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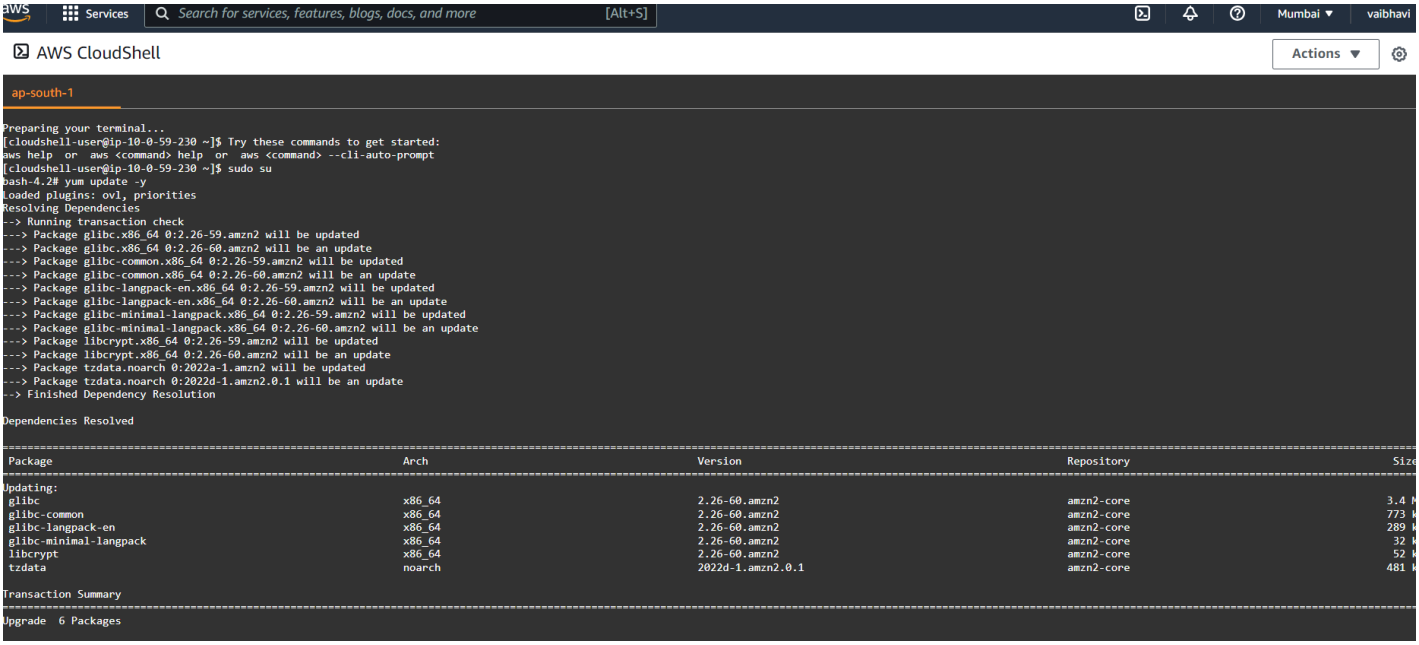
Experiment 2 –

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.

