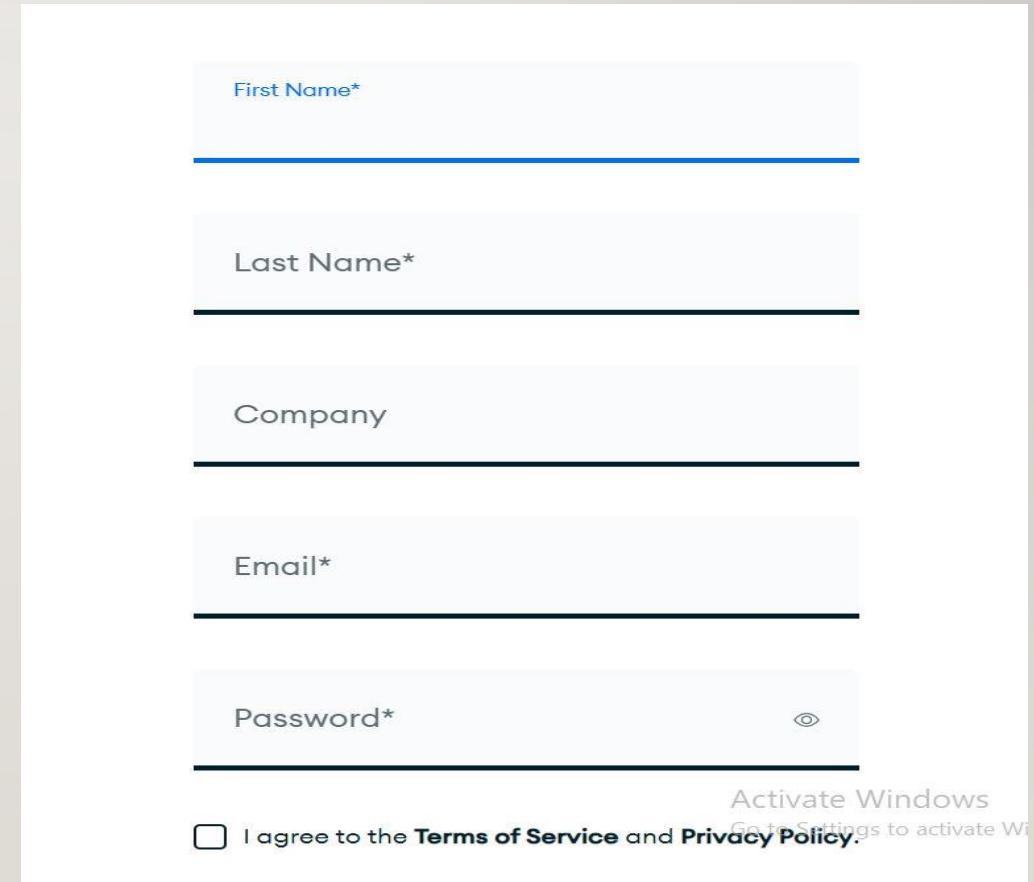
MONGODB DAY 4

Lecture 4 Agenda

- **Objective :**
 - Cloud Database Using Mongo Atlas

Mongo Atlas – Registration

<https://www.mongodb.com/cloud/atlas/register>



The image shows a registration form for MongoDB Atlas. It consists of five input fields: 'First Name*' (blue border), 'Last Name*' (black border), 'Company' (black border), 'Email*' (black border), and 'Password*' (black border). Below the password field is an 'Eye' icon for password visibility. At the bottom left is a checkbox for accepting terms and conditions, and at the bottom right are links for activating Windows and viewing privacy policy.

First Name*

Last Name*

Company

Email*

Password*

I agree to the [Terms of Service](#) and [Privacy Policy](#).

Activate Windows

Go to Settings to activate Wi

Mongo Atlas – Create Account

 MongoDB.

Deploy your database

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

M10	\$0.08/hour	
For production applications with sophisticated workload requirements.		
STORAGE 10 GB	RAM 2 GB	vCPU 2 vCPUs
ACCESS ADVANCED FEATURES		

SERVERLESS	\$0.10/1M reads	
For application development and testing, or workloads with variable traffic. View pricing details		
STORAGE Up to 1 TB	RAM Auto-scale	vCPU Auto-scale
MINIMAL MANAGEMENT		

M0	FREE	
For learning and exploring MongoDB in a cloud environment.		
STORAGE 512 MB	RAM Shared	vCPU Shared
ACCESS BASIC FEATURES		

\$0.08/hour

Create

[Access Advanced Configuration](#)

Pay-as-you-go! You will be billed hourly and can terminate your cluster anytime. Excludes variable [data transfer](#), [backup](#), and taxes.

[I'll deploy my database later](#)

Activate Windows
Go to Settings to

Mongo Atlas - Create User

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

Username and Password

Certificate

i We autogenerated a username and password for your first database user in this project using your MongoDB Cloud registration information. **X**

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.

