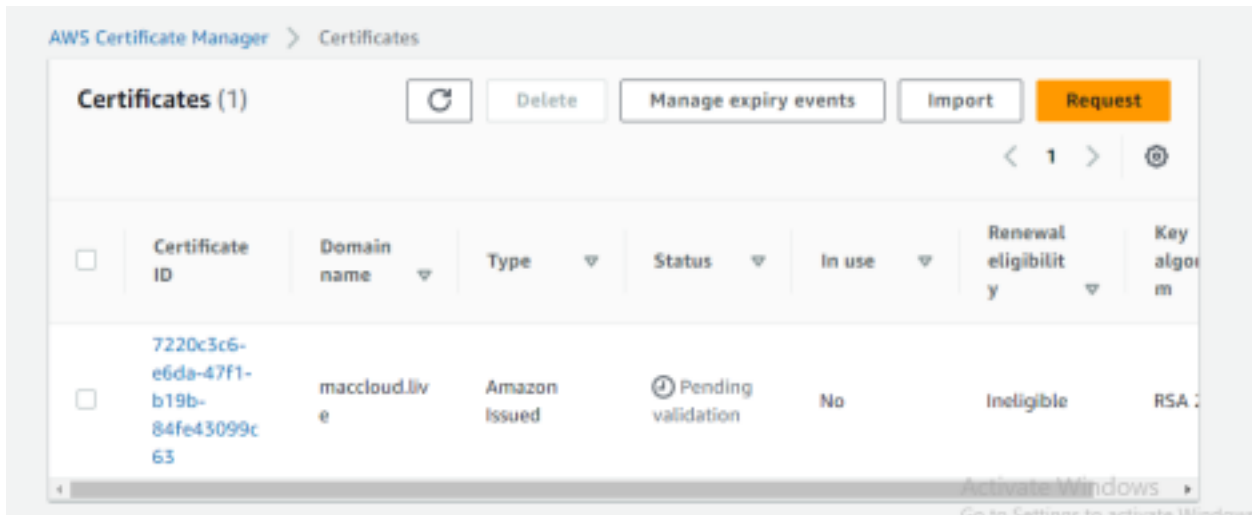
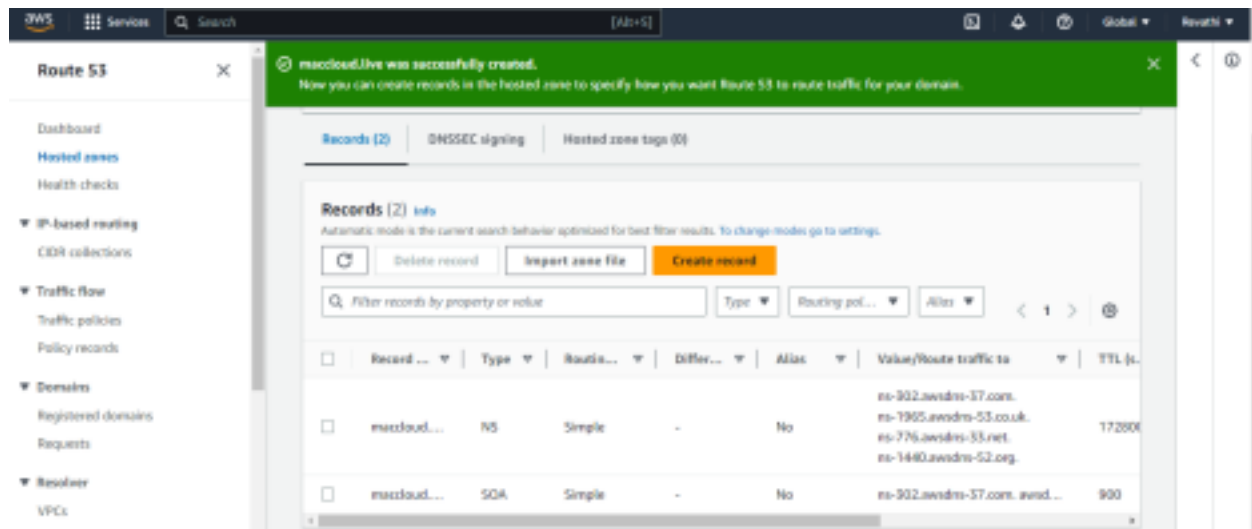


# Dynamic Application deployment using Amazon Ec2

## Step 1: Requested AMS Certificate



## Step 2: Hosted zone created in R53



### Step 3: Provided Nameserver to godaddy

maccloud.live Select a different domain

[DNS Records](#) [Forwarding](#) [Nameservers](#) [Premium DNS](#) [Hostnames](#)

Nameservers determine where your DNS is hosted and where you add, edit or delete your DNS records.

