

# □ Rocky Linux 8

## □□ Apache +

## MariaDB + PHP

□ Rocky Linux 8 □□ Apache + MariaDB + PHP

- □□□□□
- □□ Apache □□
- □□ PHP 8.1 □
- □□ MariaDB 10.11 □
- □□ phpMyAdmin 5.2 □□



Rocky Linux 8

Rocky Linux 8

MariaDB 10.x



CentOS 7

Galera Cluster

Rocky Linux 8

yum repo

MariaDB 10

MariaDB 10

Apache 2.4



Rocky Linux 8

Linux

httpd 2.4

2.4.37

CentOS 7

2.4.6

2.4.6

Rocky 2.4.37

# PHP 8



Rocky Linux 8

PHP 7.2

PHP 8

2021 1

7.4

2022 11

PHP 7.4

7.2

2021 1

7.4

2022 11

8.0

8.1

phpMyAdmin 5.2

# phpMyAdmin

Rocky Linux 8

tarball

phpmyadmin

RPM

)

RPM

Repo



# Apache



## 1

```
$ sudo yum install httpd mod_ssl
```

SSL

```
0:30:31 2022 05 31 ( ) 15 17 06
=====
=====
=====
=====
      100% 100% 100% 100%
=====
=====
=====
=====
:
httpd x86_64 2.4.37-
47.module+el8.6.0+823+f143cee1.1 appstream 1.4 M
mod_ssl x86_64 1:2.4.37-
47.module+el8.6.0+823+f143cee1.1 appstream 136 k
:
apr x86_64 1.6.3-12.el8
appstream 128 k
apr-util x86_64 1.6.1-6.el8.1
appstream 104 k
httpd-filesystem noarch 2.4.37-
47.module+el8.6.0+823+f143cee1.1 appstream 40 k
httpd-tools x86_64 2.4.37-
47.module+el8.6.0+823+f143cee1.1 appstream 107 k
mod_http2 x86_64 1.15.7-
5.module+el8.6.0+823+f143cee1 appstream 153 k
```

rocky-logos-httpd noarch 85.0-4.el8 baseos 22 k  
sscg x86\_64 2.3.3-14.el8  
appstream 48 k  
[ ] :  
apr-util-bdb x86\_64 1.6.1-6.el8.1  
appstream 23 k  
apr-util-openssl x86\_64 1.6.1-6.el8.1  
appstream 26 k  
[ ] :  
httpd 2.4

[ ]  
=====

=====

=====

=====

[ ] 11 [ ]

[ ] 2.2 M  
[ ] 5.7 M  
[ ] [y/N] y

[ ] y[ ]

[ ]  
(1/11): apr-util-bdb-1.6.1-6.el8.1.x86\_64.rpm 67 kB/s | 23 kB 00:00  
(2/11): apr-util-openssl-1.6.1-6.el8.1.x86\_64.rpm 207 kB/s | 26 kB 00:00  
(3/11): apr-util-1.6.1-6.el8.1.x86\_64.rpm 186 kB/s | 104 kB 00:00  
(4/11): apr-1.6.3-12.el8.x86\_64.rpm 215 kB/s | 128 kB 00:00  
(5/11): httpd-filesystem-2.4.37-47.module+el8.6.0+823+f143cee1.1.noarch.rpm

819 kB/s | 1.4 MB 00:01

2/11

apr-util-openssl-1.6.1-  
6.el8.1.x86\_64  
apr-util-1.6.1-  
6.el8.1.x86\_64  
4/11  
apr-util-1.6.1-  
6.el8.1.x86\_64  
4/11  
httpd-filesystem-2.4.37-  
47.module+el8.6.0+823+f143cee1.1.noarch  
5/11  
httpd-filesystem-2.4.37-  
47.module+el8.6.0+823+f143cee1.1.noarch  
5/11  
httpd-tools-2.4.37-  
47.module+el8.6.0+823+f143cee1.1.x86\_64  
6/11  
rocky-logos-httpd-85.0-  
4.el8.noarch  
mod\_http2-1.15.7-  
5.module+el8.6.0+823+f143cee1.x86\_64  
8/11  
httpd-2.4.37-  
47.module+el8.6.0+823+f143cee1.1.x86\_64  
9/11  
httpd-2.4.37-  
47.module+el8.6.0+823+f143cee1.1.x86\_64  
9/11  
sscg-2.3.3-  
14.el8.x86\_64  
10/11  
mod\_ssl-1:2.4.37-  
47.module+el8.6.0+823+f143cee1.1.x86\_64  
11/11  
httpd-2.4.37-  
47.module+el8.6.0+823+f143cee1.1.x86\_64  
11/11  
mod\_ssl-1:2.4.37-  
47.module+el8.6.0+823+f143cee1.1.x86\_64  
11/11

3/11

7/11

<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: apr-1.6.3-</div> <div>12.el8.x86_64</div> <div>1/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: apr-util-1.6.1-</div> <div>6.el8.1.x86_64</div> <div>2/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: apr-util-bdb-1.6.1-</div> <div>6.el8.1.x86_64</div> <div>3/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: apr-util-openssl-1.6.1-</div> <div>6.el8.1.x86_64</div> <div>4/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: httpd-2.4.37-</div> <div>47.module+el8.6.0+823+f143cee1.1.x86_64</div> <div>5/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: httpd-filesystem-2.4.37-</div> <div>47.module+el8.6.0+823+f143cee1.1.noarch</div> <div>6/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: httpd-tools-2.4.37-</div> <div>47.module+el8.6.0+823+f143cee1.1.x86_64</div> <div>7/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: mod_http2-1.15.7-</div> <div>5.module+el8.6.0+823+f143cee1.x86_64</div> <div>8/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: mod_ssl-1:2.4.37-</div> <div>47.module+el8.6.0+823+f143cee1.1.x86_64</div> <div>9/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: sscg-2.3.3-</div> <div>14.el8.x86_64</div> <div>10/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>: rocky-logos-httpd-85.0-</div> <div>4.el8.noarch</div> <div>11/11</div>			
<div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div>:</div> <div>apr-1.6.3-12.el8.x86_64</div> <div>apr-util-1.6.1-6.el8.1.x86_64</div> <div>apr-util-bdb-1.6.1-6.el8.1.x86_64</div> <div>apr-util-openssl-1.6.1-6.el8.1.x86_64</div> <div>httpd-2.4.37-47.module+el8.6.0+823+f143cee1.1.x86_64</div> <div>httpd-filesystem-2.4.37-47.module+el8.6.0+823+f143cee1.1.noarch</div> <div>httpd-tools-2.4.37-47.module+el8.6.0+823+f143cee1.1.x86_64</div> <div>mod_http2-1.15.7-5.module+el8.6.0+823+f143cee1.x86_64</div> <div>mod_ssl-1:2.4.37-47.module+el8.6.0+823+f143cee1.1.x86_64</div>			





