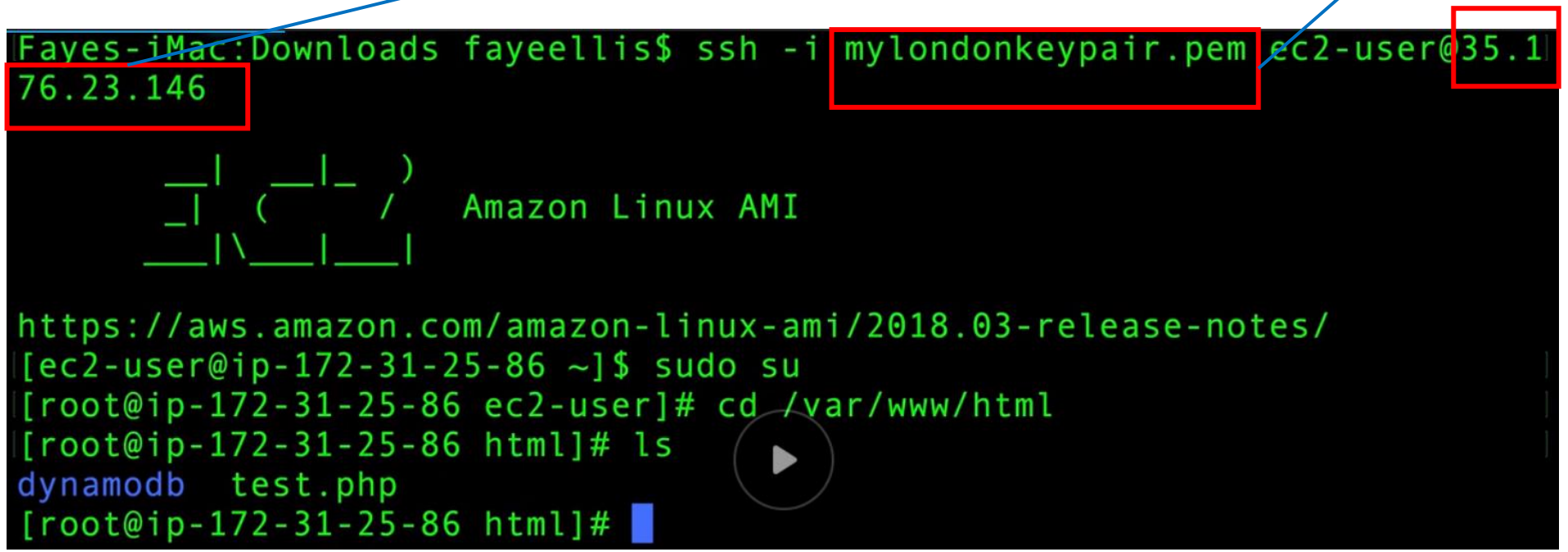
Services → iam → roles → create roles → AWS service → ec2 → select policy type (dynamodb full access)

Services → ec2 instance → launch instance → select amazon linux ami → AWS service → ec2 → select policy type (dynamodb full access) → configure instance (select IAM role created above, have the boostrap scripts under advance) → add storage → add tags → configure security group (have http and ssh access) → select / create key pair for the region → launch instances

Select the instance and copy the public ip



SDK for php – composer - installation steps

```
[ec2-user@ip-172-31-87-185 html]$ sudo su
[root@ip-172-31-87-185 html]# php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"
[root@ip-172-31-87-185 html]# php -r "if (hash_file('sha384', 'composer-setup.php') === '93b54496392c062774670ac18b134c3b3a95e5a5e5c8f1a9f115f203b75bf9a129d5daa8ba6a13e2cc8a1da0806388a8') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP_EOL;"
Installer verified
[root@ip-172-31-87-185 html]# php composer-setup.php
All settings correct for using Composer
Downloading...

Composer (version 1.8.0) successfully installed to: /var/www/html/composer.phar
Use it: php composer.phar

[root@ip-172-31-87-185 html]# php -r "unlink('composer-setup.php');"
[root@ip-172-31-87-185 html]#
```

php - installation steps

```
[root@ip-172-31-87-185 html]# php -d memory_limit=-1 composer.phar require aws/aws-sdk-php
```

```
[root@ip-172-31-25-86 html]# ls
composer.json  composer.lock  composer.phar  dynamodb  test.php  vendor
[root@ip-172-31-25-86 html]# cd dynamodb
[root@ip-172-31-25-86 dynamodb]# ls
createtables.php  README.md  uploaddata.php
[root@ip-172-31-25-86 dynamodb]#
[root@ip-172-31-25-86 dynamodb]# vi createtables.php
```

