

## LAMP Server Package Installation Session

```
cchow@MacBook-Pro privateKey % ssh -i cchowtest_awsac_pkey.pem ec2-
user@54.83.152.253
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@                WARNING: UNPROTECTED PRIVATE KEY FILE!                @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0644 for 'ccchowtest_awsac_pkey.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "ccchowtest_awsac_pkey.pem": bad permissions
ec2-user@54.83.152.253: Permission denied (publickey,gssapi-keyex,gssapi-
with-mic).
ccchow@MacBook-Pro privateKey % chmod 600 cchowtest_awsac_pkey.pem
ccchow@MacBook-Pro privateKey % ssh -i cchowtest_awsac_pkey.pem ec2-
user@54.83.152.253
```

```
  _ |  ( _ | _ )
 _ |  /
 _ | \ _ | _ |
        Amazon Linux 2 AMI
```

```
https://aws.amazon.com/amazon-linux-2/
6 package(s) needed for security, out of 16 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-84-242 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package curl.x86_64 0:7.76.1-7.amzn2.0.2 will be updated
--> Package curl.x86_64 0:7.79.1-1.amzn2.0.1 will be an update
--> Package kernel.x86_64 0:5.10.82-83.359.amzn2 will be installed
--> Package kernel-tools.x86_64 0:5.10.75-79.358.amzn2 will be updated
--> Package kernel-tools.x86_64 0:5.10.82-83.359.amzn2 will be an update
--> Package kpatch-runtime.noarch 0:0.9.4-2.amzn2 will be updated
--> Package kpatch-runtime.noarch 0:0.9.4-3.amzn2 will be an update
--> Package libcurl.x86_64 0:7.76.1-7.amzn2.0.2 will be updated
--> Package libcurl.x86_64 0:7.79.1-1.amzn2.0.1 will be an update
--> Package nspr.x86_64 0:4.32.0-1.amzn2 will be updated
--> Package nspr.x86_64 0:4.32.0-1.amzn2.0.1 will be an update
--> Package nss.x86_64 0:3.67.0-4.amzn2.0.1 will be updated
--> Package nss.x86_64 0:3.67.0-4.amzn2.0.2 will be an update
--> Package nss-softokn.x86_64 0:3.67.0-3.amzn2 will be updated
--> Package nss-softokn.x86_64 0:3.67.0-3.amzn2.0.1 will be an update
--> Package nss-softokn-freebl.x86_64 0:3.67.0-3.amzn2 will be updated
--> Package nss-softokn-freebl.x86_64 0:3.67.0-3.amzn2.0.1 will be an update
--> Package nss-sysinit.x86_64 0:3.67.0-4.amzn2.0.1 will be updated
--> Package nss-sysinit.x86_64 0:3.67.0-4.amzn2.0.2 will be an update
--> Package nss-tools.x86_64 0:3.67.0-4.amzn2.0.1 will be updated
--> Package nss-tools.x86_64 0:3.67.0-4.amzn2.0.2 will be an update
--> Package nss-util.x86_64 0:3.67.0-1.amzn2 will be updated
--> Package nss-util.x86_64 0:3.67.0-1.amzn2.0.1 will be an update
--> Package vim-common.x86_64 2:8.1.1602-1.amzn2 will be updated
--> Package vim-common.x86_64 2:8.2.3642-1.amzn2.0.1 will be an update
--> Package vim-enhanced.x86_64 2:8.1.1602-1.amzn2 will be updated
--> Package vim-enhanced.x86_64 2:8.2.3642-1.amzn2.0.1 will be an update
--> Package vim-filessystem.noarch 2:8.1.1602-1.amzn2 will be updated
--> Package vim-filessystem.noarch 2:8.2.3642-1.amzn2.0.1 will be an update
```

```

---> Package vim-minimal.x86_64 2:8.1.1602-1.amzn2 will be updated
---> Package vim-minimal.x86_64 2:8.2.3642-1.amzn2.0.1 will be an update
--> Finished Dependency Resolution

```

# Dependencies Resolved

```

=====
===

```

| Package<br>Size    | Arch   | Version                | Repository             |     |
|--------------------|--------|------------------------|------------------------|-----|
| =====              |        |                        |                        |     |
| ===                |        |                        |                        |     |
| Installing:        |        |                        |                        |     |
| kernel             | x86_64 | 5.10.82-83.359.amzn2   | amzn2extra-kernel-5.10 | 27  |
| M                  |        |                        |                        |     |
| Updating:          |        |                        |                        |     |
| curl               | x86_64 | 7.79.1-1.amzn2.0.1     | amzn2-core             | 359 |
| k                  |        |                        |                        |     |
| kernel-tools       | x86_64 | 5.10.82-83.359.amzn2   | amzn2extra-kernel-5.10 | 160 |
| k                  |        |                        |                        |     |
| kpatch-runtime     | noarch | 0.9.4-3.amzn2          | amzn2-core             | 27  |
| k                  |        |                        |                        |     |
| libcurl            | x86_64 | 7.79.1-1.amzn2.0.1     | amzn2-core             | 321 |
| k                  |        |                        |                        |     |
| nspr               | x86_64 | 4.32.0-1.amzn2.0.1     | amzn2-core             | 126 |
| k                  |        |                        |                        |     |
| nss                | x86_64 | 3.67.0-4.amzn2.0.2     | amzn2-core             | 873 |
| k                  |        |                        |                        |     |
| nss-softokn        | x86_64 | 3.67.0-3.amzn2.0.1     | amzn2-core             | 355 |
| k                  |        |                        |                        |     |
| nss-softokn-freebl | x86_64 | 3.67.0-3.amzn2.0.1     | amzn2-core             | 346 |
| k                  |        |                        |                        |     |
| nss-sysinit        | x86_64 | 3.67.0-4.amzn2.0.2     | amzn2-core             | 66  |
| k                  |        |                        |                        |     |
| nss-tools          | x86_64 | 3.67.0-4.amzn2.0.2     | amzn2-core             | 544 |
| k                  |        |                        |                        |     |
| nss-util           | x86_64 | 3.67.0-1.amzn2.0.1     | amzn2-core             | 79  |
| k                  |        |                        |                        |     |
| vim-common         | x86_64 | 2:8.2.3642-1.amzn2.0.1 | amzn2-core             | 7.3 |
| M                  |        |                        |                        |     |
| vim-enhanced       | x86_64 | 2:8.2.3642-1.amzn2.0.1 | amzn2-core             | 1.6 |
| M                  |        |                        |                        |     |
| vim-filesystem     | noarch | 2:8.2.3642-1.amzn2.0.1 | amzn2-core             | 67  |
| k                  |        |                        |                        |     |
| vim-minimal        | x86_64 | 2:8.2.3642-1.amzn2.0.1 | amzn2-core             | 688 |
| k                  |        |                        |                        |     |

## Transaction Summary

```

=====
===
Install    1 Package
Upgrade   15 Packages

```

```

Total download size: 40 M
Is this ok [y/d/N]: y
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.