## 2 apache

 apache 

```
$ sudo systemctl restart httpd
$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service →
/usr/lib/systemd/system/httpd.service.
```

## 3 apache

 netstat  (  80  443 port  ) 

```
$ sudo netstat -tlnp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      644/sshd
tcp6       0      0 :::80                   :::*                    LISTEN      2992/httpd
tcp6       0      0 :::22                   :::*                    LISTEN      644/sshd
tcp6       0      0 :::443                  :::*                    LISTEN      2992/httpd
```

 systemctl 

```
$ systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2022-05-31 15:50:51 CST; 2min 11s ago
     Docs: man:httpd.service(8)
  Main PID: 2992 (httpd)
    Status: "Running, listening on: port 443, port 80"
   Tasks: 213 (limit: 11374)
  Memory: 26.5M
    CGroup: /system.slice/httpd.service
            └─2992 /usr/sbin/httpd -DFOREGROUND
            └─2993 /usr/sbin/httpd -DFOREGROUND
            └─2994 /usr/sbin/httpd -DFOREGROUND
            └─2995 /usr/sbin/httpd -DFOREGROUND
```

└─2996 /usr/sbin/httpd -DFOREGROUND

5 31 15:50:51 rockylinux.ossii.com.tw systemd[1]: Starting The Apache HTTP Server...

5 31 15:50:51 rockylinux.ossii.com.tw systemd[1]: Started The Apache HTTP Server.

5 31 15:50:51 rockylinux.ossii.com.tw httpd[2992]: Server configured, listening on: port 443, port 80

■■■■■

apache server ■■■■■■



# PHP 8.1

## 1. EPEL 8 remi repo

PHP 8.1  
epel-release

EPEL 8 remi

PHP

```
$ sudo yum install epel-release
```

```
2:23:29 2022 05 31 ( ) 13 39 24
```

```
=====
```

```
noarch 8-13.el8
```

```
=====
```

```
 :  
epel-release noarch 8-13.el8  
extras 23 k
```

```
=====
```

```
1
```

```
23 k
```

```
35 k
```

```
[y/N] y
```

```
y
```

■■■■■

epel-release-8-

13.el8.noarch.rpm

81

kB/s | 23 kB 00:00

■■

29 kB/s | 23 kB 00:00

■■■■■■■

■■■■■■■■■

■■■■■■■

■■■■■■■■■

■■■■■

■■

:

1/1

■■■■

: epel-release-8-

13.el8.noarch

1/1

■■■■■

: epel-release-8-

13.el8.noarch

1/1

■■

: epel-release-8-

13.el8.noarch

1/1

■■■ :

epel-release-8-13.el8.noarch

■■■

■■■■■

remi ■■■■

\$ sudo yum install http://rpms.remirepo.net/enterprise/remi-release-8.rpm

■■■■■■■■■

0:50:52 ■■■■■■

2022 05 31 ( 15 14 36

remi-release-

8.rpm

45 kB/s

| 29 kB 00:00

■■■■■■■

=====

```
=====
=====
=====
[ ] [ ] [ ] [ ]
[ ]
=====
=====
=====
=====
[ ] :
remi-release          noarch          8.6-1.el8.remi
@commandline          29 k

[ ]
=====
=====
=====
=====
[ ] 1 [ ]

[ ] 29 k
[ ] 24 k
[ ] [y/N] y
```

[ ] y[ ]

```
[ ] 0:50:52 [ ] 2022 05 31 ( ) 15 14 36
remi-release-
8.rpm 45 kB/s
| 29 kB 00:00
[ ]
=====
=====
=====
=====
[ ] [ ] [ ] [ ]
[ ]
=====
=====
=====
```

=====

noarch :  
remi-release 8.6-1.el8.remi  
@commandline 29 k

noarch

=====

=====

noarch 1 noarch

noarch 29 k  
noarch 24 k  
noarch [y/N] y

noarch

noarch

noarch

noarch

noarch

noarch

noarch

:

1/1

noarch : remi-release-8.6-1.el8.remi.noarch

1/1

noarch : remi-release-8.6-1.el8.remi.noarch

1/1

noarch :  
remi-release-8.6-1.el8.remi.noarch

noarch

## 2 noarch

## PHP noarch

noarch

PHP 7.2 noarch

```
$ sudo yum remove php php-fpm php* -y
```

[illegible]

--	--	--	--	--	--	--	--	--

=====

=====

=====

=====

=====

=====

=====

=====

11

php	x86_64	7.2.24-	
1.module+el8.4.0+413+c9202dda		@appstream	4.8 M
php-cli	x86_64	7.2.24-	
1.module+el8.4.0+413+c9202dda		@appstream	9.6 M
php-common	x86_64	7.2.24-	
1.module+el8.4.0+413+c9202dda		@appstream	6.1 M
php-fpm	x86_64	7.2.24-	
1.module+el8.4.0+413+c9202dda		@appstream	4.9 M

```

nginx-filesystem          noarch          1:1.14.1-
9.module+el8.4.0+542+81547229 @appstream

```

--	--	--	--	--	--

=====

=====

=====

=====

☐ ☐      5   ☐ ☐

25 M

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--

□□□□

□□

:

1/1

□□□□ : php-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

1/1

□□ : php-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

1/5

□□□□ : php-fpm-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

2/5

□□ : php-fpm-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

2/5

□□□□ : php-fpm-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

2/5

□□ : php-cli-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

3/5

□□ : nginx-filesystem-1:1.14.1-

9.module+el8.4.0+542+81547229.noarch

4/5

□□□□ : nginx-filesystem-1:1.14.1-

9.module+el8.4.0+542+81547229.noarch

4/5

□□ : php-common-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

5/5

□□□□ : php-common-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

5/5

□□ : nginx-filesystem-1:1.14.1-

9.module+el8.4.0+542+81547229.noarch

1/5

□□ : php-7.2.24-

1.module+el8.4.0+413+c9202dda.x86\_64

2/5



4/5

```

[[[ :
  nginx-filesystem-1:1.14.1-9.module+el8.4.0+542+81547229.noarch      php-7.2.24-
1.module+el8.4.0+413+c9202dda.x86_64      php-cli-7.2.24-1.module+el8.4.0+413+c9202dda.x86_64
  php-common-7.2.24-1.module+el8.4.0+413+c9202dda.x86_64          php-fpm-7.2.24-
1.module+el8.4.0+413+c9202dda.x86_64

```

**3** ☐ ☐ **PHP** ☐ ☐ ☐ ☐ ☐ ☐

[illegible]

=====

=====

=====

=====

1

23 k

[y/N] y

y

epel-release-8-15.el8.noarch.rpm 197 kB/s | 23 kB 00:00

24 kB/s | 23 kB 00:00

Extra Packages for Enterprise Linux 8 - x86\_64 1.6 MB/s | 1.6 kB 00:00

GPG 0x2F86D6A1

"Fedora EPEL (8) <epel@fedoraproject.org>"

