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".

To install Apache server in linux, type "yum install httpd".

```
[root@ip-172-31-32-239 ec2-user]#
[root@ip-172-31-32-239 ec2-user]# yum install httpd
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86 64 0:2.4.54-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86
-64
--> Processing Dependency: httpd-filesystem = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn
2.x86 64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: mod http2 for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: ctc/mime.types for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: libaprutil-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: libaprutil-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: libapr-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: libapr-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: libapr-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86 64
--> Package apr-util.x86 64 0:1.5.1-5.amzn2.0.2 will be installed
--> Package apr-util.x86 64 0:1.5.1-5.amzn2.0.2 will be installed
--> Package peneric-logos-httpd.noarch 0:18.0-4.amzn2 will be installed
--> Package httpd-filesystem.noarch 0:2.4.54-1.amzn2 will be installed
--> Package httpd-filesystem.noarch 0:2.4.54-1.amzn2 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package apr-util-bdb.x86 64 0:1.6.1-5.amzn2.0.1 will be installed
--> Package apr-util-bdb.x86 64 0:1.6.1-5.amzn2.0.2 will be installed
--> Package apr-
```

4. To install mysql or mariadb type "yum install mariadb mariadb-server".

```
[root@ip-172-31-32-239 ec2-user]#
[
```

To install php, type "yum install php php-mysql".

```
[root@ip-172-31-32-239 ec2-user]#
[root@ip-172-31-32-239 ec2-user]# yum install php php-mysql
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package php-mysql is obsoleted by php-mysqlnd, trying to install php-mysqlnd-5.4.16-46.amzn2.
0.2.x86_64 instead
Resolving Dependencies
--> Running transaction check
---> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: php-cli(x86-64) = 5.4.16-46.amzn2.0.2 for package: php-5.4.16-46.a
mzn2.0.2.x86_64
--> Processing Dependency: php-common(x86-64) = 5.4.16-46.amzn2.0.2 for package: php-5.4.16-4
6.amzn2.0.2.x86_64
--> Package php-mysqlnd.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: php-pdo(x86-64) = 5.4.16-46.amzn2.0.2 for package: php-mysqlnd-5.4
.16-46.amzn2.0.2.x86_64
--> Running transaction check
---> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: libzip.so.2() (64bit) for package: php-common-5.4.16-46.amzn2.0.2.x
86_64
```

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

7. Enabling the mariadb server.

```
[root@ip=172-31-32-239 ec2-user]#
[root@ip-172-31-32-239 ec2-user]# systemctl start mariadb
[root@ip-172-31-32-239 ec2-user]# systemctl enable mariadb
Created symlink from /etc/systemd/system/multi-user.target.wants/mariadb.service to /usr/lib/
systemd/system/mariadb.service.
[root@ip-172-31-32-239 ec2-user]#
[root@ip-172-31-32-239 ec2-user]#
[root@ip-172-31-32-239 ec2-user]#
[root@ip-172-31-32-239 ec2-user]#
[root@ip-172-31-32-239 ec2-user]#
```

- 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-172-31-32-239:/var/www/html

[root@ip-172-31-32-239 ec2-user]# cd /var/www/html/

[root@ip-172-31-32-239 html]# ls

[root@ip-172-31-32-239 html]# pwd

/var/www/html

[root@ip-172-31-32-239 html]#

[root@ip-172-31-32-239 html]#

[root@ip-172-31-32-239 html]#

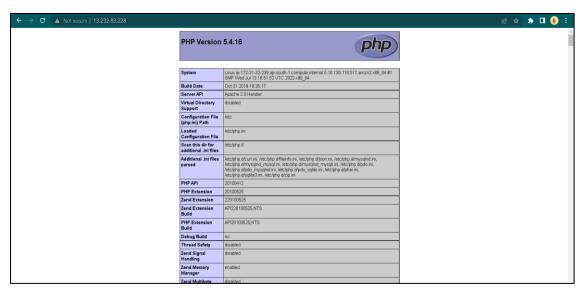
[root@ip-172-31-32-239 html]#

[root@ip-172-31-32-239 html]#

[root@ip-172-31-32-239 html]# vim index.php
```

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

OUTPUT:



RESULT:

LAMP instance was successfully created and executed in AWS CLI.