```

|          |                                                  |        |       |
|----------|--------------------------------------------------|--------|-------|
| (1/16):  | curl-7.79.1-1.amzn2.0.1.x86_64.rpm               | 359 kB | 00:00 |
| (2/16):  | kpatch-runtime-0.9.4-3.amzn2.noarch.rpm          | 27 kB  | 00:00 |
| (3/16):  | kernel-tools-5.10.82-83.359.amzn2.x86_64.rpm     | 160 kB | 00:00 |
| (4/16):  | libcurl-7.79.1-1.amzn2.0.1.x86_64.rpm            | 321 kB | 00:00 |
| (5/16):  | nspr-4.32.0-1.amzn2.0.1.x86_64.rpm               | 126 kB | 00:00 |
| (6/16):  | nss-softokn-3.67.0-3.amzn2.0.1.x86_64.rpm        | 355 kB | 00:00 |
| (7/16):  | nss-3.67.0-4.amzn2.0.2.x86_64.rpm                | 873 kB | 00:00 |
| (8/16):  | nss-sysinit-3.67.0-4.amzn2.0.2.x86_64.rpm        | 66 kB  | 00:00 |
| (9/16):  | nss-softokn-freebl-3.67.0-3.amzn2.0.1.x86_64.rpm | 346 kB | 00:00 |
| (10/16): | nss-util-3.67.0-1.amzn2.0.1.x86_64.rpm           | 79 kB  | 00:00 |
| (11/16): | nss-tools-3.67.0-4.amzn2.0.2.x86_64.rpm          | 544 kB | 00:00 |
| (12/16): | vim-enhanced-8.2.3642-1.amzn2.0.1.x86_64.rpm     | 1.6 MB | 00:00 |
| (13/16): | vim-filesystem-8.2.3642-1.amzn2.0.1.noarch.rpm   | 67 kB  | 00:00 |
| (14/16): | vim-minimal-8.2.3642-1.amzn2.0.1.x86_64.rpm      | 688 kB | 00:00 |
| (15/16): | vim-common-8.2.3642-1.amzn2.0.1.x86_64.rpm       | 7.3 MB | 00:00 |
| (16/16): | kernel-5.10.82-83.359.amzn2.x86_64.rpm           | 27 MB  | 00:00 |

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|       |                 |       |
|-------|-----------------|-------|
| Total | 47 MB/s   40 MB | 00:00 |
|-------|-----------------|-------|

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Updating : nspr-4.32.0-1.amzn2.0.1.x86\_64

1/31

Updating : nss-util-3.67.0-1.amzn2.0.1.x86\_64

2/31

Updating : nss-softokn-freebl-3.67.0-3.amzn2.0.1.x86\_64

3/31

Updating : nss-softokn-3.67.0-3.amzn2.0.1.x86\_64

4/31

Updating : nss-sysinit-3.67.0-4.amzn2.0.2.x86\_64

5/31

Updating : nss-3.67.0-4.amzn2.0.2.x86\_64

6/31

Updating : 2:vim-filesystem-8.2.3642-1.amzn2.0.1.noarch

7/31

Updating : 2:vim-common-8.2.3642-1.amzn2.0.1.x86\_64

8/31

Updating : libcurl-7.79.1-1.amzn2.0.1.x86\_64

9/31

Updating : curl-7.79.1-1.amzn2.0.1.x86\_64

10/31

Updating : 2:vim-enhanced-8.2.3642-1.amzn2.0.1.x86\_64

11/31

Updating : nss-tools-3.67.0-4.amzn2.0.2.x86\_64

12/31

Updating : 2:vim-minimal-8.2.3642-1.amzn2.0.1.x86\_64

13/31

Updating : kernel-tools-5.10.82-83.359.amzn2.x86\_64

14/31

Installing : kernel-5.10.82-83.359.amzn2.x86\_64

15/31

Updating : kpatch-runtime-0.9.4-3.amzn2.noarch

16/31

Cleanup : nss-tools-3.67.0-4.amzn2.0.1.x86\_64

17/31

```
Cleanup      : nss-sysinit-3.67.0-4.amzn2.0.1.x86_64
18/31
Cleanup      : nss-3.67.0-4.amzn2.0.1.x86_64
19/31
Cleanup      : nss-softokn-3.67.0-3.amzn2.x86_64
20/31
Cleanup      : nss-softokn-freebl-3.67.0-3.amzn2.x86_64
21/31
Cleanup      : nss-util-3.67.0-1.amzn2.x86_64
22/31
Cleanup      : 2:vim-enhanced-8.1.1602-1.amzn2.x86_64
23/31
Cleanup      : 2:vim-common-8.1.1602-1.amzn2.x86_64
24/31
Cleanup      : curl-7.76.1-7.amzn2.0.2.x86_64
25/31
Cleanup      : 2:vim-filesystem-8.1.1602-1.amzn2.noarch
26/31
Cleanup      : kpatch-runtime-0.9.4-2.amzn2.noarch
27/31
Cleanup      : libcurl-7.76.1-7.amzn2.0.2.x86_64
28/31
Cleanup      : nspr-4.32.0-1.amzn2.x86_64
29/31
Cleanup      : 2:vim-minimal-8.1.1602-1.amzn2.x86_64
30/31
Cleanup      : kernel-tools-5.10.75-79.358.amzn2.x86_64
31/31
Verifying    : nspr-4.32.0-1.amzn2.0.1.x86_64
1/31
Verifying    : nss-util-3.67.0-1.amzn2.0.1.x86_64
2/31
Verifying    : curl-7.79.1-1.amzn2.0.1.x86_64
3/31
Verifying    : 2:vim-enhanced-8.2.3642-1.amzn2.0.1.x86_64
4/31
Verifying    : kpatch-runtime-0.9.4-3.amzn2.noarch
5/31
Verifying    : libcurl-7.79.1-1.amzn2.0.1.x86_64
6/31
Verifying    : nss-tools-3.67.0-4.amzn2.0.2.x86_64
7/31
Verifying    : 2:vim-common-8.2.3642-1.amzn2.0.1.x86_64
8/31
Verifying    : nss-3.67.0-4.amzn2.0.2.x86_64
9/31
Verifying    : nss-sysinit-3.67.0-4.amzn2.0.2.x86_64
10/31
Verifying    : nss-softokn-3.67.0-3.amzn2.0.1.x86_64
11/31
Verifying    : kernel-5.10.82-83.359.amzn2.x86_64
12/31
Verifying    : nss-softokn-freebl-3.67.0-3.amzn2.0.1.x86_64
13/31
Verifying    : kernel-tools-5.10.82-83.359.amzn2.x86_64
14/31
```

```
Verifying : 2:vim-minimal-8.2.3642-1.amzn2.0.1.x86_64
15/31
Verifying : 2:vim-filesystem-8.2.3642-1.amzn2.0.1.noarch
16/31
Verifying : nss-softokn-3.67.0-3.amzn2.x86_64
17/31
Verifying : 2:vim-minimal-8.1.1602-1.amzn2.x86_64
18/31
Verifying : 2:vim-enhanced-8.1.1602-1.amzn2.x86_64
19/31
Verifying : kernel-tools-5.10.75-79.358.amzn2.x86_64
20/31
Verifying : nss-tools-3.67.0-4.amzn2.0.1.x86_64
21/31
Verifying : libcurl-7.76.1-7.amzn2.0.2.x86_64
22/31
Verifying : nss-3.67.0-4.amzn2.0.1.x86_64
23/31
Verifying : curl-7.76.1-7.amzn2.0.2.x86_64
24/31
Verifying : nss-util-3.67.0-1.amzn2.x86_64
25/31
Verifying : nspr-4.32.0-1.amzn2.x86_64
26/31
Verifying : 2:vim-filesystem-8.1.1602-1.amzn2.noarch
27/31
Verifying : kpatch-runtime-0.9.4-2.amzn2.noarch
28/31
Verifying : nss-softokn-freebl-3.67.0-3.amzn2.x86_64
29/31
Verifying : nss-sysinit-3.67.0-4.amzn2.0.1.x86_64
30/31
Verifying : 2:vim-common-8.1.1602-1.amzn2.x86_64
31/31
```

