Labs

Lab 1: Azure Cosmos DB for MongoDB vCore

This document explains how to create databases and collections in a Cosmos DB for MongoDB vCore account

Create a Cosmos DB for MongoDB vCore account

Here are the steps to create a Cosmos DB for MongoDB vCore account more information at [Quickstart: Create a new cluster - Azure Cosmos DB for MongoDB vCore | Microsoft Learn](#)

1. In the Azure portal, search for and select Azure Cosmos DB.
2. In the Azure Cosmos DB page, select Add.
3. On the Basics tab, enter the required information for the new account. Select version 6
4. Select Review + create. Review the account settings, and then select Create.
5. The account creation takes a few minutes. Wait for the portal to display the confirmation

Connect to an existing Cosmos DB for MongoDB vCore account

1. In the search bar, type 'Azure Cosmos DB for MongoDB'
2. Click on the instance that was just created e.g. '`cosmos-mongo-vcore-2024'`
3. Click on 'Quick Start' in the menu
4. Click on the 'Open MongoDB (vCore) shell button
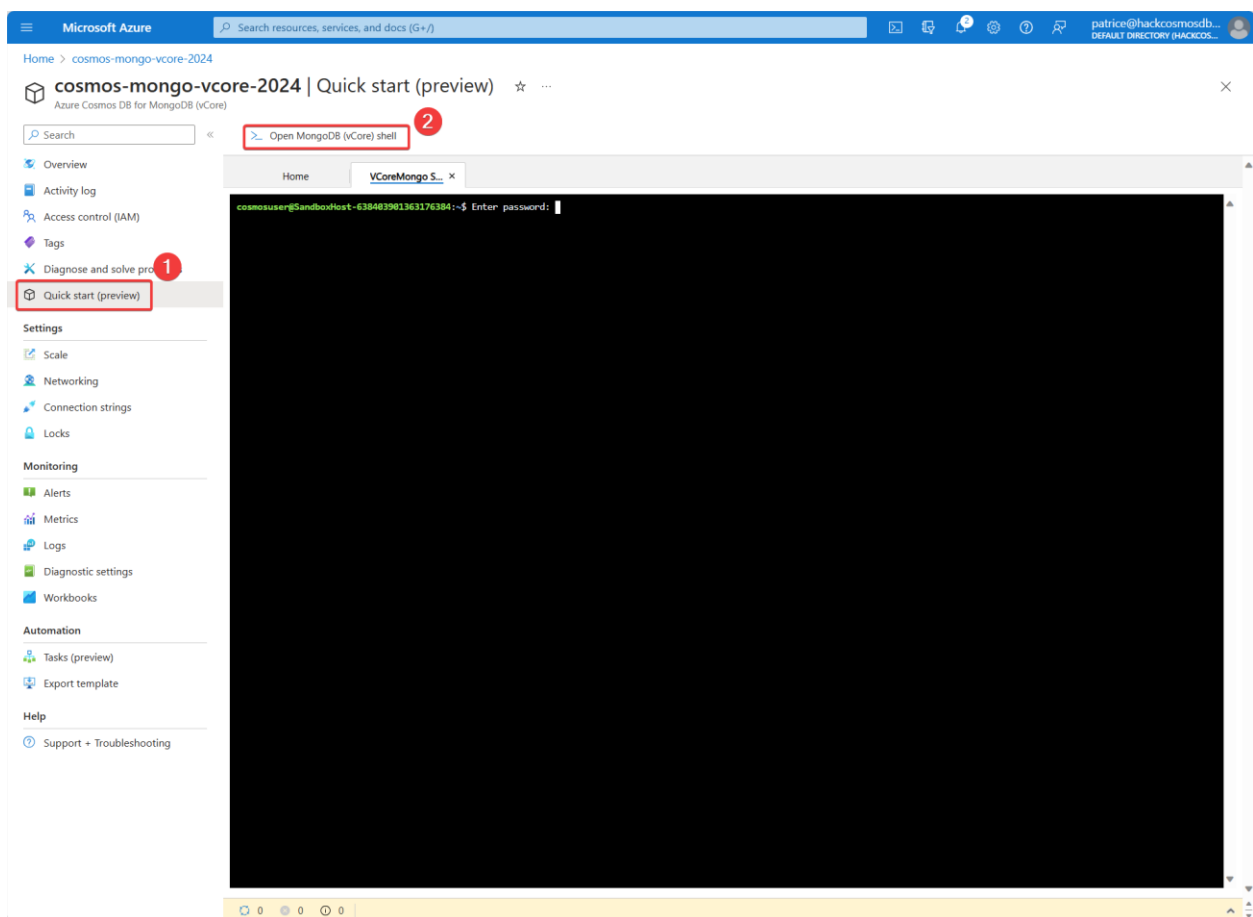
Create databases and tables

