TECHPLEMENT INTERNSHIP CLOUD AWS

TECHPLEMENT – CLOUD AWS INTERNSHIP

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Task 1: Monolithic:- 1EC2 instance, deploying Wordpress and MYSQL

on the same instance

step1:

Login to aws account.

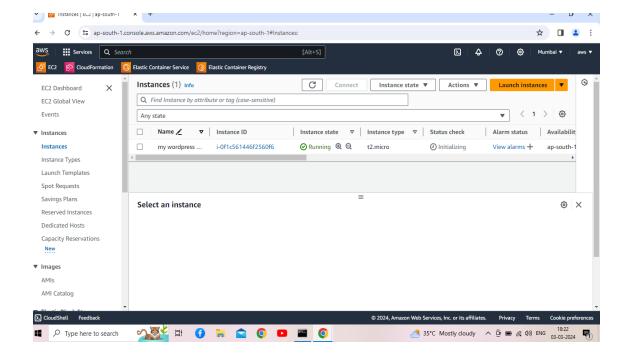
Create 1 instance

instance Specifications

name: webapp server mono

OS: Ubuntu

Instance Type: t2.micro instance is up & running



Connected to ec2 instance via SSH & installing Update

```
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1852 k8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 -n-f Retadata [22.1 k8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 -n-f Retadata [22.1 k8]
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**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/unitverse amd64 -n-f Retadata [47.1 k8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/amin amd64 Packages [41.7 k8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/amin amd64 Packages [41.7 k8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/seriticed amd64 -n-f Retadata [18.8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 -n-f Retadata [18.8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 -n-f Retadata [16.8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 -n-f Retadata [16.8]
**IS http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 -n-f Retadata [16.8]
**IS http://security.ubuntu.com/ubuntu jammy-security/main franslation-en [21.9 k8]
**IS http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [36.8 k8]
**IS http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [36.8 k8]
**IS http://security.ubuntu.com/ubuntu jammy-security/mainerse amd64 c-n-f Retadata [16.8 k8]
**IS http://security.ubuntu.com/ubuntu jammy-security/mainer
```

Installing apache2 server

```
- (1)
  ling module setenvif
ling module filter.
  ing module reqtimeout
  ling conf charset.
  ling conf localized-error-pages.
ling conf other-vhosts-access-log
  ing conf security.
 ling site 000-default.
 ted symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/syst<u>emd/system/apache2.service.</u>
cessing triggers for ufw (0.36.1-4ubuntu0.1) .
cessing triggers for man-db (2.10.2-1) ...
 cessing triggers for libc-bin (2.35-0ubuntu3.6) ...
nning processes...
nning linux images...
ning kernel seems to be up-to-date.
 services need to be restarted
 ontainers need to be restarted.
user sessions are running outdated binaries.
VM guests are running outdated hypervisor (qemu) binaries on this host.
ot@ip-172-31-34-237:∼# _
```

Apache installed

```
- 🗗 X
50 root@ip-172-31-34-237: ~
  abling module mime.
  abling module setenvif.
  abling module filter.
  abling module deflate.
  abling module status.
  abling module reqtimeout
  abling conf charset.
  abling conf localized-error-pages.
  abling conf other-vhosts-access-log.
  abling conf security.
  abling conf serve-cgi-bin.
  abling site 000-default.
  eated symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
 eated symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
  ocessing triggers for ufw (0.36.1-4ubuntu0.1) ...
  ocessing triggers for man-db (2.10.2-1) ..
  ocessing triggers for libc-bin (2.35-0ubuntu3.6) ...
  anning linux images...
  nning kernel seems to be up-to-date.
  services need to be restarted.
  containers need to be restarted
  user sessions are running outdated binaries.
 VM guests are running outdated hypervisor (qemu) binaries on this host.
  ot@ip-172-31-34-237:~# kkk
```

