

TECHPLEMENT - Cloud AWS Intern

Name: MEESALA SIVASANAR

Github: <https://github.com/sivamisal>

LinkedIn: <https://www.linkedin.com/in/siva-misal-7b952290/>

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

Steps:1

Login to aws account.

Create 1 instance

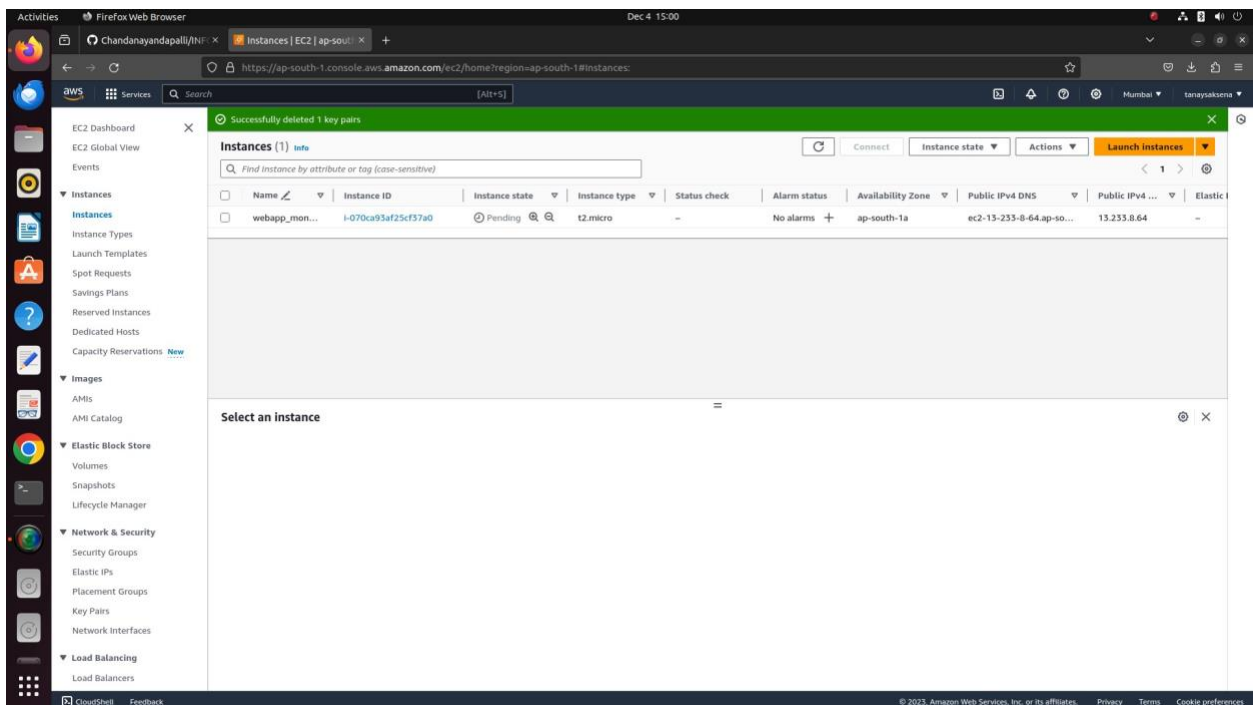
Instance Specifications

Name: webapp_mono

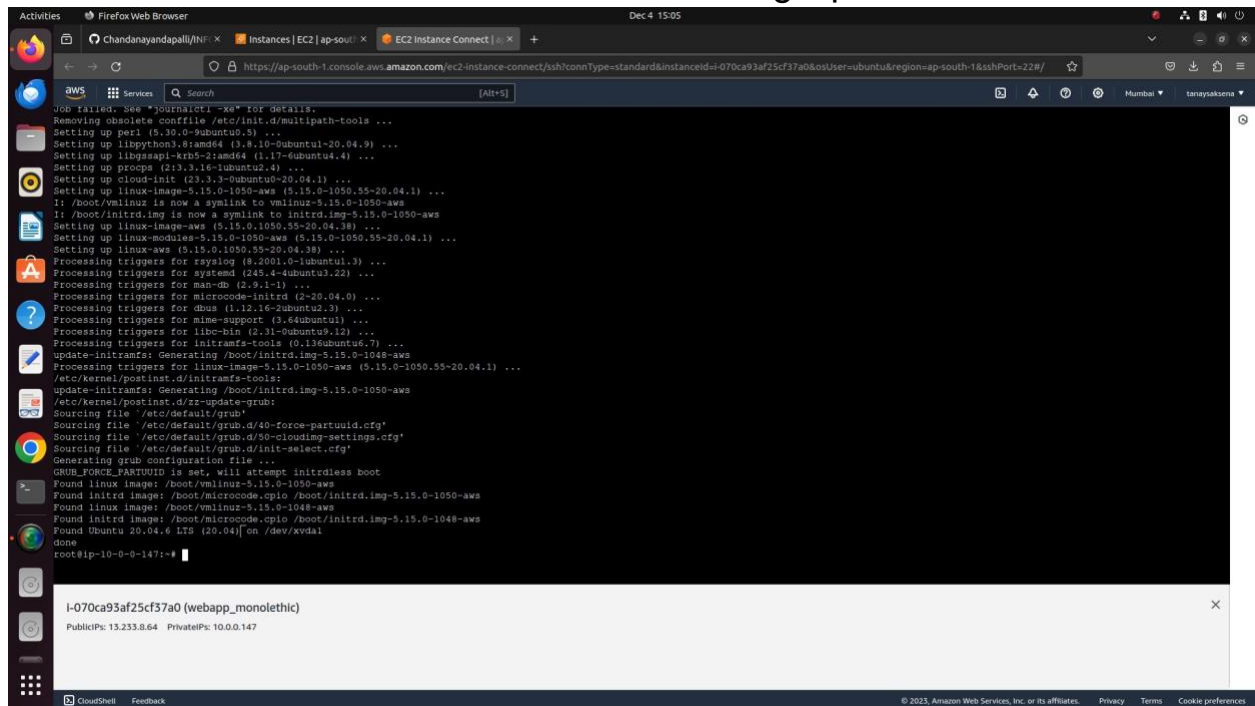
OS: Ubuntu

Instance Type: t2.micro

Instance is up & running



Connected to EC2 instance via SSH & Installing Update