Using custom nameservers Change Nameservers

**Nameservers** ⓘ

ns-302.awsdns-37.com

ns-1965.awsdns-53.co.uk

ns-776.awsdns-33.net

ns-1440.awsdns-52.org

Activate Windows  
Go to Settings to activate Windows.

### Step 4: Created DNS records in Amazon Route 53 for AMS certificate

**Records (4)** [Info](#)  
Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

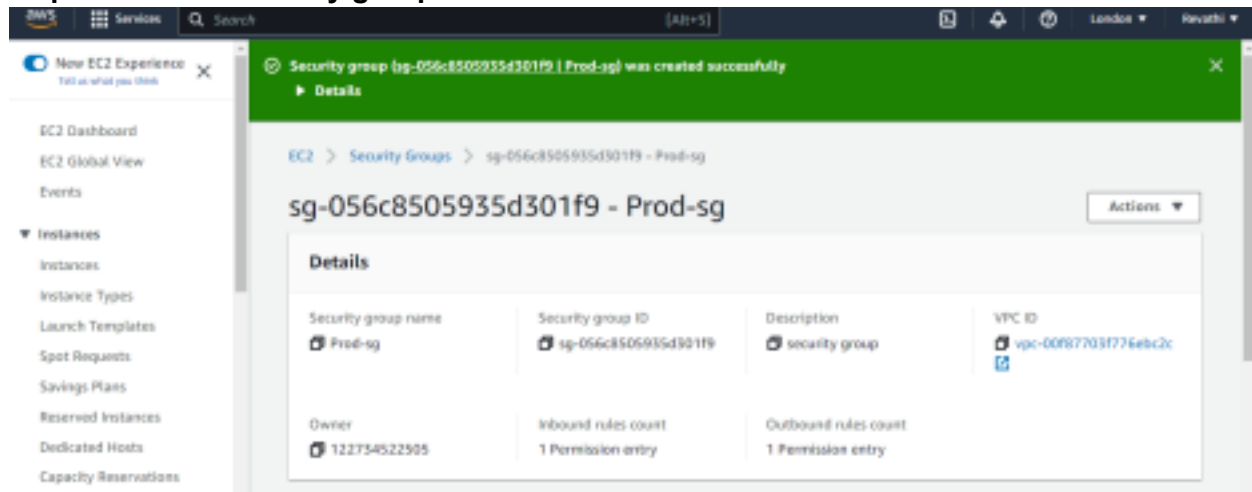
🔄 Delete record Import zone file Create record

