

Week-1

Monolithic Architecture

Step 1: Launch EC2 Instance

1. **Instance Type:** t2.micro
 2. **AMI:** Ubuntu 22.04 (or any Ubuntu variant).
 3. **Security Groups:** Open necessary ports:
 - SSH (Port 22)
 - HTTP (Port 80)
 - HTTPS (Port 443)
-

Step 2: Install Required Packages

SSH into the instance and run:

```
sudo apt update
sudo apt install apache2 mysql-server php libapache2-mod-php php-mysql -y
sudo systemctl enable apache2
sudo systemctl enable mysql
```

Step 3: Configure MySQL

Secure MySQL installation:

```
sudo mysql_secure_installation
```

1. Follow the prompts:
 - Remove anonymous users
 - Disallow root login remotely
 - Remove test database
 - Reload privilege tables

Log into MySQL:

```
sudo mysql -u root -p
```

Create a database and user:

```
CREATE DATABASE wordpress;
```

```
CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'SecureP@ssword123';
```

```
GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpressuser'@'localhost';
```

```
FLUSH PRIVILEGES;
```

```
EXIT;
```

2.

Step 4: Configure Apache

Enable Apache modules:

```
sudo a2enmod rewrite
```

```
sudo systemctl restart apache2
```

1.

Set up Apache virtual host (optional):

```
sudo nano /etc/apache2/sites-available/wordpress.conf
```

Add the following:

```
<VirtualHost *:80>
    DocumentRoot /var/www/html
    <Directory /var/www/html>
        AllowOverride All
    </Directory>
</VirtualHost>
```

Enable the configuration:

```
sudo a2ensite wordpress
```

```
sudo systemctl reload apache2
```

2.

Step 5: Download and Configure WordPress

Download WordPress:

```
cd /tmp  
wget https://wordpress.org/latest.tar.gz  
tar -xvzf latest.tar.gz  
sudo mv wordpress/* /var/www/html/
```

1.

Set permissions:

```
sudo chown -R www-data:www-data /var/www/html/  
sudo chmod -R 755 /var/www/html/
```

2.

Configure `wp-config.php`:

```
sudo mv /var/www/html/wp-config-sample.php /var/www/html/wp-config.php  
sudo nano /var/www/html/wp-config.php
```

Update database details:

```
define( 'DB_NAME', 'wordpress' );  
define( 'DB_USER', 'wordpressuser' );  
define( 'DB_PASSWORD', 'SecureP@ssword123' );  
define( 'DB_HOST', 'localhost' );
```

3.

Restart Apache:

```
sudo systemctl restart apache2
```

4.

Step 6: Verify WordPress Installation

Access the WordPress setup wizard in your browser:

`http://<EC2_Public_IP>`

1.

2. Create a **welcome page** in WordPress.

Microservices Architecture

Step 1: Launch Two EC2 Instances

1. **Instance 1:** For WordPress
2. **Instance 2:** For MySQL

Configure security groups:

- MySQL instance: Open port 3306 for the WordPress EC2 instance.
 - WordPress instance: Open ports 22, 80, and 443.
-

Step 2: Configure MySQL on Instance 2

Install MySQL:

```
sudo apt update  
sudo apt install mysql-server -y  
sudo systemctl enable mysql
```

1.

Configure MySQL:

```
sudo mysql_secure_installation  
sudo mysql -u root -p
```

Create a database and user:

```
CREATE DATABASE wordpress;  
CREATE USER 'wordpressuser'@'%' IDENTIFIED BY 'SecureP@ssword123';  
GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpressuser'@'%';  
FLUSH PRIVILEGES;  
EXIT;
```

2.

Update MySQL to accept remote connections:

```
sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
```

Replace `bind-address = 127.0.0.1` with:

```
bind-address = 0.0.0.0
```

Restart MySQL:

```
sudo systemctl restart mysql
```

3.

Step 3: Configure WordPress on Instance 1

Install Apache, PHP, and dependencies:

```
sudo apt update
```

```
sudo apt install apache2 php libapache2-mod-php php-mysql wget -y
```

```
sudo systemctl enable apache2
```

1.

Download WordPress:

```
cd /tmp
```

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

```
tar -xvzf latest.tar.gz
```

```
sudo mv wordpress/* /var/www/html/
```

2.