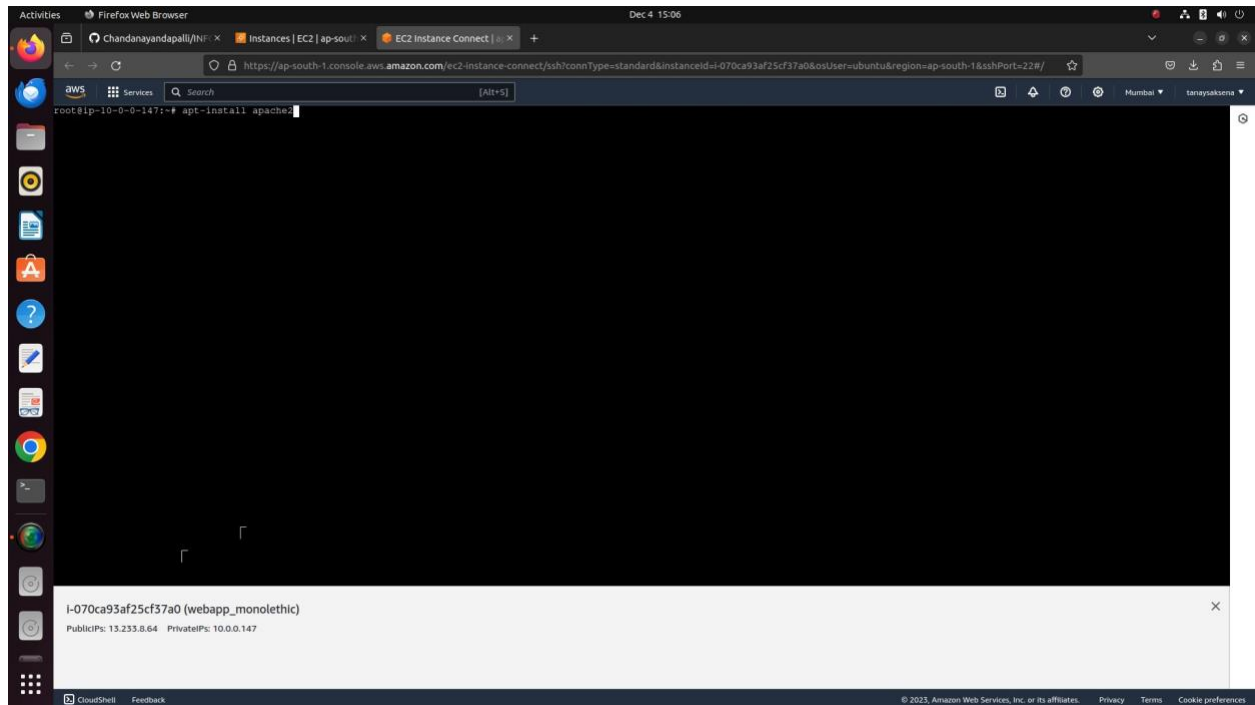
The screenshot shows a terminal window connected to an EC2 instance via SSH. The terminal output displays the following commands and their results:

```
Job failed. See "journalctl -xe" for details.
Removing obsolete configfile /etc/init.d/multipath-tools ...
Setting up perl (5.30.0-ubuntu0.5) ...
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-ubuntu2.4) ...
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:~#
```