Type ▼ Routing pol... ▼ Alias ▼ < 1 > ⚙️

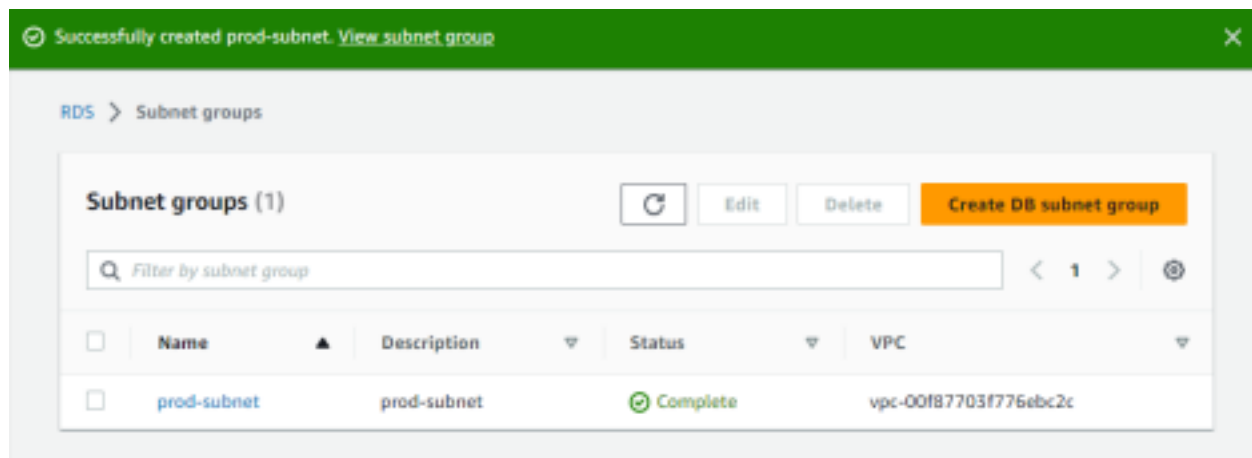
<input type="checkbox"/>	Record ... ▼	Type ▼	Routin... ▼	Differ... ▼	Alias ▼	Value/Route traffic to ▼	TTL (s)
<input type="checkbox"/>	maccloud....	NS	Simple	-	No	ns-302.awsdns-37.com. ns-1965.awsdns-53.co.uk. ns-776.awsdns-33.net. ns-1440.awsdns-52.org.	172800
<input type="checkbox"/>	maccloud....	SOA	Simple	-	No	ns-302.awsdns-37.com. awsd...	900
<input type="checkbox"/>	_515ad34...	CNAME	Simple	-	No	_e9ab8cc8b92341238211a9...	300
<input type="checkbox"/>	_168bc9b...	CNAME	Simple	-	No	_0a990ca8a0279c190cdf81d...	300

Activate Windows

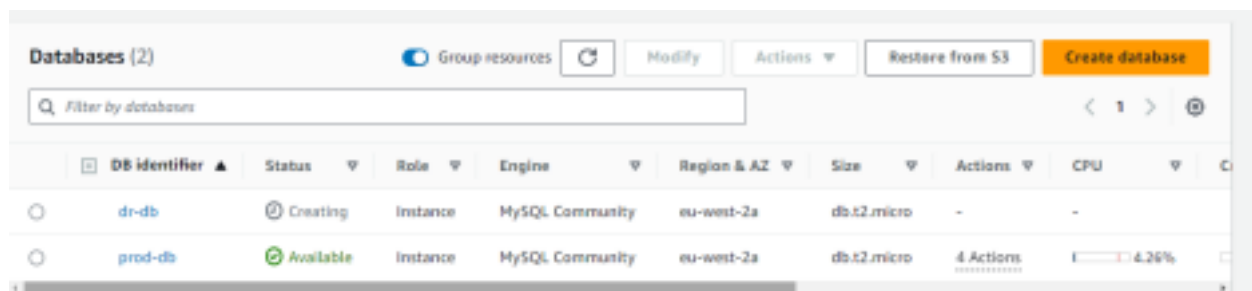
## Step 5: Created Security group for database



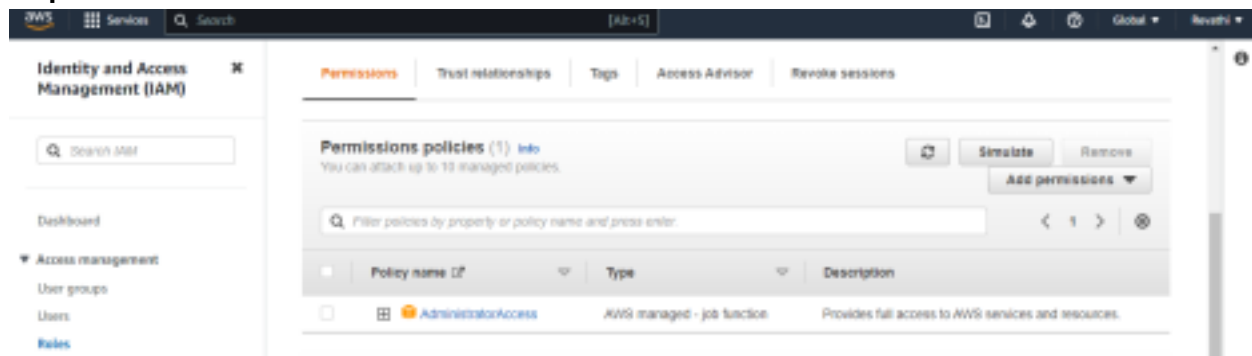
## Step 6: Created Subnet Group for database



