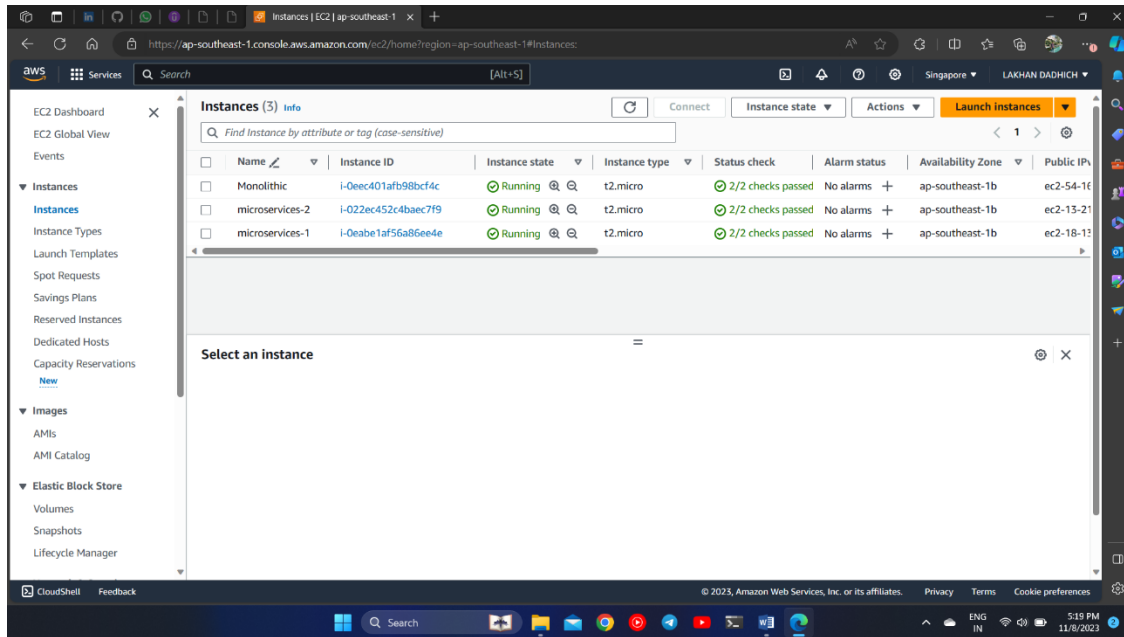


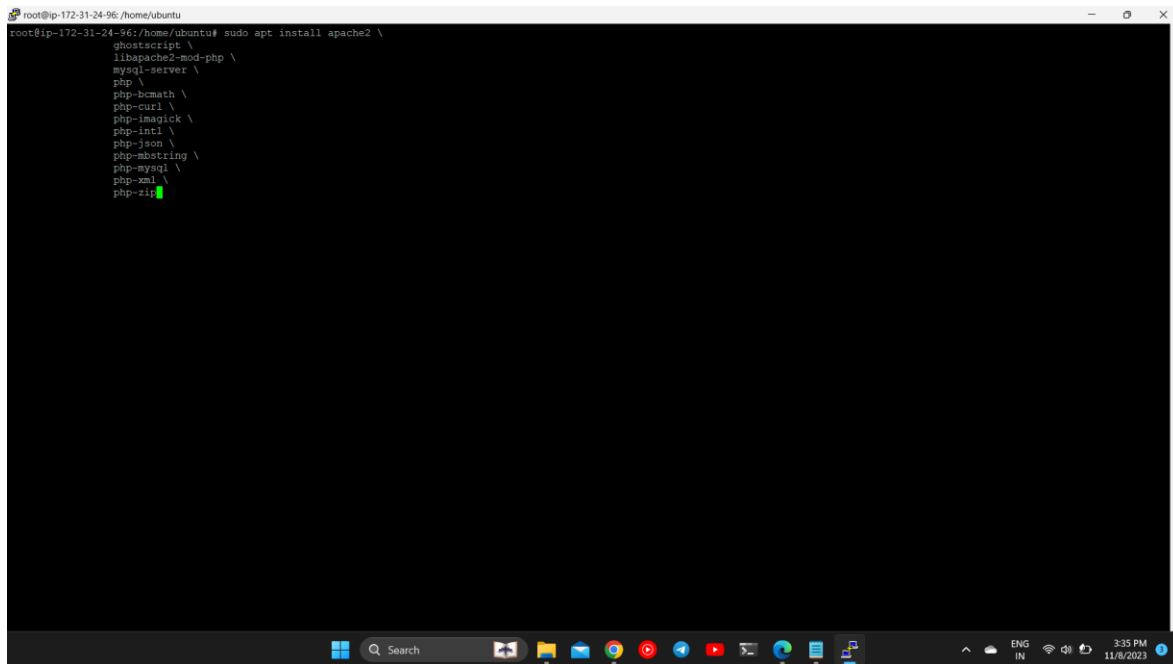
STEP 1)

Created two EC2 Instances. Both t2 tier eligible and running Ubuntu os on them. Configured the security groups on both of them.



