MongoDB Tutorial

In this tutorial we will cover the basics of MongoDB

Documents

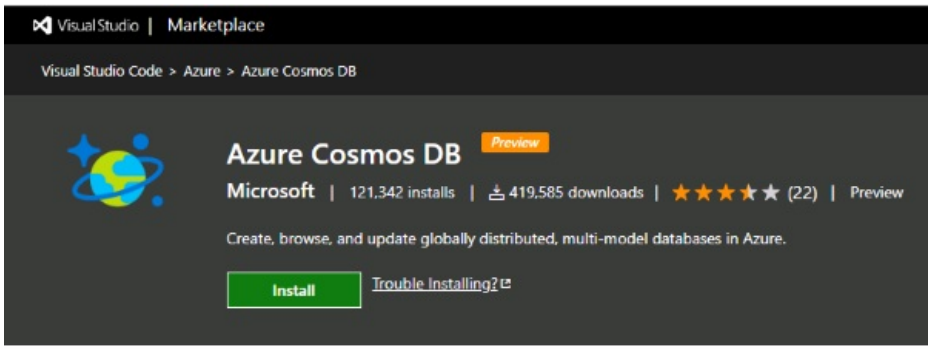
- This README file in PDF format here
- Slides in PDF format here
- Syllabus in PDF format here

Pre-requirements

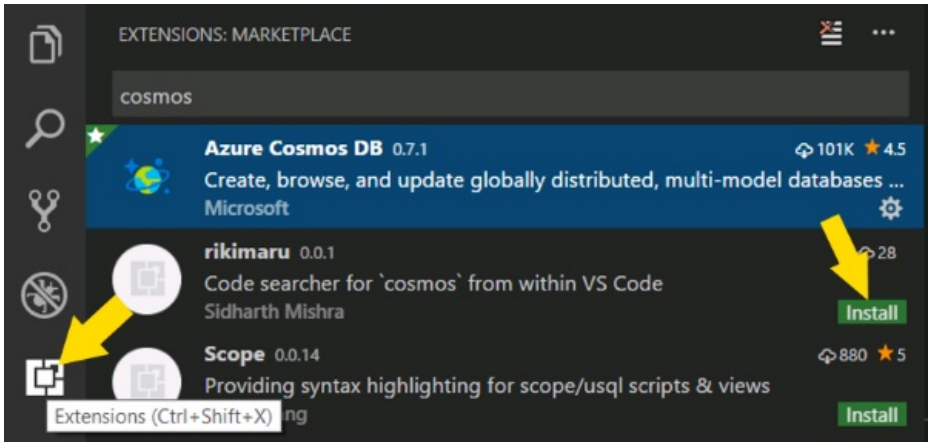
- NodeJS
- MongoDB
- Visual Studio Code

Using Visual Studio Code

- Download Visual Studio Code
- Open Visual Studio Code once it installed
- Install the Azure Cosmos DB Extension

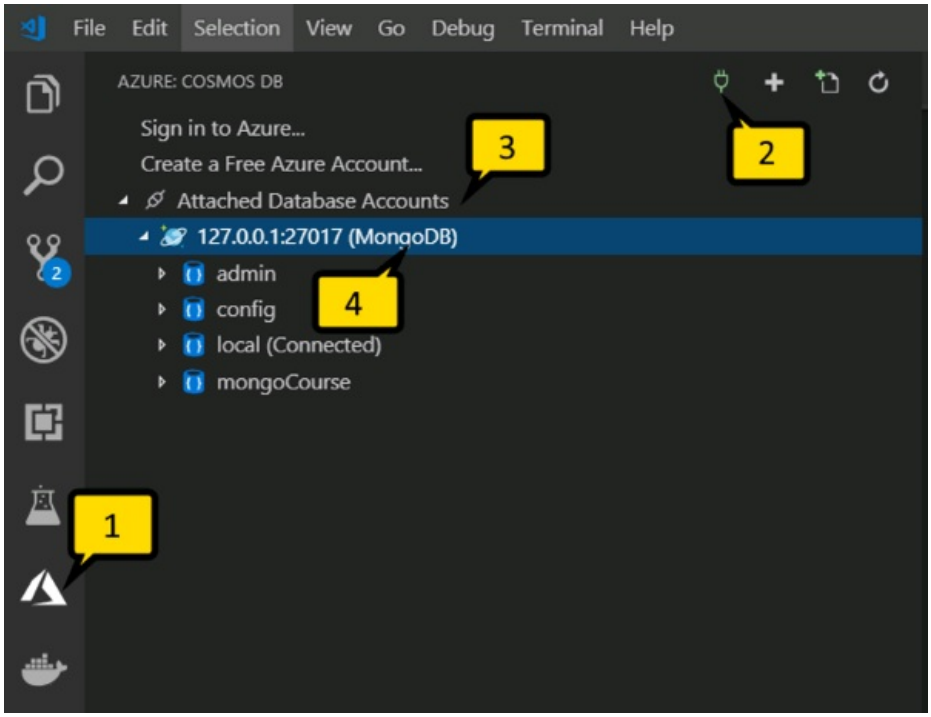


- The easiest way to install it is to use the Extension icon in the Visual Studio Code