## Step 7: Created Database for Production and Disaster recovery



## Step 8: Created IAM Role as Admin for EC2 instance



## Step 9: Created 2 EC2 Instance

(User data for installation of httpd and wordpress)

```
#!/bin/bash
```

```
yum install httpd php-mysql -y
```

```
amazon-linux-extras install -y php7.3
```

```
cd /var/www/html
```

```
echo "healthy" > healthy.html
```

```
wget https://wordpress.org/latest.tar.gz
```

```
tar -xzf latest.tar.gz
```

```
cp -r wordpress/* /var/www/html/
```

```
rm -rf wordpress
```

```
rm -rf latest.tar.gz
```

```
chmod -R 755 wp-content
```

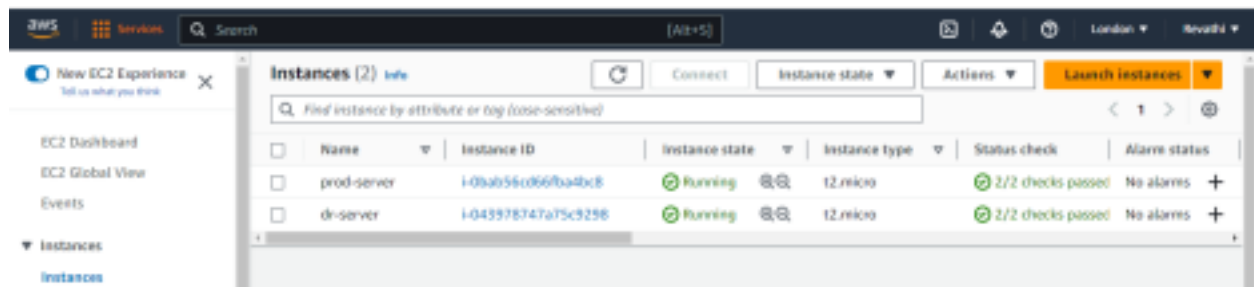
```
chown -R apache:apache wp-content
```

```
wget https://s3.amazonaws.com/bucketforwardpresslab-donotdelete/htaccess.txt
```

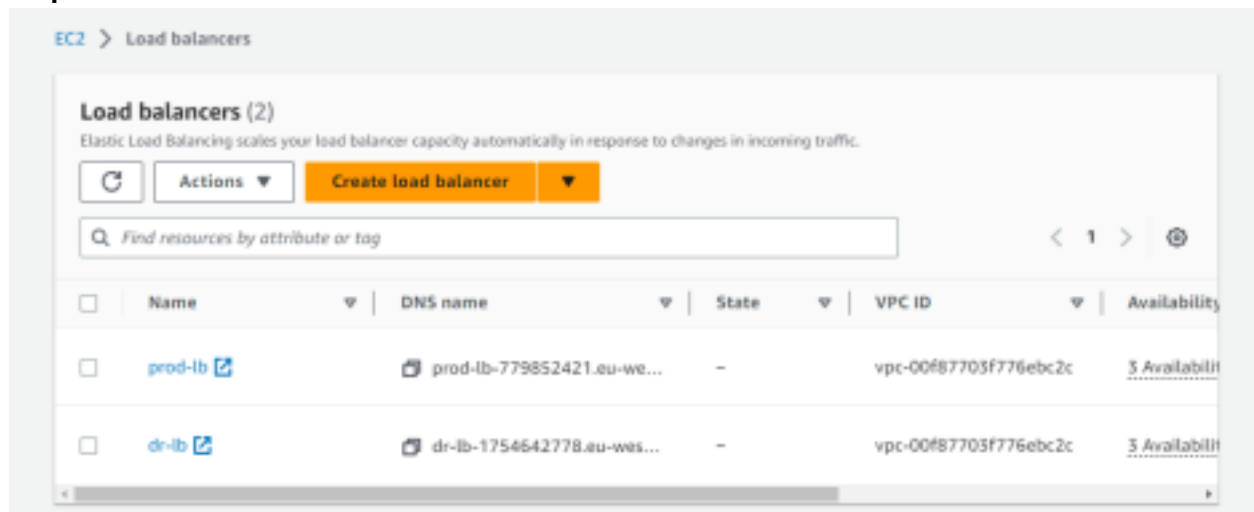
```
mv htaccess.txt .htaccess
```

```
chkconfig httpd on
```

```
service httpd start )
```




## Step 10: Created Load balancer for Production and DR server



## Step 11: Login to wordpress


← → ↻ ⚠ Not secure | prod-db-779652421.eu-west-2.elb.amazonaws.com/wp-admin/setup-config.php?step=1 u6



Below you should enter your database connection details. If you are not sure about these, contact your host.

