Description:

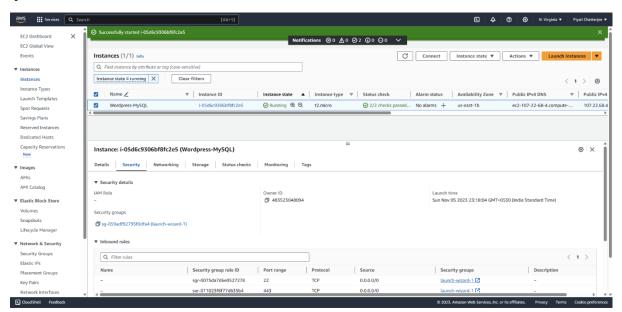
Task: Deploy Application in Monolothic and Microservices Architecture

- ---- For Monolithic: 1 EC2 Instance, deploy Wordpress and MySQL on the same Instance.
- ---- For Microservices: 2 EC2 Instances, 1 for Wordpress and 1 for MySQL
- ---- Configure the necessary security group for the instances.
- ---- EC2 Instance type: t2. micro, AMI: ubuntu

Task 1:

For Monolithic: 1 EC2 Instance, deploy Wordpress and MySQL on the same Instance.

i) <u>Created 1 Instance:</u>



ii) <u>Updated the server:</u> sudo apt-get update

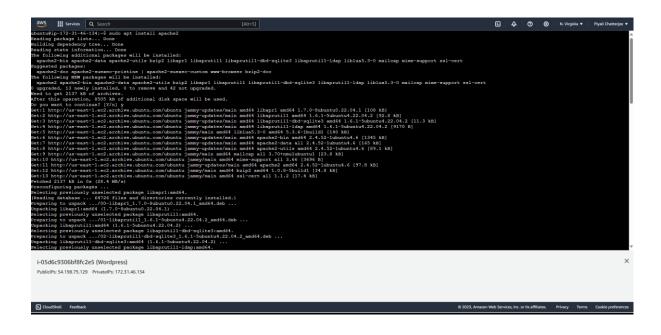
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## Services to Utunto | 27.04.3 | JPS (GMP/Linux 6.7.20-1012-wee st6_64) |

## Services | Albert | Albert
```

iii) <u>Installing apache webserver on the instance:</u> sudo apt install apache2



iv) <u>Install php runtime and php mysql connector:</u> sudo apt install php libapache2mod-php php-mysql

```
### Service Q Sourch [Alt5]

**A **C Sourch Principle****

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**A **C Sourch Principle***

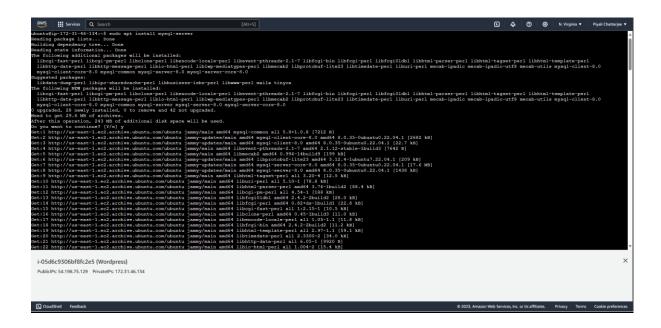
**A **C Sourch Principle**

**A **C Sourch Principle***

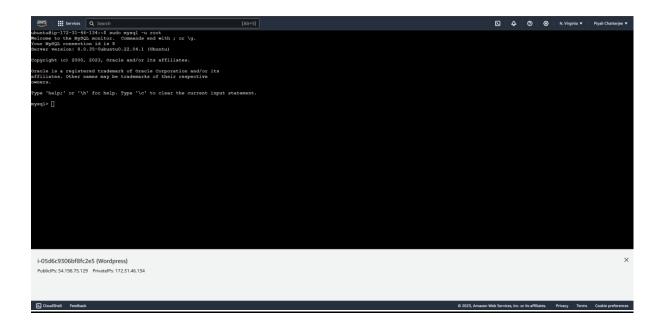
**A **C Sourch Principle**

**A **C Sourch Principle**
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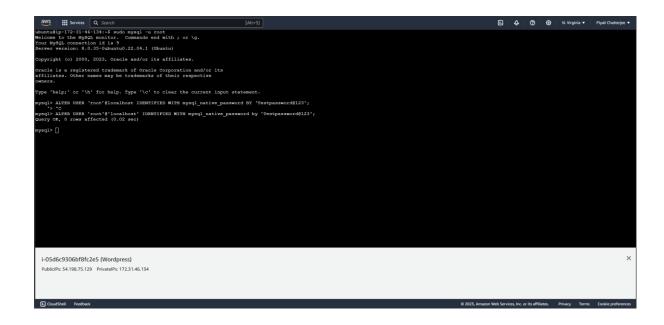
v) <u>Install mysql-server:</u> sudo apt install mysql-server