94E2 79EB 8D8F 25B2 1810 ADF1 21EA 45AB 2F86 D6A1

/etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-8

[y/N] y

repo y

1/1

: epel-release-8-

```
15.el8.noarch
1/1
[ ] : epel-release-8-
15.el8.noarch
1/2
[ ] : epel-release-8-
13.el8.noarch
2/2
[ ] : epel-release-8-
13.el8.noarch
2/2
[ ] : epel-release-8-
15.el8.noarch
1/2
[ ] : epel-release-8-
13.el8.noarch
2/2

[ ] :
    epel-release-8-15.el8.noarch

[ ]
```

[ ] PHP [ ] repo [ ]

```
$ sudo yum module list php
```

[ ] Remi [ ]

[ ]1:02:16 [ ]2022 05 31 ( ) 15 17 06

Rocky Linux 8 - AppStream			
Name	Stream	Profiles	Summary
php	7.2 [d][e]	common [d], devel, minimal	
PHP scripting language			
php	7.3	common [d], devel, minimal	PHP
scripting language			
php	7.4	common [d], devel, minimal	PHP
scripting language			
php	8.0	common [d], devel, minimal	PHP
scripting language			

Remi's Modular repository for Enterprise Linux 8 - x86\_64

Name	Stream	Profiles	Summary
php	remi-7.2	common [d], devel, minimal	
PHP scripting language			
php	remi-7.3	common [d], devel, minimal	
PHP scripting language			
php	remi-7.4	common [d], devel, minimal	
PHP scripting language			
php	remi-8.0	common [d], devel, minimal	
PHP scripting language			
php	remi-8.1	common [d], devel, minimal	
PHP scripting language			

[\[d\]](#) [\[e\]](#) [\[x\]](#) [\[i\]](#)

PHP

```
$ sudo yum module reset php -y
[REDACTED] 1:10:55 [REDACTED] 2022 05 31 ( ) 15 17 06
[REDACTED]
=====
=====
=====
=====
[REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED]
=====
=====
=====
=====
[REDACTED] :
php
[REDACTED]
=====
=====
=====
=====
```

```
root@rocky:~#
```

```
root@rocky:~# yum install php php-devel php8.1 php8.1-devel
```

```
$ sudo yum module enable php:remi-8.1 -y
```

```
root@rocky:~# 1:11:28 root@rocky:~# 2022 05 31 (Sat) 15 17 06
```

```
root@rocky:~#
```

```
=====
=====
=====
=====
```

```
root@rocky:~# yum install php php-devel php8.1 php8.1-devel
root@rocky:~#
```

```
=====
=====
=====
=====
```

```
root@rocky:~# :
php remi-8.1
```

```
root@rocky:~#
```

```
=====
=====
=====
=====
```

```
root@rocky:~#
```

```
root@rocky:~# yum install php php-devel php8.1 php8.1-devel
```

```
$ sudo yum module list php
```

```
root@rocky:~# 1:12:52 root@rocky:~# 2022 05 31 (Sat) 15 17 06
```

```
Rocky Linux 8 - AppStream
```

Name	Stream	Profiles
Summary		
php	7.2 [d]	common [d], devel, minimal
PHP scripting language		
php	7.3	common [d], devel, minimal
PHP scripting language		
php	7.4	common [d], devel, minimal

PHP scripting language

php 8.0 common [d], devel, minimal

PHP scripting language

Remi's Modular repository for Enterprise Linux 8 - x86\_64

Name	Stream	Profiles
------	--------	----------

Summary

php	remi-7.2	common [d], devel, minimal
-----	----------	----------------------------

PHP scripting language

php	remi-7.3	common [d], devel, minimal
-----	----------	----------------------------

PHP scripting language

php	remi-7.4	common [d], devel, minimal
-----	----------	----------------------------

PHP scripting language

php	remi-8.0	common [d], devel, minimal
-----	----------	----------------------------

PHP scripting language

php	remi-8.1 [e]	common [d], devel, minimal
-----	--------------	----------------------------

PHP scripting language

☐ ☐ [d]☐ [e]☐ [x]☐ [i]

8.1 ☐☐☐☐☐☐☐ e☐☐

## 4 ☐ **PHP** ☐

☐☐☐☐

```
$ sudo yum install php-cli php-fpm php-curl php-mysqlnd php-gd php-opcache php-zip php-intl php-common  
php-bcmath php-imap php-imagick php-xmlrpc php-json php-readline php-memcached php-redis php-mbstring  
php-apcu php-xml php-dom php-redis php-memcached php-memcache php-process php-sodium php-bcmath  
php-gmp -y
```

## 5 ☐☐☐ **apahce** ☐☐

☐☐☐☐☐☐ apache server ☐☐☐☐☐☐

```
$ sudo systemctl restart httpd
```

# 📄 MariaDB 10.11 📄

## 1 MariaDB 10.11 📄📄

📄 MariaDB 📄📄📄📄📄  
📄📄📄📄📄📄  
📄📄📄📄📄📄

10.11 📄 LTS(Long Term Support) 📄📄📄  
Rocky Linux 8 📄📄📄📄  
10 .3 📄📄📄  
MariaDB 10.11

2028 📄 2  
MariaDB 10.11

10.11 (LTS)

1 year and 8 months ago  
(16 Feb 2023)

Ends in 3 years and 4 months  
(16 Feb 2028)

[10.11.9](#)  
(08 Aug 2024)

## 2 📄 MariaDB 📄📄📄

📄📄 MariaDB 📄 repo 📄📄📄📄📄

```
$ sudo yum module list mariadb
```

📄📄📄📄📄📄📄

📄📄📄📄📄 0:07:54 📄📄📄📄📄 2024📄 10📄 17📄 (📄📄 ) 14📄 59📄 33📄  
Rocky Linux 8 - AppStream

Name	Stream	Profiles	Summary
mariadb	10.3 [d]	client, galera, server [d]	MariaDB Module
mariadb	10.5	client, galera, server [d]	MariaDB Module
mariadb	10.11	client, galera, server [d]	MariaDB Module

📄📄📄 [d]📄📄📄 [e]📄📄📄 [x]📄📄📄 [i]

📄📄 MariaDB 📄📄📄📄📄

```
$ sudo yum module reset mariadb -y  
  
📄📄📄📄📄 0:22:23 📄📄📄📄📄 2024📄 10📄 17📄 (📄📄 ) 14📄 59📄 33📄  
  
📄📄📄📄  
  
📄📄📄  
  
📄📄
```

📄📄📄📄 MariaDB 📄📄 10.11 📄📄📄📄📄

```
$ sudo yum module enable mariadb:10.11 -y
[Progress] 0:24:31 [Progress] 2024 10 17 ( ) 14 59 33
[Progress]
=====
=====
[Progress] [Progress] [Progress] [Progress] [Progress]
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=====
[Progress] :
mariadb 10.11

[Progress]
=====
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[Progress]
```