Installed:

```
kernel.x86_64 0:5.10.82-83.359.amzn2
```

Updated:

```
curl.x86_64 0:7.79.1-1.amzn2.0.1
kernel-tools.x86_64 0:5.10.82-83.359.amzn2
kpatch-runtime.noarch 0:0.9.4-3.amzn2
libcurl.x86_64 0:7.79.1-1.amzn2.0.1
nspr.x86_64 0:4.32.0-1.amzn2.0.1
nss.x86_64 0:3.67.0-4.amzn2.0.2
nss-softokn.x86_64 0:3.67.0-3.amzn2.0.1
nss-softokn-freebl.x86_64 0:3.67.0-3.amzn2.0.1
nss-sysinit.x86_64 0:3.67.0-4.amzn2.0.2
nss-tools.x86_64 0:3.67.0-4.amzn2.0.2
nss-util.x86_64 0:3.67.0-1.amzn2.0.1
vim-common.x86_64 2:8.2.3642-1.amzn2.0.1
vim-enhanced.x86_64 2:8.2.3642-1.amzn2.0.1
vim-filesystem.noarch 2:8.2.3642-1.amzn2.0.1
vim-minimal.x86_64 2:8.2.3642-1.amzn2.0.1
```

Complete!

```
[ec2-user@ip-172-31-84-242 ~]$ uname -a
```

```

Linux ip-172-31-84-242.ec2.internal 5.10.75-79.358.amzn2.x86_64 #1 SMP Thu
Nov 4 21:08:30 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
[ec2-user@ip-172-31-84-242 ~]$ sudo amazon-linux-extras install -y lamp-
mariadb10.2-php7.2 php7.2
Installing php-pdo, php-mysqldb, php-fpm, php-cli, php-json, mariadb
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-kernel-5.10
                : amzn2extra-lamp-mariadb10.2-php7.2 amzn2extra-php7.2
17 metadata files removed
6 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00
amzn2extra-docker | 3.0 kB 00:00
amzn2extra-kernel-5.10 | 3.0 kB 00:00
amzn2extra-lamp-mariadb10.2-php7.2 | 3.0 kB 00:00
amzn2extra-php7.2 | 3.0 kB 00:00
(1/11): amzn2-core/2/x86_64/group_gz | 2.5 kB 00:00
(2/11): amzn2-core/2/x86_64/updateinfo | 432 kB 00:00
(3/11): amzn2extra-kernel-5.10/2/x86_64/primary_db | 5.8 MB 00:00
(4/11): amzn2extra-docker/2/x86_64/updateinfo | 4.7 kB 00:00
(5/11): amzn2extra-kernel-5.10/2/x86_64/updateinfo | 76 B 00:00
(6/11): amzn2extra-docker/2/x86_64/primary_db | 86 kB 00:00
(7/11): amzn2extra-lamp-mariadb10.2-php7.2/2/x86_64/update | 76 B 00:00
(8/11): amzn2extra-lamp-mariadb10.2-php7.2/2/x86_64/primar | 506 kB 00:00
(9/11): amzn2extra-php7.2/2/x86_64/updateinfo | 76 B 00:00
(10/11): amzn2extra-php7.2/2/x86_64/primary_db | 580 kB 00:00
(11/11): amzn2-core/2/x86_64/primary_db | 59 MB 00:01
Resolving Dependencies
--> Running transaction check
---> Package mariadb.x86_64 3:10.2.38-1.amzn2.0.1 will be installed
--> Processing Dependency: mariadb-libs(x86-64) = 3:10.2.38-1.amzn2.0.1 for
package: 3:mariadb-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: mariadb-common(x86-64) = 3:10.2.38-1.amzn2.0.1 for
package: 3:mariadb-10.2.38-1.amzn2.0.1.x86_64
---> Package php-cli.x86_64 0:7.2.34-1.amzn2 will be installed
--> Processing Dependency: php-common(x86-64) = 7.2.34-1.amzn2 for package:
php-cli-7.2.34-1.amzn2.x86_64
---> Package php-fpm.x86_64 0:7.2.34-1.amzn2 will be installed
---> Package php-json.x86_64 0:7.2.34-1.amzn2 will be installed
---> Package php-mysqldb.x86_64 0:7.2.34-1.amzn2 will be installed
---> Package php-pdo.x86_64 0:7.2.34-1.amzn2 will be installed
--> Running transaction check
---> Package mariadb-common.x86_64 3:10.2.38-1.amzn2.0.1 will be installed
--> Processing Dependency: /etc/my.cnf for package: 3:mariadb-common-10.2.38-
1.amzn2.0.1.x86_64
---> Package mariadb-libs.x86_64 1:5.5.68-1.amzn2 will be updated
---> Package mariadb-libs.x86_64 3:10.2.38-1.amzn2.0.1 will be an update
---> Package php-common.x86_64 0:7.2.34-1.amzn2 will be installed
--> Processing Dependency: libzip.so.5()(64bit) for package: php-common-
7.2.34-1.amzn2.x86_64
--> Running transaction check
---> Package libzip.x86_64 0:1.3.2-1.amzn2.0.1 will be installed
---> Package mariadb-config.x86_64 3:10.2.38-1.amzn2.0.1 will be installed
---> Package mariadb-libs.x86_64 1:5.5.68-1.amzn2 will be updated
--> Finished Dependency Resolution

```

## Dependencies Resolved

```
=====
===
Package      Arch   Version      Repository
Size
=====
===
Installing:
 mariadb      x86_64 3:10.2.38-1.amzn2.0.1
                                     amzn2extra-lamp-mariadb10.2-php7.2 6.1
M
 php-cli      x86_64 7.2.34-1.amzn2   amzn2extra-php7.2           4.4
M
 php-fpm      x86_64 7.2.34-1.amzn2   amzn2extra-php7.2           1.5
M
 php-json     x86_64 7.2.34-1.amzn2   amzn2extra-php7.2           71
k
 php-mysqlnd  x86_64 7.2.34-1.amzn2   amzn2extra-php7.2          238
k
 php-pdo      x86_64 7.2.34-1.amzn2   amzn2extra-php7.2          132
k
Installing for dependencies:
 libzip       x86_64 1.3.2-1.amzn2.0.1 amzn2-core                   62
k
 mariadb-common
               x86_64 3:10.2.38-1.amzn2.0.1
                                     amzn2extra-lamp-mariadb10.2-php7.2 58
k
 mariadb-config
               x86_64 3:10.2.38-1.amzn2.0.1
                                     amzn2extra-lamp-mariadb10.2-php7.2 34
k
 php-common   x86_64 7.2.34-1.amzn2   amzn2extra-php7.2           1.1
M
Updating for dependencies:
 mariadb-libs x86_64 3:10.2.38-1.amzn2.0.1
                                     amzn2extra-lamp-mariadb10.2-php7.2 154
k

Transaction Summary
=====
===
Install  6 Packages (+4 Dependent packages)
Upgrade      ( 1 Dependent package)

Total download size: 14 M
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
(1/11): libzip-1.3.2-1.amzn2.0.1.x86_64.rpm           | 62 kB   00:00
(2/11): mariadb-common-10.2.38-1.amzn2.0.1.x86_64.rpm | 58 kB   00:00
(3/11): mariadb-config-10.2.38-1.amzn2.0.1.x86_64.rpm | 34 kB   00:00
(4/11): mariadb-libs-10.2.38-1.amzn2.0.1.x86_64.rpm  | 154 kB   00:00
(5/11): mariadb-10.2.38-1.amzn2.0.1.x86_64.rpm       | 6.1 MB   00:00
(6/11): php-common-7.2.34-1.amzn2.x86_64.rpm         | 1.1 MB   00:00
(7/11): php-cli-7.2.34-1.amzn2.x86_64.rpm            | 4.4 MB   00:00
(8/11): php-fpm-7.2.34-1.amzn2.x86_64.rpm            | 1.5 MB   00:00
```

|                                                |        |       |
|------------------------------------------------|--------|-------|
| (9/11): php-json-7.2.34-1.amzn2.x86_64.rpm     | 71 kB  | 00:00 |
| (10/11): php-mysqlnd-7.2.34-1.amzn2.x86_64.rpm | 238 kB | 00:00 |
| (11/11): php-pdo-7.2.34-1.amzn2.x86_64.rpm     | 132 kB | 00:00 |

---

|       |                 |       |
|-------|-----------------|-------|
| Total | 27 MB/s   14 MB | 00:00 |
|-------|-----------------|-------|