STEP 2)

On instance 1, microservices-1 installed MariaDB, MySQL server along with the Lamp Stack Package.



STEP 3)

Configured the MySQL Database.

```
root@ip-172-31-24-96: /home/ubuntu
root@ip-172-31-24-96:/home/ubuntu# sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.35-0ubuntu0.22.04.1 (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 (0.06 sec)

mysql> CREATE USER wordpress@localhost IDENTIFIED BY 'admin123';
Query OK, 0 rows affected (0.04 sec)

mysql> GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,DROP,ALTER ON wordpress.' TO wordpress@localhost;
Query OK, 0 rows affected (0.00 sec)

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

mysql> quit
Bye
root@ip-172-31-24-96:/home/ubuntu# sudo service mysql start
root@ip-172-31-24-96:/home/ubuntu#
```

STEP 4)

On another EC2 instance : microservices-2 Installed Lamp Stack Package and Wordpress.

```
root@ip-172-31-24-96: /home/ubuntu
root@ip-172-31-24-96:/home/ubuntu# sudo apt install apache2 \
    git-core \
    libapache2-mod-php \
    mysql-server \
    php \
    php-bcmath \
    php-curl \
    php-imagick \
    php-intl \
    php-json \
    php-mbstring \
    php-mysql \
    php-xml \
    php-zip
```

```
root@ip-172-31-24-96:/home/ubuntu# sudo mkdir -p /srv/www
root@ip-172-31-24-96:/home/ubuntu# sudo chown www-data: /srv/www
root@ip-172-31-24-96:/home/ubuntu# curl https://wordpress.org/latest.tar.gz | sudo -u www-data tar xz -C /srv/www
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 23.3M  100 23.3M    0     0  1646k    0  0:00:14  0:00:14 --:--:-- 3130k
root@ip-172-31-24-96:/home/ubuntu#
```

STEP 5) Created Apache file and Configured apache for wordpress.

```
root@ip-172-31-24-96:/home/ubuntu# nano /etc/apache2/sites-available/wordpress.conf
<VirtualHost *:80>
    DocumentRoot /srv/www/wordpress
    <Directory /srv/www/wordpress>
        Options FollowSymLinks
        AllowOverride Limit Options FileInfo
        DirectoryIndex index.php
        Require all granted
    </Directory>
    <Directory /srv/www/wordpress/wp-content>
        Options FollowSymLinks
        Require all granted
    </Directory>
</VirtualHost>
```

STEP 6)

