

TECHPLEMENT - Cloud AWS Intern

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Task 1: Monolithic:- 1 EC2 instance, deploying Wordpress and MySQL on the same instance

Steps:1

Login to aws account.

Create 1 instance

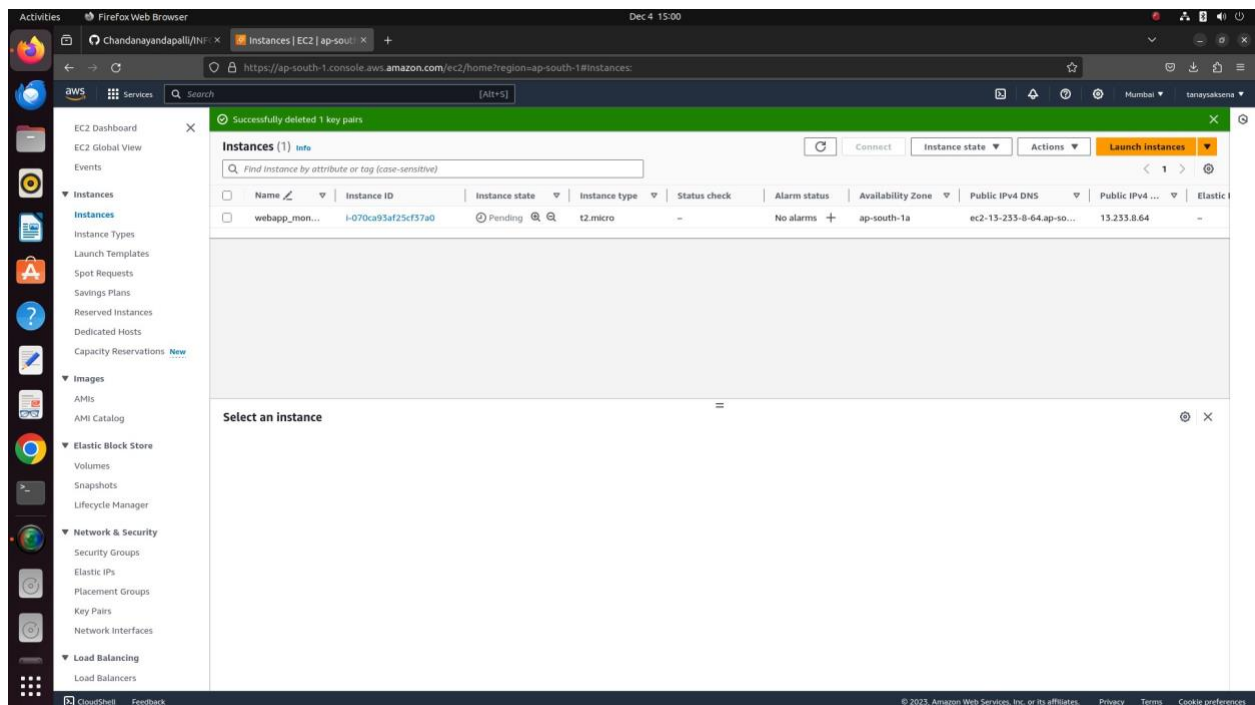
Instance Specifications

Name: webapp_mono

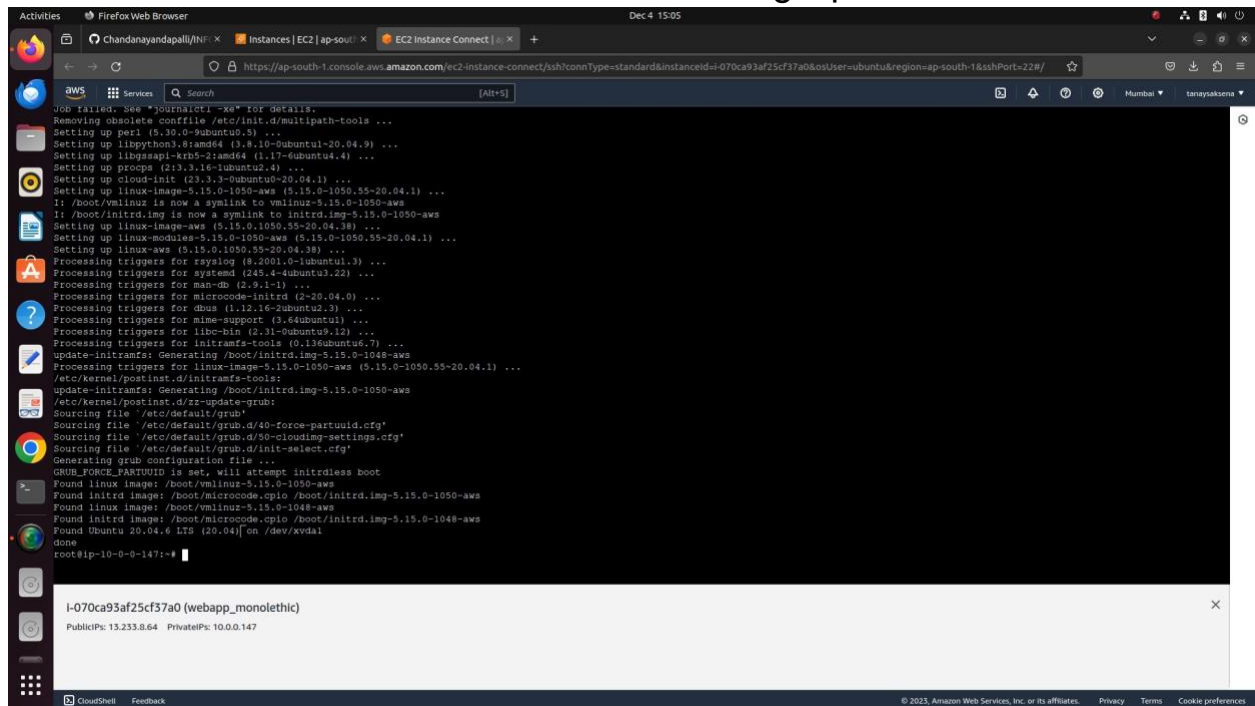
OS: Ubuntu

Instance Type: t2.micro

Instance is up & running

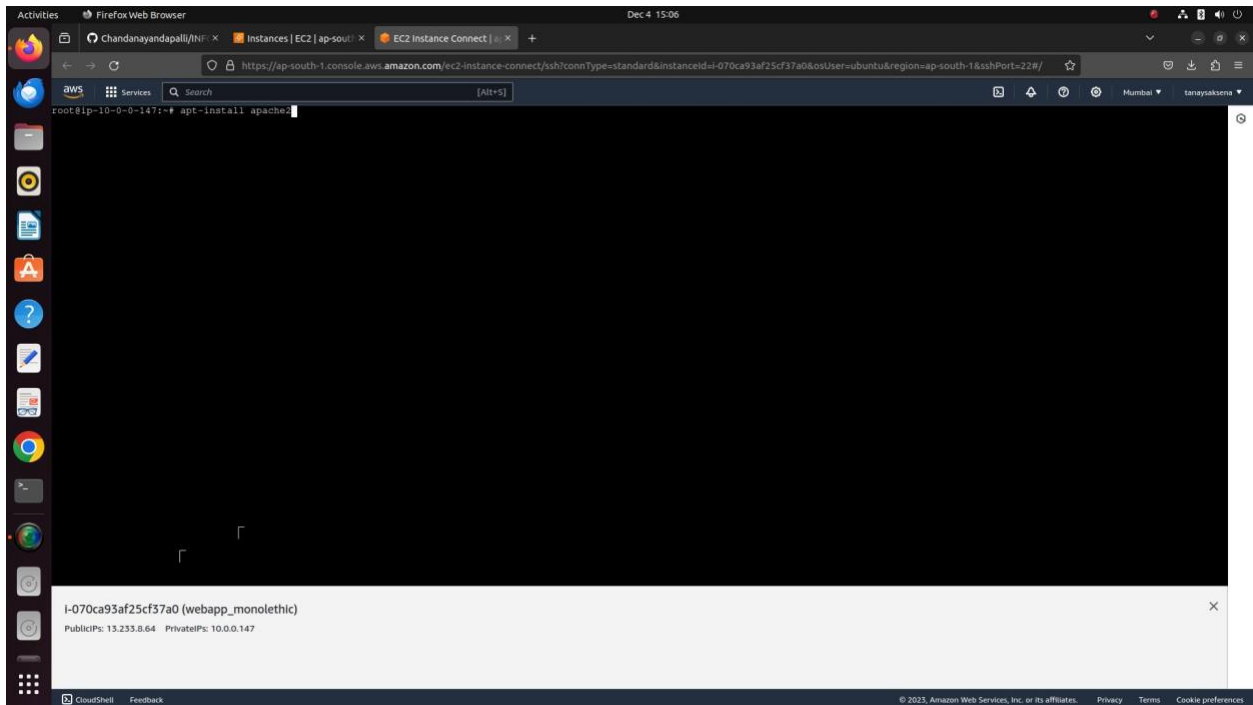


Connected to EC2 instance via SSH & Installing Update



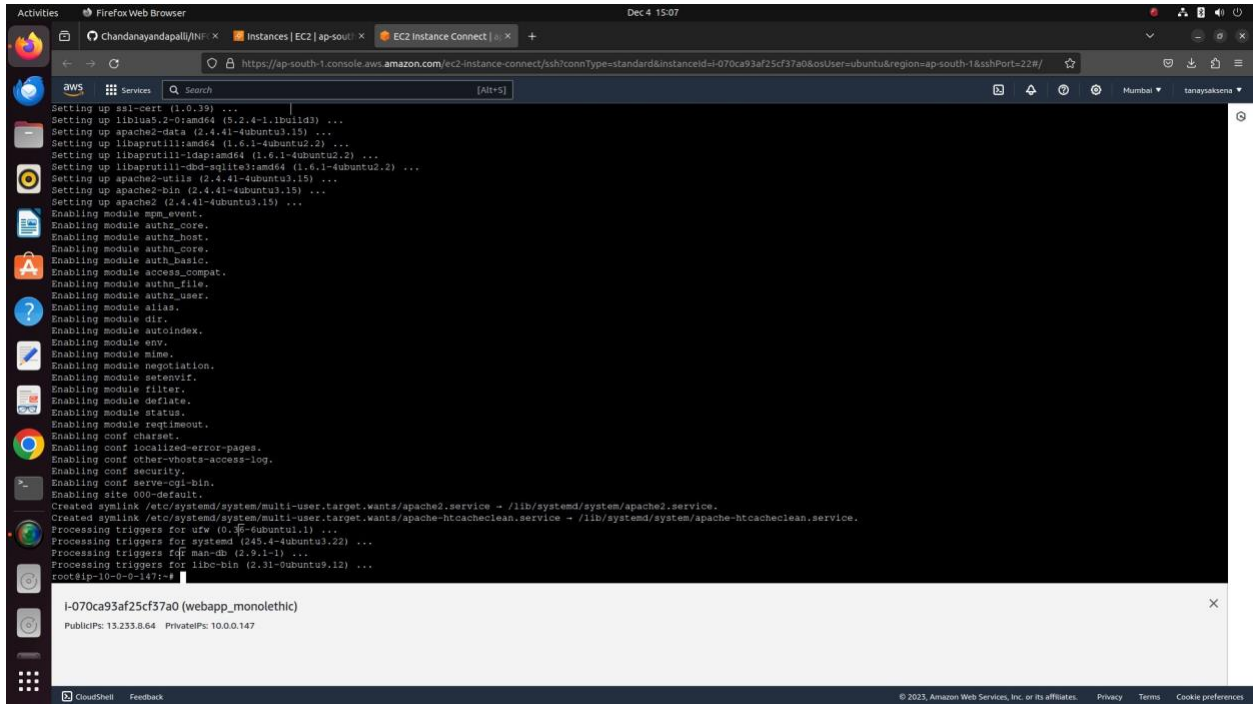
```
Job failed. See "journalctl -xe" for details.
Removing obsolete configfile /etc/init.d/multipath-tools ...
Setting up perl (5.30.0-0ubuntu0.5) ...
Setting up libpython3.8:amd64 (3.8.10-0ubuntu1-20.04.9) ...
Setting up libgssapi-krb5-2:amd64 (1.17-0ubuntu4.4) ...