Username

mbrahimelsalamony

Password 

 Autogenerate Secure Password

 Copy

Create User

Mongo Atlas – Deploy Environment & Allowed IPs [Network Access]

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

Info: We added your current IP address. You can connect to your cluster locally from this device. **X**

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. You can manage existing IP entries via the [Network Access Page](#).

IP Address	Description
Enter IP Address	Enter description
Add My Current IP Address	
Add Entry	

IP Access List	Description
45.240.162.26/32	My IP Address
	EDIT REMOVE

Mongo Atlas - Cluster

CLUSTERS > CREATE A SHARED CLUSTER

Create a Shared Cluster

Serverless Dedicated **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, Bahrain (me-south-1) ^

 AWS  Google Cloud  Azure

★ Recommended region i ⚡ Dedicated tier region i

NORTH AMERICA **EUROPE** **AUSTRALIA**

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

Cancel **Create Cluster**

Mongo Atlas - Connect

Database Deployments

Find a database deployment...

Cluster0 Connect View Monitoring Browse Collections ...

FREE SHARED

Visualize Your Data

Build dashboards and charts, and embed them in your apps with MongoDB Charts.

Dismiss Explore Charts

R 0 W 0 Last 22 minutes 100.0/s

Connections 0 Last 27 minutes 1.0

In 5.5 B/s Out 11.4 B/s Last 22 minutes 56.5 B/s

Data Size 0.0 B / 512.0 MB (0%) Last 27 minutes 512.0 MB

VERSION	REGION	CLUSTER TIER	TYPE	BACKUPS	LINKED APP SERVICES	ATLAS SQL	ATLAS SEARCH
6.0.9	AWS / N. Virginia (us-east-1)	M0 Sandbox (General)	Replica Set - 3 nodes	Inactive	None Linked	Connect	Create Index

Mongo Atlas - Connect

Connect to Cluster0

1 Set up connection security 2 Choose a connection method 3 Connect

Connect to your application

 Drivers
Access your Atlas data using MongoDB's native drivers (e.g. Node.js, Go, etc.) >

Access your data through tools

 Compass
Explore, modify, and visualize your data with MongoDB's GUI >

 Shell
Quickly add & update data using MongoDB's Javascript command-line interface >

 MongoDB for VS Code
Work with your data in MongoDB directly from your VS Code environment >

 Atlas SQL
Easily connect SQL tools to Atlas for data analysis and visualization >

Mongo Atlas - Connect

Connect to Cluster0

Set up connection security Choose a connection method Connect

Connecting with MongoDB Compass

I don't have MongoDB Compass installed I have MongoDB Compass installed

1. Choose your version of Compass

1.12 or later

See your Compass version in "About Compass"

2. Copy the connection string, then open MongoDB Compass

mongodb+srv://mibrahimelsalamony:<password>@cluster0.uyyxljg.mongodb.net/

Replace <password> with the password for the **mibrahimelsalamony** user.
When entering your password, make sure that any special characters are **URL encoded**.

RESOURCES

[Connect with Compass](#) [Access your Database Users](#)

[Import and Export Data](#) [Troubleshoot Connections](#)

Go Back Close

Mongo Atlas - Connect

The screenshot shows the MongoDB Compass interface. On the left, there's a sidebar with a 'New connection +' button highlighted by an orange box. Below it are sections for 'Saved connections' and 'Recents', each listing several connection entries. The main area is titled 'New Connection' with the sub-instruction 'Connect to a MongoDB deployment'. It features an 'Edit Connection String' toggle switch. The 'URI' field contains the value 'mongodb+srv://mbrahimelsalamony:*****@cluster0.uuyxlg.mongodb.net/'. Below the URI is a section titled 'Advanced Connection Options' with tabs for General, Authentication (which is selected and highlighted with a green border), TLS/SSL, Proxy/SSH, In-Use Encryption, and Advanced. Under 'Authentication Method', the 'Username/Password' option is selected and highlighted with a green border. The 'Username' field contains 'mbrahimelsalamony' and the 'Password' field contains a masked password. At the bottom are 'Save', 'Save & Connect', and a large 'Connect' button, which is also highlighted with an orange border.

Mongo Atlas – Create Database

The screenshot shows the Mongo Atlas interface for creating a database. The top navigation bar includes 'Project 0', 'Data Services' (which is selected), 'App Services', 'Charts', and user icons. Below this, the 'DEPLOYMENT' section is visible, followed by the 'Database' section where 'Cluster0' is selected. The 'Collections' tab is active, showing 'DATABASES: 10' and 'COLLECTIONS: 24'. A prominent button '+ Create Database' is available. The main content area displays the 'Clinics.Physician' collection, which has a storage size of 36KB, logical data size of 191B, total documents of 6, and index total size of 36KB. It includes tabs for 'Find', 'Indexes', 'Schema Anti-Patterns', 'Aggregation', and 'Search Indexes'. A search bar 'Search Namespaces' is present. At the bottom, there are 'Filter' and 'Type a query: { field: 'value' }' fields, along with 'Reset', 'Apply', and 'More Options' buttons. The query results show two documents:

```
_id: ObjectId('64f20277e873bc8313ca664d')  
  
_id: "1,"
```

Questions ?



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