Configure `wp-config.php`:

```
sudo mv /var/www/html/wp-config-sample.php /var/www/html/wp-config.php
```

```
sudo nano /var/www/html/wp-config.php
```

Update database details:

```
define( 'DB_NAME', 'wordpress' );
define( 'DB_USER', 'wordpressuser' );
define( 'DB_PASSWORD', 'SecureP@ssword123' );
define( 'DB_HOST', '<MySQL_Instance_Private_IP>' );
```

3.

Set permissions:

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

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

4.

Restart Apache:

```
sudo systemctl restart apache2
```

5.

Step 4: Verify Microservices Architecture

Access WordPress in your browser:

http://<WordPress_Instance_Public_IP>

- 1.
 2. Complete the WordPress setup wizard.
-

Optional: Test Database Connection

Create a test script on the WordPress instance to verify connectivity:

```
sudo nano /var/www/html/test-db.php
```

Add the following:

```
<?php  
$servername = "<MySQL_Instance_Private_IP>";  
$username = "wordpressuser";  
$password = "SecureP@ssword123";  
$dbname = "wordpress";  
  
$conn = new mysqli($servername, $username, $password, $dbname);  
  
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}  
echo "Connected successfully";  
?>
```

Access the script in your browser:

`http://<WordPress_Instance_Public_IP>/test-db.php`

Final Steps

1. Take screenshots and record your process.

Ensure all resources are terminated after testing to avoid charges:

`aws ec2 terminate-instances --instance-ids <instance-id>`

- 2.
-

The screenshot shows the AWS CloudShell home page. At the top, there is a green success message: "Success Successfully initiated launch of instance (i-0dbf9023749b7b585)". Below this, there is a "Launch log" button. Under the "Next Steps" section, there are several cards: "Create billing and free tier usage alerts", "Connect to your instance", "Connect an RDS database", "Create EBS snapshot policy", "Manage detailed monitoring", "Create Load Balancer", "Create AWS budget", and "Manage CloudWatch alarms". The URL at the bottom of the page is `https://eu-north-1.console.aws.amazon.com/cloudshell/home?region=eu-north-1`.

```
ubuntu@ip-172-31-43-83: ~
DELLDESKTOP-P2NNZ61 MINGW64 ~
$ ssh -i your-key.pem ubuntu@your-ec2-public-ip
warning: Identity file your-key.pem not accessible: No such file or directory.
ssh: Could not resolve hostname your-ec2-public-ip: Name or service not known
DELLDESKTOP-P2NNZ61 MINGW64 ~
$ ls
DELLDESKTOP-P2NNZ61 MINGW64 ~
$ ssh -i w1.pem ubuntu@your-ec2-public-ip
warning: Identity file w1.pem not accessible: No such file or directory.
ssh: Could not resolve hostname your-ec2-public-ip: Name or service not known
DELLDESKTOP-P2NNZ61 MINGW64 ~
$ ls
DELLDESKTOP-P2NNZ61 MINGW64 ~
$ ssh -i ~/Downloads/w1.pem ubuntu@13.48.195.103
The authenticity of host '13.48.195.103 (13.48.195.103)' can't be established.
ED25519 key fingerprint is SHA256:8RZhVOQnCzAnTbY9fV4vIRDjchARfu71WdkysTM.
This key is not known by any other host.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
warning: Permanently added '13.48.195.103' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1018-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support:   https://ubuntu.com/pro

System information as of Sun Dec 8 05:13:51 UTC 2024

System load: 0.0          Temperature:      -273.1 °C
Usage of /: 24.7% of 6.71GB Processes:        123
Memory usage: 22%          Users logged in:    0
Swap usage:  0%          IPv4 address for ens5: 172.31.43.83

Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

  Type here to search
```