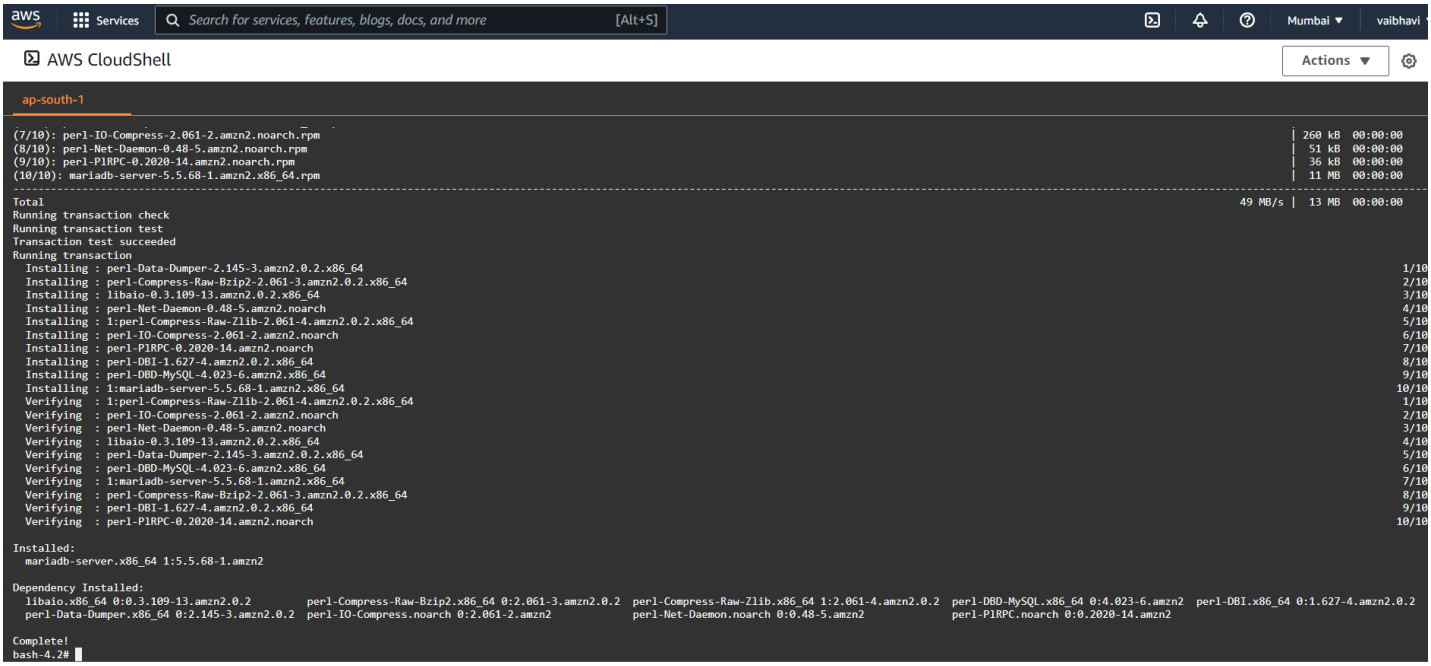
2. To update all the packages in your instance type “yum update -y”.