In the shell, type the following commands:

Enter password: `Password1234`

```
use database_user01
```

> 1) db.createCollection("products_user01")
>
> 2) db.runCommand({createIndexes: 'products_user01',indexes: [{name: 'products_user01_vectorindex',key: {"vectorContent": "cosmosSearch"},cosmosSearchOptions: {kind: 'vector-ivf', numLists: 100, similarity: 'COS', dimensions: 1536}}]});

Verify that the collection was properly created:

```
show collections
```

repeat steps 1-2 for the collection customers naming the colored parameter accordingly
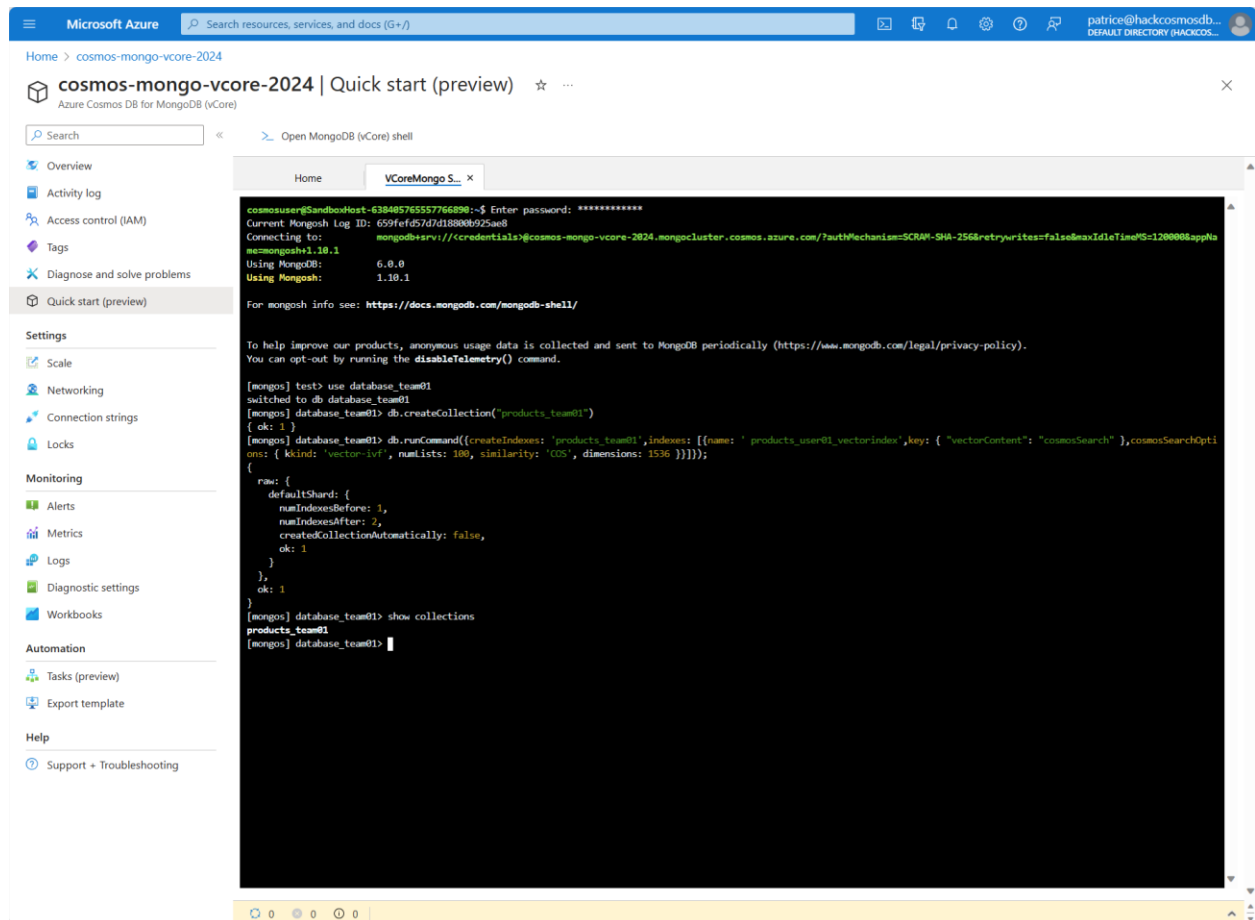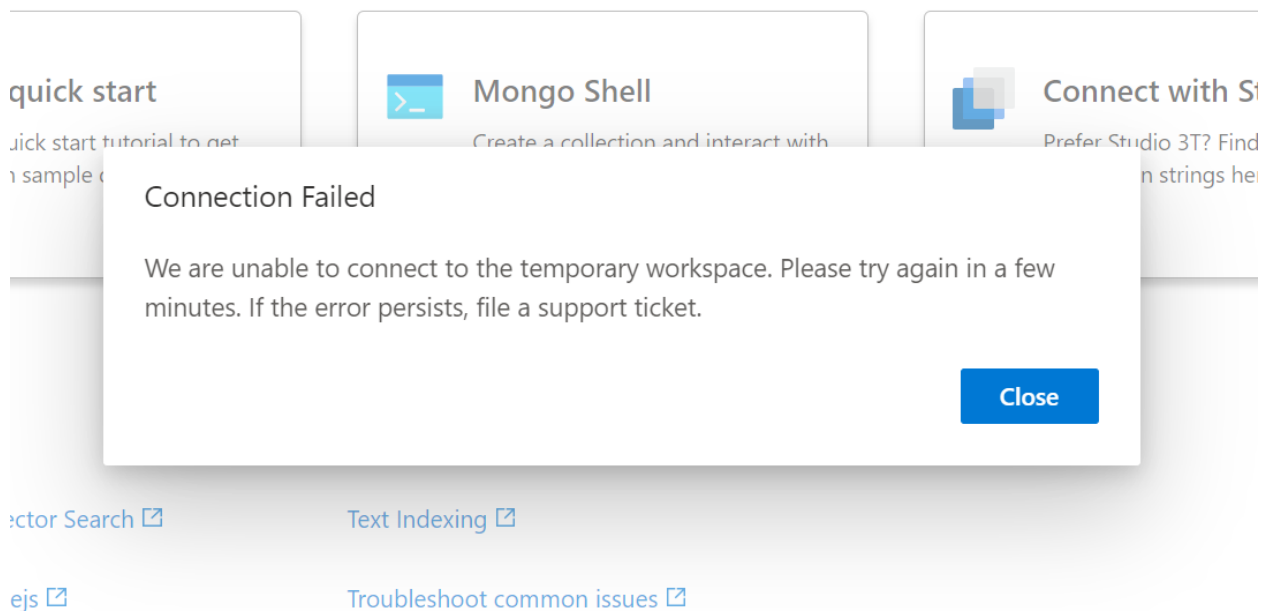

Verifications/Test

Verify that the connection is accessible by opening a MongoShell or other client on a standalone machine that represents your environment and quick access to the service using the connection url available inside the blade
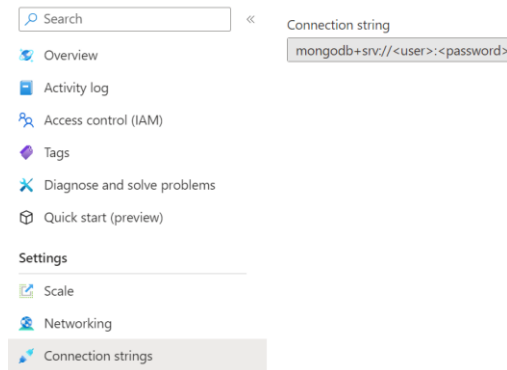
Troubleshooting

1. Consider that the cosmosuser used in the Mongo Shell may differ from the account that has been specified at cluster creation . For what follows you need to remember the credentials identified at cluster creation
2. If you encounter this error

Connection Failed

We are unable to connect to the temporary workspace. Please try again in a few minutes. If the error persists, file a support ticket.

Close

a. The firewall settings allow the connection from the local machine
b. The firewall settings allow connections from Azure Services