

```

root@ip-172-31-32-239:/home/ec2-user
Using username "ec2-user".
Authenticating with public key "imported-openssh-key"
Last login: Sat Aug 27 04:29:33 2022 from 106.208.16.252

      _ _      _  _
     _(_)_    _/_/
    _/ \_ \  /  _/
   _/_/ \_/_/

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-32-239 ~]$
[ec2-user@ip-172-31-32-239 ~]$
[ec2-user@ip-172-31-32-239 ~]$
[ec2-user@ip-172-31-32-239 ~]$ sudo su
[root@ip-172-31-32-239 ec2-user]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                               | 3.7 kB  00:00:00
Resolving Dependencies
--> Running transaction check
----> Package chrony.x86_64 0:4.0-3.amzn2.0.2 will be updated
----> Package chrony.x86_64 0:4.2-5.amzn2.0.2 will be an update
----> Package dhclient.x86_64 12:4.2.5-77.amzn2.1.6 will be updated
----> Package dhclient.x86_64 12:4.2.5-79.amzn2.1.1 will be an update
----> Package dhcp-common.x86_64 12:4.2.5-77.amzn2.1.6 will be updated
----> Package dhcp-common.x86_64 12:4.2.5-79.amzn2.1.1 will be an update
----> Package dhcp-libs.x86_64 12:4.2.5-77.amzn2.1.6 will be updated
----> Package dhcp-libs.x86_64 12:4.2.5-79.amzn2.1.1 will be an update
----> Package gnupg2.x86_64 0:2.0.22-5.amzn2.0.4 will be updated
----> Package gnupg2.x86_64 0:2.0.22-5.amzn2.0.5 will be an update
----> Package kernel.x86_64 0:5.10.135-122.509.amzn2 will be installed
----> Package kernel-tools.x86_64 0:5.10.130-118.517.amzn2 will be updated
----> Package kernel-tools.x86_64 0:5.10.135-122.509.amzn2 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package          Arch          Version                Repository              Size
=====

```

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]#
[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.amzn2.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: /etc/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: libapr-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
--> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
--> Package httpd filesystem.noarch 0:2.4.54-1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
```

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]#
[root@ip-172-31-32-239 ec2-user]# yum install mariadb mariadb-server
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> 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.x86_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.amzn2.0.2.x86_64
--> Package perl-Data-Dumper.x86_64 0:2.145-3.amzn2.0.2 will be installed
--> Running transaction check
--> Package perl-PlRPC.noarch 0:0.2020-14.amzn2 will be installed
--> Processing Dependency: perl(Net::Daemon) >= 0.13 for package: perl-PlRPC-0.2020-14.amzn2.noarch
```