[Progress] MariaDB [Progress] repo [Progress]

```
$ sudo yum module list mariadb
[Progress] 0:25:55 [Progress] 2024 10 17 ( ) 14 59 33
Rocky Linux 8 - AppStream
Name Stream Profiles Summary
mariadb 10.3 [d] client, galera, server [d] MariaDB Module
mariadb 10.5 client, galera, server [d] MariaDB Module
mariadb 10.11 [e] client, galera, server [d] MariaDB Module

[d][Progress] [e][Progress] [x][Progress] [i]
```

10.11 [Progress] e[Progress]

3 [Progress] MariaDB 10.11 [Progress]

[Progress]

```
sudo yum install mariadb mariadb-server php-mysql -y
[Progress] 0:30:01 [Progress] 2024 10 17 ( ) 14 59 33
[Progress]
=====
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[Progress] [Progress] [Progress] [Progress] [Progress]
```



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□□ :

mariadb	x86_64	3:10.11.6-1.module+el8.10.0+1674+fa55eae9	appstream	7.3 M
mariadb-server	x86_64	3:10.11.6-1.module+el8.10.0+1674+fa55eae9	appstream	20 M

□□□□□ :

mariadb-common	x86_64	3:10.11.6-1.module+el8.10.0+1674+fa55eae9	appstream	68 k
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mariadb-connector-c	x86_64	3.1.11-2.el8_3	appstream	199 k
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mariadb-connector-c-config	noarch	3.1.11-2.el8_3	appstream	14 k
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mariadb-errmsg	x86_64	3:10.11.6-1.module+el8.10.0+1674+fa55eae9	appstream	339 k
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mysql-selinux	noarch	1.0.10-1.el8	appstream	37 k
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perl-Carp	noarch	1.42-396.el8	baseos	29 k
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perl-DBD-MySQL	x86_64	4.046-3.module+el8.9.0+1501+450eec3b	appstream	155 k
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perl-DBI	x86_64	1.641-4.module+el8.9.0+1495+f278a004	appstream	739 k
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perl-Data-Dumper	x86_64	2.167-399.el8	baseos	57 k
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perl-Digest	noarch	1.17-395.el8	appstream	26 k
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perl-Digest-MD5	x86_64	2.55-396.el8	appstream	36 k
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perl-Encode	x86_64	4:2.97-3.el8	baseos	1.5 M
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perl-Errno	x86_64	1.28-422.el8	baseos	75 k
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perl-Exporter	noarch	5.72-396.el8	baseos	33 k
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perl-File-Path	noarch	2.15-2.el8	baseos	37 k
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perl-File-Temp	noarch	0.230.600-1.el8	baseos	62 k
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perl-Getopt-Long	noarch	1:2.50-4.el8	baseos	62 k
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perl-HTTP-Tiny	noarch	0.074-3.el8	baseos	58 k
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perl-IO	x86_64	1.38-422.el8	baseos	141 k
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perl-IO-Socket-IP	noarch	0.39-5.el8	appstream	46 k
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perl-IO-Socket-SSL	noarch	2.066-4.module+el8.9.0+1517+e71a7a62	appstream	297 k
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perl-MIME-Base64	x86_64	3.15-396.el8	baseos	30 k
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perl-Math-BigInt	noarch	1:1.9998.11-7.el8	baseos	194 k
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perl-Math-Complex	noarch	1.59-422.el8	baseos	108 k
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perl-Mozilla-CA	noarch	20160104-7.module+el8.9.0+1521+0101edce	appstream	14 k
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perl-Net-SSLeay	x86_64	1.88-2.module+el8.9.0+1517+e71a7a62	appstream	378 k
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perl-PathTools	x86_64	3.74-1.el8	baseos	89 k
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perl-Pod-Escapes	noarch	1:1.07-395.el8	baseos	19 k
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perl-Pod-Perldoc	noarch	3.28-396.el8	baseos	85 k
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perl-Pod-Simple	noarch	1:3.35-395.el8	baseos	212 k
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perl-Pod-Usage	noarch	4:1.69-395.el8	baseos	33 k
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perl-Scalar-List-Utils	x86_64	3:1.49-2.el8	baseos	67 k
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perl-Socket	x86_64	4:2.027-3.el8	baseos	58 k
perl-Storable	x86_64	1:3.11-3.el8	baseos	97 k
perl-Term-ANSIColor	noarch	4.06-396.el8	baseos	45 k
perl-Term-Cap	noarch	1.17-395.el8	baseos	22 k
perl-Text-ParseWords	noarch	3.30-395.el8	baseos	17 k
perl-Text-Tabs+Wrap	noarch	2013.0523-395.el8	baseos	23 k
perl-Time-Local	noarch	1:1.280-1.el8	baseos	32 k
perl-URI	noarch	1.73-3.el8	appstream	115 k
perl-Unicode-Normalize	x86_64	1.25-396.el8	baseos	81 k
perl-constant	noarch	1.33-396.el8	baseos	24 k
perl-interpreter	x86_64	4:5.26.3-422.el8	baseos	6.3 M
perl-libnet	noarch	3.11-3.el8	appstream	120 k
perl-libs	x86_64	4:5.26.3-422.el8	baseos	1.6 M
perl-macros	x86_64	4:5.26.3-422.el8	baseos	71 k
perl-parent	noarch	1:0.237-1.el8	baseos	19 k
perl-podlators	noarch	4.11-1.el8	baseos	117 k
perl-threads	x86_64	1:2.21-2.el8	baseos	60 k
perl-threads-shared	x86_64	1.58-2.el8	baseos	47 k

[REDACTED] :				
mariadb-backup	x86_64	3:10.11.6-1.module+el8.10.0+1674+fa55eae9	appstream	7.3 M
mariadb-gssapi-server	x86_64	3:10.11.6-1.module+el8.10.0+1674+fa55eae9	appstream	56 k
mariadb-server-utils	x86_64	3:10.11.6-1.module+el8.10.0+1674+fa55eae9	appstream	1.4 M

[REDACTED] :	
perl	5.26
perl-DBD-MySQL	4.046
perl-DBI	1.641
perl-IO-Socket-SSL	2.066
perl-libwww-perl	6.34

[REDACTED]  
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[REDACTED] 55 [REDACTED]

[REDACTED] 50 M  
[REDACTED] 243 M  
[REDACTED]