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : libzip-1.3.2-1.amzn2.0.1.x86\_64

1/12

Installing : php-common-7.2.34-1.amzn2.x86\_64

2/12

Installing : php-json-7.2.34-1.amzn2.x86\_64

3/12

Installing : php-pdo-7.2.34-1.amzn2.x86\_64

4/12

Installing : 3:mariadb-config-10.2.38-1.amzn2.0.1.x86\_64

5/12

Installing : 3:mariadb-common-10.2.38-1.amzn2.0.1.x86\_64

6/12

Updating : 3:mariadb-libs-10.2.38-1.amzn2.0.1.x86\_64

7/12

Installing : 3:mariadb-10.2.38-1.amzn2.0.1.x86\_64

8/12

Installing : php-mysqlnd-7.2.34-1.amzn2.x86\_64

9/12

Installing : php-fpm-7.2.34-1.amzn2.x86\_64

10/12

Installing : php-cli-7.2.34-1.amzn2.x86\_64

11/12

Cleanup : 1:mariadb-libs-5.5.68-1.amzn2.x86\_64

12/12

Verifying : php-fpm-7.2.34-1.amzn2.x86\_64

1/12

Verifying : php-cli-7.2.34-1.amzn2.x86\_64

2/12

Verifying : 3:mariadb-common-10.2.38-1.amzn2.0.1.x86\_64

3/12

Verifying : 3:mariadb-libs-10.2.38-1.amzn2.0.1.x86\_64

4/12

Verifying : php-json-7.2.34-1.amzn2.x86\_64

5/12

Verifying : 3:mariadb-config-10.2.38-1.amzn2.0.1.x86\_64

6/12

Verifying : libzip-1.3.2-1.amzn2.0.1.x86\_64

7/12

Verifying : php-mysqlnd-7.2.34-1.amzn2.x86\_64

8/12

Verifying : php-pdo-7.2.34-1.amzn2.x86\_64

9/12

Verifying : 3:mariadb-10.2.38-1.amzn2.0.1.x86\_64

10/12

Verifying : php-common-7.2.34-1.amzn2.x86\_64

11/12



Verifying : 1:mariadb-libs-5.5.68-1.amzn2.x86\_64  
12/12

Installed:

|                   |                       |                 |                  |
|-------------------|-----------------------|-----------------|------------------|
| mariadb.x86_64    | 3:10.2.38-1.amzn2.0.1 | php-cli.x86_64  | 0:7.2.34-1.amzn2 |
| php-fpm.x86_64    | 0:7.2.34-1.amzn2      | php-json.x86_64 | 0:7.2.34-1.amzn2 |
| php-mysqld.x86_64 | 0:7.2.34-1.amzn2      | php-pdo.x86_64  | 0:7.2.34-1.amzn2 |

Dependency Installed:

libzip.x86\_64 0:1.3.2-1.amzn2.0.1  
mariadb-common.x86\_64 3:10.2.38-1.amzn2.0.1  
mariadb-config.x86\_64 3:10.2.38-1.amzn2.0.1  
php-common.x86\_64 0:7.2.34-1.amzn2

Dependency Updated:

mariadb-libs.x86\_64 3:10.2.38-1.amzn2.0.1

Complete!

|    |                                                                                                                                                                                                                         |           |                    |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|
| 0  | ansible2                                                                                                                                                                                                                | available | \                  |
|    | [ =2.4.2 =2.4.6 =2.8 =stable ]                                                                                                                                                                                          |           |                    |
| 2  | httpd_modules                                                                                                                                                                                                           | available | [ =1.0 =stable ]   |
| 3  | memcached1.5                                                                                                                                                                                                            | available | \                  |
|    | [ =1.5.1 =1.5.16 =1.5.17 ]                                                                                                                                                                                              |           |                    |
| 5  | postgresql9.6                                                                                                                                                                                                           | available | \                  |
|    | [ =9.6.6 =9.6.8 =stable ]                                                                                                                                                                                               |           |                    |
| 6  | postgresql10                                                                                                                                                                                                            | available | [ =10 =stable ]    |
| 9  | R3.4                                                                                                                                                                                                                    | available | [ =3.4.3 =stable ] |
| 10 | rust1                                                                                                                                                                                                                   | available | \                  |
|    | [ =1.22.1 =1.26.0 =1.26.1 =1.27.2 =1.31.0 =1.38.0 =stable ]                                                                                                                                                             |           |                    |
| 11 | vim                                                                                                                                                                                                                     | available | [ =8.0 =stable ]   |
| 15 | php7.2=latest                                                                                                                                                                                                           | enabled   | \                  |
|    | [ =7.2.0 =7.2.4 =7.2.5 =7.2.8 =7.2.11 =7.2.13 =7.2.14 =7.2.16 =7.2.17 =7.2.19 =7.2.21 =7.2.22 =7.2.23 =7.2.24 =7.2.26 =stable ]                                                                                         |           |                    |
| 17 | lamp-mariadb10.2-php7.2=latest                                                                                                                                                                                          | enabled   | \                  |
|    | [ =10.2.10_7.2.0 =10.2.10_7.2.4 =10.2.10_7.2.5 =10.2.10_7.2.8 =10.2.10_7.2.11 =10.2.10_7.2.13 =10.2.10_7.2.14 =10.2.10_7.2.16 =10.2.10_7.2.17 =10.2.10_7.2.19 =10.2.10_7.2.22 =10.2.10_7.2.23 =10.2.10_7.2.24 =stable ] |           |                    |
| 18 | libreoffice                                                                                                                                                                                                             | available | \                  |
|    | [ =5.0.6.2_15 =5.3.6.1 =stable ]                                                                                                                                                                                        |           |                    |
| 19 | gimp                                                                                                                                                                                                                    | available | [ =2.8.22 ]        |
| 20 | docker=latest                                                                                                                                                                                                           | enabled   | \                  |
|    | [ =17.12.1 =18.03.1 =18.06.1 =18.09.9 =stable ]                                                                                                                                                                         |           |                    |
| 21 | mate-desktop1.x                                                                                                                                                                                                         | available | \                  |
|    | [ =1.19.0 =1.20.0 =stable ]                                                                                                                                                                                             |           |                    |
| 22 | GraphicsMagick1.3                                                                                                                                                                                                       | available | \                  |
|    | [ =1.3.29 =1.3.32 =1.3.34 =stable ]                                                                                                                                                                                     |           |                    |
| 23 | tomcat8.5                                                                                                                                                                                                               | available | \                  |
|    | [ =8.5.31 =8.5.32 =8.5.38 =8.5.40 =8.5.42 =8.5.50 =stable ]                                                                                                                                                             |           |                    |
| 24 | epel                                                                                                                                                                                                                    | available | [ =7.11 =stable ]  |
| 25 | testing                                                                                                                                                                                                                 | available | [ =1.0 =stable ]   |
| 26 | ecs                                                                                                                                                                                                                     | available | [ =stable ]        |
| 27 | corretto8                                                                                                                                                                                                               | available | \                  |