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```
ubuntu@ip-172-31-43-83: ~
amd64 Packages [16.0 kB]
Get:24 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3844 B]
Get:25 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 B]
Get:26 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 B]
Get:27 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:28 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [10.8 kB]
Get:29 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [10.7 kB]
Get:30 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.8 kB]
Get:31 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [11.7 kB]
Get:32 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 B]
Get:33 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [498 kB]
Get:34 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [210 B]
Get:35 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multivers e amd64 Components [212 B]
Get:37 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multivers e amd64 c-n-f Metadata [116 B]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [102 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [740 B]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [563 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [110 B]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Met adata [13.5 kB]
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Package s [480 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-e n [92.5 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Compon ents [208 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Package s [12.2 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-e n [120 B]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Compon ents [208 B]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f M etadata [356 B]
Reading package lists... Done
Building dependency tree... Done
Building state information... Done
Reading state information... Done
  Type here to search
```

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```
ubuntu@ip-172-31-43-83:~  
update-alternatives: using /var/lib/mecab/dic/ipadic to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode  
Setting up mecab-ipadic-utf8 (2.7.0-20070801+main-3) ...  
Compiling IPA dictionary for Mecab. This takes long time...  
reading /usr/share/mecab/dic/ipadic/unk.def ... 40  
emitting double-array: 100% #####  
/usr/share/mecab/dic/ipadic/model.def is not found. skipped.  
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 42  
reading /usr/share/mecab/dic/ipadic/Aux1.csv ... 199  
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032  
reading /usr/share/mecab/dic/ipadic/Verb.csv ... 130750  
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171  
reading /usr/share/mecab/dic/ipadic/Noun.number.csv ... 42  
reading /usr/share/mecab/dic/ipadic/Noun.desinest.csv ... 120  
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135  
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202  
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91  
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999  
reading /usr/share/mecab/dic/ipadic/Noun.adjv.csv ... 3328  
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795  
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19  
reading /usr/share/mecab/dic/ipadic/Prefixx.csv ... 221  
reading /usr/share/mecab/dic/ipadic/Interrog.csv ... 252  
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210  
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146  
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477  
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668  
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151  
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2  
reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328  
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146  
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393  
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032  
emitting double-array: 100% #####  
/usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316  
emitting matrix : 100% #####  
done!  
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode  
Setting up libhtml-parser-perl:and64 (3.81-lubuntu1) ...  
Setting up libhttp-message-perl (6.45-lubuntu1)  
Setting up mysql-server (8.0.40-0ubuntu0.24.04.1) ...  
Setting up libcgiparser-perl (4.63-1)  
Setting up libcgifast-perl (1:2.17-1)  
Processing triggers for man-db (2.12.0-4huid2) ...  
Processing triggers for libc-bin (2.39-0uhuntu8.3) ...  
Scanning processes...  
Scanning Linux images...  
Running kernel seems to be up-to-date.  
No services need to be restarted.  
No containers need to be restarted.  
No user sessions are running outdated binaries.  
Type here to search 30°C Partly sunny 10:54 08-12-2024
```

