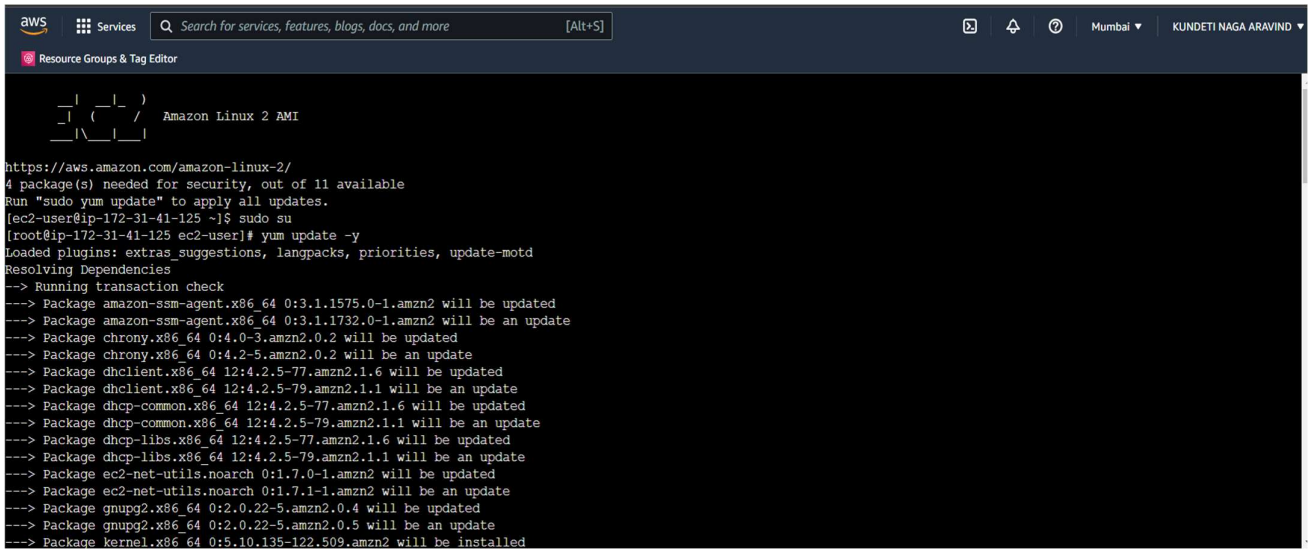
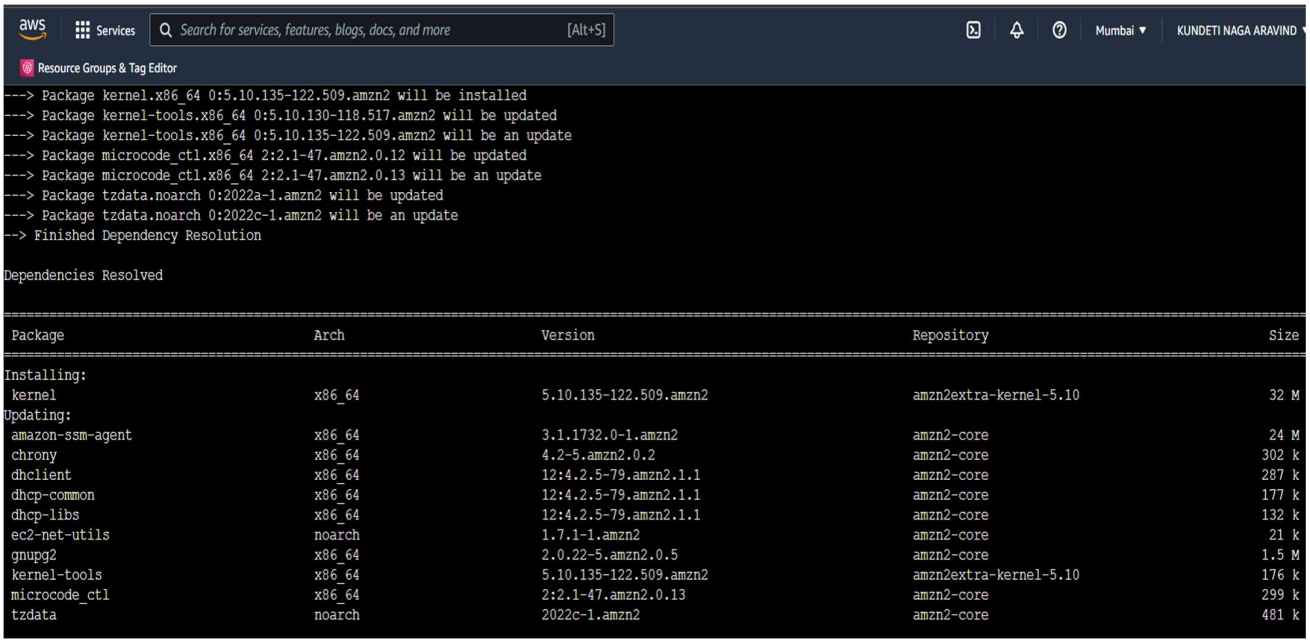
Experiment 2 – Creating Amazon EC2 Instances – Creating a LAMP Instance in the AWS CLI