Setting up procps (2:3.3.16-1ubuntu2.4) ...
Setting up cloud-init (23.3.3-0ubuntu20-04.1) ...
Setting up linux-image-5.15.0-1050-aws (5.15.0-1050.55-20.04.1) ...
I: /boot/vmlinuz is now a symlink to vmlinuz-5.15.0-1050-aws
I: /boot/initrd.img is now a symlink to initrd.img-5.15.0-1050-aws
Setting up linux-image-aws (5.15.0.1050.55-20.04.38) ...
Setting up linux-modules-5.15.0-1050-aws (5.15.0-1050.55-20.04.1) ...
Setting up linux-aws (5.15.0.1050.55-20.04.38) ...
Processing triggers for rsyslog (8.2001.0-1ubuntu1.3) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for microcode-initrd (2-20.04.0) ...
Processing triggers for dbus (1.12.16-2ubuntu2.3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.12) ...
Processing triggers for initramfs-tools (0.136ubuntu6.7) ...
update-initramfs: Generating /boot/initrd.img-5.15.0-1048-aws
Processing triggers for linux-image-5.15.0-1050-aws (5.15.0-1050.55-20.04.1) ...
update-initramfs: Generating /boot/initrd.img-5.15.0-1050-aws
/etc/kernel/postinst.d/initramfs-tools:
/etc/kernel/postinst.d/fix-update-grub:
Sourcing file '/etc/default/grub'
Sourcing file '/etc/default/grub.d/40-force-partuuid.cfg'
Sourcing file '/etc/default/grub.d/50-cloudimg-settings.cfg'
Sourcing file '/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
GRUB_FORCE_PARTUUID is set, will attempt initrdless boot
Found linux image: /boot/vmlinuz-5.15.0-1050-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.15.0-1050-aws
Found linux image: /boot/vmlinuz-5.15.0-1048-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.15.0-1048-aws
Found Ubuntu 20.04.6 LTS (20.04) on /dev/xvda1
done
root@ip-10-0-0-147:~#
```