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    [ =1.8.0_192  =1.8.0_202  =1.8.0_212  =1.8.0_222  =1.8.0_232
      =1.8.0_242  =stable ]
28  firecracker                available    [ =0.11  =stable ]
29  golang1.11                 available    \
    [ =1.11.3  =1.11.11  =1.11.13  =stable ]
30  squid4                     available    [ =4  =stable ]
-   php7.3                     available    \
    [ =7.3.2  =7.3.3  =7.3.4  =7.3.6  =7.3.8  =7.3.9  =7.3.10
      =7.3.11  =7.3.13  =stable ]
32  lustre2.10                 available    \
    [ =2.10.5  =2.10.8  =stable ]
33  java-openjdk11             available    [ =11  =stable ]
34  lynis                      available    [ =stable ]
35  kernel-ng                   available    [ =stable ]
36  BCC                         available    [ =0.x  =stable ]
37  mono                       available    [ =5.x  =stable ]
38  nginx1                     available    [ =stable ]
39  ruby2.6                     available    [ =2.6  =stable ]
40  mock                        available    [ =stable ]
41  postgresql11               available    [ =11  =stable ]
-   php7.4                     available    [ =stable ]
43  livepatch                  available    [ =stable ]
44  python3.8                   available    [ =stable ]
45  haproxy2                     available    [ =stable ]
46  collectd                     available    [ =stable ]
47  aws-nitro-enclaves-cli      available    [ =stable ]
48  R4                           available    [ =stable ]
-   kernel-5.4                  available    [ =stable ]
50  selinux-ng                   available    [ =stable ]
-   php8.0                       available    [ =stable ]
52  tomcat9                     available    [ =stable ]
53  unbound1.13                 available    [ =stable ]
-   mariadb10.5                  available    [ =stable ]
55  kernel-5.10=latest          enabled     [ =stable ]
56  redis6                       available    [ =stable ]
57  ruby3.0                       available    [ =stable ]
58  postgresql12                 available    [ =stable ]
59  postgresql13                 available    [ =stable ]
60  mock2                         available    [ =stable ]
61  dnsmasq2.85                  available    [ =stable ]
[ec2-user@ip-172-31-84-242 ~]$ cat /etc/system-release
Amazon Linux release 2 (Karoo)
[ec2-user@ip-172-31-84-242 ~]$ sudo yum install -y httpd mariadb-server
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.51-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.51-1.amzn2 for package: httpd-
2.4.51-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.51-1.amzn2 for package:
httpd-2.4.51-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.51-
1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.51-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.51-
1.amzn2.x86_64

```

