Working with MongoDB on AWS SOP

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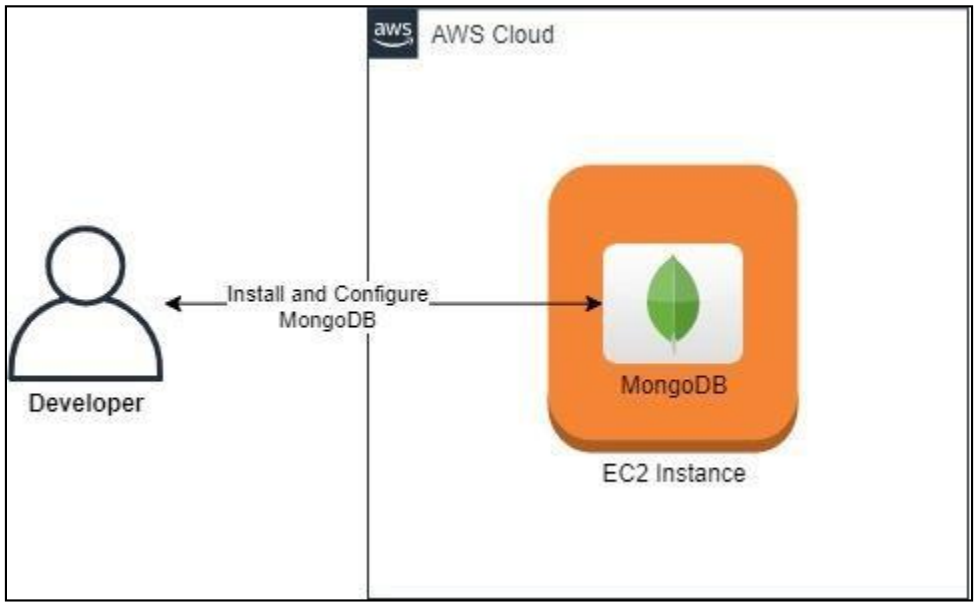
1. Working with MongoDB on AWS

1.1 Description

There are often times that you will be called upon in your journey to assist in the testing of a new technology. In this hands-on lab, you will be installing MongoDB and execute some MongoDB commands.

1.2 Architecture Diagram

The diagram below displays a visual representation of the application architecture:



1.3 Lab Steps

Follow the steps outlined below to achieve the objective of this lab exercise:

1. Navigate to the EC2 service in AWS console.
2. Create an Amazon Linux 2 instance with type as **t2.micro** and attach the **CCL-EC2-Role**.
3. Save the Key Pair and SSH into the instance using the key pair or the Session Manager.
4. Update the instance using the following command:

```
yum update -y
```

5. Create a file for MongoDB using the following command.

```
sudo nano /etc/yum.repos.d/mongodb-org-6.0.repo
```

6. Copy and paste the following content in that file:

```
[mongodb-org-6.0]
name=MongoDB Repository
baseurl=https://repo.mongodb.org/yum/amazon/2/mongodb-
org/6.0/x86_64/
gpgcheck=1
enabled=1
gpgkey=https://www.mongodb.org/static/pgp/server-6.0.asc
```

7. Once it is in nano, you can close out by typing **CTRL+X** and when it requires you to save, press the **Y** key.
8. It prompts for a file name, and it should already be populated when you opened nano. Press the enter/return key.
9. Use the following command to install mongoDB.

```
sudo yum install -y mongodb-org
```

10. Start the MongoDB service using the following command:

```
sudo service mongod start
```

11. To check status, use the following command:

```
sudo systemctl status mongod
```

12. To enable mongo dB run below command

```
sudo systemctl enable mongod
```

13. Connect to Mongo shell using the following command:

```
mongosh
```

14. Check existing databases with the following command:

```
show dbs
```

15. Select an existing database with the below command:

```
use admin
```

Similarly you can perform many actions using mongoDB.

1.4 Supporting References

Refer the below links for additional information:

1. https://aws.amazon.com/quickstart/architecture/mongodb/
2. https://www.mongodb.com/mongodb-on-aws