AIM: To create a LAMP instance in the AWS CLI.

PROCEDURE:

1. Firstly, type sudo su to become the root user.
2. To update all the packages in your instance type “yum update -y”.





```
Transaction Summary
================================================================================================================================================================
Install   1 Package
Upgrade  10 Packages

Total download size: 59 M
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
(1/11): chrony-4.2-5.amzn2.0.2.x86_64.rpm                                                                                  | 302 kB  00:00:00
(2/11): dhclient-4.2.5-79.amzn2.1.1.x86_64.rpm                                                                             | 287 kB  00:00:00
(3/11): dhcp-common-4.2.5-79.amzn2.1.1.x86_64.rpm                                                                          | 177 kB  00:00:00
(4/11): dhcp-libs-4.2.5-79.amzn2.1.1.x86_64.rpm                                                                            | 132 kB  00:00:00
(5/11): ec2-net-utils-1.7.1-1.amzn2.noarch.rpm                                                                             |  21 kB  00:00:00
(6/11): gnupg2-2.0.22-5.amzn2.0.5.x86_64.rpm                                                                               | 1.5 MB  00:00:00
(7/11): microcode_ctl-2.1-47.amzn2.0.13.x86_64.rpm                                                                         | 299 kB  00:00:00
(8/11): tzdata-2022c-1.amzn2.noarch.rpm                                                                                    | 481 kB  00:00:00
