## Experiment 2 - Creating Amazon EC2 Instances - Creating a LAMP

Instance in the AWS CLI

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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".

```
[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: ctd-/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
--> Recossing Dependency: libapr-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
--> Package apr.w86_64 0:1.7.0-9.amzn2 will be installed
--> Package apr.w86_64 0:1.5.1-5.amzn2.0.2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Package httpd-filesystem.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 httpd-fols.x86_64 0:1.5.1-5.amzn2.0.1 will be installed
--> Package malfap.noarch 0:2.4.14-2.amzn2 will be installed
--> Package malfap.noarch 0:2.4.14-2.amzn2 will be installed
--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Package apr-util-bdb.x86_64 0:1
```

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

```
[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]# yum install mariadb mariadb-server
  paded plugins: extras_suggestions, langpacks, priorities,
Resolving Dependencies
 -> Running transaction check
 -> Running Cansaction theck
--> Package mariadb.x86_64 1:5.5.68-1.amzn2 will be installed
--> Package mariadb-server.x86_64 1:5.5.68-1.amzn2 will be installed
-> Processing Dependency: perl-DBI for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
-> Processing Dependency: perl-DBD-MySQL for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
 -> Processing Dependency: perl(Data::Dumper) for package: 1:mariadb-server-5.5.68-1.amzn2.x8
6 64
 -> Processing Dependency: perl(DBI) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
 -> Running transaction check
--> Package perl-DBD-MySQL.x86_64 0:4.023-6.amzn2 will be installed
--> Package perl-DBI.x86_64 0:1.627-4.amzn2.0.2 will be installed
     Processing Dependency: perl(RPC::PlServer) >= 0.2001 for package: perl-DBI-1.627-4.amzn2.
0.2.x86 64
 -> Processing Dependency: perl(RPC::PlClient) >= 0.2000 for package: perl-DBI-1.627-4.amzn2.
     Package perl-Data-Dumper.x86 64 0:2.145-3.amzn2.0.2 will be installed
 -> Running transaction check
  --> Package perl-P1RPC.noarch 0:0.2020-14.amzn2 will be installed
  >> Processing Dependency: perl(Net::Daemon) >= 0.13 for package: perl-PlRPC-0.2020-14.amzn2.
```

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
--> 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
--> 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
--> Package php-clix86_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.

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]#

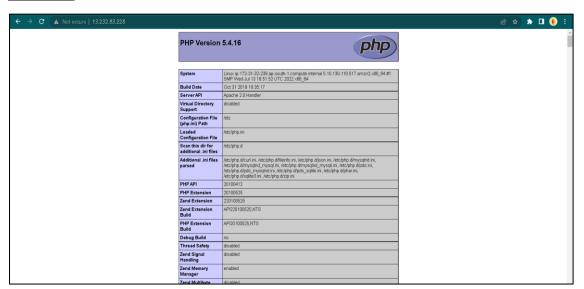
[root@ip-172-31-32-239 html]#

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

[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.