Installation of mysql:

```
ubuntu@ip-172-31-43-83:~  
update-alternatives: using /var/lib/mecab/dic/ipadic to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode  
Setting up mecab-ipadic-utf8 (2.7.0-20070801+main-3) ...  
Compiling IPA dictionary for Mecab. This takes long time...  
reading /usr/share/mecab/dic/ipadic/unk.def ... 40  
emitting double-array: 100% #####  
/usr/share/mecab/dic/ipadic/model.def is not found. skipped.  
reading /usr/share/mecab/dic/ipadic/Noun.nat.csv ... 42  
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 199  
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032  
reading /usr/share/mecab/dic/ipadic/Verb.csv ... 130750  
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171  
reading /usr/share/mecab/dic/ipadic/Noun.number.csv ... 42  
reading /usr/share/mecab/dic/ipadic/Noun.desinest.csv ... 120  
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135  
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202  
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91  
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999  
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 3328  
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795  
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19  
reading /usr/share/mecab/dic/ipadic/Prefixx.csv ... 221  
reading /usr/share/mecab/dic/ipadic/Interrog.csv ... 252  
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210  
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146  
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477  
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668  
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151  
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2  
reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328  
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146  
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393  
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032  
emitting double-array: 100% #####  
/usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316  
emitting matrix : 100% #####  
done!  
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode  
Setting up libhtml-parser-perl:and64 (3.81-lubuntu1) ...  
Setting up libhttp-message-perl (6.45-lubuntu1)  
Setting up mysql-server (8.0.40-0ubuntu0.24.04.1) ...  
Setting up libcgiparser-perl (4.63-1)  
Setting up libcgifast-perl (1:2.17-1)  
Processing triggers for man-db (2.12.0-4huid2) ...  
Processing triggers for libc-bin (2.39-0uhuntu8.3) ...  
Scanning processes...  
Scanning Linux images...  
Running kernel seems to be up-to-date.  
No services need to be restarted.  
No containers need to be restarted.  
No user sessions are running outdated binaries.  
Type here to search 30°C Partly sunny 10:54 08-12-2024
```

```
ubuntu@ip-172-31-43-83:~  
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202  
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91  
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999  
reading /usr/share/mecab/dic/ipadic/Noun.adverb.csv ... 3328  
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19  
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 221  
reading /usr/share/mecab/dic/ipadic/Postfix.csv ... 252  
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210  
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146  
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477  
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668  
reading /usr/share/mecab/dic/ipadic/Other.csv ... 151  
reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328  
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146  
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393  
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 108  
emitting double-array: 1008 [ #####  
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316  
emitting matrix : 1008 [ #####  
done!  
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/me  
cab/dic/debian (mecab-dictionary) in auto mode  
Setting up libhtml-parser-perl:amd64 (3.81-1ubuntu3)  
Setting up libhttp-client-perl:amd64 (6.45-1ubuntu1)  
Setting up mysql-server (8.0.40-0ubuntu0.24.04.1)  
Setting up libcgi-pm-perl (4.63-1)  
Setting up libhtml-template-perl (2.97-2)  
Setting up libcgi-fast-perl (1:2.17-2.17.1)  
Processing triggers for libxml-libxml-perl (2.9.0-4ubuntu1.2)  
Processing triggers for libc-bin (2.39-0ubuntu0.3)  
Scanning processes...  
Scanning linux images...  
Running kernel seems to be up-to-date.  
No services need to be restarted.  
No containers need to be restarted.  