A pop-up window at the bottom of the terminal displays the instance ID and public/private IP addresses:

```
i-070ca93af25cf37a0 (webapp_monoethic)
PublicIPs: 13.233.8.64 PrivateIPs: 10.0.0.147
```

Installing Apache2 server

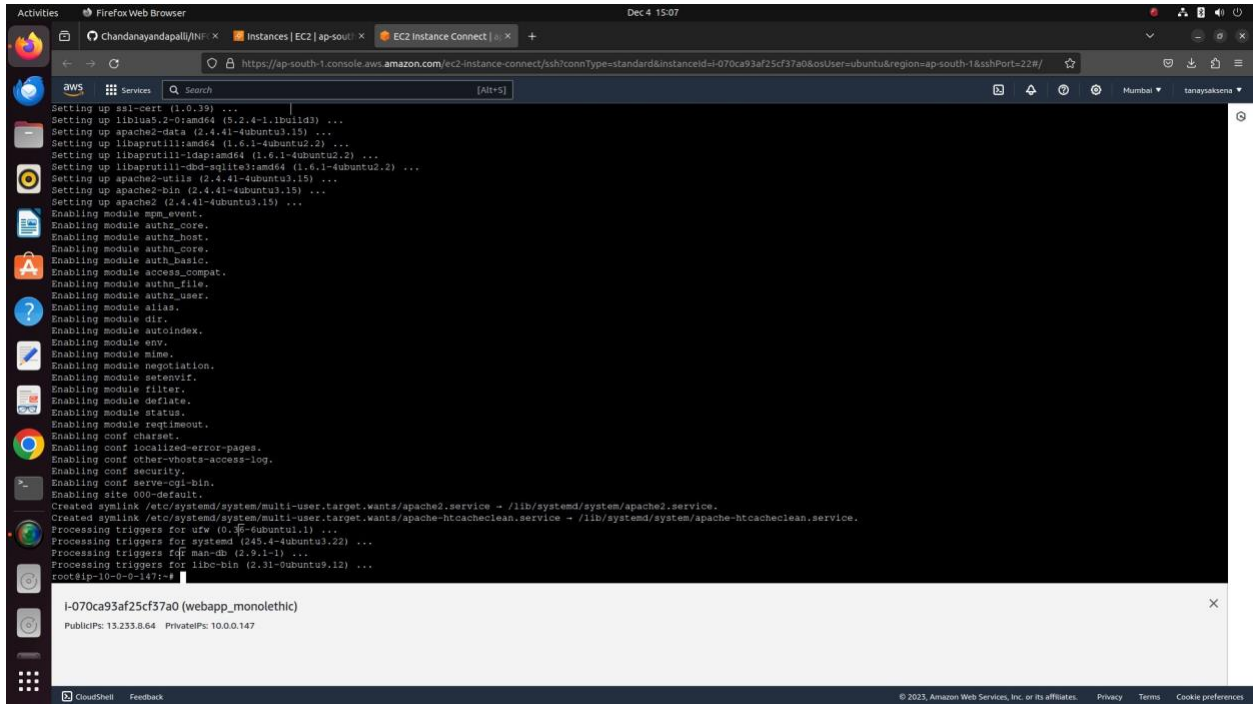


The screenshot shows the same terminal window as the previous one, but now the command `apt-get install apache2` has been entered. The terminal output is as follows:

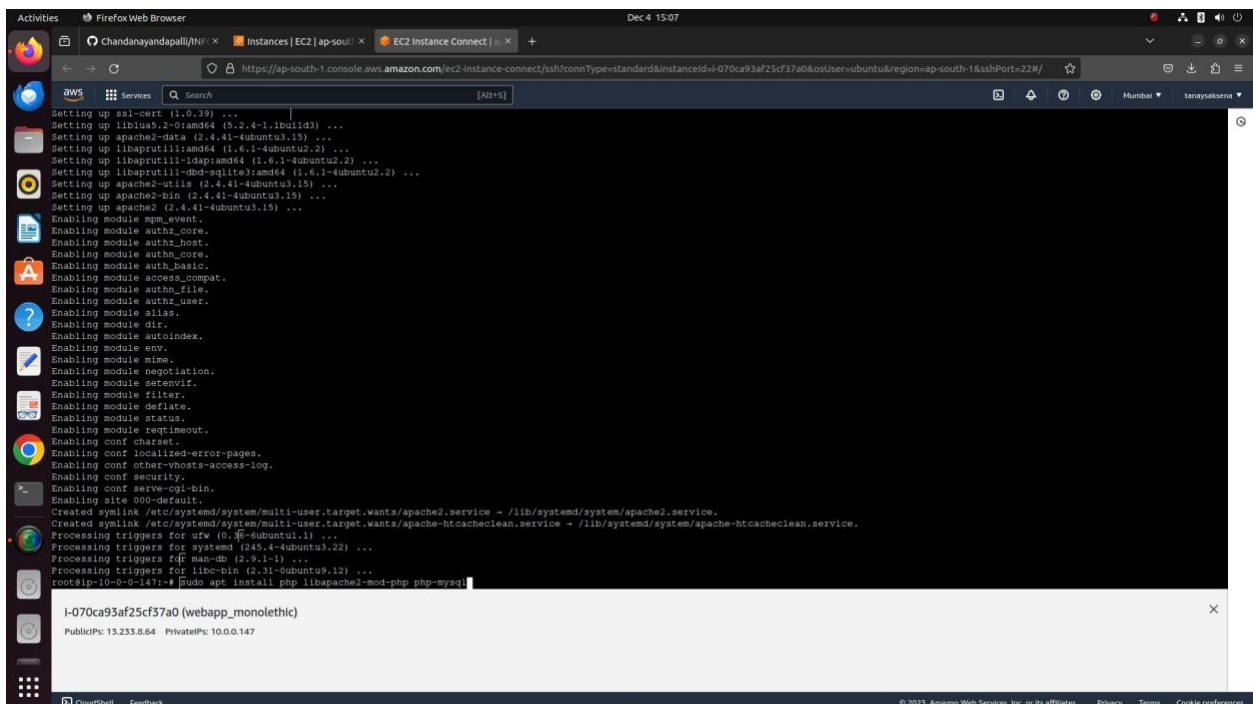
```
root@ip-10-0-0-147:~# apt-get install apache2
```

The pop-up window at the bottom remains the same, showing the instance ID and IP addresses.