Configured Wordpress and Connected it to the Database. Configured the wp-config.php file and added the secret AUTH key to it.

```
root@ip-172-31-24-96:/home/ubuntu
GNU nano 6.2 /srv/www/wordpress/wp-config.php

/** Database hostname */
define( 'DB_HOST', 'localhost' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );

/**#@+
 * Authentication unique keys and salts.
 *
 * Change these to different unique phrases! You can generate these using
 * the (link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-key service).
 * You can change these at any point in time to invalidate all existing cookies.
 * This will force all users to have to log in again.
 *
 * @since 2.6.0
 */
define( 'AUTH_KEY',         'K0GNm-3e-mF-aq2R8v[I9(4>8W03LVE#]'s41M0WYhMS7eTOD(C55IwK0($,0s");
define( 'SECURE_AUTH_KEY', 'NxiH-a)k>H1L4**+ziJk.gQYbu**#YTC46),S,/, Qn7b-E:6P6ar7baIbz[oguJ]);
define( 'LOGGED_IN_KEY',    '7M-q19-w Q/3A:8Q,4"y*87we1_A82BcXN46)iHqjVxk 4t0Jrno=PCXMA);
define( 'NONCE_KEY',        '1-3*+B7LVO>48Hd11(3:arweI-F"IC1/Zz 4d4Yqk0t-cd4mo9(CU; YVaq-);
define( 'AUTH_SALT',        '8qas.aKCT8KEDGRK|=80L4(q0)-8R0X7(j6vzK038)+~(!-de8Jk-411K+>1b");
define( 'SECURE_AUTH_SALT', 'pYzMa-nF(r11TjE->ANdgv.KR-131[zmMPARo]AD(93(ct 0kwxK=0c(4EVV_>7D");
define( 'LOGGED_IN_SALT',   '3ic+>erakidgBt3i)08G) ID0.Ve4is))>48-NVFBw(7OMDO,--8H.w7e=Int");
define( 'NONCE_SALT',       '8fG X*4vG4-gbJJOimYorX-4tJ>-2cL*08jF9(DQsoCM8+***~^Jneg)68a7(i");

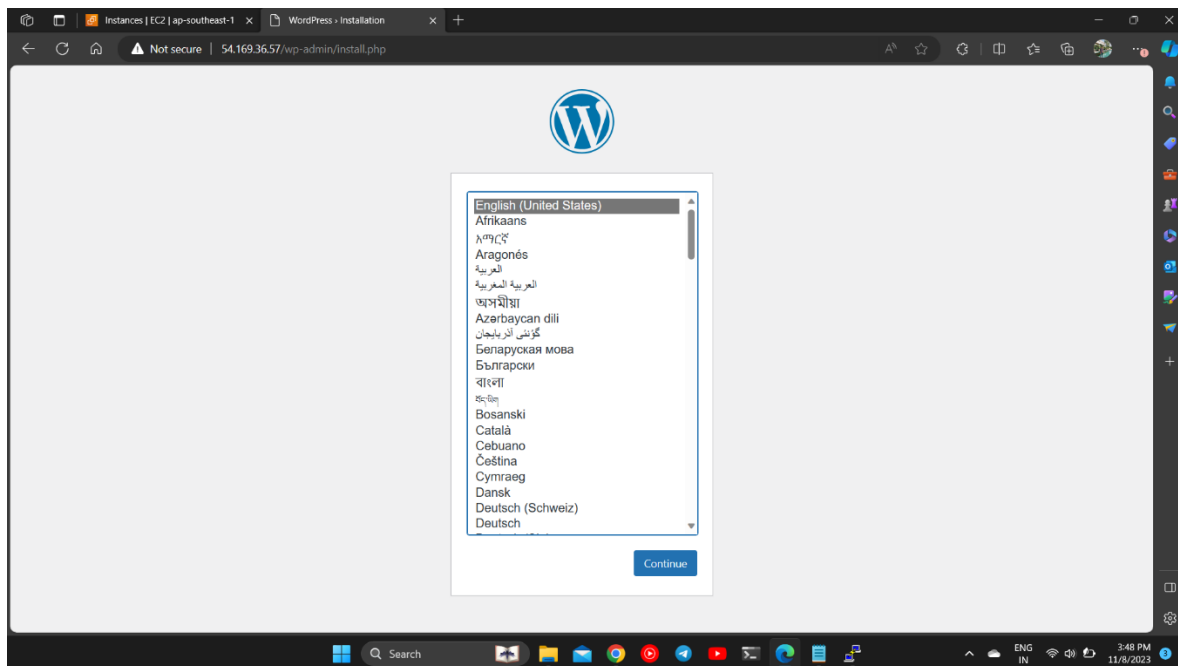
/**#@-*/

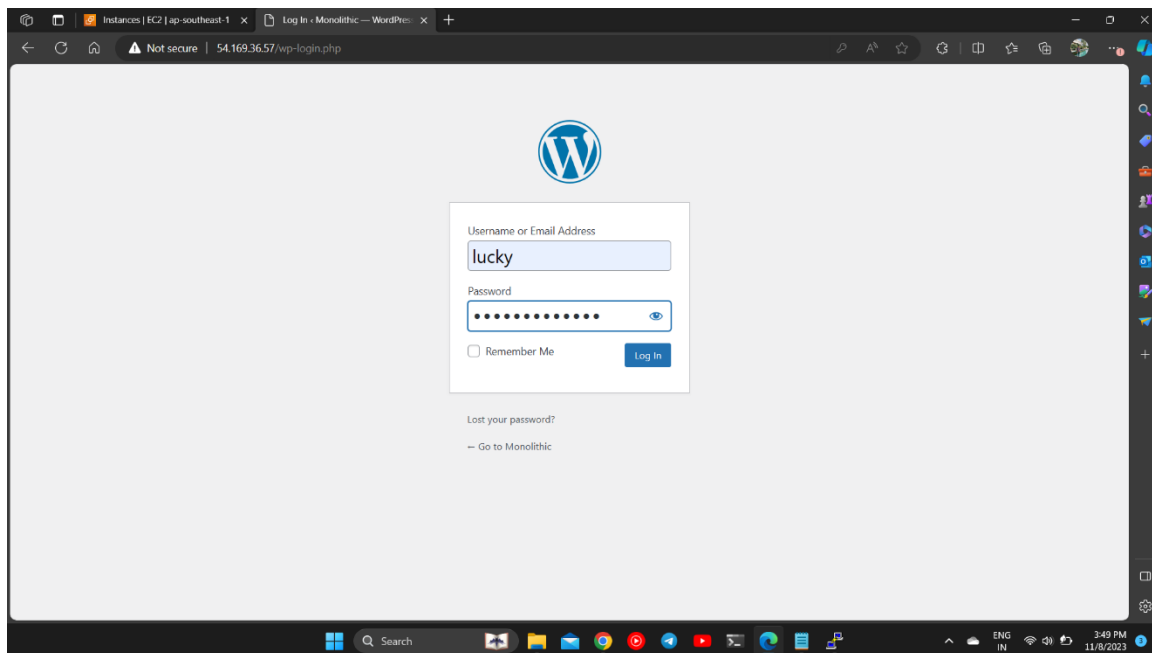
/**
 * WordPress database table prefix.
 *
 * You can have multiple installations in one database if you give each
 * a unique prefix. Only numbers, letters, and underscores please!
 */
$table_prefix = 'wp_';

/**
 * For developers: WordPress debugging mode.
 */
```

STEP 7)

Configured Wordpress.





STEP 8)

Created a new post and Deployed/published it live.



STEP 9)

You can now visit our live page which gives us information about our rising star Virat Kohli.

Page Link : <http://54.169.36.57/2023/11/08/elon-musk/>

