

Cloud-Hosted E-Commerce Deployment Documentation

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Application Stack: PHP, MySQL, Apache, AWS EC2 (Ubuntu)

1. EC2 Instance Setup

- Create a t2.micro Ubuntu instance
- Allow ports: 22, 80, 443
- Download .pem key

2. Connect to EC2 via SSH

```
ssh -i "your_key.pem" ubuntu@your_public_ip
```

3. Update System Packages

```
sudo apt update && sudo apt upgrade -y
```

4. Install Apache Web Server

```
sudo apt install apache2 -y
```

5. Install PHP and Extensions

```
sudo apt install php libapache2-mod-php php-mysql php-mbstring php-xml php-zip php-gd -y
```

6. Install MySQL Database

```
sudo apt install mysql-server -y
```

7. Secure MySQL

```
sudo mysql_secure_installation
```

8. Login to MySQL

```
sudo mysql
```

Create Database:

```
CREATE DATABASE ecommerce_db;  
CREATE USER 'ecomuser'@'localhost' IDENTIFIED BY 'StrongPassword123';  
GRANT ALL PRIVILEGES ON ecommerce_db.* TO 'ecomuser'@'localhost';  
FLUSH PRIVILEGES;
```

9. Upload Project Files

```
scp -i "your_key.pem" -r /local/project/path ubuntu@your_ip:/var/www/html/
```

10. Set Permissions

```
sudo chown -R www-data:www-data /var/www/html
```

```
sudo chmod -R 755 /var/www/html
```

11. Import SQL Database

```
sudo mysql ecommerce_db < /var/www/html/ecommerce.sql
```

12. Restart Apache

```
sudo systemctl restart apache2
```

13. Test Website

Open: http://YOUR_PUBLIC_IP

TROUBLESHOOTING

- Blank website → Check logs: sudo tail -f /var/log/apache2/error.log
 - Permission denied → sudo chmod -R 755 /var/www/html
 - DB error → Check db.php credentials
 - Apache not running → sudo systemctl restart apache2
-

FULL COMMAND HISTORY USED

```
1 sudo apt update && sudo apt upgrade -y
```

```
2 ls
```

```
3 echo test
```

```
4 ls
```

```
5 sudo apt install -y apache2 php php-mysql php-cli php curl php-xml php-mbstring git mysql-server  
unzip
```

```
6 sudo systemctl start apache2
```

```
7 sudo systemctl enable apache2
```

```
8 systemctl status apache2
9 q
10 sudo mysql_secure_installation
11 sudo mysql
12 cd/var/www/html
13 cd /var/www/html
14 pwd
15 sudo rm -rf /var/www/html/*
16 https://github.com/Mahalakshmi99999/ecommerce_AWS-deployment.git
17 pwd
18 sudo rm -rf /var/www/html/*
19 https://github.com/mahalakshmi-999999/ecommerce-AWS-deployment.git
20 https://github.com/mahalakshmi-999999/ecommerce_AWS-deployment.git
21 https://github.com/Mahalakshmi999999/ecommerce_AWS-deployment.git
22 https://github.com/Mahalakshmi99999/ecommerce_AWS-deployment.git
23 ls -l /var/www
24 cd /var/www/html
25 sudo rm -rf /var/www/html/*
26 sudo git clone https://github.com/Mahalakshmi99999/ecommerce_AWS-deployment.git
/va/r/www/html
27 ls -l /var/www/html
28 sudo chown -R www-data:www-data /var/www/html
29 sudo chmod -R 755 /var/www/html
30 ls -l /var/www/html
31 sudo nano /var/www/html/includes/db.php
32 cat /var/www/html/includes/db.php
33 php /var/www/html/test_db.php
34 sudo nano /var/www/html/index.php
35 sudo systemctl restart apache2
36 sudo nano /etc/php/*apache2/php.ini
37 php -i | grep "Loaded Configuration File"
38 php -i | grep "Server API"
```

```
39 ls /etc/php/
40 apache2ctl -M | grep php
41 sudo nano /etc/php/8.3/apache2/php.ini
42 php -i | grep "Loaded Configuration File"
43 sudo systemctl restart apache2
44 cd ~
45 sudo du -sh /var/lib/mysql
46 whoami
47 pwd
48 ls -a
49 cd /home/ubuntu
50 ls -l
51 sudo mysql -u root -p
52 ls -l
53 sudo systemctl restart apache2
54 sudo mysql -u root
55 USE ecommerce_db;
56 sudo mysql -u root -p
57 sudo nano /var/www/html/pages/index.php
58 sudo nano /var/www/html/css/style.css
59 sudo nano /var/www/html/pages/index.php
60 sudo nano /var/www/html/css/style.css
61 sudo nano /var/www/html/pages/index.php
62 ls
63 history
```

Deployment Completed Successfully