Installing Apache2 server

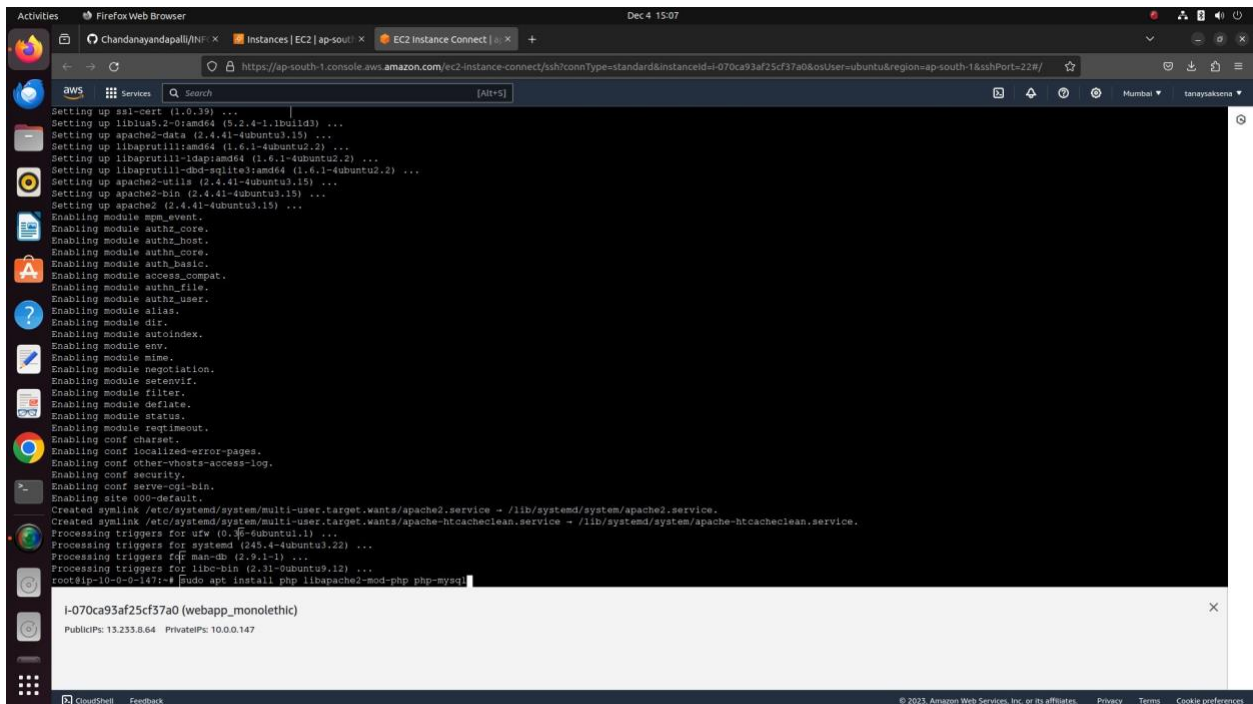


```
root@ip-10-0-0-147:~# apt install apache2
```