Createtables.php → create tables in that region region
Uploaddata.php → uploads the data in that region

```
    // Date now needs to be set, which I guess is a good thing!
    date_default_timezone_set('Europe/London');

    // Find out what the issues are:
    ini_set('display_errors',1);
    ini_set('display_startup_errors',1);
    error_reporting(-1);

    require '/var/www/html/vendor/autoload.php';
    use Aws\DynamoDb\DynamoDbClient;

    $client = DynamoDbClient::factory(array(
        'region' => 'eu-west-2',  // replace with your desired region vi
sit http://docs.aws.amazon.com/general/latest/gr/rande.html to get your
regions.
        'version' => '2012-08-10' // Now needs a version
    ));

    $tableNames = array();
```

set the region / availability zone

Ec2 instance public ip

35.176.23.146/dynamodb/createtables.php

Php script to create table in dynamodb

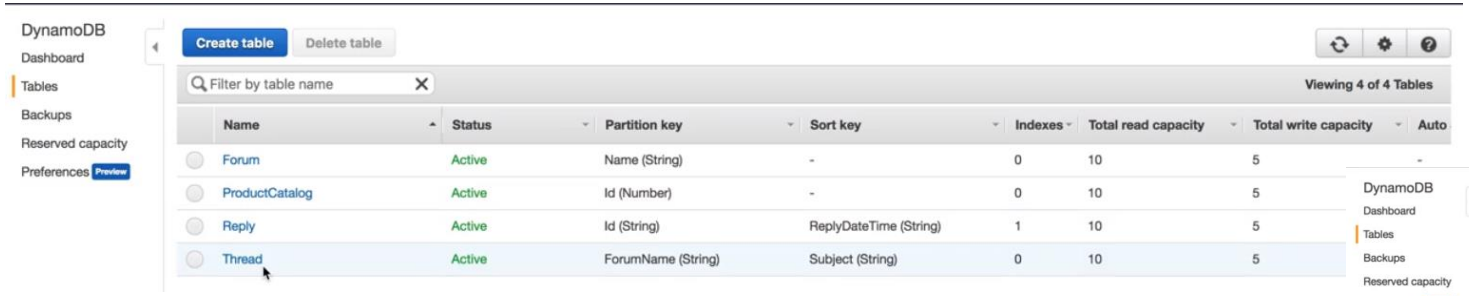
Creating table ProductCatalog... Creating table Forum... Creating table Thread... Creating table Reply... Waiting for table ProductCatalog to be created. Table ProductCatalog has been created. Waiting for table Forum to be created. Table Forum has been created. Waiting for table Thread to be created. Table Thread has been created. Waiting for table Reply to be created. Table Reply has been created.

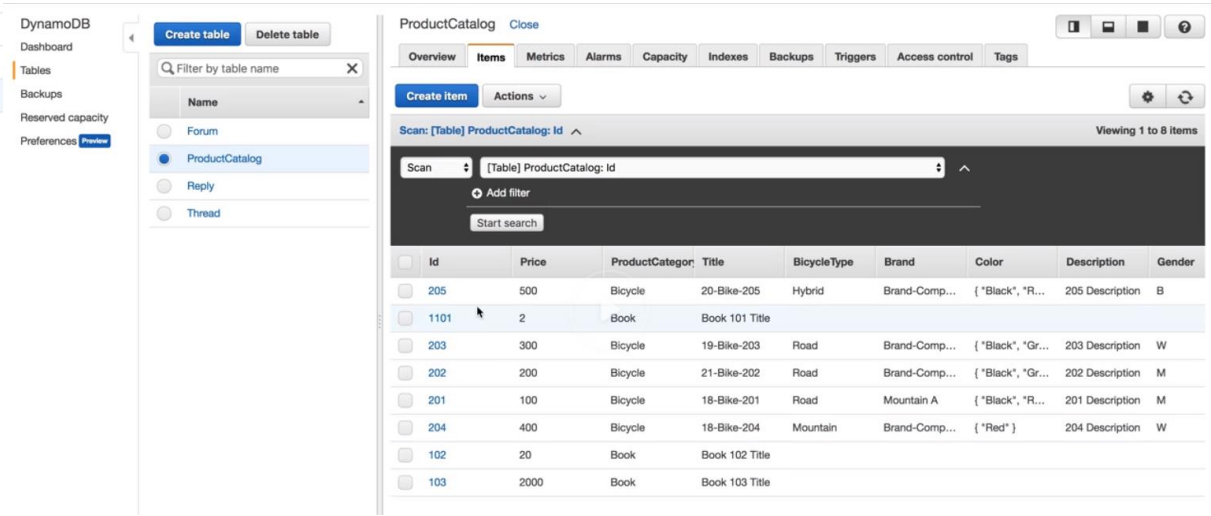
35.176.23.146/dynamodb/uploaddata.php

Php script to upload data to the table in dynamodb

Adding data to the ProductCatalog table... done. Adding data to the Forum table... done. Adding data to the Reply table... done.

Services → database → dynamodb → tables





Interacting with dynamodb via CLI

This is possible as we have set IAM role with policy dynamo db full access

```
[root@ip-172-31-29-76 html]# aws dynamodb get-item --table-name ProductC
atalog --region eu-west-2  --key '{"Id":{"N":"205"}}'
```

If we want ec2 instance access dynamodb, we need to create IAM service role. Otherwise, ec2 instance would’nt connect with dynamodb

```
[root@ip-172-31-29-76 html]# aws dynamodb get-item --table-name ProductC
atalog --region eu-west-2  --key '{"Id":{"N":"205"}}'

An error occurred (UnrecognizedClientException) when calling the GetItem
 operation: The security token included in the request is invalid.
[root@ip-172-31-29-76 html]#
```