### **Key Commands and Configurations**

#### **For Monolithic Setup:**

# Connect to EC2 instance

ssh -i monolithic-instance2-key.pem ubuntu@15.207.86.50

# Update package repository

sudo apt update

# Install Apache

sudo apt install apache2 -y

# Install MySQL

sudo apt install mysql-server -y

sudo mysql\_secure\_installation

# Install PHP

sudo apt install php libapache2-mod-php php-mysql -y

# Download and configure WordPress

cd /tmp

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

tar -xvzf latest.tar.gz

#Move WordPress to the Apache directory:

sudo mv wordpress /var/www/html/

#Set permissions:

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

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

# Configure MySQL for WordPress

#Log in to MySQL:

sudo mysql -u root -p

#Create WordPress database and user:

CREATE DATABASE wordpress;

CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'password';

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

FLUSH PRIVILEGES;

EXIT;

# Configure WordPress

#Navigate to the WordPress directory:

cd /var/www/html/wordpress

#Create the WordPress configuration file:

sudo cp wp-config-sample.php wp-config.php

#Edit the configuration file:

sudo nano wp-config.php

# Update wp-config.php

define('DB\_NAME', 'wordpress');

define('DB\_USER', 'wordpressuser');

define('DB\_PASSWORD', 'password');

define('DB\_HOST', 'localhost');

# Restart Apache

sudo systemctl restart apache2

#### **For Microservices Setup:**

1. **MySQL Instance:**

# Connect to EC2 instance

ssh -i path\_to\_your\_key.pem ubuntu@your\_mysql\_instance\_public\_ip

# Update package repository

sudo apt update

# Install MySQL

sudo apt install mysql-server -y

sudo mysql\_secure\_installation

# Configure MySQL for remote access

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

# Change bind-address to 0.0.0.0

sudo systemctl restart mysql

# Configure MySQL for WordPress

sudo mysql -u root -p

CREATE DATABASE wordpress;

CREATE USER 'wordpressuser'@'your\_wordpress\_instance\_private\_ip' IDENTIFIED BY 'password';

GRANT ALL PRIVILEGES ON wordpress.\* TO 'wordpressuser'@'your\_wordpress\_instance\_private\_ip';

FLUSH PRIVILEGES;

EXIT;

2. WordPress Instance:

# Connect to EC2 instance

ssh -i micro-wordpress5-key.pem ubuntu@13.232.77.134

# Update package repository

sudo apt update

# Install Apache

sudo apt install apache2 -y

# Install PHP

sudo apt install php libapache2-mod-php php-mysql -y

# Download and configure WordPress

cd /tmp

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

tar -xvzf latest.tar.gz

sudo mv wordpress /var/www/html/

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

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

# Configure WordPress

cd /var/www/html/wordpress

sudo cp wp-config-sample.php wp-config.php

sudo nano wp-config.php

# Update wp-config.php

define('DB\_NAME', 'wordpress');

define('DB\_USER', 'wordpressuser');

define('DB\_PASSWORD', 'password');

define('DB\_HOST', 'mysql\_instance\_private\_ip');

# Restart Apache

sudo systemctl restart apache2