(9/11): kernel-tools-5.10.135-122.509.amzn2.x86_64.rpm                                                                     | 176 kB  00:00:00
(10/11): amazon-ssm-agent-3.1.1732.0-1.amzn2.x86_64.rpm                                                                    |  24 MB  00:00:00
(11/11): kernel-5.10.135-122.509.amzn2.x86_64.rpm                                                                          |  32 MB  00:00:00
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Total                                                                                                       56 MB/s |  59 MB  00:00:01
```
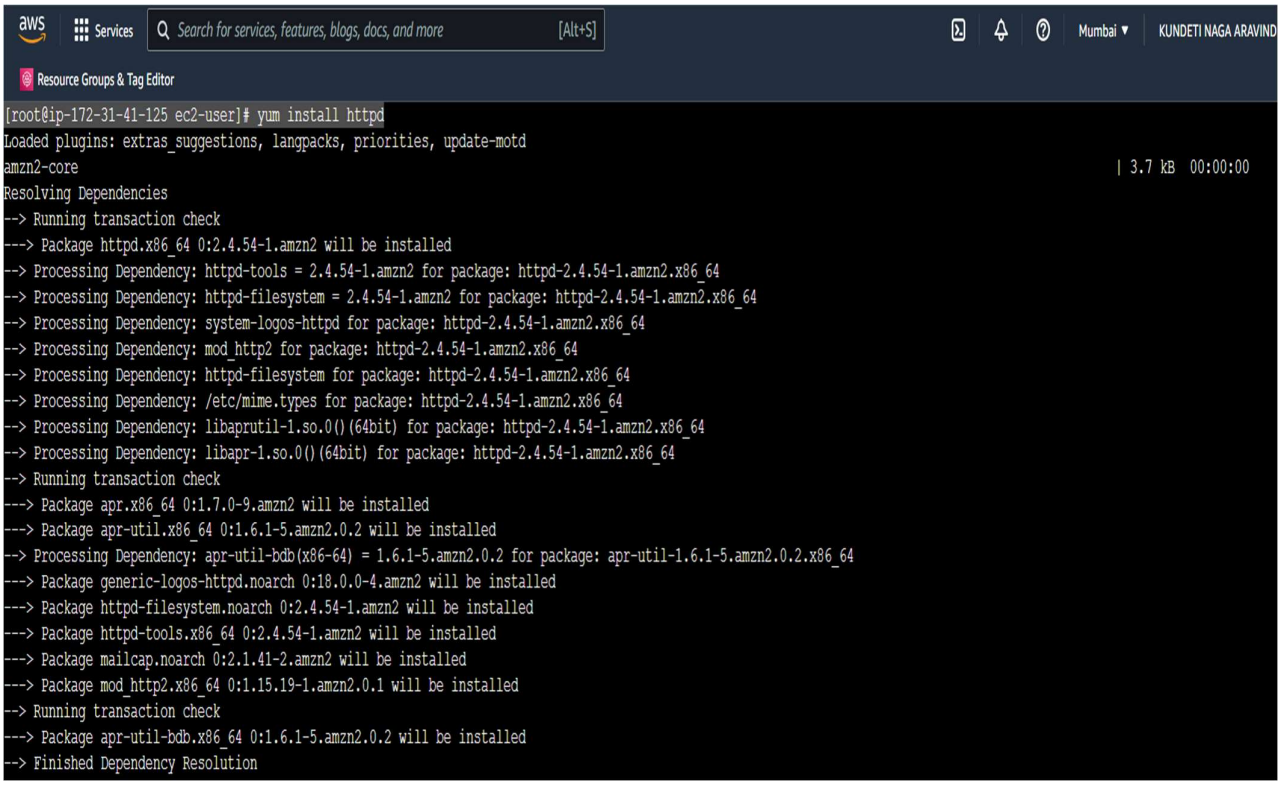
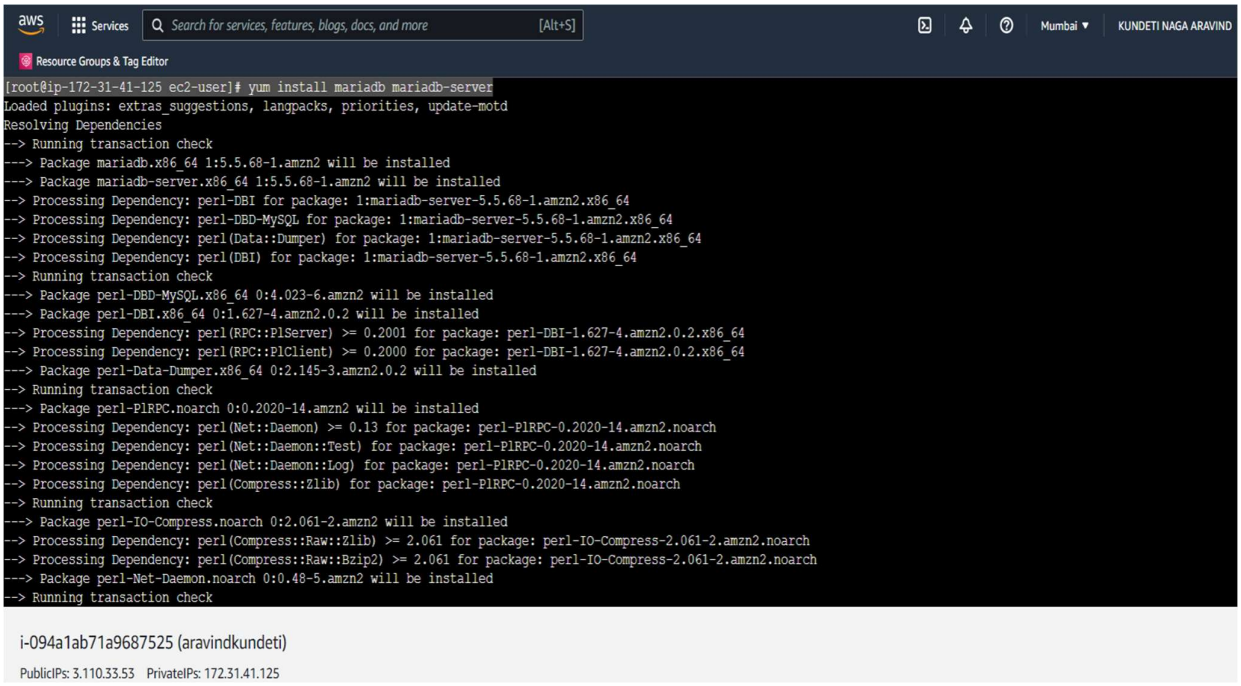
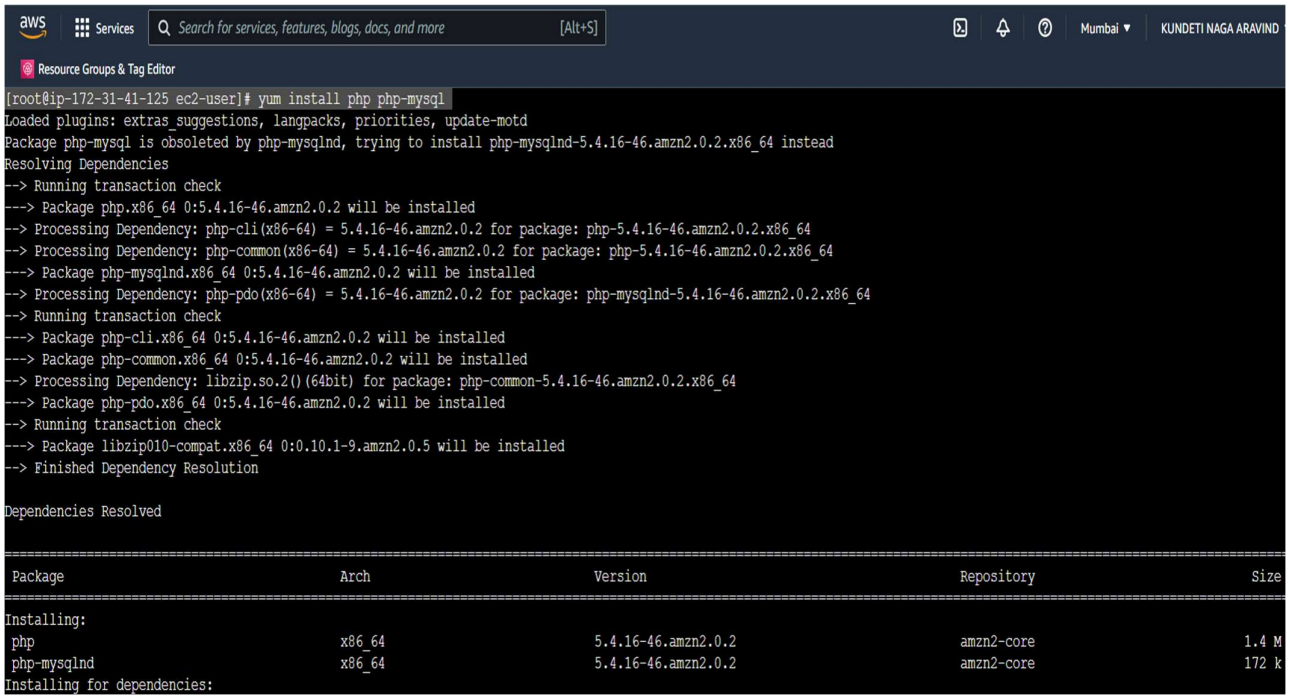