(1/55): mariadb-common-10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64.rpm	188 kB/s   68 kB	00:00
(2/55): mariadb-connector-c-3.1.11-2.el8_3.x86_64.rpm	854 kB/s   199 kB	00:00
(3/55): mariadb-connector-c-config-3.1.11-2.el8_3.noarch.rpm	56 kB/s   14 kB	00:00
(4/55): mariadb-errmsg-10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64.rpm	793 kB/s   339 kB	00:00
(5/55): mariadb-10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64.rpm	4.3 MB/s   7.3 MB	00:01
(6/55): mariadb-gssapi-server-10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64.rpm	127 kB/s   56 kB	00:00
(7/55): mariadb-backup-10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64.rpm	3.7 MB/s   7.3 MB	00:01
(8/55): mysql-selinux-1.0.10-1.el8.noarch.rpm	374 kB/s   37 kB	00:00
(9/55): perl-DBD-MySQL-4.046-3.module+el8.9.0+1501+450eec3b.x86_64.rpm	1.4 MB/s   155 kB	00:00
(10/55): perl-DBI-1.641-4.module+el8.9.0+1495+f278a004.x86_64.rpm	2.1 MB/s   739 kB	00:00
(11/55): perl-Digest-1.17-395.el8.noarch.rpm	318 kB/s   26 kB	00:00
(12/55): mariadb-server-utils-10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64.rpm	1.5 MB/s   1.4 MB	00:00
(13/55): perl-Digest-MD5-2.55-396.el8.x86_64.rpm	395 kB/s   36 kB	00:00
(14/55): perl-IO-Socket-IP-0.39-5.el8.noarch.rpm	446 kB/s   46 kB	00:00
(15/55): perl-IO-Socket-SSL-2.066-4.module+el8.9.0+1517+e71a7a62.noarch.rpm	2.2 MB/s   297 kB	00:00
(16/55): perl-Mozilla-CA-20160104-7.module+el8.9.0+1521+0101edce.noarch.rpm	143 kB/s   14 kB	00:00
(17/55): perl-Net-SSLeay-1.88-2.module+el8.9.0+1517+e71a7a62.x86_64.rpm	2.7 MB/s   378 kB	00:00
(18/55): perl-URI-1.73-3.el8.noarch.rpm	927 kB/s   115 kB	00:00
(19/55): perl-libnet-3.11-3.el8.noarch.rpm	1.2 MB/s   120 kB	00:00
(20/55): perl-Carp-1.42-396.el8.noarch.rpm	16 kB/s   29 kB	00:01
(21/55): mariadb-server-10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64.rpm	6.1 MB/s   20 MB	00:03
(22/55): perl-Data-Dumper-2.167-399.el8.x86_64.rpm	28 kB/s   57 kB	00:02
(23/55): perl-Exporter-5.72-396.el8.noarch.rpm	34 kB/s   33 kB	00:00
(24/55): perl-Errno-1.28-422.el8.x86_64.rpm	71 kB/s   75 kB	00:01
(25/55): perl-Encode-2.97-3.el8.x86_64.rpm	1.0 MB/s   1.5 MB	00:01
(26/55): perl-File-Temp-0.230.600-1.el8.noarch.rpm	108 kB/s   62 kB	00:00
(27/55): perl-Getopt-Long-2.50-4.el8.noarch.rpm	118 kB/s   62 kB	00:00
(28/55): perl-File-Path-2.15-2.el8.noarch.rpm	43 kB/s   37 kB	00:00
(29/55): perl-IO-1.38-422.el8.x86_64.rpm	237 kB/s   141 kB	00:00
(30/55): perl-MIME-Base64-3.15-396.el8.x86_64.rpm	62 kB/s   30 kB	00:00

(31/55): perl-HTTP-Tiny-0.074-3.el8.noarch.rpm	59 kB/s   58 kB	00:00
(32/55): perl-Math-Complex-1.59-422.el8.noarch.rpm	212 kB/s   108 kB	00:00
(33/55): perl-Pod-Escapes-1.07-395.el8.noarch.rpm	44 kB/s   19 kB	00:00
(34/55): perl-PathTools-3.74-1.el8.x86_64.rpm	101 kB/s   89 kB	00:00
(35/55): perl-Math-BigInt-1.9998.11-7.el8.noarch.rpm	130 kB/s   194 kB	00:01
(36/55): perl-Pod-Perldoc-3.28-396.el8.noarch.rpm	131 kB/s   85 kB	00:00
(37/55): perl-Pod-Simple-3.35-395.el8.noarch.rpm	339 kB/s   212 kB	00:00
(38/55): perl-Pod-Usage-1.69-395.el8.noarch.rpm	60 kB/s   33 kB	00:00
(39/55): perl-Socket-2.027-3.el8.x86_64.rpm	85 kB/s   58 kB	00:00
(40/55): perl-Storable-3.11-3.el8.x86_64.rpm	171 kB/s   97 kB	00:00
(41/55): perl-Scalar-List-Utils-1.49-2.el8.x86_64.rpm	53 kB/s   67 kB	00:01
(42/55): perl-Term-ANSIColor-4.06-396.el8.noarch.rpm	80 kB/s   45 kB	00:00
(43/55): perl-Term-Cap-1.17-395.el8.noarch.rpm	40 kB/s   22 kB	00:00
(44/55): perl-Text-ParseWords-3.30-395.el8.noarch.rpm	36 kB/s   17 kB	00:00
(45/55): perl-Text-Tabs+Wrap-2013.0523-395.el8.noarch.rpm	49 kB/s   23 kB	00:00
(46/55): perl-Time-Local-1.280-1.el8.noarch.rpm	64 kB/s   32 kB	00:00
(47/55): perl-Unicode-Normalize-1.25-396.el8.x86_64.rpm	193 kB/s   81 kB	00:00
(48/55): perl-constant-1.33-396.el8.noarch.rpm	58 kB/s   24 kB	00:00
(49/55): perl-macros-5.26.3-422.el8.x86_64.rpm	121 kB/s   71 kB	00:00
(50/55): perl-libs-5.26.3-422.el8.x86_64.rpm	1.1 MB/s   1.6 MB	00:01
(51/55): perl-interpreter-5.26.3-422.el8.x86_64.rpm	3.6 MB/s   6.3 MB	00:01
(52/55): perl-parent-0.237-1.el8.noarch.rpm	21 kB/s   19 kB	00:00
(53/55): perl-podlators-4.11-1.el8.noarch.rpm	173 kB/s   117 kB	00:00
(54/55): perl-threads-shared-1.58-2.el8.x86_64.rpm	83 kB/s   47 kB	00:00
(55/55): perl-threads-2.21-2.el8.x86_64.rpm	70 kB/s   60 kB	00:00

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[ ] 3.4 MB/s | 50 MB 00:14

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[ ] : 1/1

[ ] : mariadb-connector-c-config-3.1.11-2.el8\_3.noarch 1/55

[ ] : mariadb-common-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64 2/55

[ ] : mariadb-errmsg-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64 3/55