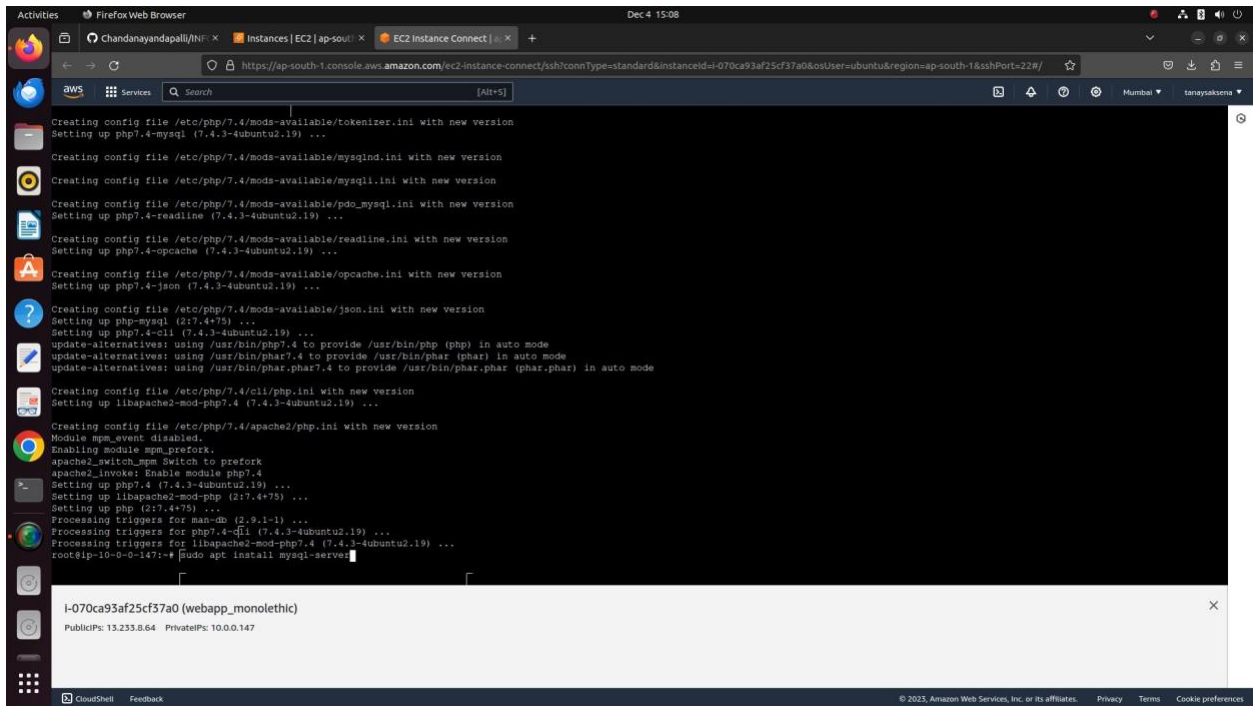
Apache Installed



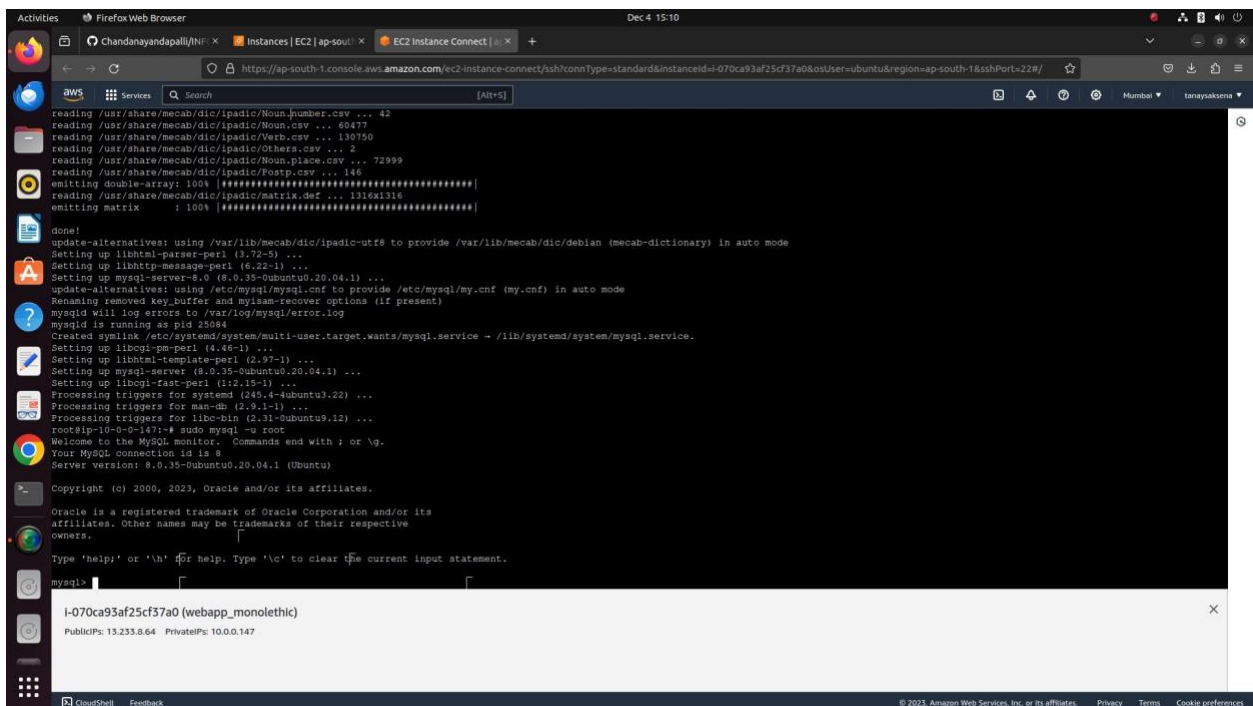
Installing PHP Dependencies and my sql connector



Installing MY SQL SERVER



Sql Server login



Root user Password changed

The screenshot shows a terminal window in AWS CloudShell. The terminal output displays the installation of MySQL on an Ubuntu 20.04.1 instance. It includes steps for reading configuration files, setting up alternatives, creating a systemd service, and starting the MySQL server. The user 'root' is logged in, and the MySQL connection ID is 8. The server version is 8.0.35-0ubuntu0.20.04.1 (Ubuntu). The terminal also shows the output of the 'ALTER USER' command, which was successful.

```
reading /usr/share/mecab/dic/ipadic/Otheds.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.placement.csv ... 72999
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
emitting double-array: 100% |#####|
reading /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 (3.72-5) ...
Setting up libhttp-message-perl (6.22-1) ...
Setting up mysql-server-8.0 (8.0.35-0ubuntu0.20.04.1) ...
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Renaming removed key_buffer and myisam-recover options (if present)
mysql will log errors to /var/log/mysql/error.log
mysql is running as pid 25084
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib/systemd/system/mysql.service.
Setting up libioctl-perl (4.46-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mysql-server (8.0.35-0ubuntu0.20.04.1) ...
Setting up libioctl-fast-perl (1:2.15-1) ...
Processing triggers for systemd (245.4-ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.12) ...
root@ip-10-0-0-147:~# sudo mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.35-0ubuntu0.20.04.1 (Ubuntu)

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owners.

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

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'test1234';
Query OK, 0 rows affected (0.01 sec)
```

New user created in my sql

The screenshot shows the same terminal window as the previous one, but with the output of the 'CREATE USER' command. The user 'tanay' has been successfully created with the password 'test1234'.

```
mysql> CREATE USER 'tanay'@'localhost' IDENTIFIED BY 'test1234';
Query OK, 0 rows affected (0.01 sec)

mysql>
```