5. 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]#  
[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-mysqld, trying to install php-mysqld-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.amzn2.0.2.x86_64  
--> Processing Dependency: php-common(x86-64) = 5.4.16-46.amzn2.0.2 for package: php-5.4.16-46.amzn2.0.2.x86_64  
--> Package php-mysqld.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-mysqld-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-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.x86_64  
--> Running transaction check  
---> Package libzip.x86_64 0:1.3.2-9.amzn2.0.2 will be installed  
--> Processing Dependency: libcurl.x86_64 = 7.29.0-46.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Processing Dependency: libidn.x86_64 = 1.28-2.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Processing Dependency: libssh.x86_64 = 0.5.3-4.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Processing Dependency: libssh2.x86_64 = 1.4.2-1.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Processing Dependency: libssl.x86_64 = 1.0.1e-10.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Processing Dependency: libtasn1.x86_64 = 3.4-2.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Processing Dependency: libunistring.x86_64 = 0.9.3-9.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Processing Dependency: libzlib.x86_64 = 1.2.3-18.amzn2.0.2 for package: libzip-1.3.2-9.amzn2.0.2.x86_64  
--> Package libcurl.x86_64 7:7.29.0-46.amzn2.0.2 will be installed  
--> Processing Dependency: ca-certificates.x86_64 = 2014.2.52-1.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Processing Dependency: libidn.x86_64 = 1.28-2.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Processing Dependency: libssh.x86_64 = 0.5.3-4.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Processing Dependency: libssh2.x86_64 = 1.4.2-1.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Processing Dependency: libssl.x86_64 = 1.0.1e-10.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Processing Dependency: libtasn1.x86_64 = 3.4-2.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Processing Dependency: libunistring.x86_64 = 0.9.3-9.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Processing Dependency: libzlib.x86_64 = 1.2.3-18.amzn2.0.2 for package: libcurl-7:7.29.0-46.amzn2.0.2  
--> Package ca-certificates.x86_64 2014.2.52-1.amzn2.0.2 will be installed  
--> Package libidn.x86_64 1:1.28-2.amzn2.0.2 will be installed  
--> Package libssh.x86_64 0:0.5.3-4.amzn2.0.2 will be installed  
--> Package libssh2.x86_64 1:1.4.2-1.amzn2.0.2 will be installed  
--> Package libssl.x86_64 1:1.0.1e-10.amzn2.0.2 will be installed  
--> Package libtasn1.x86_64 3:3.4-2.amzn2.0.2 will be installed  
--> Package libunistring.x86_64 0:0.9.3-9.amzn2.0.2 will be installed  
--> Package libzlib.x86_64 1:1.2.3-18.amzn2.0.2 will be installed  
--> Package libzip.x86_64 0:1.3.2-9.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-mysqld.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-pdo.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-pear.x86_64 0:1.9.6-1.amzn2.0.2 will be installed  
--> Package php-process.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-pspell.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-recode.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-snmp.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-soap.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-xml.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package php-xmlrpc.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
--> Package rrdtool-php.x86_64 0:2.0.1-1.amzn2.0.2 will be installed  
--> Package uuid-php.x86_64 0:1.6.2-1.amzn2.0.2 will be installed  
--> Package php-pecl-memcache.x86_64 0:3.0.8-1.amzn2.0.2 will be installed  
--> Running transaction check  
---> Package ca-certificates.x86_64 2014.2.52-1.amzn2.0.2 will be installed  
---> Package libidn.x86_64 1:1.28-2.amzn2.0.2 will be installed  
---> Package libssh.x86_64 0:0.5.3-4.amzn2.0.2 will be installed  
---> Package libssh2.x86_64 1:1.4.2-1.amzn2.0.2 will be installed  
---> Package libssl.x86_64 1:1.0.1e-10.amzn2.0.2 will be installed  
---> Package libtasn1.x86_64 3:3.4-2.amzn2.0.2 will be installed  
---> Package libunistring.x86_64 0:0.9.3-9.amzn2.0.2 will be installed  
---> Package libzlib.x86_64 1:1.2.3-18.amzn2.0.2 will be installed  
---> Package libzip.x86_64 0:1.3.2-9.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-mysqld.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-pdo.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-pear.x86_64 0:1.9.6-1.amzn2.0.2 will be installed  
---> Package php-process.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-pspell.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-recode.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-snmp.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-soap.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-xml.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package php-xmlrpc.x86_64 0:5.4.16-46.amzn2.0.2 will be installed  
---> Package rrdtool-php.x86_64 0:2.0.1-1.amzn2.0.2 will be installed  
---> Package uuid-php.x86_64 0:1.6.2-1.amzn2.0.2 will be installed  
---> Package php-pecl-memcache.x86_64 0:3.0.8-1.amzn2.0.2 will be installed  
--> Complete!</pre>
```

6. Type “yum search php” to see all the packages installed in the 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]# yum search php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
===== N/S matched: php =====  
graphviz-php.x86_64 : PHP extension for graphviz  
php.x86_64 : PHP scripting language for creating dynamic web sites  
php-bcmath.x86_64 : A module for PHP applications for using the bcmath library  
php-cli.x86_64 : Command-line interface for PHP  
php-common.x86_64 : Common files for PHP  
php-dba.x86_64 : A database abstraction layer module for PHP applications  
php-devel.x86_64 : Files needed for building PHP extensions  
php-embedded.x86_64 : PHP library for embedding in applications  
php-enchent.x86_64 : Enchant spelling extension for PHP applications  
php-fpm.x86_64 : PHP FastCGI Process Manager  
php-gd.x86_64 : A module for PHP applications for using the gd graphics library  
php-intl.x86_64 : Internationalization extension for PHP applications  
php-ldap.x86_64 : A module for PHP applications that use LDAP  
php-mbstring.x86_64 : A module for PHP applications which need multi-byte string handling  
php-mysql.x86_64 : A module for PHP applications that use MySQL databases  
php-mysqld.x86_64 : A module for PHP applications that use MySQL databases  
php-odbc.x86_64 : A module for PHP applications that use ODBC databases  
php-pdo.x86_64 : A database access abstraction module for PHP applications  
php-pear.noarch : PHP Extension and Application Repository framework  
php-pgsql.x86_64 : A PostgreSQL database module for PHP  
php-process.x86_64 : Modules for PHP script using system process interfaces  
php-pspell.x86_64 : A module for PHP applications for using pspell interfaces  
php-recode.x86_64 : A module for PHP applications for using the recode library  
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
```