3. To install Apache server in linux, type “yum install httpd”.



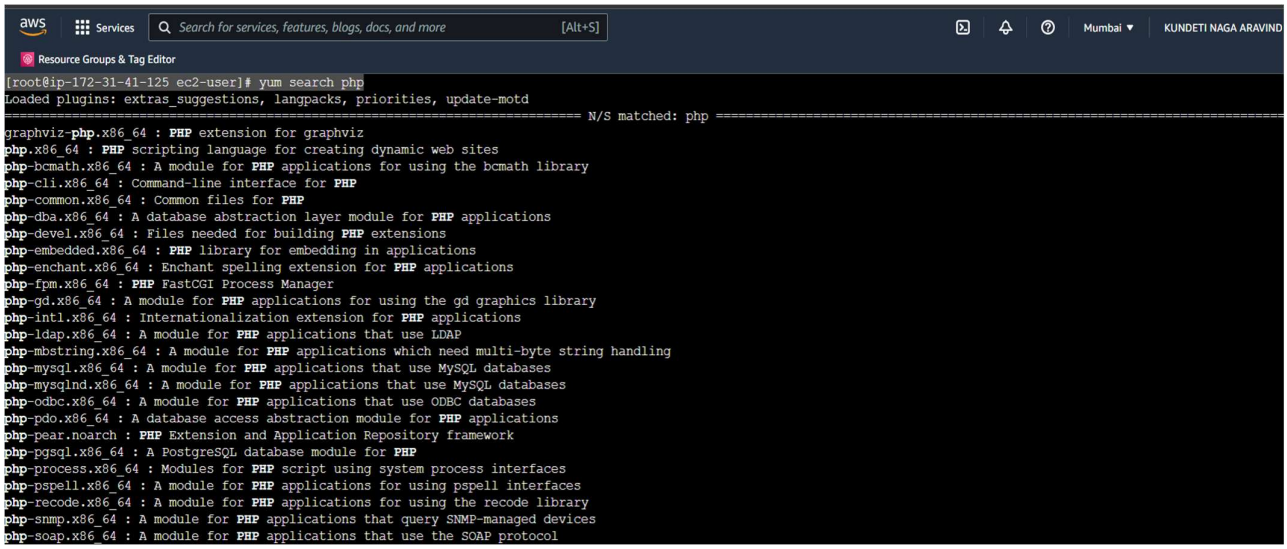
4. To install mysql or mariadb type “yum install mariadb mariadb-server”.



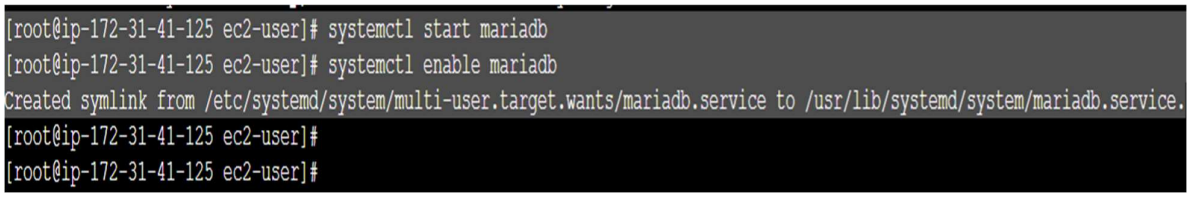
5. To install php, type “yum install php php-mysql”.



6. Type “yum search php” to see all the packages installed in the server.



7. Enabling the mariadb server.



8. After enabling httpd (apache server) , go to the directory where cd /var/www/html/

9. Go to vim and type “<?php phpinfo(); ?>”.

```
[root@ip-172-31-41-125 ec2-user]# cd /var/www/html/
[root@ip-172-31-41-125 html]# ls
[root@ip-172-31-41-125 html]# pwd
/var/www/html
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]#
[root@ip-172-31-41-125 html]# vim index.php
```

Copy the public ip address or public domain name from the console and paste in the web browser.

OUTPUT:

PHP Version 5.4.16

System	Linux ip-172-31-32-239.ap-south-1.compute.internal 5.10.130-118.517.amzn2.x86_64 #1 SMP Wed Jul 13 16:51:52 UTC 2022 x86_64
Build Date	Oct 31 2019 18:35:17
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/curl.ini, /etc/php.d/fileinfo.ini, /etc/php.d/json.ini, /etc/php.d/mysqlnd.ini, /etc/php.d/mysqlnd_mysql.ini, /etc/php.d/mysqlnd_mysqli.ini, /etc/php.d/pdo.ini, /etc/php.d/pdo_mysqlnd.ini, /etc/php.d/pdo_sqlite.ini, /etc/php.d/phar.ini, /etc/php.d/sqlite3.ini, /etc/php.d/zip.ini
PHP API	20100412
PHP Extension	20100525
Zend Extension	220100525
Zend Extension Build	API220100525,NTS
PHP Extension Build	API20100525,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte	disabled

RESULT:

LAMP instance was successfully created and executed in AWS CLI.

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