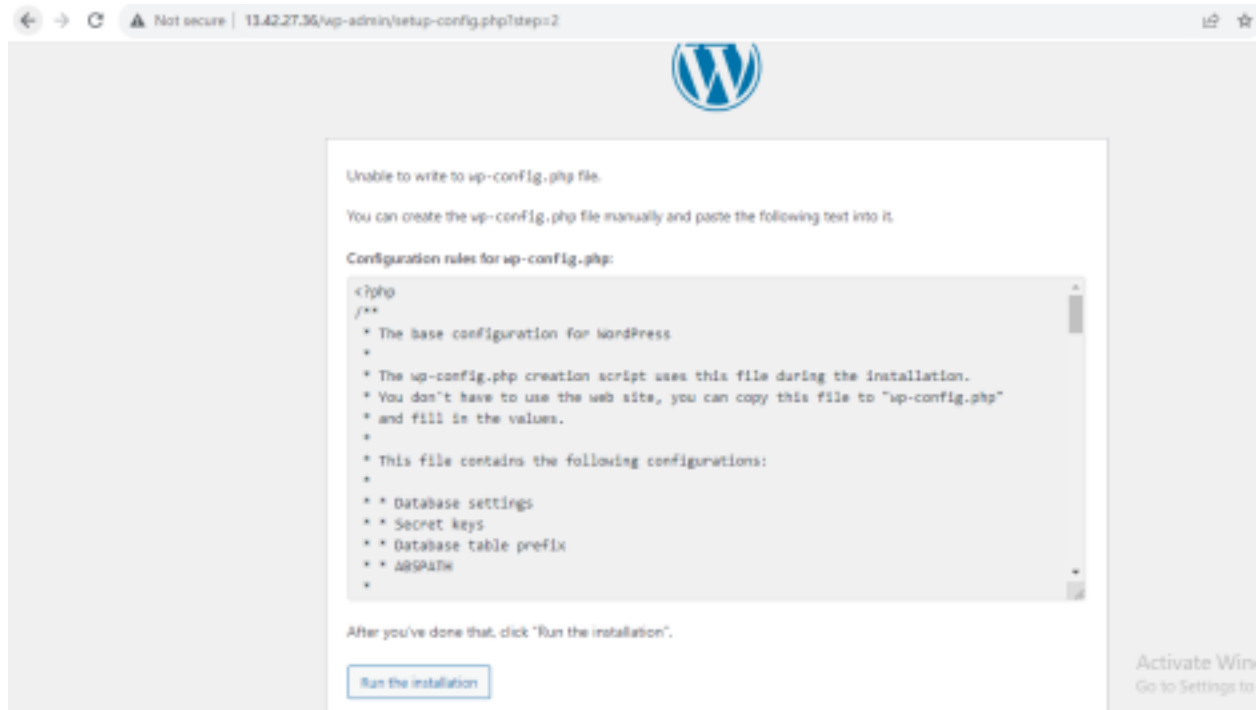
Database Name	<input type="text" value="prod-db"/>	The name of the database you want to use with WordPress.
Username	<input type="text" value="prod"/>	Your database username.
Password	<input type="password" value="prodadm123"/>	Your database password.
Database Host	<input type="text" value="prod-db.crupi8cc420e.eu-west-2-"/>	You should be able to get this info from your web host, if localhost does not work.
Table Prefix	<input type="text" value="wp_"/>	If you want to run multiple WordPress installations in a single database, change this.

← → ↻ ⚠ Not secure | 13.42.27.36/wp-admin/setup-config.php?step=1



Below you should enter your database connection details. If you are not sure about these, contact your host.

Database Name	<input type="text" value="drdb"/>	The name of the database you want to use with WordPress.
Username	<input type="text" value="DRDB"/>	Your database username.
Password	<input type="password" value="dradm123"/>	Your database password.
Database Host	<input type="text" value="dr-db.crupi8cc420e.eu-west-2-"/>	You should be able to get this info from your web host, if localhost does not work.
Table Prefix	<input type="text" value="wp_"/>	If you want to run multiple WordPress installations in a single database, change this.