No user sessions are running outdated binaries.  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-43-83:~$ sudo systemctl status mysql  
● mysql.service - MySQL Community Server  
   Loaded: loaded (/usr/lib/systemd/system/mysql.service; enabled; preset: enabled)  
     Active: active (running) since Sun 2024-12-08 05:21:43 UTC; 1min 18s ago  
       Docs: https://dev.mysql.com/doc/refman/8.0/en/mysql-systemd-start-pre.html  
     Main PID: 269 (mysqld)  
        Tasks: 37 (limit: 1078)  
       Memory: 352.4M (peak: 378.6M)  
         CPU: 0.000 CPU(s)  
        CGroup: /system.slice/mysql.service  
               └─2269 /usr/sbin/mysqld  
  
Dec 08 05:21:43 ip-172-31-43-83 systemd[1]: Starting mysql.service - MySQL Community Server...  
 30°C Partly sunny 1055 08-12-2024
```

```
ubuntu@ip-172-31-43-83:~  
and allows the users to set only those passwords which are  
secure enough. Would you like to setup VALIDATE PASSWORD component?  
Press y|Y for Yes, any other key for No:  
There are three levels of password validation policy:  
LOW  Length >= 8  
MEDIUM Length >= 8, numeric, mixed case, and special characters  
STRONG Length >= 8, numeric, mixed case, special characters and dictionary  
file  
Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 2  
Skipping password set for root as authentication with auth_socket is used by def  
ault.  
If you would like to use password authentication instead, this can be done with  
the "ALTER USER" command.  
See https://dev.mysql.com/doc/refman/8.0/en/alter-user.html#alter-user-password-  
management for more information.  
By default, a MySQL installation has an anonymous user,  
which is intended only for testing, or moving to a  
user account created from them. This is intended only for  
testing, and to make the installation go a bit smoother.  
you should remove them before moving into a production  
environment.  
Remove anonymous users? (Press y|Y for Yes, any other key for No) : y  
Success.  
Normally, root should only be allowed to connect from  
'localhost'. This ensures that someone cannot guess at  
the root password from the network.  
Disallow root Login remotely? (Press y|Y for Yes, any other key for No) : y  
By default, MySQL comes with a database named 'test' that  
anyone can access. This is also intended only for testing,  
and should be removed before moving into a production  
environment.  
Remove test database and access to it? (Press y|Y for Yes, any other key for No)  
y  
- Dropping test database...  
Success.  
- Removing privileges on test database...  
Success.  
Reloading the privilege tables will ensure that all changes  
made so far will take effect immediately.  
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y  
Success.  
 30°C Partly sunny 1057 08-12-2024
```

```
ubuntu@ip-172-31-43-83: ~
sudo: command not found
ubuntu@ip-172-31-43-83:~$ ~sudo mysql -u root -p
Command '~sudo' not found, did you mean:
  command 'sudo' from deb sudo (1.9.14p2-1ubuntu1)
  command 'sudo' from deb sudo-Tldap (1.9.14p2-1ubuntu1)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-43-83:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.40-0ubuntu0.24.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE wordpress;
Query OK, 1 row affected (0.01 sec)

mysql> |
```

```
ubuntu@ip-172-31-43-83: ~
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.40-0ubuntu0.24.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE wordpress;
Query OK, 1 row affected (0.01 sec)

mysql> CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'secure_password';
ERROR 1819 (HY000): Your password does not satisfy the current policy requirements
;
mysql> CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'SecureP@ssword123'
;
Query OK, 0 rows affected (0.01 sec)

mysql> |
```

```
ubuntu@ip-172-31-43-83: ~
Server version: 8.0.40-Ubuntu0.24.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE wordpress;
Query OK, 1 row affected (0.01 sec)

mysql> CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'secure_password';
ERROR 1819 (HY000): Your password does not satisfy the current policy requirements
mysql> CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'SecureP@ssword123'
;
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpressuser'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> |
```

```
ubuntu@ip-172-31-43-83: ~
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE wordpress;
Query OK, 1 row affected (0.01 sec)

mysql> CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'secure_password';
ERROR 1819 (HY000): Your password does not satisfy the current policy requirements
