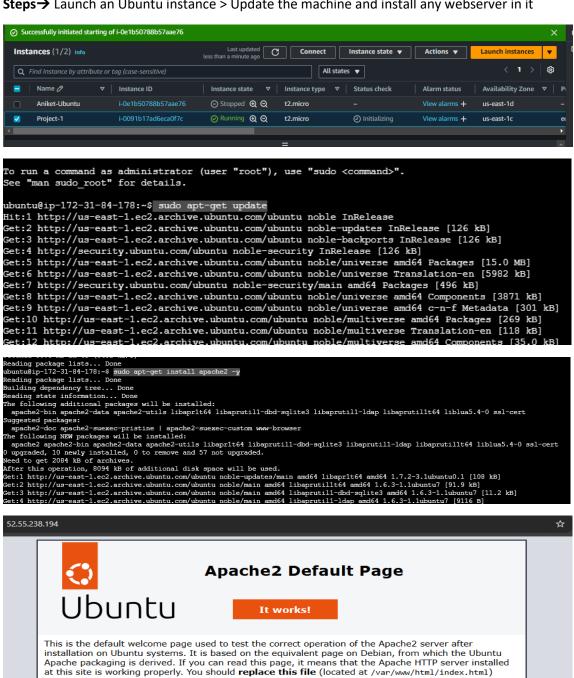
Problem Statement:

Company ABC wants to move their product to AWS. They have the following things set up right now:

- 1. MySQL DB
- 2. Website (PHP) The company wants high availability on this product, therefore wants Auto Scaling to be enabled on this website

Steps -> Launch an Ubuntu instance > Update the machine and install any webserver in it



Now delete the index.html file of the web page

before continuing to operate your HTTP server.

```
ubuntu@ip-172-31-84-178:~$ cd /var/www/html
ubuntu@ip-172-31-84-178:/var/www/html$ ls
index.html
ubuntu@ip-172-31-84-178:/var/www/html$ sudo rm index.html
ubuntu@ip-172-31-84-178:/var/www/html$

i-0091b17ad6eca0f7c (Project-1)

PublicIPs: 52.55.238.194 PrivateIPs: 172.31.84.178
```

Now copy your code from local machine to this instance > install the unzip package and unzip that copied file

```
C:\Users\Admin\Downloads>scp -r -i N.virginia-keypair.pem code.zip ubuntu@52.55.238.194:/home/ubuntu
The authenticity of host '52.55.238.194 (52.55.238.194)' can't be established.
ED25519 key fingerprint is SHA256:GQv83r2/esbcy8lfzjVhFg2LUOKTuwL3A/mvgicTGTI.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '52.55.238.194' (ED25519) to the list of known hosts.
code.zip 100% 769KB 492.2KB/s 00:01
C:\Users\Admin\Downloads>
```

```
ubuntu@ip-172-31-84-178:/var/www/html$ cd
ubuntu@ip-172-31-84-178:~$ ls
code.zip
ubuntu@ip-172-31-84-178:~$
```

i-0091b17ad6eca0f7c (Project-1)

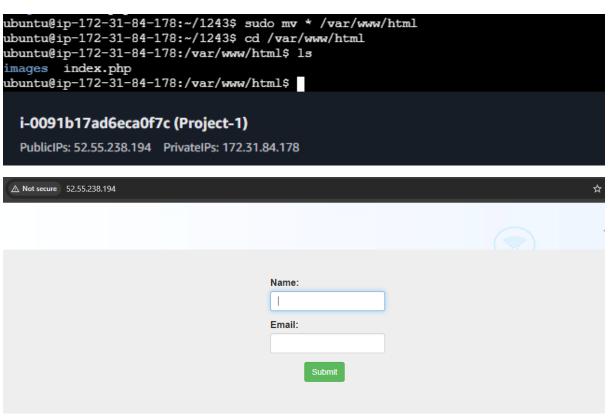
PublicIPs: 52.55.238.194 PrivateIPs: 172.31.84.178

```
ubuntu@ip-172-31-84-178:-$ sudo apt-get install unzip -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
    zip
The following NEW packages will be installed:
    unzip
0 upgraded, 1 newly installed, 0 to remove and 57 not upgraded.
Need to get 174 kB of archives.
After this operation, 384 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 unzip amd64 6.0-28ubuntu4.1 [174 kB]
Fetched 174 kB in 0s (10.4 MB/s)
Selecting previously unselected package unzip.
(Reading database ... 68559 files and directories currently installed.)
Preparing to unpack .../unzip 6.0-28ubuntu4.1 ...
Setting un unzip (6.0-28ubuntu4.1) ...
Frocessing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...

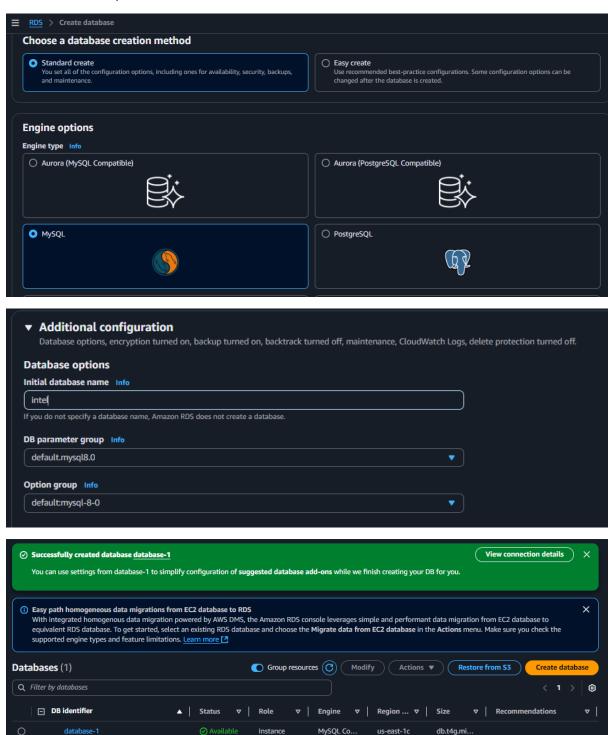
i-0091b17ad6eca0f7c (Project-1)
PublicPs: 52.55.238.194 PrivatelPs: 172.31.84.178
```

```
ubuntu@ip-172-31-84-178:~$ sudo unzip code.zip
Archive: code.zip
  creating: 1243/images/
 inflating: 1243/images/1.png
 inflating: 1243/images/2.png
 inflating: 1243/index.php
ubuntu@ip-172-31-84-178:~$ ls
1243
ubuntu@ip-172-31-84-178:~$
  i-0091b17ad6eca0f7c (Project-1)
  PublicIPs: 52.55.238.194 PrivateIPs: 172.31.84.178
ubuntu@ip-172-31-84-178:~$ cd 1243
ubuntu@ip-172-31-84-178:~/1243$ ls
images index.php
ubuntu@ip-172-31-84-178:~/1243$
  i-0091b17ad6eca0f7c (Project-1)
  PublicIPs: 52.55.238.194 PrivateIPs: 172.31.84.178
```