Installing PHP Dependencies and my sql connector

```
o VM guests are running outdated hypervisor (qemu) binaries on this host.
oot@ip-172-31-34-237:∽# sudo apt install php libapache2-mod-php php-mysql
      ding package lists... Done
   ilding dependency tree... Done ading state information... Done
     following additional packages will be installed:
   libapache2-mod-php8.1 php-common php8.1 php8.1-cli php8.1-common php8.1-mysql php8.1-opcache php8.1-readline
    e following NEW packages will be installed:
 libapache2-mod-php libapache2-mod-php8.1 php php-common php-mysql php8.1 php8.1-cli php8.1-common php8.1-mysql php8.1-opcache php8.1-readline upgraded, 11 neuly installed, 0 to remove and 34 not upgraded.

see to get 5265 kB of archives.
   ter this operation, 21.8 MB of additional disk space will be used.
electing previously unselected package php-common.
Reading database ... 65570 files and directories currently installed.)
Reading database ... obs/0 files and directories currently installed.)
reparing to unpack .../60-php-common_2%as02ubuntul_all.deb ...
rpacking php-common (2:92ubuntul) ..
electing previously unselected package php8.1-common.
reparing to unpack .../01-php8.1-common_8.1.2-1ubuntu2.14_amd64.deb ...
     packing php8.1-common (8.1.2-1ubuntu2.14) .
 electing previously unselected package php8.1-opcache.
reparing to unpack .../02-php8.1-opcache_8.1.2-1ubuntu2.14_amd64.deb ...
electing previously unselected package php8.1-cli
Preparing to unpack .../04-php8.1-cli_8.1.2-1ubuntu2.14_amd64.deb ...
hpackling php8.1-cli (8.1.2-1ubuntu2.14) ...
electing previously unselected package libapache2-mod-php8.1.
   eparing to unpack .../05-libapache2-mod-php8.1_8.1.2-1ubuntu2.14_amd64.deb ...
 npacking libapache2-mod-php8.1 (8.1.2-1ubuntu2.14) ...
electing previously unselected package libapache2-mod-php.
  reparing to unpack .../06-libapache2-mod-php_2%3a8.1+92ubuntu1_all.deb ...
  packing libapache2-mod-php (2:8.1+92ubuntu1)
electing previously unselected package php8.1
  reparing to unpack .../07-php8.1 8.1.2-lubuntu2.14_all.deb ...
upacking php8.1 (8.1.2-lubuntu2.14) ...
 npacking phps.1 (8.1.2-100untuz.14) ...
electing previously unselected package php.
eparing to unpack .../08-php_2%3a8.1+92ubuntu1_all.deb ...
upacking php (2:8.1+92ubuntu1) ...
                                                                                                                                                                                                                                                                                                                                              ■ Breaking news へ ② ■ // (4)) ENG 18:42 (3-03-03-2024 1)
                                                                                       🛂 🖽 😘 😭 👩 🔼 🖼

■ Description

■ Description

■ Type here to search

■ Description

■ Type here to search

■ Type here to sea
```

Installing My SQL SERVER

```
oot@ip-172-31-34-237:~# 47 kB/s)
oot@ip-172-31-34-237:~# sudo apt install mysql-server
eading package lists... Done
duilding dependency tree... Done
leading state information... Done
he following additional packages will be installed:
 libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl
 libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23
 libtimedate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server-8.0 mysql-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-server-se
uggested packages:
 libdata-dump-perl libipc-sharedcache-perl libbusiness-isbn-perl libwww-perl mailx tinyca
he following NEW packages will be installed:
 libcgi-fast-perl libcgi-pm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl
 libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite23
 libtimedate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server mysql-server-8.0
 mvsal-server-core-8.0
 upgraded, 28 newly installed, 0 to remove and 34 not upgraded.
eed to get 29.5 MB of archives.
fter this operation, 243 MB of additional disk space will be used.
o you want to continue? [Y/n] y
et:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 mysql-common all 5.8+1.0.8 [7212 B]
et:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-core-8.0 amd64 8.0.36-0ubuntu0.22.04.1 [2692 kB]
et:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-8.0 amd64 8.0.36-0ubuntu0.22.04.1 [22.7 kB]
et:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libevent-pthreads-2.1-7 amd64 2.1.12-stable-1build3 [7642 B]
et:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libmecab2 amd64 0.996-14build9 [199 kB]
et:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libprotobuf-lite23 amd64 3.12.4-1ubuntu7.22.04.1 [209 kB]
et:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-server-core-8.0 amd64 8.0.36-0ubuntu0.22.04.1 [17.5 MB]
et:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-server-8.0 amd64 8.0.36-0ubuntu0.22.04.1 [1437 kB]
et:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libhtml-tagset-perl all 3.20-4 [12.5 kB]
et:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 liburi-perl all 5.10-1 [78.8 kB]
et:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libhtml-parser-perl amd64 3.76-1build2 [88.4 kB]
et:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libcgi-pm-perl all 4.54-1 [188 kB]
et:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libfcgi0ldbl amd64 2.4.2-2build2 [28.0 kB]
et:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libfcgi-perl amd64 0.82+ds-1build1 [22.8 kB]
et:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libcgi-fast-perl all 1:2.15-1 [10.5 kB]
et:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libclone-perl amd64 0.45-1build3 [11.0 kB]
et:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libencode-locale-perl all 1.05-1.1 [11.8 kB]
et:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libfcgi-bin amd64 2.4.2-2build2 [11.2 kB]
et:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libhtml-template-perl all 2.97-1.1 [59.1 kB]
et:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libtimedate-perl all 2.3300-2 [34.0 kB]
et:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libhttp-date-perl all 6.05-1 [9920 B]
et:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libio-html-perl all 1.004-2 [15.4 kB]
et:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 liblwp-mediatypes-perl all 6.04-1 [19.5 kB]
```