Connecting to MongoDB

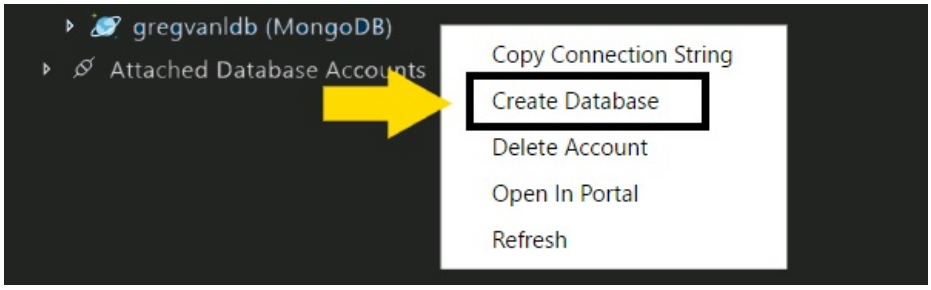
- We will use the Azure Cosmos DB to connect to the MongoDB instance
- Click on the Azure Cosmos DB icon and click on the relevant sections as shown in the image below
- If the MongoDB is running you will be able to connect and you should see the default Databases



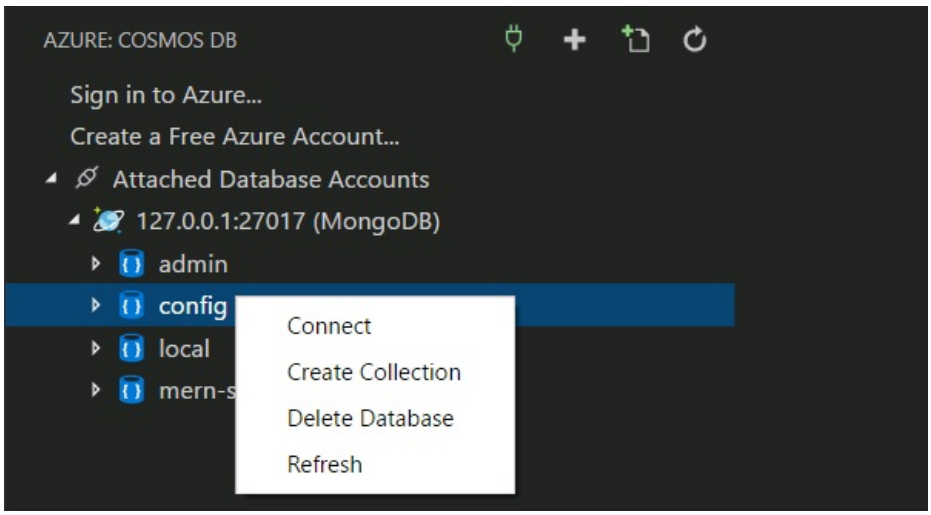
Adding content to MongoDB Database

Adding document(s) from within the GUI

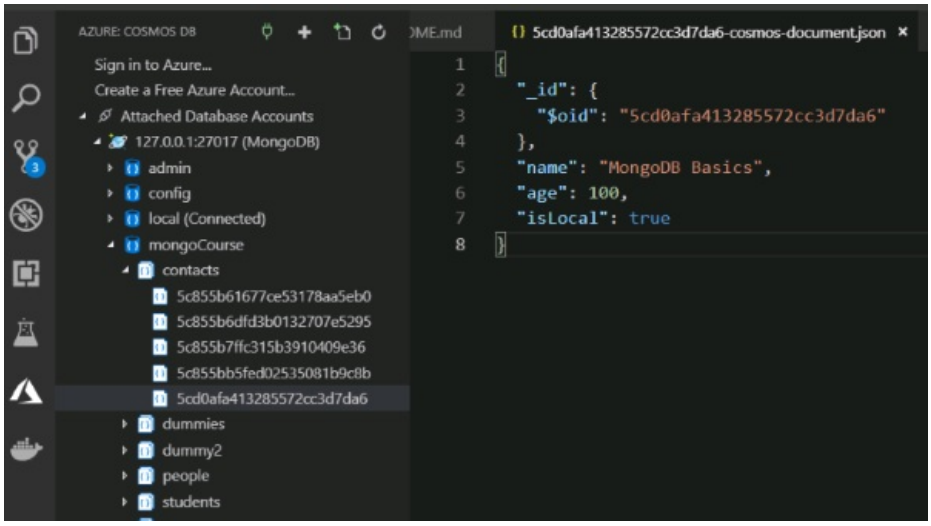
- Under the CosmosDB connection from the previous step right click on the connection string
- Create new Database



- Create new collection in your new database



- Last step is to create document
- Right clicking as before and choose **Create Document** and entering JSON key values



Adding content with code

- In this tutorial we will use NodeJs & mongoose

Creating Nodejs Project

- Create new folder anywhere on your computer
- Click on the **File > Open Folder** and choose your folder
- Open the integrated terminal `Ctrl` + `` ` ``
- In the terminal create a new NodeJS project `npm init -f`
- This command will initialize the new NodeJS project by creating and writing `package.json` file
- Install the required packages for this tutorial using npm `npm i mongoose`
- Now we can start and write some code to work with the MongoDB
- The code & Demos are in `src` folder