Saturday, 2 March 2024

# Hosting php on EC2 instance

Launch en EC2 instance. And connect to it. Run this update command.

#apt update

```
ubuntu@ip-172-31-21-88:~$ sudo -i
root@ip-172-31-21-88:~# apt update
Hit:1 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
```

## The next step is to install Apache2 using this command

## #apt install apache2

```
root@ip-172-31-21-88:~# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
  ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
  bzip2-doc
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
  ssl-cert
0 upgraded, 13 newly installed, 0 to remove and 78 not upgraded.
Need to get 2139 kB of archives.
After this operation, 8518 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapr1 amd64 1.7.0-8ubuntu0.22.04.1 [108 kB]
Get:2 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1 amd64 1.6.1-5ubuntu4.22.04.2 [92.8 kB]
Get:3 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-5ubuntu4.22.04.2 [11.3 kB]
Get:4 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libaprutil1-ldap amd64 1.6.1-5ubuntu4.22.04.2 [9170 B]
Get:5 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 liblua5.3-0 amd64 5.3.6-1build1 [140 kB]
Get:6 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-bin amd64 2.4.52-1ubuntu4.7 [1346 kB]
Get:7 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-data all 2.4.52-1ubuntu4.7 [165 kB]
Get:8 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2-utils amd64 2.4.52-1ubuntu4.7 [88.8 kB]
Get:9 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 mailcap all 3.70+nmu1ubuntu1 [23.8 kB]
Get:10 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 mime-support all 3.66 [3696 B]
Get:11 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2 amd64 2.4.52-1ubuntu4.7 [97.8 kB]
Get:12 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 bzip2 amd64 1.0.8-5build1 [34.8 kB]
Get:13 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 ssl-cert all 1.1.2 [17.4 kB]
Fetched 2139 kB in 0s (31.8 MB/s)
Preconfiguring packages ...
```

## To install the PHP along with its dependencies, run this command.

#apt install php php-mysql -y

```
root@ip-172-31-21-88:~# apt install php php-mysql -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php8.1 php-common php8.1 php8.1-cli php8.1-common
  php8.1-mysql php8.1-opcache php8.1-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php8.1 php php-common php-mysql php8.1 php8.1-cli
  php8.1-common php8.1-mysql php8.1-opcache php8.1-readline
0 upgraded, 10 newly installed, 0 to remove and 78 not upgraded.
Need to get 5262 kB of archives.
After this operation, 21.8 MB of additional disk space will be used.
Get:1 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 php-common all 2:92ubuntu1 [12.4 kB]
Get:2 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-common amd64 8.1.2-1ubuntu2.14 [1127 kB]
Get:3 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-opcache amd64 8.1.2-1ubuntu2.14 [365 kB]
Get:4 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-readline amd64 8.1.2-1ubuntu2.14 [13.6 kB]
Get:5 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-cli amd64 8.1.2-1ubuntu2.14 [1834 kB]
Get:6 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapache2-mod-php8.1 amd64 8.1.2-1ubuntu2.14 [1766 kB]
Get:7 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1 all 8.1.2-1ubuntu2.14 [9158 B]
Get:8 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 php all 2:8.1+92ubuntu1 [2756 B]
Get:9 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-mysql amd64 8.1.2-1ubuntu2.14 [130 kB]
Get:10 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 php-mysql all 2:8.1+92ubuntu1 [1834 B]
Fetched 5262 kB in 1s (6334 kB/s)
Selecting previously unselected package php-common.
(Reading database ... 65568 files and directories currently installed.)
Preparing to unpack .../0-php-common_2%3a92ubuntu1_all.deb ...
Unpacking php-common (2:92ubuntu1) ...
Selecting previously unselected package php8.1-common.
Preparing to unpack .../1-php8.1-common_8.1.2-1ubuntu2.14_amd64.deb ...
Unpacking php8.1-common (8.1.2-1ubuntu2.14) ...
Selecting previously unselected package php8.1-opcache.
```

# After the successful installation of PHP, let's type the **ls** command in the apache directory. Navigate to the html directory using this command.

#ls -la /var/www/
#cd /var/www/html

```
root@ip-172-31-21-88:~# ls -la /var/www/
total 12
drwxr-xr-x  3 root root 4096 Feb 28 06:48 .
drwxr-xr-x 14 root root 4096 Feb 28 06:48 ..
drwxr-xr-x  2 root root 4096 Feb 28 06:48 html
root@ip-172-31-21-88:~# cd /var/www/html
root@ip-172-31-21-88:/var/www/html# nano index.php
root@ip-172-31-21-88:/var/www/html# mv index.html index.html.temp
```
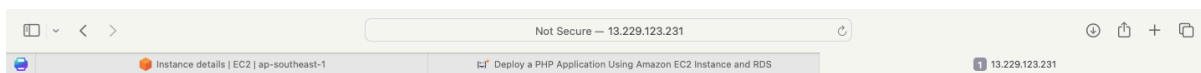
Write Sript in index.php.

#nano index.php

```
  GNU nano 6.2                                    index.php
<?php

echo "This is sample Page by php";

?>
```

```
                                [ Read 5 lines ]
^G Help      ^O Write Out   ^W Where Is   ^K Cut        ^T Execute   ^C Location   M-U Undo   M-A Set Mark
^X Exit      ^R Read File   ^\ Replace    ^U Paste      ^J Justify   ^/ Go To Line M-E Redo   M-6 Copy
```

hit PublicIP of instance

Not Secure — 13.229.123.231

Instance details | EC2 | ap-southeast-1    Deploy a PHP Application Using Amazon EC2 Instance and RDS    13.229.123.231

## This is sample Page by php