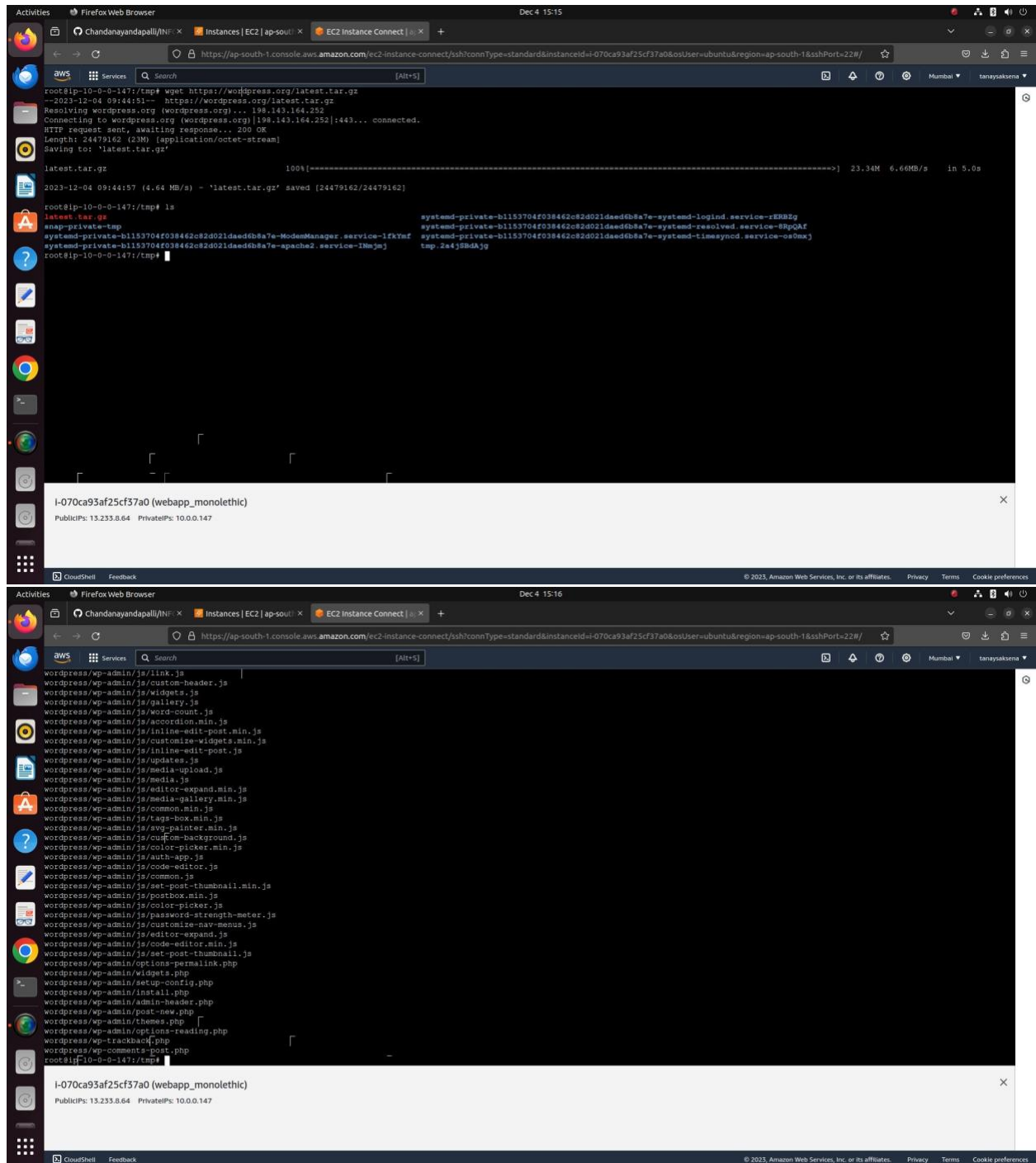
Created Database


```
done!  
update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode  
Setting up libhttp-message-perl (2.72-5) ...  
Setting up libhttp-message-perl (6.22-1) ...  
Setting up mysql-server-8.0 (8.0.35-0ubuntu0.20.04.1) ...  
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode  
Renaming removed key buffer and myisam-recover options (if present)  
mysqld will log errors to /var/log/mysql/error.log  
mysqld is running as pid 25084  
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib/systemd/system/mysql.service.  
Setting up liblogi-pm-perl (4.46-1) ...  
Setting up libhtml-template-perl (2.97-1) ...  
Setting up mysql-server (8.0.35-0ubuntu0.20.04.1) ...  
Setting up liblogi-fast-perl (1:2.15-1) ...  
Processing triggers for systemd (245.4-4ubuntu3.22) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.12) ...  
root@ip-10-0-0-147:~# sudo mysql -u root  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 8.0.35-0ubuntu0.20.04.1 (Ubuntu)  
  
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owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'test1234';  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> CREATE USER 'tanay'@'localhost' IDENTIFIED BY 'test1234';  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> CREATE DATABASE wp;  
Query OK, 1 row affected (0.00 sec)  
  
mysql>
```