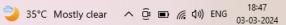
















Root user Password changed and New user created in my sql

```
anning processes...
canning linux images...
 nning kernel seems to be up-to-date.
 services need to be restarted.
 containers need to be restarted.
o user sessions are running outdated binaries.
o VM guests are running outdated hypervisor (qemu) binaries on this host.
oot@ip-172-31-15-172:∼# sudo mysql -u root
elcome to the MySQL monitor. Commands end with ; or \g.
our MySQL connection id is 8
erver version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)
opyright (c) 2000, 2024, Oracle and/or its affiliates.
racle is a registered trademark of Oracle Corporation and/or its
ffiliates. Other names may be trademarks of their respective
ype 'help;' or '\h' for help. Type '\c' to clear the current input statement.
ysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'root1234';
uery OK, 0 rows affected (0.02 sec)
Type here to search
```

* Created Database

* Granted all Privilleges to new user

```
Mysql>
M
```

```
#ysql>
#
```

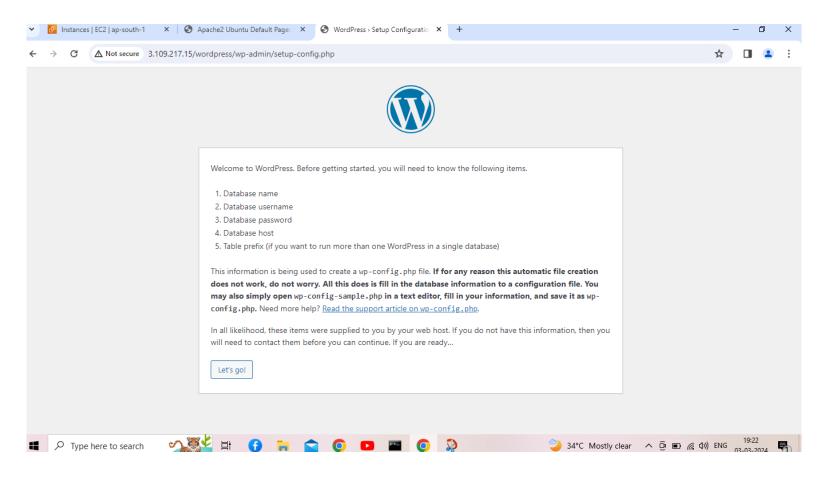
* Dowload wordpress

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

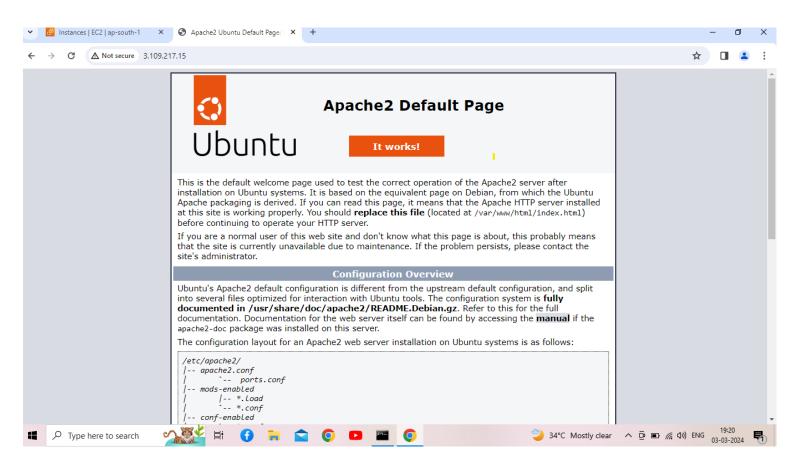
```
State of the process of the process
```

```
024-03-03 13:37:01 (4.61 MB/s) - 'latest.tar.gz' saved [24482912/24482912]
oot@ip-172-31-34-237:/tmp# tar -xvf latest.tar.gz
ordpress/xmlrpc.php
ordpress/wp-blog-header.php
ordpress/readme.html
ordpress/wp-signup.php
ordpress/index.php
 rdpress/wp-cron.php
 rdpress/wp-config-sample.php
 rdpress/wp-login.php
 dpress/wp-settings.phr
 rdpress/license.txt
 rdpress/wp-content/
 rdpress/wp-content/themes/
 rdpress/wp-content/themes/twentytwentythree/
 rdpress/wp-content/themes/twentytwentythree/theme.json
 dpress/wp-content/themes/twentytwentythree/parts/
 rdpress/wp-content/themes/twentytwentythree/parts/footer.html
  dpress/wp-content/themes/twentytwentythree/parts/comments.html
 rdpress/wp-content/themes/twentytwentythree/parts/header.html
 rdpress/wp-content/themes/twentytwentythree/parts/post-meta.html
 rdpress/wp-content/themes/twentytwentythree/patterns/
  dpress/wp-content/themes/twentytwentythree/patterns/hidden-404.php
 dpress/wp-content/themes/twentytwentythree/patterns/post-meta.php
 dpress/wp-content/themes/twentytwentythree/patterns/hidden-no-results.php
 dpress/wp-content/themes/twentytwentythree/patterns/call-to-action.php
 dpress/wp-content/themes/twentytwentythree/patterns/footer-default.php
 rdpress/wp-content/themes/twentytwentythree/patterns/hidden-comments.php
 rdpress/wp-content/themes/twentytwentythree/styles/
 rdpress/wp-content/themes/twentytwentythree/styles/grapes.json
 dpress/wp-content/themes/twentytwentythree/styles/canary.json
rdpress/wp-content/themes/twentytwentythree/styles/electric.json rdpress/wp-content/themes/twentytwentythree/styles/elitch.json rdpress/wp-content/themes/twentytwentythree/styles/plitch.json rdpress/wp-content/themes/twentytwentythree/styles/blotc-out.json rdpress/wp-content/themes/twentytwentythree/styles/whisper.json
 rdpress/wp-content/themes/twentytwentythree/styles/marigold.json
 rdpress/wp-content/themes/twentytwentythree/styles/aubergine.json
 dpress/wp-content/themes/twentytwentythree/styles/pilgrimage.json
                                                                                                                                      2) 34°C Mostly clear ∧ @ ■ // (4)) ENG 19:11
```