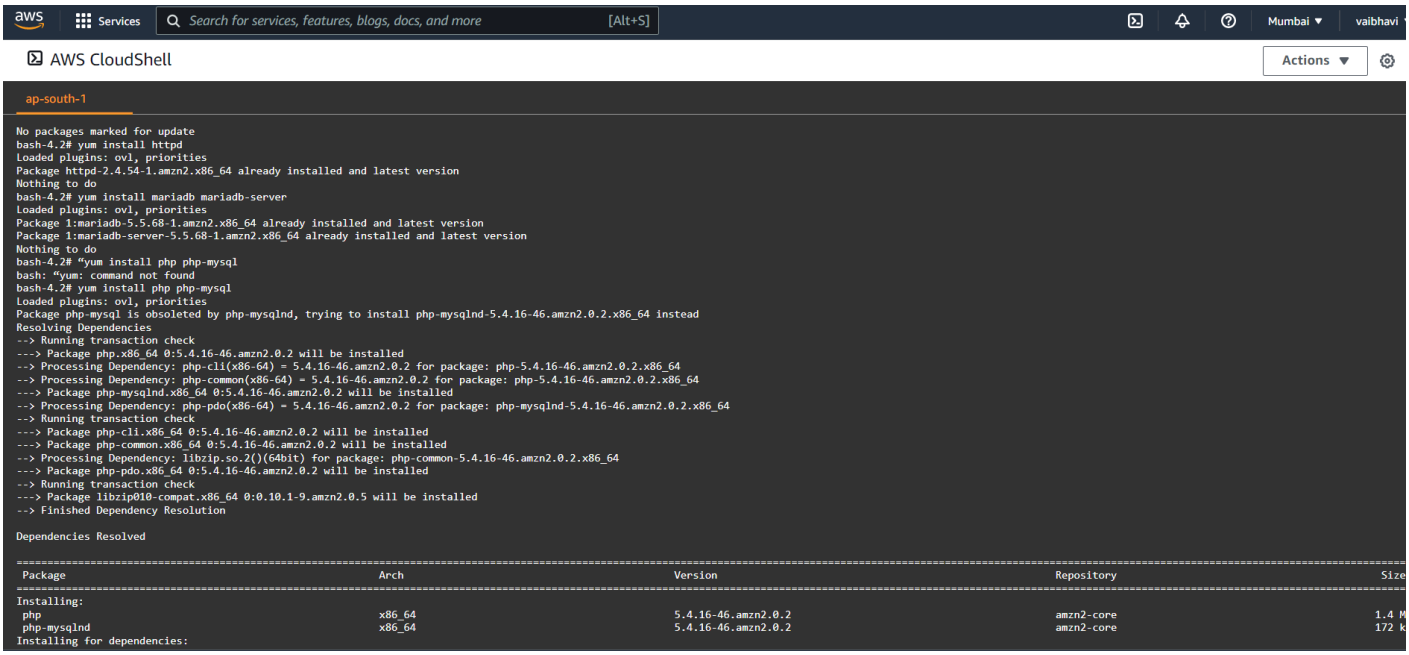
3. To install Apache server in linux, type “yum install httpd”.

```
ap-south-1

(4/9): generic-logos-httpd-18.0.0-4.amzn2.noarch.rpm                                                                 |  19 kB  00:00:00
(5/9): httpd-filesystem-2.4.54-1.amzn2.noarch.rpm                                                                    |  24 kB  00:00:00
(6/9): httpd-tools-2.4.54-1.amzn2.x86_64.rpm                                                                         |  88 kB  00:00:00
(7/9): mailcap-2.1.41-2.amzn2.noarch.rpm                                                                             |  31 kB  00:00:00
(8/9): mod_http2-1.15.19-1.amzn2.0.1.x86_64.rpm                                                                      | 149 kB  00:00:00
(9/9): httpd-2.4.54-1.amzn2.x86_64.rpm                                                                               | 1.4 MB  00:00:00
--------------------------------------------------------------------------------------------------------------------------------
Total                                                                                                 11 MB/s | 1.9 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : apr-1.7.0-9.amzn2.x86_64                                                                                 1/9
  Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64                                                                    2/9
  Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64                                                                        3/9
  Installing : httpd-tools-2.4.54-1.amzn2.x86_64                                                                        4/9
  Installing : httpd-filesystem-2.4.54-1.amzn2.noarch                                                                   5/9
  Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch                                                                6/9
  Installing : mailcap-2.1.41-2.amzn2.noarch                                                                            7/9
  Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64                                                                     8/9
  Installing : httpd-2.4.54-1.amzn2.x86_64                                                                              9/9
  Verifying  : apr-util-1.6.1-5.amzn2.0.2.x86_64                                                                        1/9
  Verifying  : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64                                                                    2/9
  Verifying  : httpd-tools-2.4.54-1.amzn2.x86_64                                                                        3/9
  Verifying  : mod_http2-1.15.19-1.amzn2.0.1.x86_64                                                                     4/9
  Verifying  : httpd-2.4.54-1.amzn2.x86_64                                                                              5/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                                            6/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                                                7/9
  Verifying  : httpd-filesystem-2.4.54-1.amzn2.noarch                                                                   8/9
  Verifying  : apr-1.7.0-9.amzn2.x86_64                                                                                 9/9

Installed:
  httpd.x86_64 0:2.4.54-1.amzn2

Dependency Installed:
  apr.x86_64 0:1.7.0-9.amzn2              apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2      generic-logos-httpd.noarch 0:18.0.0-4.amzn2      httpd-filesystem.noarch 0:2.4.54-1.amzn2
  httpd-tools.x86_64 0:2.4.54-1.amzn2     mailcap.noarch 0:2.1.41-2.amzn2          mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
bash-4.2#
```