mysql> CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'SecureP@ssword123'
;
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpressuser'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql> |
```

```
ubuntu@ip-172-31-43-83: ~
sr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.
service → /usr/lib/systemd/system/apache-htcacheclean.service.
Setting up php8.3 (8.3.6-0ubuntu0.24.04.2) ...
Setting up libapache2-mod-php (2:8.3+93ubuntu2) ...
Setting up php (2:8.3+93ubuntu2) ...
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Processing triggers for php8.3-cli (8.3.6-0ubuntu0.24.04.2) ...
Processing triggers for libapache2-mod-php8.3 (8.3.6-0ubuntu0.24.04.2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-43-83:~$ |
```

```
ubuntu@ip-172-31-43-83: /var/www/html
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

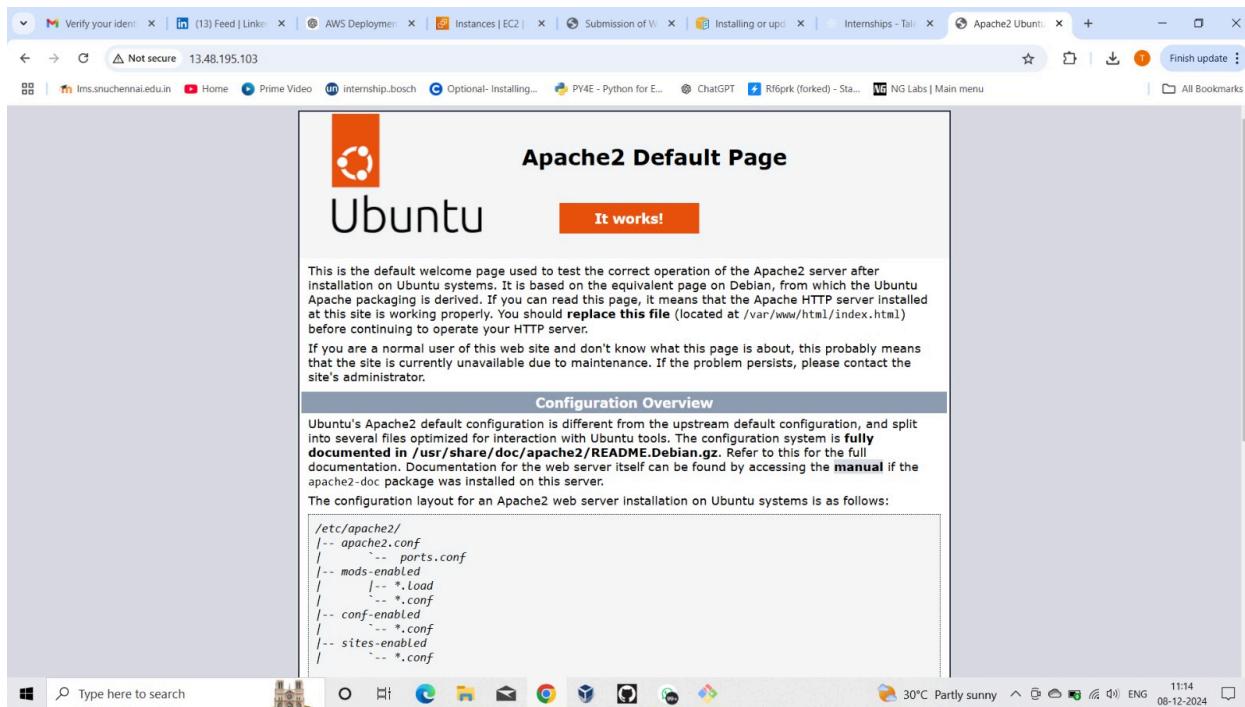
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-43-83:~$ cd /var/www/html
sudo wget https://wordpress.org/latest.tar.gz
--2024-12-08 05:37:24-- https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 26931653 (26M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz      100%[=====] 25.68M  14.7MB/s    in 1.8s
2024-12-08 05:37:26 (14.7 MB/s) - 'latest.tar.gz' saved [26931653/26931653]
ubuntu@ip-172-31-43-83:/var/www/html$ |
```

```
ubuntu@ip-172-31-43-83: /var/www/html
wordpress/wp-admin/js/set-post-thumbnail.min.js
wordpress/wp-admin/js/postbox.min.js
wordpress/wp-admin/js/color-picker.js
wordpress/wp-admin/js/password-strength-meter.js
wordpress/wp-admin/js/customize-nav-menus.js
wordpress/wp-admin/js/editor-expand.js
wordpress/wp-admin/js/code-editor.min.js
wordpress/wp-admin/js/set-post-thumbnail.js
wordpress/wp-admin/options-permalink.php
wordpress/wp-admin/widgets.php
wordpress/wp-admin/setup-config.php
wordpress/wp-admin/install.php
wordpress/wp-admin/admin-header.php
wordpress/wp-admin/post-new.php
wordpress/wp-admin/themes.php
wordpress/wp-admin/options-reading.php
wordpress/wp-trackback.php
wordpress/wp-comments-post.php
ubuntu@ip-172-31-43-83:/var/www/html$ sudo mv wordpress/* ./
sudo rmdir wordpress
ubuntu@ip-172-31-43-83:/var/www/html$ sudo chown -R www-data:www-data /var/www/h
tml
sudo chmod -R 755 /var/www/html
ubuntu@ip-172-31-43-83:/var/www/html$ |
```

```
ubuntu@ip-172-31-43-83: /var/www/html
wordpress/wp-admin/js/set-post-thumbnail.min.js
wordpress/wp-admin/js/postbox.min.js
wordpress/wp-admin/js/color-picker.js
wordpress/wp-admin/js/password-strength-meter.js
wordpress/wp-admin/js/customize-nav-menus.js
wordpress/wp-admin/js/editor-expand.js
wordpress/wp-admin/js/code-editor.min.js
wordpress/wp-admin/js/set-post-thumbnail.js
wordpress/wp-admin/options-permalink.php
wordpress/wp-admin/widgets.php
wordpress/wp-admin/setup-config.php
wordpress/wp-admin/install.php
wordpress/wp-admin/admin-header.php
wordpress/wp-admin/post-new.php
wordpress/wp-admin/themes.php
wordpress/wp-admin/options-reading.php
wordpress/wp-trackback.php
wordpress/wp-comments-post.php
ubuntu@ip-172-31-43-83:/var/www/html$ sudo mv wordpress/* ./
sudo rmdir wordpress
ubuntu@ip-172-31-43-83:/var/www/html$ sudo chown -R www-data:www-data /var/www/h
tml
sudo chmod -R 755 /var/www/html
ubuntu@ip-172-31-43-83:/var/www/html$ |
```

```
ubuntu@ip-172-31-43-83: /var/www/html
wordpress/wp-admin/js/customize-controls.min.js
wordpress/wp-admin/js/theme-plugin-editor.js
wordpress/wp-admin/js/nav-menu.min.js
wordpress/wp-admin/js/image-edit.js
wordpress/wp-admin/js/custom-background.min.js
wordpress/wp-admin/js/application-passwords.js
wordpress/wp-admin/js/password-toggle.js
wordpress/wp-admin/js/user-profile.min.js
wordpress/wp-admin/js/password-toggle.min.js
wordpress/wp-admin/js/svg-painter.js
wordpress/wp-admin/js/link.js
wordpress/wp-admin/js/custom-header.js
wordpress/wp-admin/js/widgets.js
wordpress/wp-admin/js/gallery.js
wordpress/wp-admin/js/word-count.js
wordpress/wp-admin/js/accordion.min.js
wordpress/wp-admin/js/inline-edit-post.min.js
wordpress/wp-admin/js/customize-widgets.min.js
wordpress/wp-admin/js/inline-edit-post.js
wordpress/wp-admin/js/updates.js
wordpress/wp-admin/js/media-upload.js
wordpress/wp-admin/js/media.js
ubuntu@ip-172-31-43-83:/var/www/html$ sudo systemctl restart apache2
ubuntu@ip-172-31-43-83:/var/www/html$ |
```



```

ubuntu@ip-172-31-43-83: ~
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 27
Server version: 8.0.40-Ubuntu0.24.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database      |
+-----+
| information_schema |
| performance_schema |
| wordpress       |
+-----+
3 rows in set (0.05 sec)

mysql> |