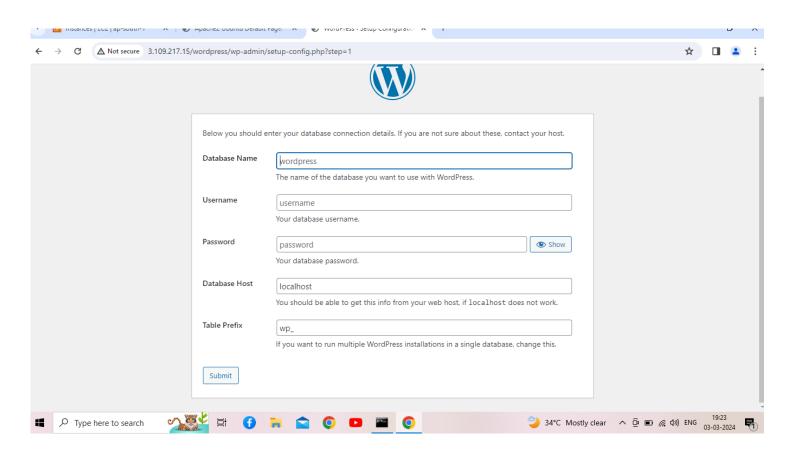
Wordpress installation



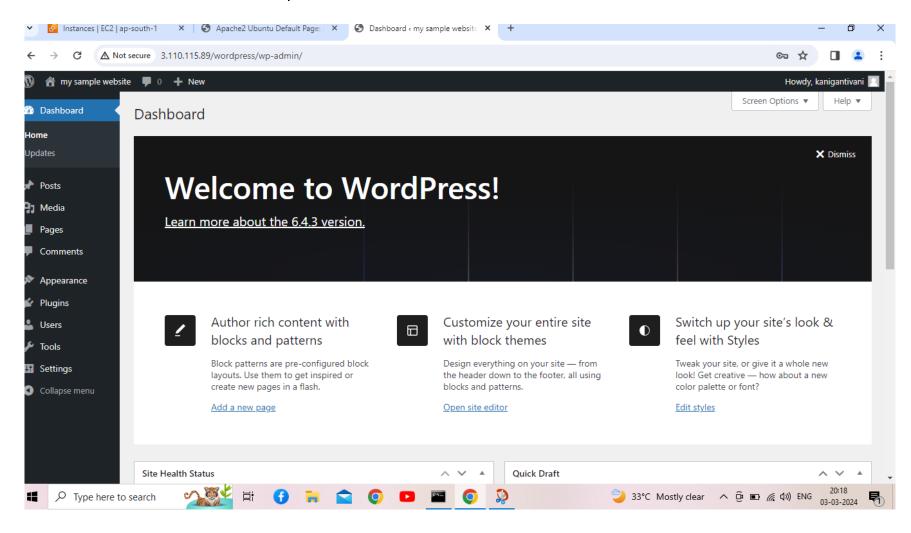
Apache2 default page



Wordpress login and created new front page



welcome to Wordpress



Sample page

