

## Setting up DynamoDB locally (Windows)

### 1. Download and install Dynamo DB server:

Download from:

[https://s3.ap-south-1.amazonaws.com/dynamodb-local-mumbai/dynamodb\\_local\\_latest.zip](https://s3.ap-south-1.amazonaws.com/dynamodb-local-mumbai/dynamodb_local_latest.zip)

Un-compress the zip and put in a folder, say `c:/dynamodb`

### 2. Start DynamoDB Server: In the command prompt window, change the working directory to the dynamoDB directory and issue following command:

```
C:/dynamodb>java -Djava.library.path=./DynamoDBLocal_lib -jar
DynamoDBLocal.jar -sharedDb
```

Do not close this console window. Closing this window will shutdown dynamoDB server.

### 3. Download AWS CLI from following, and

<https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2-windows.html>

Run its installation. Installation program does all necessary setting, and it should be ready to be used.

### 4. Configure Dynamo DB. Open another command window and submit command

```
C:/dynamodb>aws configure
```

```
AWS Access Key ID [None]: 1234
AWS Secret Access Key [None]: 1234
Default region name [None]: ap-south-1
Default output format [None]: json
```

It prompts for some inputs. Give some inputs. May preserve this inputs for some later use; we may never need these values, though.

### 5. Test if set up is done correctly:

[Create a work directory, say `c:\dynamodb-work`. Move to this directory before doing following tasks]

#### a. Create Table (named as `ProductCatalog`) as following:

```
aws dynamodb create-table ^
--table-name ProductCatalog ^
--attribute-definitions ^
    AttributeName=Id,AttributeType=N ^
--key-schema ^
    AttributeName=Id,KeyType=HASH ^
--provisioned-throughput ^
    ReadCapacityUnits=10,WriteCapacityUnits=5 ^
--endpoint-url http://localhost:8000
```

If everything is successful, you should see following as a response.

```
{
  "Table": {
    "AttributeDefinitions": [
      {
        "AttributeName": "Id",
        "AttributeType": "N"
      }
    ],
    "TableName": "ProductCatalog",
    "KeySchema": [
      {
        "AttributeName": "Id",
        "KeyType": "HASH"
      }
    ],
    "TableStatus": "ACTIVE",
    "CreationDateTime": "2021-02-16T00:16:00.227000+05:30",
    "ProvisionedThroughput": {
      "LastIncreaseDateTime": "1970-01-01T05:30:00+05:30",
      "LastDecreaseDateTime": "1970-01-01T05:30:00+05:30",
      "NumberOfDecreasesToday": 0,
      "ReadCapacityUnits": 10,
      "WriteCapacityUnits": 5
    },
    "TableSizeBytes": 0,
    "ItemCount": 0,
    "TableArn":
    "arn:aws:dynamodb:ddblocal:000000000000:table/ProductCatalog"
  }
}
```

#### 6. Describe the Table

```
$aws dynamodb describe-table ^
  --table-name ProductCatalog ^
  --endpoint-url http://localhost:8000
```

#### 7. You can also check list of tables in your AmazonDB database as following:

```
$aws dynamodb list-tables --endpoint-url http://localhost:8000
```

Response should be as following

```
{
  "TableNames": [
    " ProductCatalog"
  ]
}
```

#### 8. Done!