## Step 12: login to instance and install the wordpress

```

  _ |  _ |  )
  _ | (  _ /  Amazon Linux 2 AMI
  _ |\_ | _ |

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-32-138 ~]$ sudo -i
[root@ip-172-31-32-138 ~]# cd /var/www/html/
[root@ip-172-31-32-138 html]# vi wp-config.php
[root@ip-172-31-32-138 html]#
```

```

*
* @link https://wordpress.org/documentation/article/debugging-in-wordpress/
*/
define( 'WP_DEBUG', false );

/* Add any custom values between this line and the "stop editing" line. */

/* That's all, stop editing! Happy publishing. */

/** Absolute path to the WordPress directory. */
if ( ! defined( 'ABSPATH' ) ) {
    define( 'ABSPATH', __DIR__ . '/' );
}

/** Sets up WordPress vars and included files. */
require_once ABSPATH . 'wp-settings.php';

:wq!

```

← → C Not secure | 13.42.27.36/wp-admin/install.php?language=en\_US

## Information needed

Please provide the following information. Do not worry, you can always change these settings later.

Site Title

Username   
 Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password  [Hide](#)  
 Weak

**Important:** You will need this password to log in. Please store it in a secure location.

Confirm Password ☒ Confirm use of weak password

Your Email   
 Double-check your email address before continuing.

Search engine visibility ☐ Discourage search engines from indexing this site  
 It is up to search engines to honor this request.

[Install WordPress](#)

Ac  
Go



## Success!

WordPress has been installed. Thank you, and enjoy!

**Username**                      prod

**Password**                      *Your chosen password.*

Log In



Username or Email Address

DRDB

Password

• • • • •



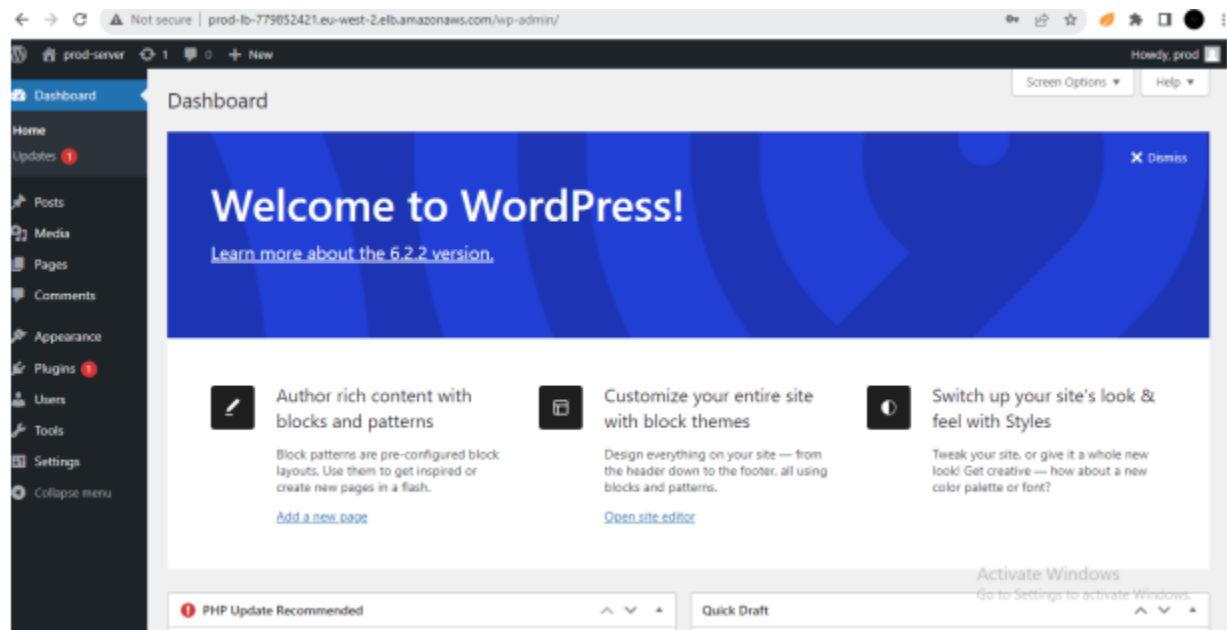
☐ Remember Me

Log In

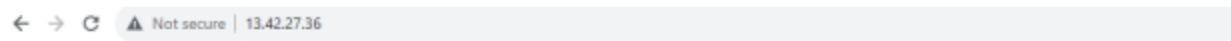
Lost your password?

