Overview

Mongo Database Migration Recommendation

Azure Cosmos DB is a fully managed NoSQL database for modern app development. Single-digit millisecond response times, and automatic and instant scalability, guarantee speed at any scale. Business continuity is assured with SLA-backed availability and enterprise-grade security. App development is faster and more productive thanks to turnkey multi region data distribution anywhere in the world, open source APIs and SDKs for popular languages. As a fully managed service, Azure Cosmos DB takes database administration off your hands with automatic management, updates and patching. It also handles capacity management with cost-effective serverless and automatic scaling options that respond to application needs to match capacity with demand.

Database Details

DB Version 2.0.2

Azure Infrastructure Cost

Azure Cosmos DB

Autoscale provisioned throughput(Single-Master) (4000 RU/s) (USD $ 350.4)

Virtual Machine DS2 v2 (USD $ 150.79)

Azure MongoDB Atlas (USD $ 650.65)

Recommendations

Datapoint Name
DB Version
Reason of Change
Azure Cosmos DB currently supports MongoDB binary protocol versions 3.2, 3.6 and 4.2.
Recommendation

Azure Cosmos DB currently supports MongoDB binary protocol versions 3.2, 3.6 and 4.0. So, need to update the MongoDB version. Steps for updating the Db versions are below.

Then migrate MongoDB to Azure Cosmos Db for MongoDB API.there is a two-way.
1-Online (using Data Migration Service)
2-Dump and restore (using mongodump, mongorestore tools).

Please refer the below steps to update Db Version.

Step 1: - Back up the Database

Start a Command Prompt as Administrator and change the directory to the bin/ folder in the 3.x MongoDB installation directory. Run the following command:

mongodump –db TSStorageData

The result is a dump/ folder where the command is run, which contains the dump of the TSStorageData database.

Step 2: - Stop the MongoDB Service

Open the Windows services and manually stop the MongoDB service.

Step 3: - Delete the MongoDB Windows Service

Start a Command Prompt as Administrator and type the following command:

sc delete MongoDB.

Step 4: - Uninstall MongoDB

Use the Windows Control Panel to uninstall the MongoDB from the computer.

Step 5: - Delete Leftover MongoDB Files

The working directory of MongoDB does not get deleted in the case of removing the installation. Thus, you need to delete this manually. By default, the folder is located on the C drive and is named mongo - so, clear the content of folder C:\mongo.

Step 6: - Install The Latest Official MongoDB

Download the latest official version of the *.msi MongoDB installation file from the official MongoDB page and follow the wizard to install it.

Step 7: - Start the MongoDB Service

The MongoDB service can now be started. The most convenient way to start it is through the Configure Test Studio Services wizard. Be sure to change the mongod.exe path to the new installation of MongoDB 4.x in the MongoDB tab, then click on Apply. The service will start with the new configuration.

Step 8: - Restore the Database

Once the installation of MongoDB 4.x is finished and the service is running, you can restore the - database. Copy the dump folder, created in point 1., from the MongoDB 3.x bin folder to the bin in installation folder of the 4.x.

Mongorestore dump/

Impact

Medium

Estimated Hours

16 Hours task for one developer

Help URL

https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb/upgrade-mongodb-version