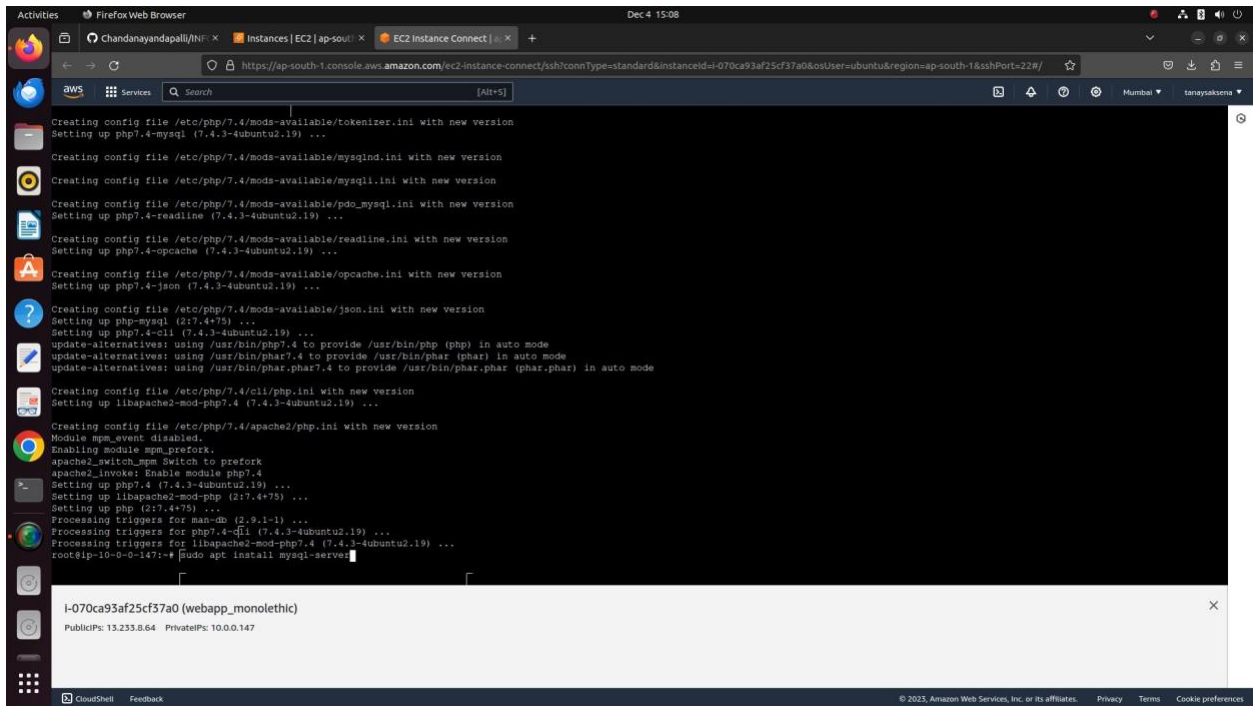
Apache Installed



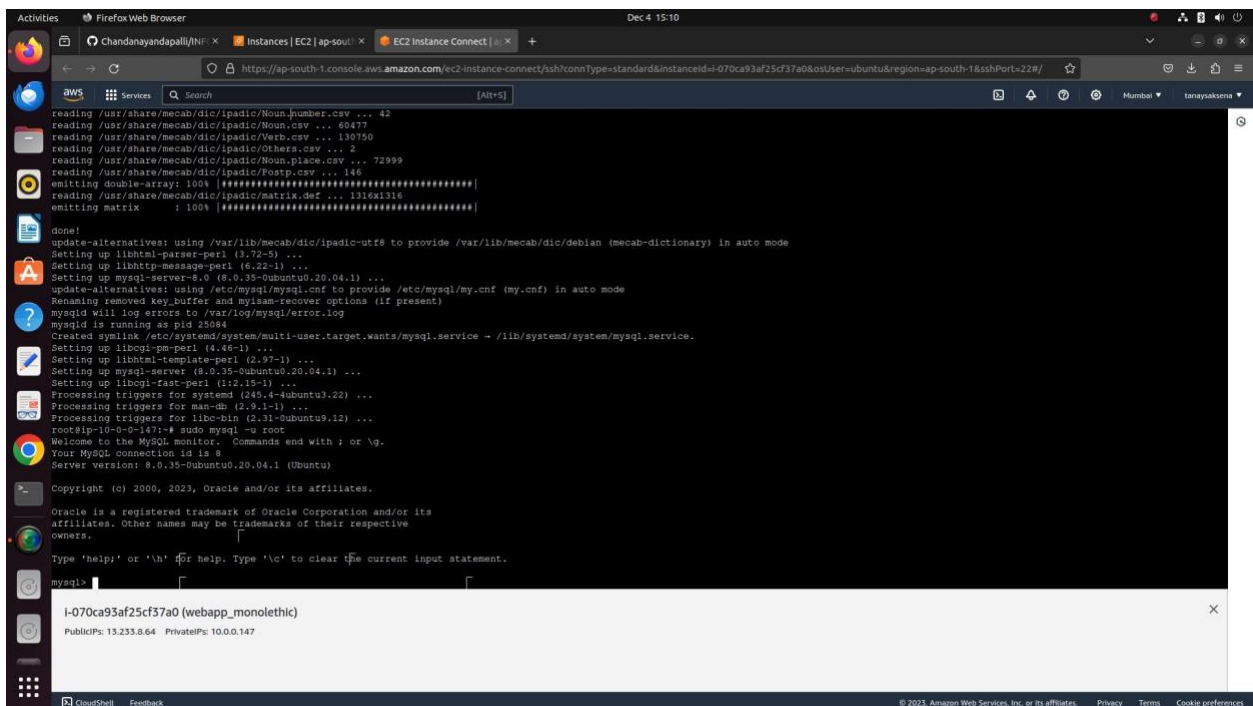
Installing PHP Dependencies and my sql connector



Installing MY SQL SERVER



Sql Server login



Root user Password changed

The screenshot shows the AWS CloudShell terminal interface. 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, and starting the MySQL service. The MySQL server is running as pid 25084. The terminal also shows the MySQL prompt where the user 'root' is logged in. A warning message at the bottom indicates the instance is a webapp_monoethic.

```
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)

mysql>
```

New user created in my sql

This screenshot shows the continuation of the MySQL terminal session. The user 'root' has executed the command to create a new user 'tanay' with the password 'test1234'. The terminal output confirms that the user was created successfully. The warning message at the bottom remains the same.