— Go to prod-server





Browse public ip of prod server, you get the following output



prod-server

# Mindblown: a blog about philosophy.

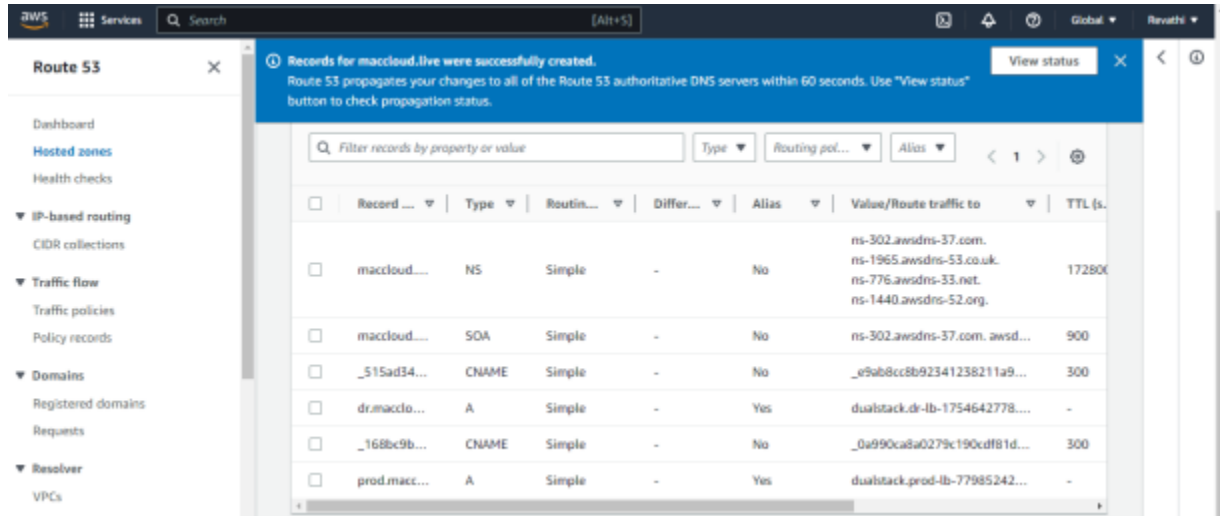
## Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!