[ ] : perl-Digest-1.17-395.el8.noarch 4/55

[ ] : perl-Digest-MD5-2.55-396.el8.x86\_64 5/55

[ ] : perl-Data-Dumper-2.167-399.el8.x86\_64 6/55

[ ] : perl-libnet-3.11-3.el8.noarch 7/55

perl-URI-1.73-3.el8.noarch	8/55	
perl-Pod-Escapes-1:1.07-395.el8.noarch	9/55	
perl-Net-SSLeay-1.88-2.module+el8.9.0+1517+e71a7a62.x86_64		10/55
perl-Mozilla-CA-20160104-7.module+el8.9.0+1521+0101edce.noarch		11/55
perl-IO-Socket-IP-0.39-5.el8.noarch	12/55	
perl-Time-Local-1:1.280-1.el8.noarch	13/55	
perl-IO-Socket-SSL-2.066-4.module+el8.9.0+1517+e71a7a62.noarch		14/55
perl-Term-ANSIColor-4.06-396.el8.noarch	15/55	
perl-Term-Cap-1.17-395.el8.noarch	16/55	
perl-File-Temp-0.230.600-1.el8.noarch	17/55	
perl-Pod-Simple-1:3.35-395.el8.noarch	18/55	
perl-HTTP-Tiny-0.074-3.el8.noarch	19/55	
perl-podlators-4.11-1.el8.noarch	20/55	
perl-Pod-Perldoc-3.28-396.el8.noarch	21/55	
perl-Text-ParseWords-3.30-395.el8.noarch	22/55	
perl-Pod-Usage-4:1.69-395.el8.noarch	23/55	
perl-MIME-Base64-3.15-396.el8.x86_64	24/55	
perl-Storable-1:3.11-3.el8.x86_64	25/55	
perl-Getopt-Long-1:2.50-4.el8.noarch	26/55	
perl-Errno-1.28-422.el8.x86_64	27/55	
perl-Socket-4:2.027-3.el8.x86_64	28/55	
perl-Encode-4:2.97-3.el8.x86_64	29/55	
perl-Carp-1.42-396.el8.noarch	30/55	
perl-Exporter-5.72-396.el8.noarch	31/55	
perl-libs-4:5.26.3-422.el8.x86_64	32/55	
perl-Scalar-List-Utills-3:1.49-2.el8.x86_64	33/55	
perl-parent-1:0.237-1.el8.noarch	34/55	
perl-macros-4:5.26.3-422.el8.x86_64	35/55	
perl-Text-Tabs+Wrap-2013.0523-395.el8.noarch	36/55	
perl-Unicode-Normalize-1.25-396.el8.x86_64	37/55	
perl-File-Path-2.15-2.el8.noarch	38/55	
perl-IO-1.38-422.el8.x86_64	39/55	
perl-PathTools-3.74-1.el8.x86_64	40/55	
perl-constant-1.33-396.el8.noarch	41/55	
perl-threads-1:2.21-2.el8.x86_64	42/55	
perl-threads-shared-1.58-2.el8.x86_64	43/55	
perl-interpreter-4:5.26.3-422.el8.x86_64	44/55	
perl-Math-Complex-1.59-422.el8.noarch	45/55	
perl-Math-BigInt-1:1.9998.11-7.el8.noarch	46/55	
perl-DBI-1.641-4.module+el8.9.0+1495+f278a004.x86_64		47/55

mysql-selinux-1.0.10-1.el8.noarch	48/55
mysql-selinux-1.0.10-1.el8.noarch	48/55
mysql-selinux-1.0.10-1.el8.noarch	48/55

libsemanage.semanage\_direct\_install\_info: Overriding mysql module at lower priority 100 with module at priority 200.

perl-DBD-MySQL-4.046-3.module+el8.9.0+1501+450eec3b.x86_64	49/55
mariadb-connector-c-3.1.11-2.el8_3.x86_64	50/55
mariadb-backup-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	51/55
mariadb-gssapi-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	52/55
mariadb-server-utils-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	53/55
mariadb-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	54/55
mariadb-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	54/55
mariadb-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	54/55
mariadb-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	55/55
mysql-selinux-1.0.10-1.el8.noarch	55/55
mariadb-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	55/55
mariadb-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	1/55
mariadb-backup-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	2/55
mariadb-common-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	3/55
mariadb-connector-c-3.1.11-2.el8_3.x86_64	4/55
mariadb-connector-c-config-3.1.11-2.el8_3.noarch	5/55
mariadb-errmsg-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	6/55
mariadb-gssapi-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	7/55
mariadb-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	8/55
mariadb-server-utils-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86_64	9/55
mysql-selinux-1.0.10-1.el8.noarch	10/55
perl-DBD-MySQL-4.046-3.module+el8.9.0+1501+450eec3b.x86_64	11/55
perl-DBI-1.641-4.module+el8.9.0+1495+f278a004.x86_64	12/55
perl-Digest-1.17-395.el8.noarch	13/55
perl-Digest-MD5-2.55-396.el8.x86_64	14/55
perl-IO-Socket-IP-0.39-5.el8.noarch	15/55
perl-IO-Socket-SSL-2.066-4.module+el8.9.0+1517+e71a7a62.noarch	16/55
perl-Mozilla-CA-20160104-7.module+el8.9.0+1521+0101edce.noarch	17/55
perl-Net-SSLeay-1.88-2.module+el8.9.0+1517+e71a7a62.x86_64	18/55
perl-URI-1.73-3.el8.noarch	19/55
perl-libnet-3.11-3.el8.noarch	20/55
perl-Carp-1.42-396.el8.noarch	21/55
perl-Data-Dumper-2.167-399.el8.x86_64	22/55

perl-Encode-4:2.97-3.el8.x86_64	23/55
perl-Errno-1.28-422.el8.x86_64	24/55
perl-Exporter-5.72-396.el8.noarch	25/55
perl-File-Path-2.15-2.el8.noarch	26/55
perl-File-Temp-0.230.600-1.el8.noarch	27/55
perl-Getopt-Long-1:2.50-4.el8.noarch	28/55
perl-HTTP-Tiny-0.074-3.el8.noarch	29/55
perl-IO-1.38-422.el8.x86_64	30/55
perl-MIME-Base64-3.15-396.el8.x86_64	31/55
perl-Math-BigInt-1:1.9998.11-7.el8.noarch	32/55
perl-Math-Complex-1.59-422.el8.noarch	33/55
perl-PathTools-3.74-1.el8.x86_64	34/55
perl-Pod-Escapes-1:1.07-395.el8.noarch	35/55
perl-Pod-Perldoc-3.28-396.el8.noarch	36/55
perl-Pod-Simple-1:3.35-395.el8.noarch	37/55
perl-Pod-Usage-4:1.69-395.el8.noarch	38/55
perl-Scalar-List-Utills-3:1.49-2.el8.x86_64	39/55
perl-Socket-4:2.027-3.el8.x86_64	40/55
perl-Storable-1:3.11-3.el8.x86_64	41/55
perl-Term-ANSIColor-4.06-396.el8.noarch	42/55
perl-Term-Cap-1.17-395.el8.noarch	43/55
perl-Text-ParseWords-3.30-395.el8.noarch	44/55
perl-Text-Tabs+Wrap-2013.0523-395.el8.noarch	45/55
perl-Time-Local-1:1.280-1.el8.noarch	46/55
perl-Unicode-Normalize-1.25-396.el8.x86_64	47/55
perl-constant-1.33-396.el8.noarch	48/55
perl-interpreter-4:5.26.3-422.el8.x86_64	49/55
perl-libs-4:5.26.3-422.el8.x86_64	50/55
perl-macros-4:5.26.3-422.el8.x86_64	51/55
perl-parent-1:0.237-1.el8.noarch	52/55
perl-podlators-4.11-1.el8.noarch	53/55
perl-threads-1:2.21-2.el8.x86_64	54/55
perl-threads-shared-1.58-2.el8.x86_64	55/55