```

Not secure 13.48.56.90/info.php

IMS.SNUCHENNAI.EDU.IN Home Prime Video Internship.bosch Optional- Installing... PY4E - Python for E... ChatGPT Rf6prk (forked) - Sta... NG Labs | Main menu

Finish update

PHP Version 8.3.6



System	Linux ip-172-31-43-83 6.8.0-1019-aws #21-Ubuntu SMP Wed Nov 6 21:21:49 UTC 2024 x86_64
Build Date	Sep 30 2024 15:17:17
Build System	Linux
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.3/apache2
Loaded Configuration File	/etc/php/8.3/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/8.3/apache2/conf.d
Additional .ini files parsed	/etc/php/8.3/apache2/conf.d/10-mysqlind.ini, /etc/php/8.3/apache2/conf.d/10-opcache.ini, /etc/php/8.3/apache2/conf.d/10-pdo.ini, /etc/php/8.3/apache2/conf.d/15-xml.ini, /etc/php/8.3/apache2/conf.d/20-curl.ini, /etc/php/8.3/apache2/conf.d/20-dom.ini, /etc/php/8.3/apache2/conf.d/20-exif.ini, /etc/php/8.3/apache2/conf.d/20-finfo.ini, /etc/php/8.3/apache2/conf.d/20-finfo.info, /etc/php/8.3/apache2/conf.d/20-gd.ini, /etc/php/8.3/apache2/conf.d/20-gettext.ini, /etc/php/8.3/apache2/conf.d/20-iconv.ini, /etc/php/8.3/apache2/conf.d/20-mbstring.ini, /etc/php/8.3/apache2/conf.d/20-mysqli.ini, /etc/php/8.3/apache2/conf.d/20-phar.ini, /etc/php/8.3/apache2/conf.d/20-posix.ini, /etc/php/8.3/apache2/conf.d/20-readline.ini, /etc/php/8.3/apache2/conf.d/20-shmop.ini, /etc/php/8.3/apache2/conf.d/20-simplexml.ini, /etc/php/8.3/apache2/conf.d/20-sockets.ini, /etc/php/8.3/apache2/conf.d/20-sysmsg.ini, /etc/php/8.3/apache2/conf.d/20-tokenizer.ini, /etc/php/8.3/apache2/conf.d/20-xmfreder.ini, /etc/php/8.3/apache2/conf.d/20-xmwriter.ini, /etc/php/8.3/apache2/conf.d/20-xsl.ini, /etc/php/8.3/apache2/conf.d/20-zip.ini
PHP API	20230831
PHP Extension	20230831
Zend Extension	420230831
Zend Extension Build	API420230831,NTS
PHP Extension Build	API420230831,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled

Type here to search Watchlist ideas 17:26 08-12-2024