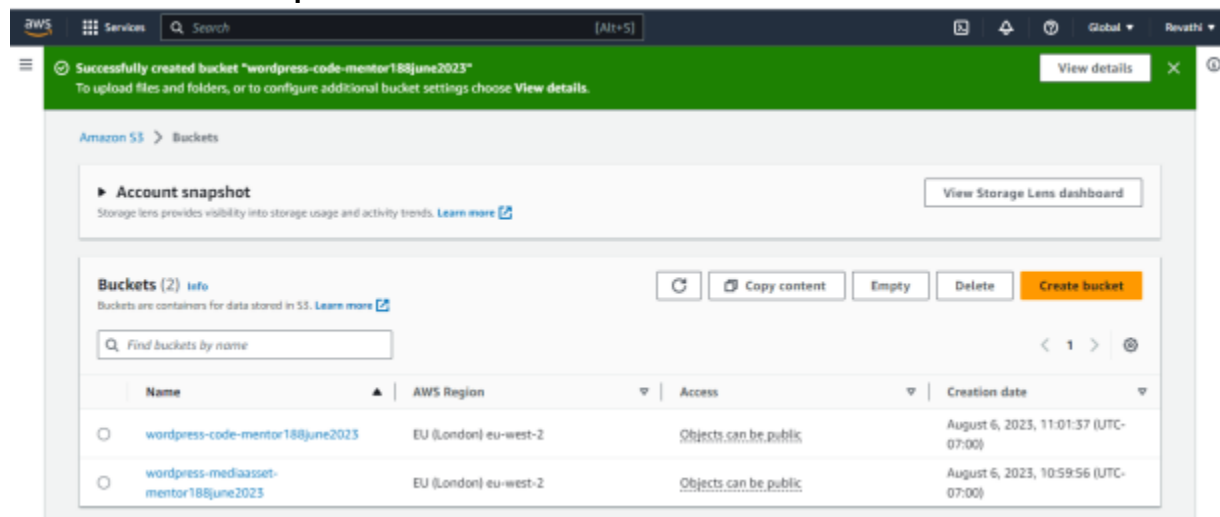
August 6, 2023

Activat

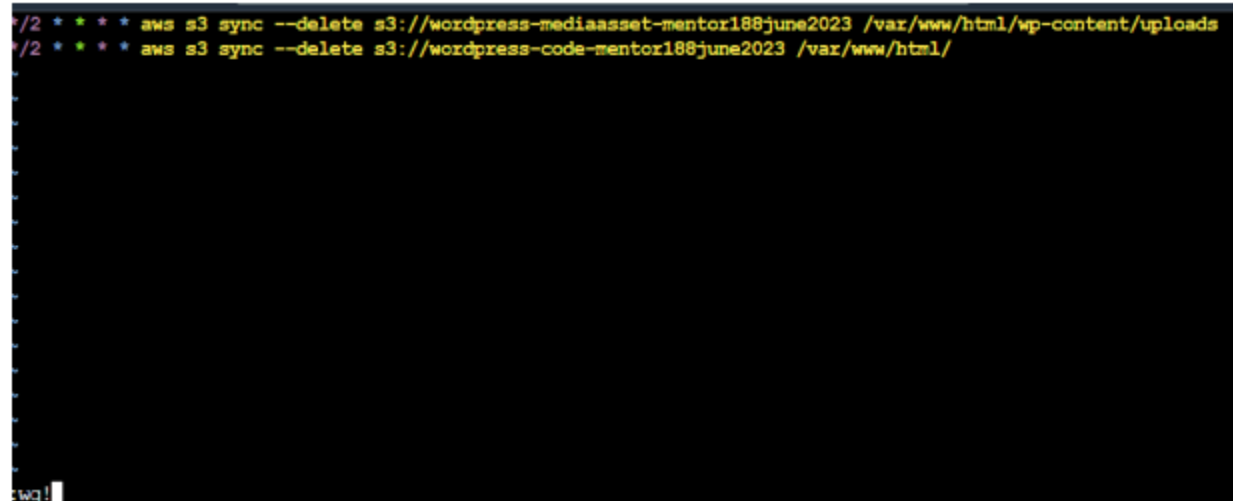
### Step 13: Map ELB and R53 Create A record for 2 server



### Step 14: Synchronization of 2 servers Create 2 buckets for prod and dr server



### Login to the server , create file using crontab -e



```
root@ip-172-31-42-47 ~]# crontab -l
*/2 * * * * aws s3 sync --delete /var/www/html/wp-content/uploads s3://wordpress-mediaasset-mentor188june2023
*/2 * * * * aws s3 sync --delete /var/www/html/ s3://wordpress-mediaasset-mentor188june2023
root@ip-172-31-42-47 ~]#
```

## ACM Certificate Issued

The screenshot displays the AWS Certificate Manager (ACM) console interface. At the top, a blue notification banner states: "Successfully requested certificate with ID 7220c3c6-e6da-47f1-b19b-84fe43099c63. A certificate request with a status of pending validation has been created. Further action is needed to complete the validation and approval of the certificate." Below this, a green banner indicates: "Successfully created DNS records. Successfully created DNS records in Amazon Route 53 for certificate with ID 7220c3c6-e6da-47f1-b19b-84fe43099c63." The main content area shows the "Certificates (1)" list. A table contains one entry for the certificate with ID 7220c3c6-e6da-47f1-b19b-84fe43099c63, domain name maccloud.liv e, type Amazon Issued, status Issued (with a green checkmark), in use No, renewal eligibility Ineligible, and key algorithm RSA 2048. The interface includes navigation tabs for Certificates, Actions (Delete, Manage expiry events, Import, Request), and pagination controls.

Certificate ID	Domain name	Type	Status	In use	Renewal eligibility	Key algorithm
7220c3c6-e6da-47f1-b19b-84fe43099c63	maccloud.liv e	Amazon Issued	Issued	No	Ineligible	RSA 2048