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

mysql>
```

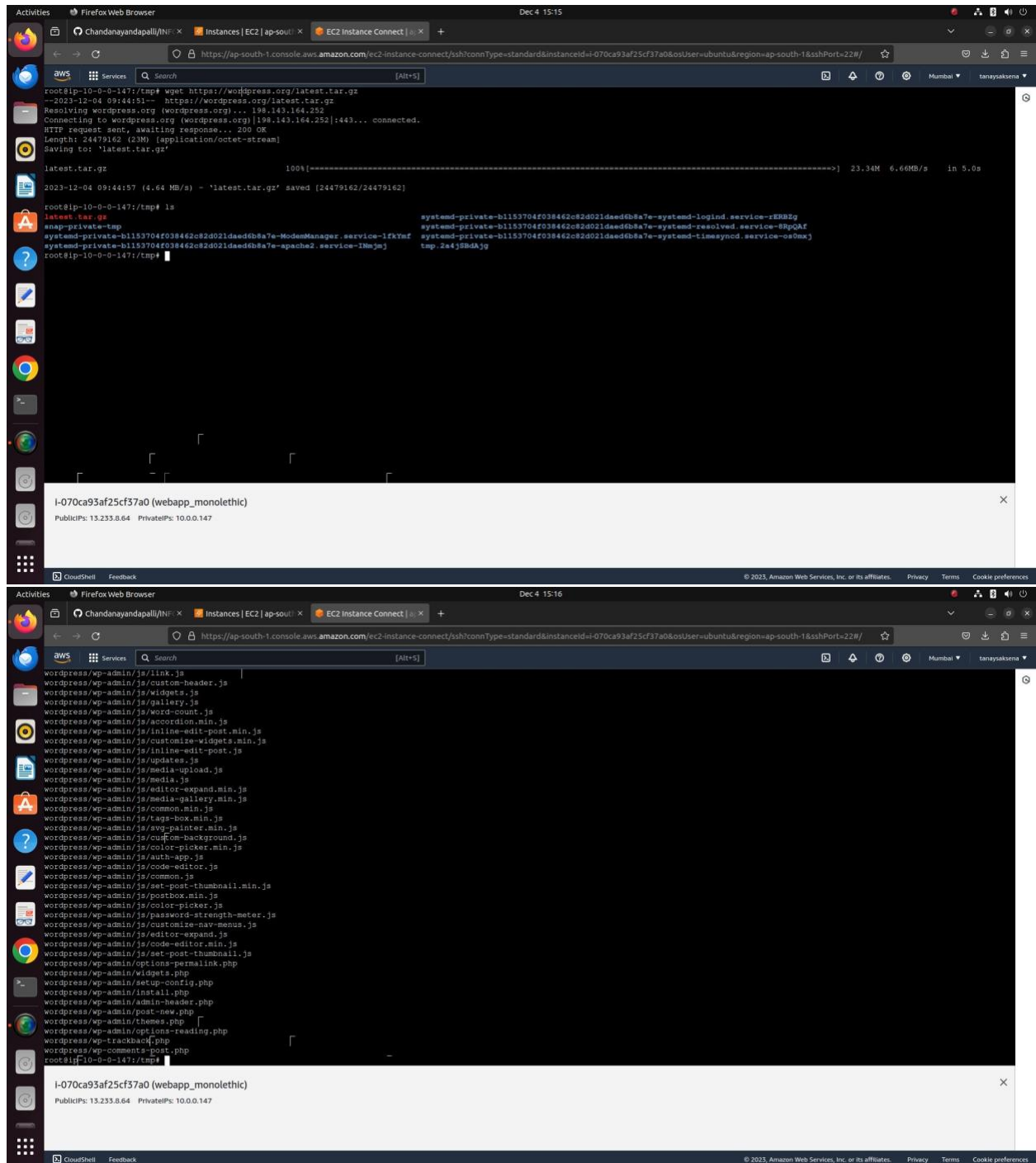
Created Database


```
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 liboci-pc-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 liboci-pc-perl (4.46-1) ...  
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>