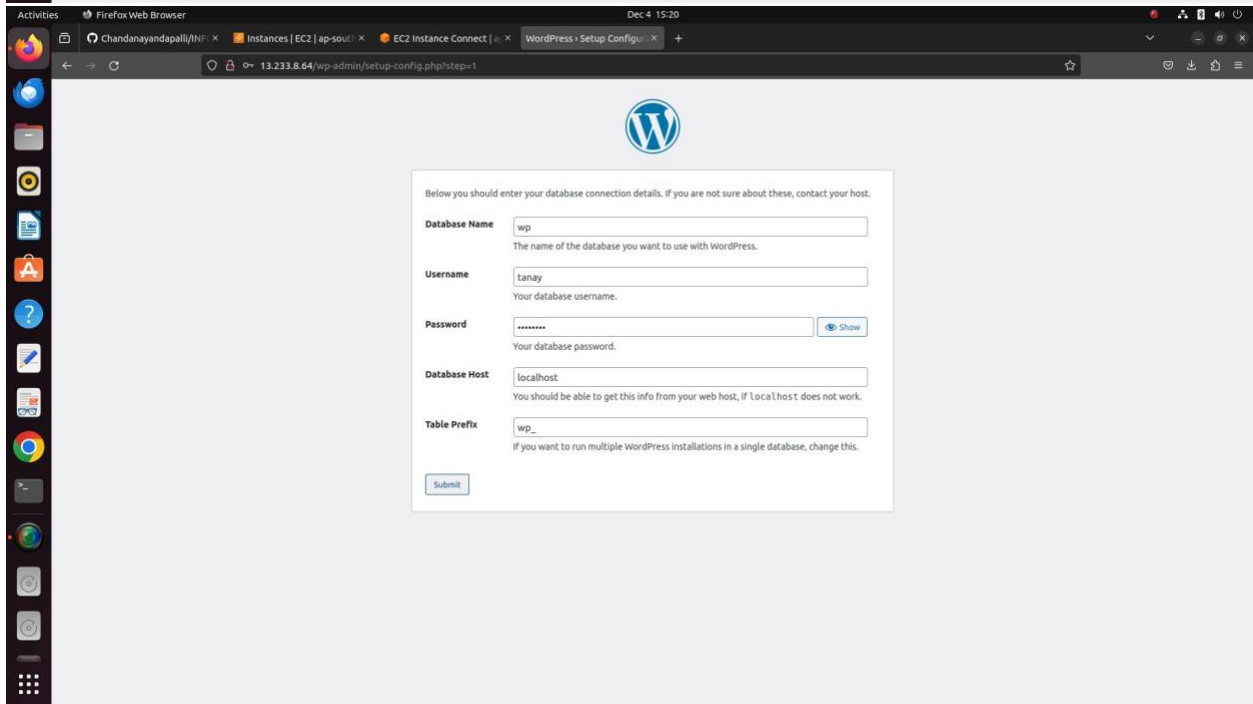
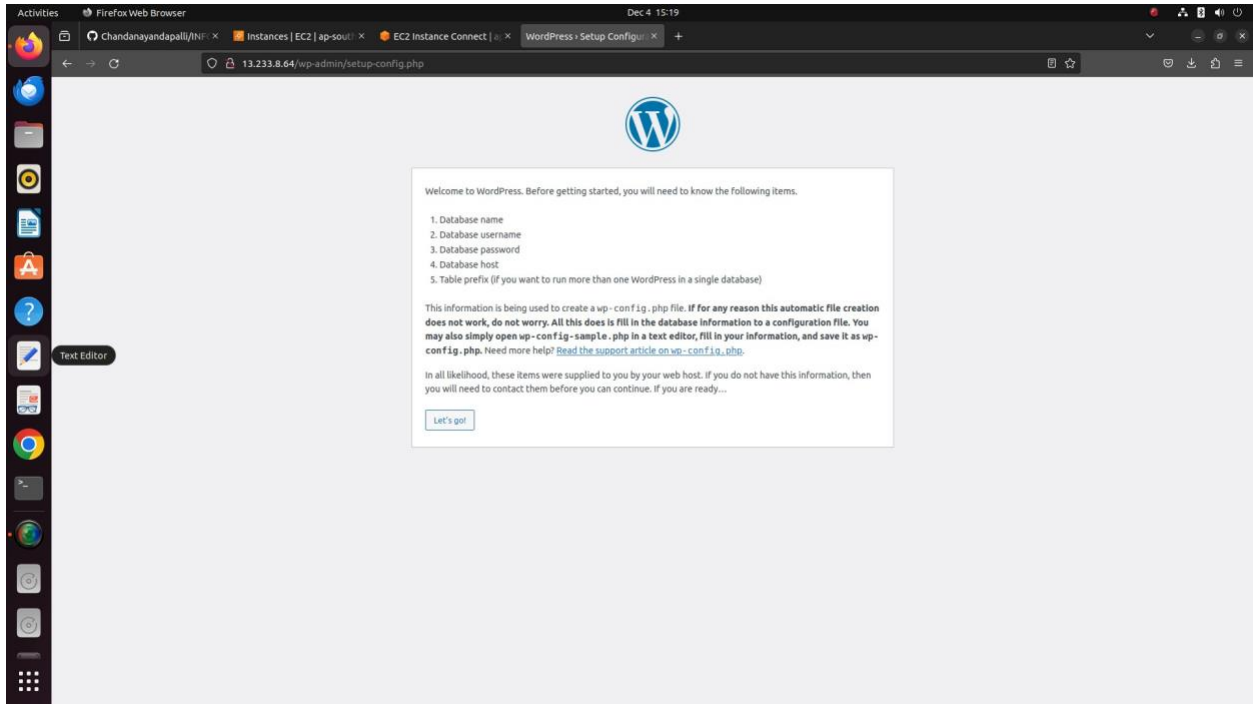
Granted all Privileges to new user