mariadb :

mariadb-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64  
mariadb-backup-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64  
mariadb-common-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64  
mariadb-connector-c-3.1.11-2.el8\_3.x86\_64  
mariadb-connector-c-config-3.1.11-2.el8\_3.noarch

mariadb-errmsg-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64  
mariadb-gssapi-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64  
mariadb-server-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64  
mariadb-server-utils-3:10.11.6-1.module+el8.10.0+1674+fa55eae9.x86\_64  
mysql-selinux-1.0.10-1.el8.noarch  
perl-Carp-1.42-396.el8.noarch  
perl-DBD-MySQL-4.046-3.module+el8.9.0+1501+450eec3b.x86\_64  
perl-DBI-1.641-4.module+el8.9.0+1495+f278a004.x86\_64  
perl-Data-Dumper-2.167-399.el8.x86\_64  
perl-Digest-1.17-395.el8.noarch  
perl-Digest-MD5-2.55-396.el8.x86\_64  
perl-Encode-4:2.97-3.el8.x86\_64  
perl-Errno-1.28-422.el8.x86\_64  
perl-Exporter-5.72-396.el8.noarch  
perl-File-Path-2.15-2.el8.noarch  
perl-File-Temp-0.230.600-1.el8.noarch  
perl-Getopt-Long-1:2.50-4.el8.noarch  
perl-HTTP-Tiny-0.074-3.el8.noarch  
perl-IO-1.38-422.el8.x86\_64  
perl-IO-Socket-IP-0.39-5.el8.noarch  
perl-IO-Socket-SSL-2.066-4.module+el8.9.0+1517+e71a7a62.noarch  
perl-MIME-Base64-3.15-396.el8.x86\_64  
perl-Math-BigInt-1:1.9998.11-7.el8.noarch  
perl-Math-Complex-1.59-422.el8.noarch  
perl-Mozilla-CA-20160104-7.module+el8.9.0+1521+0101edce.noarch  
perl-Net-SSLeay-1.88-2.module+el8.9.0+1517+e71a7a62.x86\_64  
perl-PathTools-3.74-1.el8.x86\_64  
perl-Pod-Escapes-1:1.07-395.el8.noarch  
perl-Pod-Perldoc-3.28-396.el8.noarch  
perl-Pod-Simple-1:3.35-395.el8.noarch  
perl-Pod-Usage-4:1.69-395.el8.noarch  
perl-Scalar-List-Utils-3:1.49-2.el8.x86\_64  
perl-Socket-4:2.027-3.el8.x86\_64  
perl-Storable-1:3.11-3.el8.x86\_64  
perl-Term-ANSIColor-4.06-396.el8.noarch  
perl-Term-Cap-1.17-395.el8.noarch  
perl-Text-ParseWords-3.30-395.el8.noarch  
perl-Text-Tabs+Wrap-2013.0523-395.el8.noarch  
perl-Time-Local-1:1.280-1.el8.noarch  
perl-URI-1.73-3.el8.noarch



```
perl-Unicode-Normalize-1.25-396.el8.x86_64
perl-constant-1.33-396.el8.noarch
perl-interpreter-4:5.26.3-422.el8.x86_64
perl-libnet-3.11-3.el8.noarch
perl-libs-4:5.26.3-422.el8.x86_64
perl-macros-4:5.26.3-422.el8.x86_64
perl-parent-1:0.237-1.el8.noarch
perl-podlators-4.11-1.el8.noarch
perl-threads-1:2.21-2.el8.x86_64
perl-threads-shared-1.58-2.el8.x86_64
```

```
□□
```

```
□□□□
```

## 4 □□ MariaDB □□□□□

```
□□□□□□□□
```

```
$ sudo systemctl restart mariadb
$ sudo systemctl enable mariadb
Created symlink /etc/systemd/system/mysql.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/mysqld.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service →
/usr/lib/systemd/system/mariadb.service.
```

## 5 □□□ MariaDB □□□□

```
□□□□□□□□
```

```
$ sudo mysql_secure_installation
```

```
□□□□□□□□□□□□□□□□
```

```
root □□□□□□□□□□□□□□
```

Enter

```
□□□□
```

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): Enter

root  Y

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!

anonymous users  Y

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]

... Success!

root  Y

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]

... Success!

Y

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]

- Dropping test database...

... Success!

- Removing privileges on test database...

... Success!

Reload Y

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!

MariaDB

## 6 MariaDB (UTF8mb4)

/etc/my.conf.d/

```
sudo vim /etc/my.cnf.d/default-character.cnf
```

```
## [client]
default-character-set = utf8mb4

[mysqld]
character-set-server = utf8mb4
collation-server = utf8mb4_unicode_ci
```

## 7 MariaDB

```
$ sudo systemctl restart mariadb
```

## 8 MariaDB

netstat ( 3306 port )

```
$ sudo netstat -tlnp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address      Foreign Address    State       PID/Program name
tcp      0      0 0.0.0.0:3306        0.0.0.0:*          LISTEN      12169/mysqld
tcp      0      0 0.0.0.0:22         0.0.0.0:*          LISTEN      608/sshd
tcp6     0      0 :::3306            :::*               LISTEN      12169/mysqld
tcp6     0      0 :::80              :::*               LISTEN      6998/httpd
tcp6     0      0 :::22              :::*               LISTEN      608/sshd
```

systemctl

```
$ sudo systemctl status mariadb
● mariadb.service - MariaDB 10.11 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2024-10-17 15:53:01 CST; 9s ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
  Process: 12181 ExecStartPost=/usr/libexec/mysql-check-upgrade (code=exited, status=0/SUCCESS)
  Process: 12131 ExecStartPre=/usr/libexec/mysql-prepare-db-dir mariadb.service (code=exited, status=0/SUCCESS)
  Process: 12105 ExecStartPre=/usr/libexec/mysql-check-socket (code=exited, status=0/SUCCESS)
 Main PID: 12169 (mysqld)
    Status: "Taking your SQL requests now..."
     Tasks: 12 (limit: 11167)
  Memory: 176.7M
   CGroup: /system.slice/mariadb.service
           └─12169 /usr/libexec/mysqld --basedir=/usr

10 17 15:53:00 ossiideo.ossii.com.tw systemd[1]: mariadb.service: Succeeded.
10 17 15:53:00 ossiideo.ossii.com.tw systemd[1]: Stopped MariaDB 10.11 database server.
10 17 15:53:00 ossiideo.ossii.com.tw systemd[1]: Starting MariaDB 10.11 database server...
10 17 15:53:01 ossiideo.ossii.com.tw mysql-prepare-db-dir[12131]: Database MariaDB is probably initialized in /var>
10 17 15:53:01 ossiideo.ossii.com.tw mysql-prepare-db-dir[12131]: If this is not the case, make sure the
```

```
/var/lib/>
```

```
10 17 15:53:01 ossiidemo.ossii.com.tw systemd[1]: Started MariaDB 10.11 database server.
```

```
lines 1-21/21 (END)
```