```

--> Processing Dependency: /etc/mime.types for package: httpd-2.4.51-
1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-
2.4.51-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.51-
1.amzn2.x86_64
---> Package mariadb-server.x86_64 3:10.2.38-1.amzn2.0.1 will be installed
--> Processing Dependency: mariadb-tokudb-engine(x86-64) = 3:10.2.38-
1.amzn2.0.1 for package: 3:mariadb-server-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: mariadb-server-utils(x86-64) = 3:10.2.38-
1.amzn2.0.1 for package: 3:mariadb-server-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: mariadb-rocksdb-engine(x86-64) = 3:10.2.38-
1.amzn2.0.1 for package: 3:mariadb-server-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: mariadb-gssapi-server(x86-64) = 3:10.2.38-
1.amzn2.0.1 for package: 3:mariadb-server-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: mariadb-errmsg(x86-64) = 3:10.2.38-1.amzn2.0.1 for
package: 3:mariadb-server-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: mariadb-cracklib-password-check(x86-64) =
3:10.2.38-1.amzn2.0.1 for package: 3:mariadb-server-10.2.38-
1.amzn2.0.1.x86_64
--> Processing Dependency: mariadb-backup(x86-64) = 3:10.2.38-1.amzn2.0.1 for
package: 3:mariadb-server-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: bison for package: 3:mariadb-server-10.2.38-
1.amzn2.0.1.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 bison.x86_64 0:3.0.4-6.amzn2.0.2 will be installed
--> Processing Dependency: m4 >= 1.4 for package: bison-3.0.4-
6.amzn2.0.2.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.51-1.amzn2 will be installed
---> Package httpd-tools.x86_64 0:2.4.51-1.amzn2 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mariadb-backup.x86_64 3:10.2.38-1.amzn2.0.1 will be installed
---> Package mariadb-cracklib-password-check.x86_64 3:10.2.38-1.amzn2.0.1
will be installed
---> Package mariadb-errmsg.x86_64 3:10.2.38-1.amzn2.0.1 will be installed
---> Package mariadb-gssapi-server.x86_64 3:10.2.38-1.amzn2.0.1 will be
installed
---> Package mariadb-rocksdb-engine.x86_64 3:10.2.38-1.amzn2.0.1 will be
installed
---> Package mariadb-server-utils.x86_64 3:10.2.38-1.amzn2.0.1 will be
installed
--> Processing Dependency: perl(Data::Dumper) for package: 3:mariadb-server-
utils-10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: perl(DBI) for package: 3:mariadb-server-utils-
10.2.38-1.amzn2.0.1.x86_64
--> Processing Dependency: perl(DBD::mysql) for package: 3:mariadb-server-
utils-10.2.38-1.amzn2.0.1.x86_64
---> Package mariadb-tokudb-engine.x86_64 3:10.2.38-1.amzn2.0.1 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
---> Package m4.x86_64 0:1.4.16-10.amzn2.0.2 will be installed
---> 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
--> Processing Dependency: perl(Net::Daemon::Test) for package: perl-PlRPC-0.2020-14.amzn2.noarch
--> Processing Dependency: perl(Net::Daemon::Log) for package: perl-PlRPC-0.2020-14.amzn2.noarch
--> Processing Dependency: perl(Compress::Zlib) for package: perl-PlRPC-0.2020-14.amzn2.noarch
--> Running transaction check
---> Package perl-IO-Compress.noarch 0:2.061-2.amzn2 will be installed
--> Processing Dependency: perl(Compress::Raw::Zlib) >= 2.061 for package: perl-IO-Compress-2.061-2.amzn2.noarch
--> Processing Dependency: perl(Compress::Raw::Bzip2) >= 2.061 for package: perl-IO-Compress-2.061-2.amzn2.noarch
---> Package perl-Net-Daemon.noarch 0:0.48-5.amzn2 will be installed
--> Running transaction check
---> Package perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.amzn2.0.2 will be installed
---> Package perl-Compress-Raw-Zlib.x86_64 1:2.061-4.amzn2.0.2 will be installed
--> Finished Dependency Resolution

```

Dependencies Resolved

|                              |        |                       |             |     |
|------------------------------|--------|-----------------------|-------------|-----|
| =====                        |        |                       |             |     |
| ===                          |        |                       |             |     |
| Package                      | Arch   | Version               | Repository  |     |
| Size                         |        |                       |             |     |
| =====                        |        |                       |             |     |
| ===                          |        |                       |             |     |
| Installing:                  |        |                       |             |     |
| httpd                        | x86_64 | 2.4.51-1.amzn2        | amzn2-core  | 1.3 |
| M                            |        |                       |             |     |
| mariadb-server               | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2      |        |                       |             | 17  |
| M                            |        |                       |             |     |
| Installing for dependencies: |        |                       |             |     |
| apr                          | x86_64 | 1.7.0-9.amzn2         | amzn2-core  | 122 |
| k                            |        |                       |             |     |
| apr-util                     | x86_64 | 1.6.1-5.amzn2.0.2     | amzn2-core  | 99  |
| k                            |        |                       |             |     |
| apr-util-bdb                 | x86_64 | 1.6.1-5.amzn2.0.2     | amzn2-core  | 19  |
| k                            |        |                       |             |     |

|                                 |        |                       |             |     |
|---------------------------------|--------|-----------------------|-------------|-----|
| bison                           | x86_64 | 3.0.4-6.amzn2.0.2     | amzn2-core  | 674 |
| k                               |        |                       |             |     |
| generic-logos-httpd             | noarch | 18.0.0-4.amzn2        | amzn2-core  | 19  |
| k                               |        |                       |             |     |
| httpd-filesystem                | noarch | 2.4.51-1.amzn2        | amzn2-core  | 24  |
| k                               |        |                       |             |     |
| httpd-tools                     | x86_64 | 2.4.51-1.amzn2        | amzn2-core  | 88  |
| k                               |        |                       |             |     |
| m4                              | x86_64 | 1.4.16-10.amzn2.0.2   | amzn2-core  | 256 |
| k                               |        |                       |             |     |
| mailcap                         | noarch | 2.1.41-2.amzn2        | amzn2-core  | 31  |
| k                               |        |                       |             |     |
| mariadb-backup                  | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2         |        |                       |             | 5.9 |
| M                               |        |                       |             |     |
| mariadb-cracklib-password-check | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2         |        |                       |             | 37  |
| k                               |        |                       |             |     |
| mariadb-errmsg                  | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2         |        |                       |             | 222 |
| k                               |        |                       |             |     |
| mariadb-gssapi-server           | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2         |        |                       |             | 39  |
| k                               |        |                       |             |     |
| mariadb-rocksdb-engine          | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2         |        |                       |             | 5.5 |
| M                               |        |                       |             |     |
| mariadb-server-utils            | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2         |        |                       |             | 1.6 |
| M                               |        |                       |             |     |
| mariadb-tokudb-engine           | x86_64 | 3:10.2.38-1.amzn2.0.1 | amzn2extra- |     |
| lamp-mariadb10.2-php7.2         |        |                       |             | 833 |
| k                               |        |                       |             |     |
| mod_http2                       | x86_64 | 1.15.19-1.amzn2.0.1   | amzn2-core  | 149 |
| k                               |        |                       |             |     |
| perl-Compress-Raw-Bzip2         | x86_64 | 2.061-3.amzn2.0.2     | amzn2-core  | 32  |
| k                               |        |                       |             |     |
| perl-Compress-Raw-Zlib          | x86_64 | 1:2.061-4.amzn2.0.2   | amzn2-core  | 58  |
| k                               |        |                       |             |     |
| perl-DBD-MySQL                  | x86_64 | 4.023-6.amzn2         | amzn2-core  | 141 |
| k                               |        |                       |             |     |
| perl-DBI                        | x86_64 | 1.627-4.amzn2.0.2     | amzn2-core  | 804 |
| k                               |        |                       |             |     |
| perl-Data-Dumper                | x86_64 | 2.145-3.amzn2.0.2     | amzn2-core  | 48  |
| k                               |        |                       |             |     |
| perl-IO-Compress                | noarch | 2.061-2.amzn2         | amzn2-core  | 260 |
| k                               |        |                       |             |     |
| perl-Net-Daemon                 | noarch | 0.48-5.amzn2          | amzn2-core  | 51  |
| k                               |        |                       |             |     |

==

Install 2 Packages (+25 Dependent packages)

Total download size: 36 M

Installed size: 150 M

Downloading packages:

|          |                                                   |  |        |       |
|----------|---------------------------------------------------|--|--------|-------|
| (1/27):  | apr-1.7.0-9.amzn2.x86_64.rpm                      |  | 122 kB | 00:00 |
| (2/27):  | apr-util-1.6.1-5.amzn2.0.2.x86_64.rpm             |  | 99 kB  | 00:00 |
| (3/27):  | apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64.rpm         |  | 19 kB  | 00:00 |
| (4/27):  | generic-logos-httpd-18.0.0-4.amzn2.noarch.rpm     |  | 19 kB  | 00:00 |
| (5/27):  | bison-3.0.4-6.amzn2.0.2.x86_64.rpm                |  | 674 kB | 00:00 |
| (6/27):  | httpd-filesystem-2.4.51-1.amzn2.noarch.rpm        |  | 24 kB  | 00:00 |
| (7/27):  | httpd-tools-2.4.51-1.amzn2.x86_64.rpm             |  | 88 kB  | 00:00 |
| (8/27):  | httpd-2.4.51-1.amzn2.x86_64.rpm                   |  | 1.3 MB | 00:00 |
| (9/27):  | m4-1.4.16-10.amzn2.0.2.x86_64.rpm                 |  | 256 kB | 00:00 |
| (10/27): | mailcap-2.1.41-2.amzn2.noarch.rpm                 |  | 31 kB  | 00:00 |
| (11/27): | mariadb-cracklib-password-check-10.2.38-1.amzn2.0 |  | 37 kB  | 00:00 |
| (12/27): | mariadb-errmsg-10.2.38-1.amzn2.0.1.x86_64.rpm     |  | 222 kB | 00:00 |
| (13/27): | mariadb-gssapi-server-10.2.38-1.amzn2.0.1.x86_64. |  | 39 kB  | 00:00 |
| (14/27): | mariadb-backup-10.2.38-1.amzn2.0.1.x86_64.rpm     |  | 5.9 MB | 00:00 |
| (15/27): | mariadb-rocksdb-engine-10.2.38-1.amzn2.0.1.x86_64 |  | 5.5 MB | 00:00 |
| (16/27): | mariadb-server-utils-10.2.38-1.amzn2.0.1.x86_64.r |  | 1.6 MB | 00:00 |
| (17/27): | mariadb-tokudb-engine-10.2.38-1.amzn2.0.1.x86_64. |  | 833 kB | 00:00 |
| (18/27): | perl-Compress-Raw-Bzip2-2.061-3.amzn2.0.2.x86_64. |  | 32 kB  | 00:00 |
| (19/27): | perl-Compress-Raw-Zlib-2.061-4.amzn2.0.2.x86_64.r |  | 58 kB  | 00:00 |
| (20/27): | mod_http2-1.15.19-1.amzn2.0.1.x86_64.rpm          |  | 149 kB | 00:00 |
| (21/27): | perl-DBD-MySQL-4.023-6.amzn2.x86_64.rpm           |  | 141 kB | 00:00 |
| (22/27): | perl-Data-Dumper-2.145-3.amzn2.0.2.x86_64.rpm     |  | 48 kB  | 00:00 |
| (23/27): | perl-DBI-1.627-4.amzn2.0.2.x86_64.rpm             |  | 804 kB | 00:00 |
| (24/27): | perl-Net-Daemon-0.48-5.amzn2.noarch.rpm           |  | 51 kB  | 00:00 |
| (25/27): | perl-IO-Compress-2.061-2.amzn2.noarch.rpm         |  | 260 kB | 00:00 |
| (26/27): | perl-PlRPC-0.2020-14.amzn2.noarch.rpm             |  | 36 kB  | 00:00 |
| (27/27): | mariadb-server-10.2.38-1.amzn2.0.1.x86_64.rpm     |  | 17 MB  | 00:00 |

— — —

|       |         |  |       |       |
|-------|---------|--|-------|-------|
| Total | 21 MB/s |  | 36 MB | 00:01 |
|-------|---------|--|-------|-------|

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