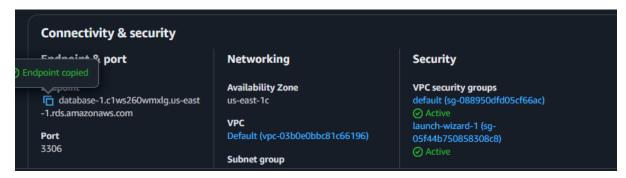
Now move these files to the html location



Now create the My SQL RDS database



Now copy the endpoint and paste that in the index.php file and change the username and pass

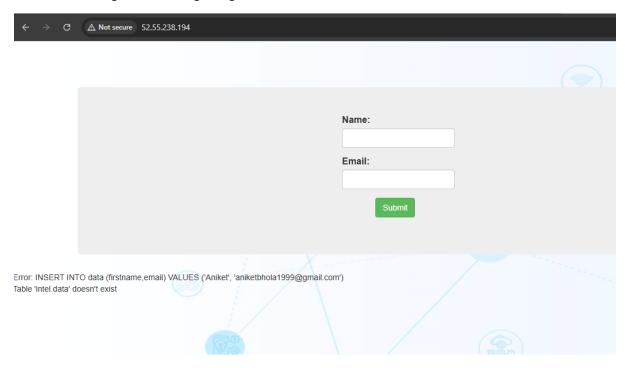


```
<?php
$firstname=$_POST['firstname'];
$email=$_POST['email'];
$servername = "database-1.clws260wmxlg.us-east-1.rds.amazonaws.com";
$username = "admin";
$password = "Aniket1234";
$db = "intel";
// Create connection
$conn = new mysqli($servername, $username, $password, $db);</pre>
```

Add the ondrej repository > install the php 5.6 version to resolve the error

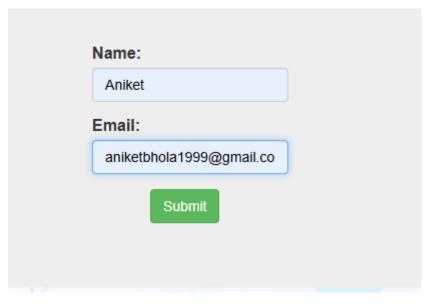
ubuntu@ip-172-31-84-178:/var/www/html\$ sudo add-apt-reposi	tory -y ppa:ondrej/php
PPA publishes dbgsym, you may need to include 'main/debug'	
Repository: 'Types: deb	
URIs: https://ppa.launchpadcontent.net/ondrej/php/ubuntu/	
Suites: noble	
Components: main	
Description:	
Co-installable PHP versions: PHP 5.6, PHP 7.x, PHP 8.x and	most requested extensions are included. Only Supported
re provided.	
Debian oldstable and stable packages are provided as well:	https://deb.sury.org/#debian-dpa
Ware and make information about the machines at between	(2-2
ubuntu@ip-172-31-84-178:~\$ sudo apt-get install php5.6 my	sql-client php5.6-mysqli -y
Reading package lists Done	
Building dependency tree Done	
Reading state information Done	
Note, selecting 'php5.6-mysql' instead of 'php5.6-mysqli'	
The following additional packages will be installed: debsuryorg-archive-keyring libapache2-mod-php5.6 libpcre3 mysql-client-8.0 mysql-client-core-8.0 mysql-common	
php5.6-opcache php5.6-readline	es mysqr crient b.b mysqr crient core b.b mysqr common
Suggested packages:	
php-pear	
The following NEW packages will be installed:	
debenoment and the boundary laborated and about C laborated and alternative and alternative and alternative and	
← → C △ Not secure 52.55.238.194	
Na	me:
Em	ail:
	Submit

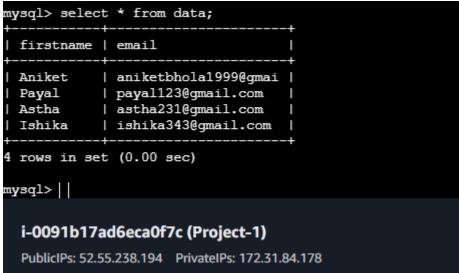
Now after adding the data Im getting this error:



To resolve the error we need to create the table inside the database and add the data again

Now add the sample data





For High availability:

Create the AMI of the instance > Now create the ASG and ALB > copy the DNS of the ALB and paste that in the browser