[ ] phpMyAdmin 5.2

--	--	--	--	--

5.2.0

7

**1**

phpMyAdmin 5.2.0 all-languages



## Bringing MySQL to the web

 Download 5.2.0

 Try demo

 Donate

## Download

Many operating systems already include a phpMyAdmin package and will automatically keep it updated, however these versions are sometimes slightly outdated and therefore may be missing the latest features. Additionally, the configuration process varies widely by package and may not adhere to the official phpMyAdmin documentation. That being said, it is usually the quickest and easiest way of keeping an updated installation. Please contact your OS vendor for more information. Some additional information is also available [in our documentation](#). If you just want to try phpMyAdmin in a virtual machine, you might want to check the [available software appliances which provide phpMyAdmin](#).

If you do not find a suitable package or wish to install your own phpMyAdmin, you can download one of the following kits. Please note that each version has requirements for the minimum PHP and MySQL versions.

Since July 2015 all phpMyAdmin releases are cryptographically signed by the releasing developer. You should verify that the signature matches the archive you have downloaded. Verification instructions are placed in our documentation in the [Verifying phpMyAdmin releases](#) chapter.

phpMyAdmin 5.2.0

Released 2022-05-11, see [release notes](#) for details.

Future version compatible with PHP 7.2 and newer and MySQL/MariaDB 5.5 and newer.

File	Size	Verification
<a href="#">phpMyAdmin-5.2.0-all-languages.zip</a>	13.5 MB	<a href="#">[PGP]</a> <a href="#">[SHA256]</a>
<a href="#">phpMyAdmin-5.2.0-all-languages.tar.gz</a>	11.9 MB	<a href="#">[PGP]</a> <a href="#">[SHA256]</a>
<a href="#">phpMyAdmin-5.2.0-all-languages.tar.xz</a>	6.8 MB	<a href="#">[PGP]</a> <a href="#">[SHA256]</a>
<a href="#">phpMyAdmin-5.2.0-english.tar.gz</a>	7.4 MB	<a href="#">[PGP]</a> <a href="#">[SHA256]</a>

**2**

 phpMyAdmin[illegible]

```
$ export VER="5.2.0"
```

--	--	--	--	--	--	--

```
$ cd /tmp
$ curl -o phpMyAdmin-${VER}-all-languages.tar.gz
https://files.phpmyadmin.net/phpMyAdmin/${VER}/phpMyAdmin-${VER}-all-languages.tar.gz
```

### 3 phpMyAdmin

```
$ tar zxvf phpMyAdmin-${VER}-all-languages.tar.gz
```

**4**

```
$ rm phpMyAdmin-*-languages.tar.gz
$ sudo mv phpMyAdmin-* /usr/share/phpMyAdmin
```

## 5 ☐ ☐ ☐ ☐ ☐ phpMyAdmin ☐ ☐ ☐

```
$ sudo mkdir -p /var/lib/phpmyadmin/tmp
$ sudo chown -R apache:apache /var/lib/phpmyadmin
```

## 6 ☐ ☐ phpMyAdmin ☐ ☐ ☐ ☐ ☐

```
$ sudo cp /usr/share/phpMyAdmin/config.sample.inc.php /usr/share/phpMyAdmin/config.inc.php
```

 dnf 

7 

--	--	--	--	--	--	--	--

□□ openssl □□□□□□ 32 □□□□□□□□□□

```
$ openssl rand -hex 16
```

[illegible]

```
$ sudo vim /usr/share/phpMyAdmin/config.inc.php
```

```
$ sudo vim /etc/phpMyAdmin/config.inc.php
```

```
$cfg['blowfish_secret'] = '        32          ';  
$cfg['TempDir'] = '/var/lib/phpmyadmin/tmp';
```

```
        dnf          
```

```
$cfg['blowfish_secret'] = '        32          ';  
$cfg['TempDir'] = '/var/lib/phpMyAdmin/temp';
```

```
        
```

## 8 apache

```
  vim      apache  phpMyAdmin      (      dnf          )      
```

```
$ sudo vim /etc/httpd/conf.d/phpMyAdmin.conf
```

```
      (      )      
```

```
# Apache configuration for phpMyAdmin  
Alias /phpMyAdmin /usr/share/phpMyAdmin/  
Alias /phpmyadmin /usr/share/phpMyAdmin/  
  
<Directory /usr/share/phpMyAdmin/>  
  AddDefaultCharset UTF-8  
  <IfModule mod_authz_core.c>  
    # Apache 2.4  
    Require all granted  
  </IfModule>  
</Directory>  
<Directory /usr/share/phpMyAdmin/libraries/>  
  Require all denied  
</Directory>  
<Directory /usr/share/phpMyAdmin/templates/>  
  Require all denied  
</Directory>  
<Directory /usr/share/phpMyAdmin/setup/lib/>  
  Require all denied  
</Directory>  
<Directory /usr/share/phpMyAdmin/setup/frames/>  
  Require all denied  
</Directory>
```



```
$ sudo apachectl configtest
Syntax OK
```

□□□□      apache   □□□□□

```
$ sudo systemctl restart httpd
```

## 9 SELinux

SELinux (enforcing) apache phpmyadmin

```
$ sudo semanage fcontext -a -t httpd_sys_content_t "/usr/share/phpmyadmin(/.*)?"
[REDACTED]      semanage [REDACTED]      polycoreutils-python-utils [REDACTED]
$ sudo yum install polycoreutils-python-utils -y
$ sudo firewall-cmd --add-service=http --permanent
```

## 10 phpMyAdmin Web

http://yourip/phpmyadmin




 MariaDB Root 



## 11 步驟

在 phpMyAdmin 的設定檔中，將 IP 地址改為  
localhost，並將 apache 的設定檔改為

IP

```
sudo vim /etc/httpd/conf.d/phpmyadmin.conf
```

將 IP 地址改為 IP 地址

```
<IfModule mod_authz_core.c>
# Apache 2.4
Require ip 10.0.0.5 192.168.0.0/24
</IfModule>
```

在 terminal 中，輸入以下指令，重新啟動 httpd

```
$ sudo systemctl restart httpd
```

在 terminal 中，輸入以下指令，重新啟動 httpd

# Forbidden

You don't have permission to access this resource.