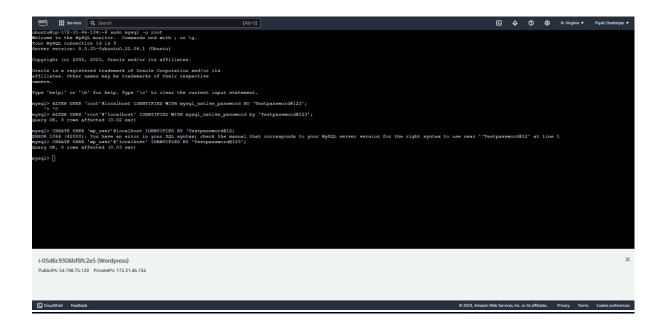
vi) <u>Login to MySQL server:</u> sudo mysql -u root



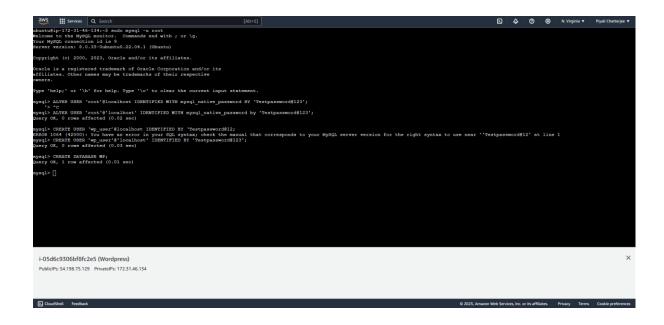
vii) Change authentication plugin to mysql_native_password: ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'Testpassword@123';



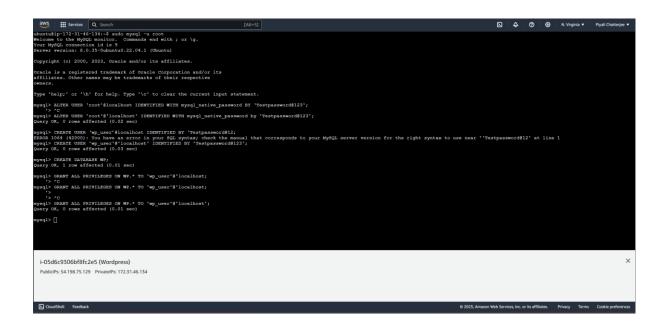
viii) Create a new database user for Wordpress: CREATE USER 'wp_user'@'localhost' IDENTIFIED BY 'Testpassword@123;



ix) Create a database for Wordpress: CREATE DATABASE WP;



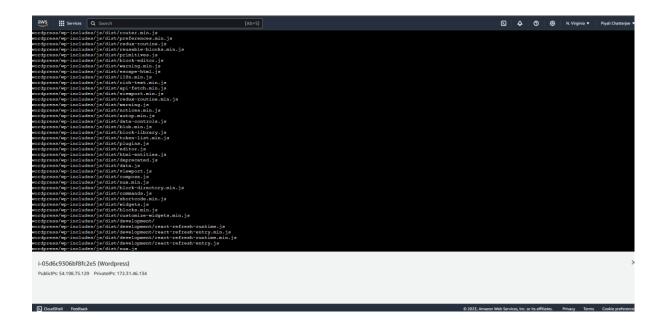
x) Grant all priviledges on the database WP to the newly created user: GRANT ALL PRIVILEGES ON WP.* TO 'wp_user'@'localhost';



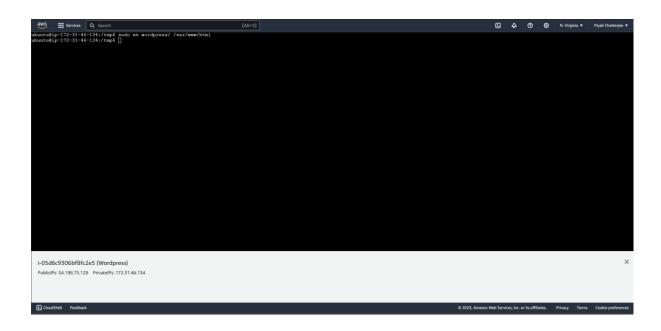
xi) Download Wordpress: cd /tmp

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

xii) Unzip: tar -xvf latest.tar.gz



xiii) Move Wordpress folder to apache document root: sudo mv wordpress/ /var/www/html



xiv) Commands to create config file:

- Cd /var/www/html
- Cd wordpress
- Nano wp-config.php

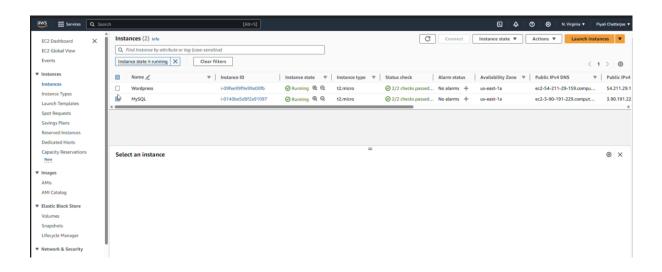
xv) Wordpress website:



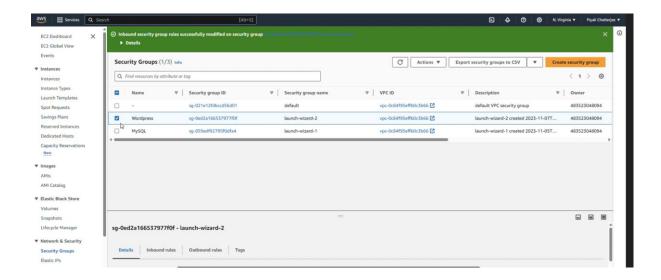
Task 2:

For Microservices: 2 EC2 Instances, 1 for Wordpress and 1 for MySQL:

i) Created 2 EC2 Instances- 1 for Wordpress and 1 for MySQL:



ii) Configured the security groups of the instances:



iii) Connected to the MySQL server and updated:

Command: sudo apt update

iv) <u>Install php runtime and php mysql connector:</u> sudo apt install php libapache2mod-php php-mysql

v) <u>Install mysql-server:</u> sudo apt install mysql-server

```
buntudip-172-31-22-64:4 sudo apt install mysql-server

Mending package lists... Done

Reading package will be installed:

libogi-fast-parl libogi-pa-perl libleone-perl libenoods-locale-perl libevent-pthreads-2.1-7 libfogi-bin libfogi-perl libfogildbi libbtal-parser-perl libhtal-tagset-perl libhtal-tagset-perl libhtal-tagset-perl libhtal-tagset-perl libhtal-tagset-perl libbtal-tagset-perl libbtal-tagset-per
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vi) Login to MySQL server: sudo mysql -u root

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Who is services. Q Search

Whomstudip-172-31-05-641-4 sudo sympl -u root

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Server versions. 8.0.35-044840.02.2.64.1 (Ubustus)

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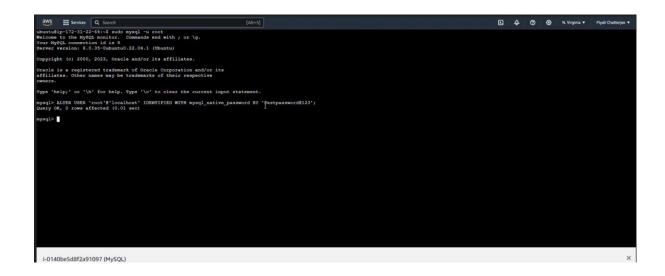
Cracle is a repistered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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

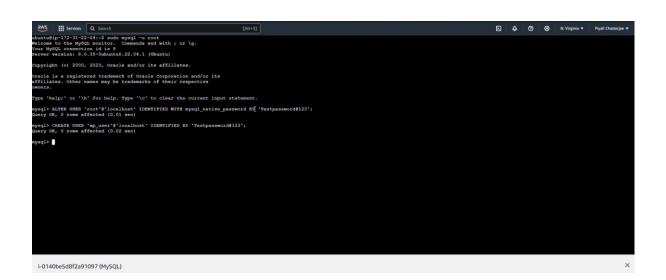
mysql> 

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```

vii) Change authentication plugin to mysql_native_password: ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'Testpassword@123';



viii) Create a new database user for Wordpress: CREATE USER 'wp_user'@'localhost' IDENTIFIED BY 'Testpassword@123;



ix) Create a database for Wordpress: CREATE DATABASE wp;

x) Grant all priviledges on the database wp to the newly created user: GRANT ALL PRIVILEGES ON wp.* TO 'wp_user'@'localhost';

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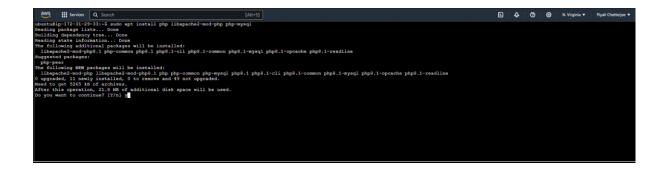
xi) Connected to the Wordpress server and updated:

Command: sudo apt update

xii) <u>Installing apache webserver on the instance:</u> sudo apt install apache2

```
ubuntu#lp-172-11-29-33:-0 sudo apt install spache2 -y
minding depend in the section on the section of the secti
```

xiii) <u>Install php runtime and php mysql connector:</u> sudo apt install php libapache2mod-php php-mysql



xiv) Download Wordpress: cd/tmp

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

xv) Move Wordpress folder to apache document root: sudo mv wordpress//var/www/html



xvi) _Unzip: tar -xvf latest.tar.gz

```
### Services Q Search

Whother@sp-172-31-29-331/app$ sudo av latest.tar.gs /var/www/html

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Abstracting-172-31-29-331/aps/w
```

xvii) Commands to create config file:

- Cd /var/www/html
- Cd wordpress
- Nano wp-config.php

xviii) Wordpress website:

my sample website	Sample Page
Mindblown: a blog about philosophy.	
Hello world! Welcome to WordPress. This is your first post.	
Edit or delete it, then start writing! November 5, 2023	
Got any book recommendations?	
Get In Touch	

Thank you!!