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]#
```

8. After enabling httpd (apache server) , go to the directory where cd /var/www/html/
9. Go to vim and type "<?php phpinfo(); ?>".

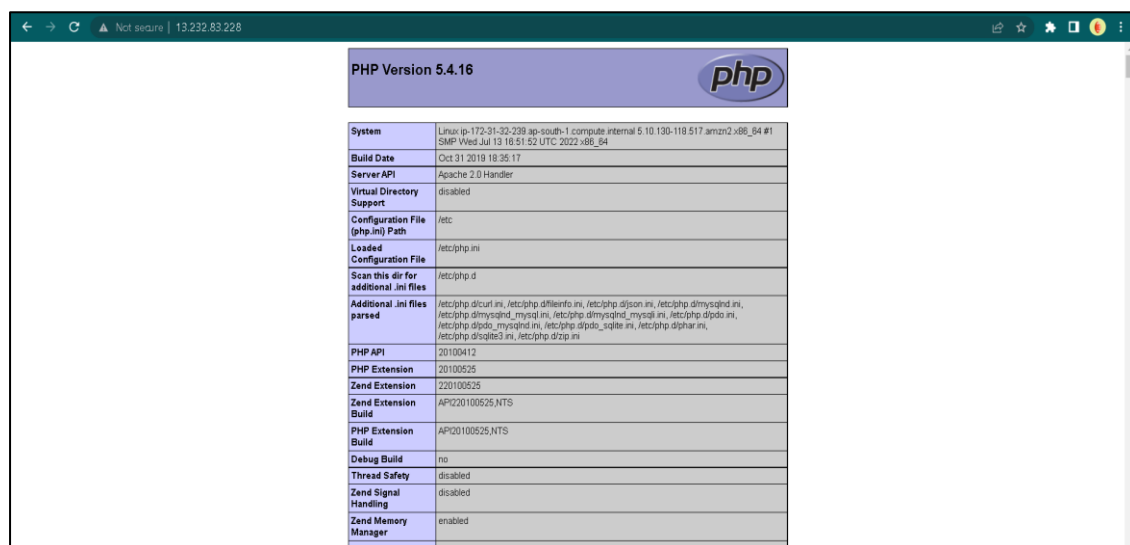
```

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]# 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 5.10.130-119.517.amzn2.x86_64 #1 SMP Wed Jul 13 18:51:52 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/diffinfo.ini, /etc/php.d/json.ini, /etc/php.d/mysqli.ini, /etc/php.d/mysqli_mysql.ini, /etc/php.d/mysqli_mysql.ini, /etc/php.d/pdo.ini, /etc/php.d/pdo_mysql.ini, /etc/php.d/pdo_sqlite.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.