```
Installing : apr-1.7.0-9.amzn2.x86_64
```

1/27

```
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
```

2/27

```
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64
```

3/27

```
Installing : perl-Data-Dumper-2.145-3.amzn2.0.2.x86_64
```

4/27

```
Installing : httpd-tools-2.4.51-1.amzn2.x86_64
```

5/27

Installing : perl-Net-Daemon-0.48-5.amzn2.noarch

6/27

Installing : m4-1.4.16-10.amzn2.0.2.x86\_64  
7/27  
Installing : bison-3.0.4-6.amzn2.0.2.x86\_64  
8/27  
Installing : httpd-filesystem-2.4.51-1.amzn2.noarch  
9/27  
Installing : perl-Compress-Raw-Bzip2-2.061-3.amzn2.0.2.x86\_64  
10/27  
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch  
11/27  
Installing : mailcap-2.1.41-2.amzn2.noarch  
12/27  
Installing : mod\_http2-1.15.19-1.amzn2.0.1.x86\_64  
13/27  
Installing : httpd-2.4.51-1.amzn2.x86\_64  
14/27  
Installing : 1:perl-Compress-Raw-Zlib-2.061-4.amzn2.0.2.x86\_64  
15/27  
Installing : perl-IO-Compress-2.061-2.amzn2.noarch  
16/27  
Installing : perl-PlRPC-0.2020-14.amzn2.noarch  
17/27  
Installing : perl-DBI-1.627-4.amzn2.0.2.x86\_64  
18/27  
Installing : perl-DBD-MySQL-4.023-6.amzn2.x86\_64  
19/27  
Installing : 3:mariadb-errmsg-10.2.38-1.amzn2.0.1.x86\_64  
20/27  
Installing : 3:mariadb-cracklib-password-check-10.2.38-1.amzn2.0.1.x86\_64  
21/27  
Installing : 3:mariadb-gssapi-server-10.2.38-1.amzn2.0.1.x86\_64  
22/27  
Installing : 3:mariadb-tokudb-engine-10.2.38-1.amzn2.0.1.x86\_64  
23/27  
Installing : 3:mariadb-server-utils-10.2.38-1.amzn2.0.1.x86\_64  
24/27  
Installing : 3:mariadb-rocksdb-engine-10.2.38-1.amzn2.0.1.x86\_64  
25/27  
Installing : 3:mariadb-backup-10.2.38-1.amzn2.0.1.x86\_64  
26/27  
Installing : 3:mariadb-server-10.2.38-1.amzn2.0.1.x86\_64  
27/27  
Verifying : 3:mariadb-errmsg-10.2.38-1.amzn2.0.1.x86\_64  
1/27  
Verifying : 1:perl-Compress-Raw-Zlib-2.061-4.amzn2.0.2.x86\_64  
2/27  
Verifying : mailcap-2.1.41-2.amzn2.noarch  
3/27  
Verifying : 3:mariadb-cracklib-password-check-10.2.38-1.amzn2.0.1.x86\_64  
4/27  
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch  
5/27  
Verifying : perl-Compress-Raw-Bzip2-2.061-3.amzn2.0.2.x86\_64  
6/27  
Verifying : perl-DBI-1.627-4.amzn2.0.2.x86\_64  
7/27

```

    Verifying : perl-PlRPC-0.2020-14.amzn2.noarch
8/27
    Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64
9/27
    Verifying : 3:mariadb-gssapi-server-10.2.38-1.amzn2.0.1.x86_64
10/27
    Verifying : httpd-2.4.51-1.amzn2.x86_64
11/27
    Verifying : 3:mariadb-tokudb-engine-10.2.38-1.amzn2.0.1.x86_64
12/27
    Verifying : perl-DBD-MySQL-4.023-6.amzn2.x86_64
13/27
    Verifying : 3:mariadb-server-utils-10.2.38-1.amzn2.0.1.x86_64
14/27
    Verifying : perl-Data-Dumper-2.145-3.amzn2.0.2.x86_64
15/27
    Verifying : httpd-tools-2.4.51-1.amzn2.x86_64
16/27
    Verifying : 3:mariadb-rocksdb-engine-10.2.38-1.amzn2.0.1.x86_64
17/27
    Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
18/27
    Verifying : 3:mariadb-server-10.2.38-1.amzn2.0.1.x86_64
19/27
    Verifying : httpd-filesystem-2.4.51-1.amzn2.noarch
20/27
    Verifying : bison-3.0.4-6.amzn2.0.2.x86_64
21/27
    Verifying : m4-1.4.16-10.amzn2.0.2.x86_64
22/27
    Verifying : apr-1.7.0-9.amzn2.x86_64
23/27
    Verifying : perl-IO-Compress-2.061-2.amzn2.noarch
24/27
    Verifying : perl-Net-Daemon-0.48-5.amzn2.noarch
25/27
    Verifying : 3:mariadb-backup-10.2.38-1.amzn2.0.1.x86_64
26/27
    Verifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64
27/27

```

#### Installed:

```

    httpd.x86_64 0:2.4.51-1.amzn2    mariadb-server.x86_64 3:10.2.38-1.amzn2.0.1

```

#### 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
    bison.x86_64 0:3.0.4-6.amzn2.0.2
    generic-logos-httpd.noarch 0:18.0.0-4.amzn2
    httpd-filesystem.noarch 0:2.4.51-1.amzn2
    httpd-tools.x86_64 0:2.4.51-1.amzn2
    m4.x86_64 0:1.4.16-10.amzn2.0.2
    mailcap.noarch 0:2.1.41-2.amzn2
    mariadb-backup.x86_64 3:10.2.38-1.amzn2.0.1
    mariadb-cracklib-password-check.x86_64 3:10.2.38-1.amzn2.0.1
    mariadb-errmsg.x86_64 3:10.2.38-1.amzn2.0.1

```



```

mariadb-gssapi-server.x86_64 3:10.2.38-1.amzn2.0.1
mariadb-rocksdb-engine.x86_64 3:10.2.38-1.amzn2.0.1
mariadb-server-utils.x86_64 3:10.2.38-1.amzn2.0.1
mariadb-tokudb-engine.x86_64 3:10.2.38-1.amzn2.0.1
mod_http2.x86_64 0:1.15.19-1.amzn2.0.1
perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.amzn2.0.2
perl-Compress-Raw-Zlib.x86_64 1:2.061-4.amzn2.0.2
perl-DBD-MySQL.x86_64 0:4.023-6.amzn2
perl-DBI.x86_64 0:1.627-4.amzn2.0.2
perl-Data-Dumper.x86_64 0:2.145-3.amzn2.0.2
perl-IO-Compress.noarch 0:2.061-2.amzn2
perl-Net-Daemon.noarch 0:0.48-5.amzn2
perl-PlRPC.noarch 0:0.2020-14.amzn2

```

Complete!

```
[ec2-user@ip-172-31-84-242 ~]$ yum info httpd mariadb-server
```

Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd

Installed Packages

```

Name           : httpd
Arch            : x86_64
Version        : 2.4.51
Release        : 1.amzn2
Size           : 4.1 M
Repo           : installed
From repo      : amzn2-core
Summary        : Apache HTTP Server
URL            : https://httpd.apache.org/
License        : ASL 2.0
Description    : The Apache HTTP Server is a powerful, efficient, and extensible
                  : web server.

```

```

Name           : mariadb-server
Arch            : x86_64
Epoch          : 3
Version        : 10.2.38
Release        : 1.amzn2.0.1
Size           : 85 M
Repo           : installed
From repo      : amzn2extra-lamp-mariadb10.2-php7.2
Summary        : The MariaDB server and related files
URL            : http://mariadb.org
License        : GPLv2 with exceptions and LGPLv2 and BSD
Description    : MariaDB is a multi-user, multi-threaded SQL database server. It
                  : is
                  : a client/server implementation consisting of a server daemon
                  : (mysqld) and many different client programs and libraries. This
                  : package contains the MariaDB server and some accompanying files
                  : and directories. MariaDB is a community developed branch of

```

MySQL.

```
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl start httpd
```

```
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl enable httpd
```

Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.

```
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl is-enabled http
```

Failed to get unit file state for http.service: No such file or directory

```
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl is-enabled httpd
```

```
enabled
[ec2-user@ip-172-31-84-242 ~]$ sudo usermod -a -G apache ec2-user
[ec2-user@ip-172-31-84-242 ~]$ exit
logout
Connection to 54.83.152.253 closed.
cchow@MacBook-Pro privateKey % ssh -i cchowtest_awsac_pkey.pem ec2-
user@54.83.152.253
Last login: Mon Dec 27 16:31:14 2021 from 114-46-121-191.dynamic-ip.hinet.net
```

```
  _|  _|_ )
 _| ( _| /  Amazon Linux 2 AMI
_| \_|_|_|
```

```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-84-242 ~]$ groups
ec2-user adm wheel apache systemd-journal
[ec2-user@ip-172-31-84-242 ~]$ sudo chown -R ec2-user:apache /var/www
[ec2-user@ip-172-31-84-242 ~]$ sudo chmod 2775 /var/www && find /var/www -
type d -exec sudo chmod 2775 {} \;
[ec2-user@ip-172-31-84-242 ~]$ find /var/www -type f -exec sudo chmod 0664 {}
\;
[ec2-user@ip-172-31-84-242 ~]$ echo "<?php phpinfo(); ?>" >
/var/www/html/phpinfo.php
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl start mariadb
[ec2-user@ip-172-31-84-242 ~]$ sudo mysql_secure_installation
```

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB  
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current  
password for the root user. If you've just installed MariaDB, and  
you haven't set the root password yet, the password will be blank,  
so you should just press enter here.