```

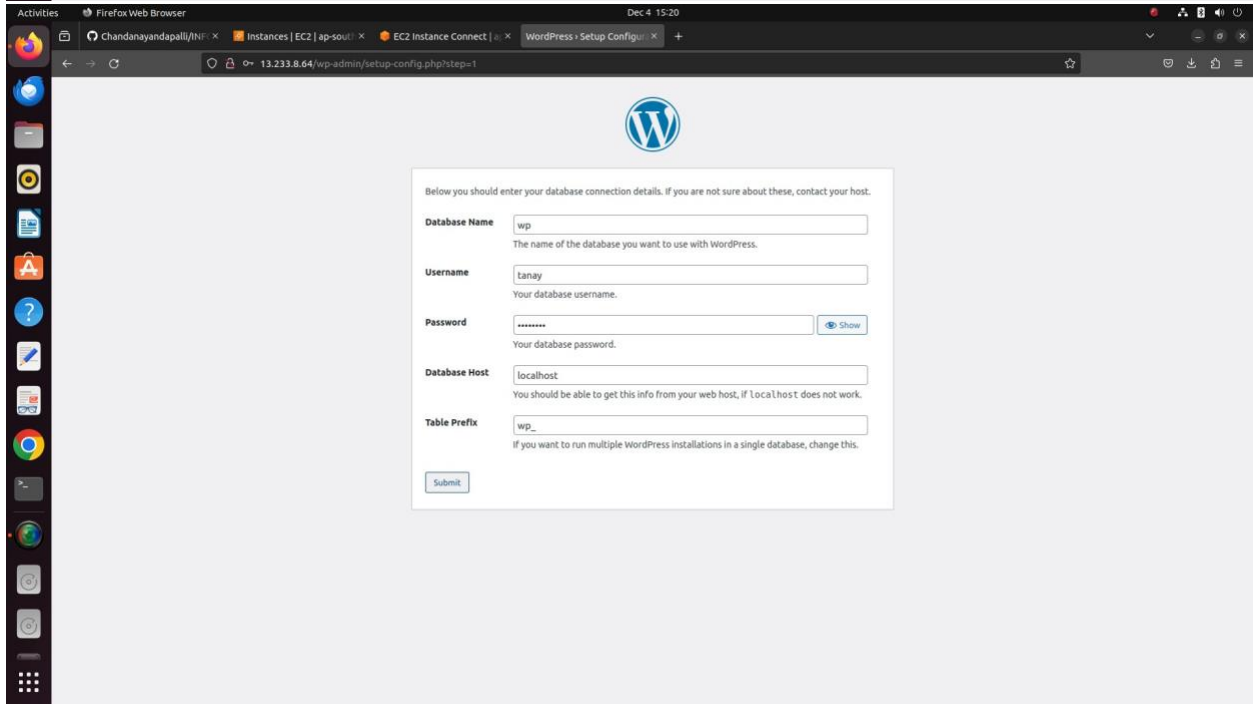
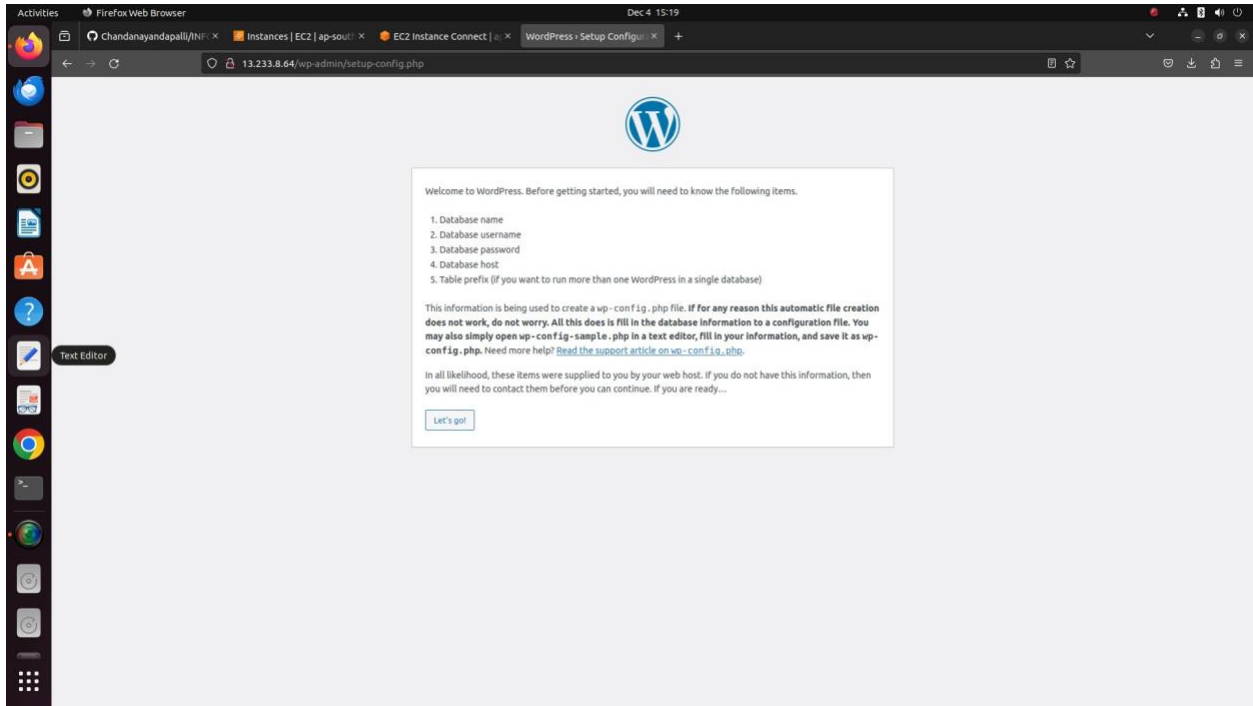
Granted all Privileges to new user

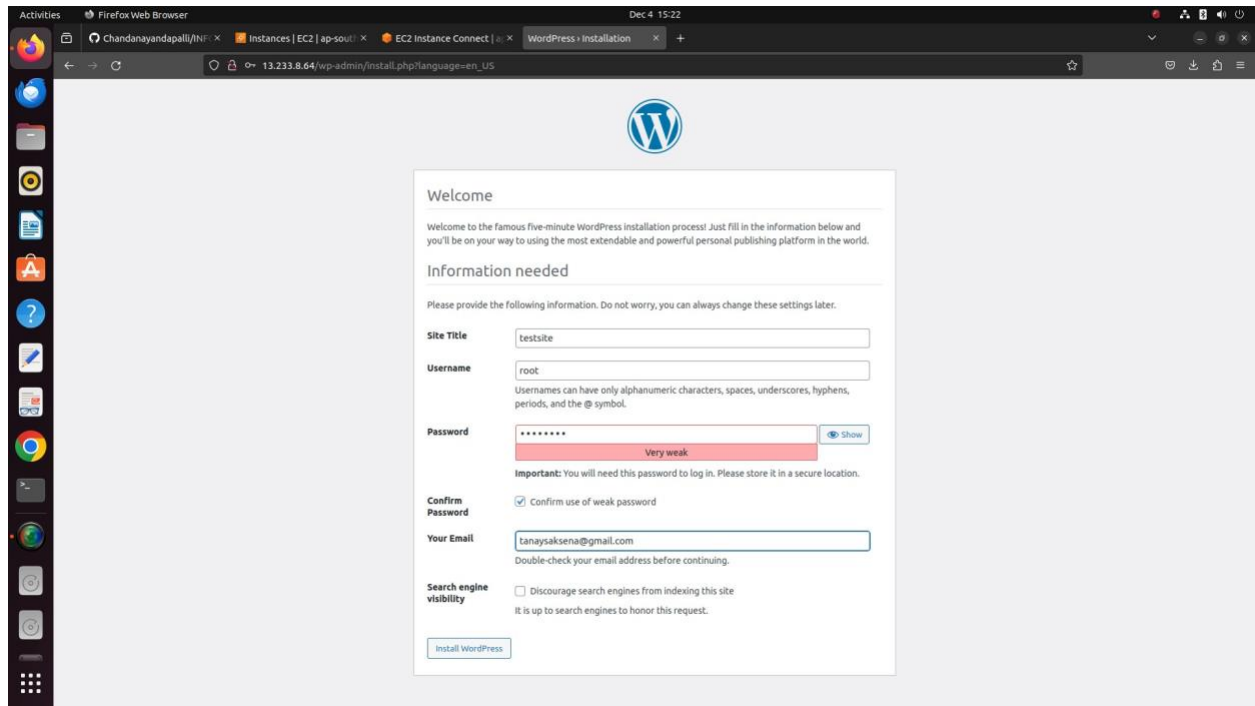
```
Setting up libhtml-parser-perl (3.72-5) ...  
Setting up libhttp-message-perl (6.22-1) ...  
Setting up mysql-server-8.0 (8.0.35-0ubuntu0.20.04.1) ...  
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode  
Renaming removed key buffer and myisam-recover 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 liboci-pc-perl (4.46-1) ...  
Setting up libhtml-template-perl (2.97-1) ...  
Setting up mysql-server (8.0.35-0ubuntu0.20.04.1) ...  
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