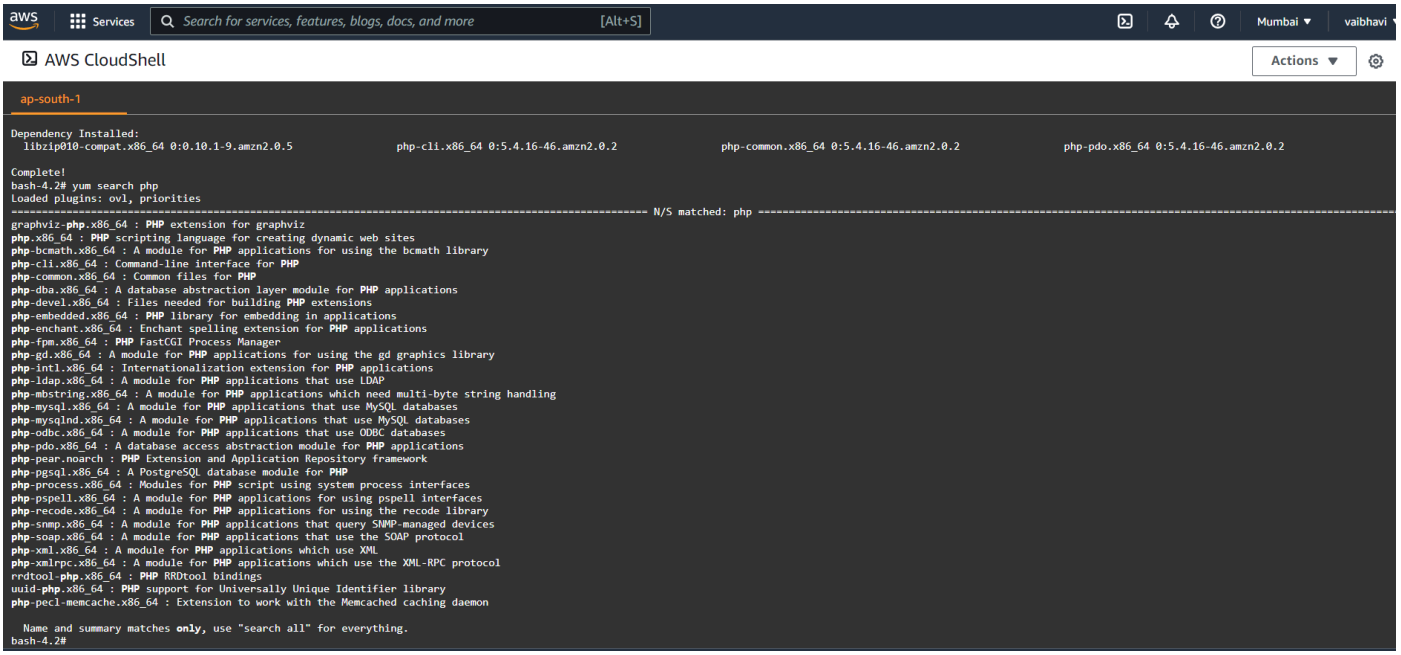
4. To install mysql or mariadb type “yum install mariadb mariadb-server”.



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



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

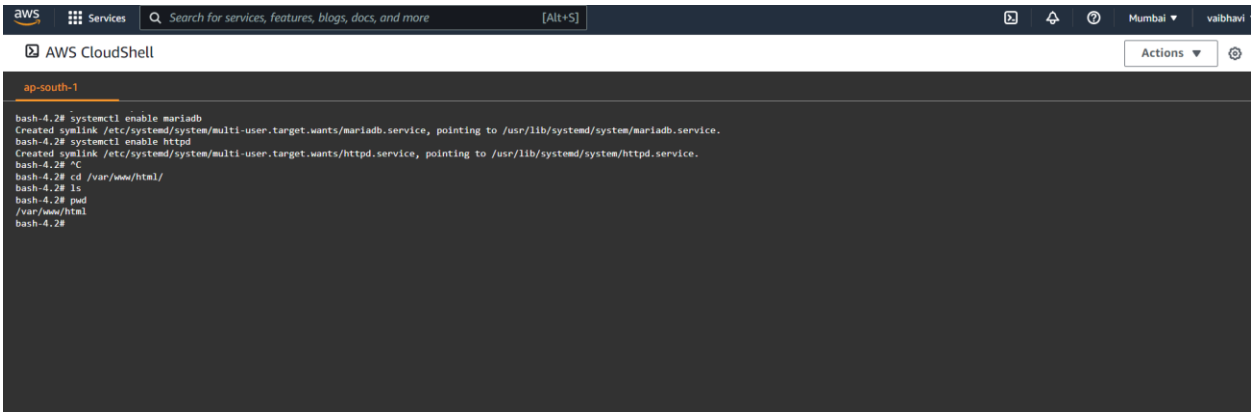


7. Enabling the mariadb server.

```
php-snmp.x86_64 : A module for PHP applications that query SNMP-managed devices
php-soap.x86_64 : A module for PHP applications that use the SOAP protocol
php-xml.x86_64 : A module for PHP applications which use XML
php-xmlrpc.x86_64 : A module for PHP applications which use the XML-RPC protocol
rrdtool-php.x86_64 : PHP RRDtool bindings
uuid-php.x86_64 : PHP support for Universally Unique Identifier library
php-pecl-memcache.x86_64 : Extension to work with the Memcached caching daemon

  Name and summary matches only, use "search all" for everything.
bash-4.2#
```

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

9.Go to vim and type “”.



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

RESULT- AWS LAMP was successfully created and executed using was CLI.