Enter current password for root (enter for none):  
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB  
root user without the proper authorisation.

Set root password? [Y/n] Y  
New password:  
Re-enter new password:  
Password updated successfully!  
Reloading privilege tables..  
... Success!

By default, a MariaDB installation has an anonymous user, allowing anyone  
to log into MariaDB without having to have a user account created for  
them. This is intended only for testing, and to make the installation  
go a bit smoother. You should remove them before moving into a  
production environment.

Remove anonymous users? [Y/n] Y  
... Success!

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.

```
Disallow root login remotely? [Y/n] Y
... Success!
```

By default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.

```
Remove test database and access to it? [Y/n] Y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!
```

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

```
Reload privilege tables now? [Y/n] Y
... Success!
```

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!

```
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl stop mariadb
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl enable mariadb
Created symlink from /etc/systemd/system/multi-
user.target.wants/mariadb.service to /usr/lib/systemd/system/mariadb.service.
[ec2-user@ip-172-31-84-242 ~]$ sudo systemctl start mariadb
[ec2-user@ip-172-31-84-242 ~]$ sudo yum install php-mbstring php-xml -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                               | 3.7 kB      00:00
Resolving Dependencies
--> Running transaction check
---> Package php-mbstring.x86_64 0:7.2.34-1.amzn2 will be installed
--> Processing Dependency: libonig.so.2()(64bit) for package: php-mbstring-
7.2.34-1.amzn2.x86_64
---> Package php-xml.x86_64 0:7.2.34-1.amzn2 will be installed
--> Processing Dependency: libxslt.so.1(LIBXML2_1.0.24) (64bit) for package:
php-xml-7.2.34-1.amzn2.x86_64
--> Processing Dependency: libxslt.so.1(LIBXML2_1.0.22) (64bit) for package:
php-xml-7.2.34-1.amzn2.x86_64
--> Processing Dependency: libxslt.so.1(LIBXML2_1.0.18) (64bit) for package:
php-xml-7.2.34-1.amzn2.x86_64
--> Processing Dependency: libxslt.so.1(LIBXML2_1.0.13) (64bit) for package:
php-xml-7.2.34-1.amzn2.x86_64
--> Processing Dependency: libxslt.so.1(LIBXML2_1.0.11) (64bit) for package:
php-xml-7.2.34-1.amzn2.x86_64
--> Processing Dependency: libxslt.so.1()(64bit) for package: php-xml-7.2.34-
1.amzn2.x86_64
--> Processing Dependency: libexslt.so.0()(64bit) for package: php-xml-
7.2.34-1.amzn2.x86_64
--> Running transaction check
```

---> Package libxslt.x86\_64 0:1.1.28-6.amzn2 will be installed  
---> Package oniguruma.x86\_64 0:5.9.6-1.amzn2.0.4 will be installed  
--> Finished Dependency Resolution

#### Dependencies Resolved

```
=====
```

| Package<br>Size              | Arch   | Version           | Repository        |     |
|------------------------------|--------|-------------------|-------------------|-----|
| =====                        |        |                   |                   |     |
| ===                          |        |                   |                   |     |
| Installing:                  |        |                   |                   |     |
| php-mbstring<br>k            | x86_64 | 7.2.34-1.amzn2    | amzn2extra-php7.2 | 501 |
| php-xml<br>k                 | x86_64 | 7.2.34-1.amzn2    | amzn2extra-php7.2 | 212 |
| Installing for dependencies: |        |                   |                   |     |
| libxslt<br>k                 | x86_64 | 1.1.28-6.amzn2    | amzn2-core        | 240 |
| oniguruma<br>k               | x86_64 | 5.9.6-1.amzn2.0.4 | amzn2-core        | 127 |

#### Transaction Summary

```
=====
```

===

Install 2 Packages (+2 Dependent packages)

Total download size: 1.1 M  
Installed size: 3.8 M  
Downloading packages:

|                                               |        |       |
|-----------------------------------------------|--------|-------|
| (1/4): libxslt-1.1.28-6.amzn2.x86_64.rpm      | 240 kB | 00:00 |
| (2/4): oniguruma-5.9.6-1.amzn2.0.4.x86_64.rpm | 127 kB | 00:00 |
| (3/4): php-mbstring-7.2.34-1.amzn2.x86_64.rpm | 501 kB | 00:00 |
| (4/4): php-xml-7.2.34-1.amzn2.x86_64.rpm      | 212 kB | 00:00 |

-----

---

Total 3.3 MB/s | 1.1 MB 00:00

Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction

Installing : libxslt-1.1.28-6.amzn2.x86\_64  
1/4

Installing : oniguruma-5.9.6-1.amzn2.0.4.x86\_64  
2/4

Installing : php-mbstring-7.2.34-1.amzn2.x86\_64  
3/4

Installing : php-xml-7.2.34-1.amzn2.x86\_64  
4/4

Verifying : php-mbstring-7.2.34-1.amzn2.x86\_64  
1/4

Verifying : php-xml-7.2.34-1.amzn2.x86\_64  
2/4

Verifying : oniguruma-5.9.6-1.amzn2.0.4.x86\_64  
3/4

Verifying : libxslt-1.1.28-6.amzn2.x86\_64  
4/4

Installed:

php-mbstring.x86\_64 0:7.2.34-1.amzn2      php-xml.x86\_64 0:7.2.34-1.amzn2

Dependency Installed:

libxslt.x86\_64 0:1.1.28-6.amzn2      oniguruma.x86\_64 0:5.9.6-1.amzn2.0.4

Complete!

[ec2-user@ip-172-31-84-242 ~]\$ sudo systemctl restart httpd

[ec2-user@ip-172-31-84-242 ~]\$ sudo systemctl restart php-fpm

[ec2-user@ip-172-31-84-242 ~]\$ cd /var/www/html

[ec2-user@ip-172-31-84-242 html]\$ wget

https://www.phpmyadmin.net/downloads/phpMyAdmin-latest-all-languages.tar.gz  
--2021-12-27 16:53:49-- https://www.phpmyadmin.net/downloads/phpMyAdmin-  
latest-all-languages.tar.gz

Resolving www.phpmyadmin.net (www.phpmyadmin.net)... 89.187.177.16,  
156.146.36.24, 195.181.169.8, ...

Connecting to www.phpmyadmin.net (www.phpmyadmin.net)|89.187.177.16|:443...  
connected.

HTTP request sent, awaiting response... 302 Found

Location: https://files.phpmyadmin.net/phpMyAdmin/5.1.1/phpMyAdmin-5.1.1-all-  
languages.tar.gz [following]

--2021-12-27 16:53:49--

https://files.phpmyadmin.net/phpMyAdmin/5.1.1/phpMyAdmin-5.1.1-all-  
languages.tar.gz

Resolving files.phpmyadmin.net (files.phpmyadmin.net)... 89.187.177.17,  
156.146.36.23, 195.181.169.5, ...

Connecting to files.phpmyadmin.net

(files.phpmyadmin.net)|89.187.177.17|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 13454066 (13M) [application/octet-stream]

Saving to: 'phpMyAdmin-latest-all-languages.tar.gz'

100%[=====>] 13,454,066 60.3MB/s in 0.2s

2021-12-27 16:53:49 (60.3 MB/s) - 'phpMyAdmin-latest-all-languages.tar.gz'  
saved [13454066/13454066]

[ec2-user@ip-172-31-84-242 html]\$ mkdir phpMyAdmin && tar -xzf phpMyAdmin-  
latest-all-languages.tar.gz -C phpMyAdmin --strip-components 1  
phpMyAdmin-5.1.1-all-languages/CONTRIBUTING.md

...