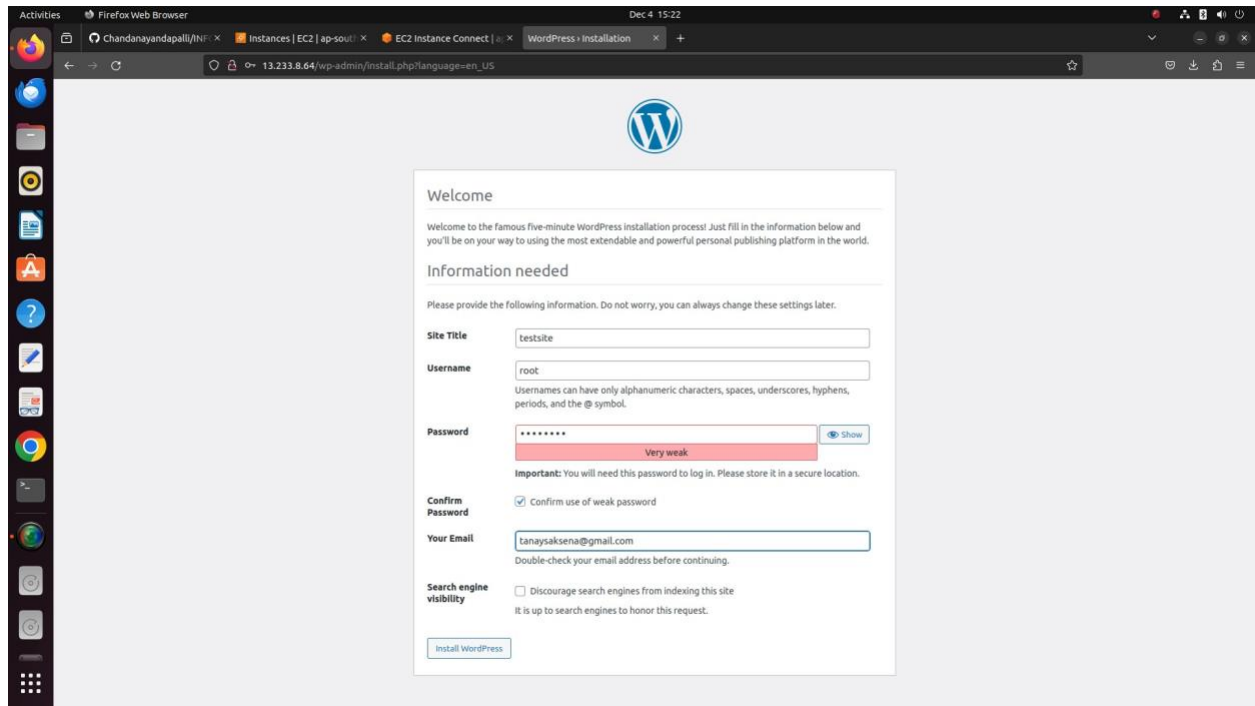
```
Setting up libhtml-parser-perl (3.72-5) ...  
Setting up libhttp-message-perl (6.22-1) ...  
Setting up mysql-server-8.0 (8.0.35-0ubuntu0.20.04.1) ...  
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode  
Renaming removed key buffer and myisam-recover options (if present)  
mysqld will log errors to /var/log/mysql/error.log  
mysqld is running as pid 25084  
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib/systemd/system/mysql.service.  
Setting up liblogi-pm-perl (4.46-1) ...  
Setting up libhtml-template-perl (2.97-1) ...  
Setting up mysql-server (8.0.35-0ubuntu0.20.04.1) ...  
Setting up liblogi-fast-perl (1:2.15-1) ...  
Processing triggers for systemd (245.4-4ubuntu3.22) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.12) ...  
root@ip-10-0-0-147:~# sudo mysql -u root  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 8.0.35-0ubuntu0.20.04.1 (Ubuntu)  
  
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owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'test1234';  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> CREATE USER 'tanay'@'localhost' IDENTIFIED BY 'test1234';  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> CREATE DATABASE wp;  
Query OK, 1 row affected (0.00 sec)  
  
mysql> GRANT ALL PRIVILEGES ON wp.* TO 'tanay'@'localhost';  
Query OK, 0 rows affected (0.01 sec)  
  
mysql>
```

Download, unzip and copy wordpress to /var/www/html



Wordpress installation and Configure





Wordpress login and created new front page

