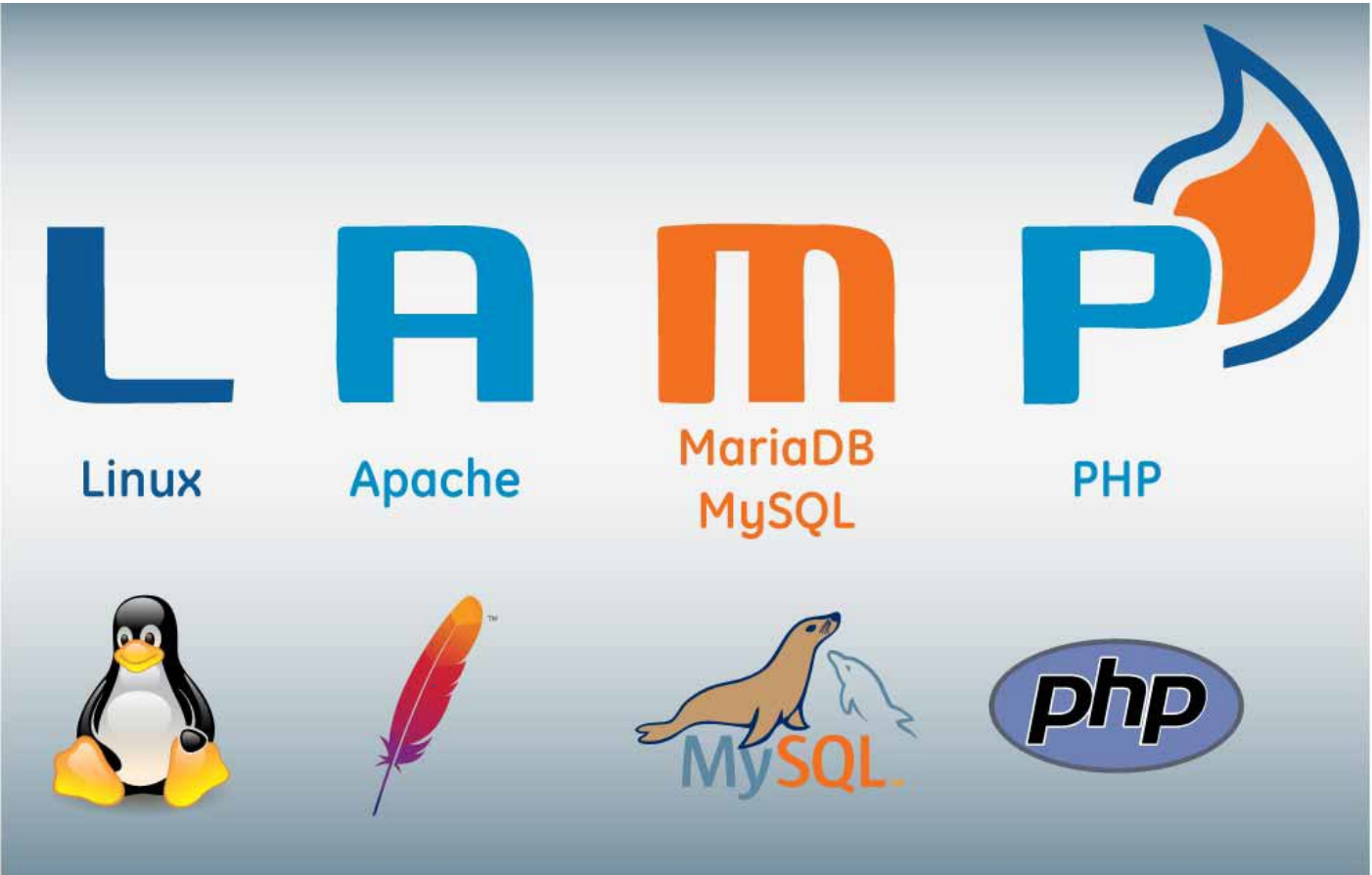
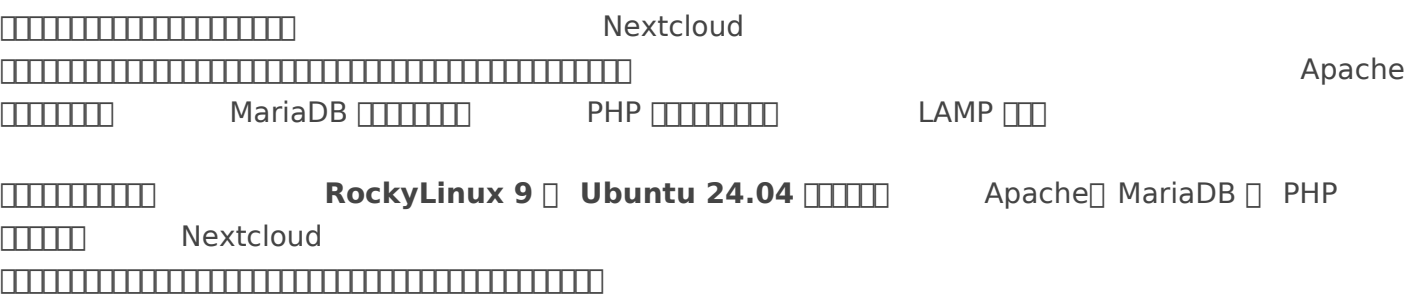


# ☐☐ Apache + MariaDB + PHP(RockyLinux 9 ☐ Ubuntu Server 24.04)



☐☐☐☐ Apache ☐☐☐

- RockyLinux 9

■■■■■■■■

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

■■■ SSL ■■■■■■■■■■

Last metadata expiration check: 2:55:53 ago on Wed May 14 12:14:46 2025.  
Dependencies resolved.  
=====

Package	Architecture	Version	Repository	Size
---------	--------------	---------	------------	------

=====

Installing:

httpd	x86_64	2.4.62-1.el9_5.2	appstream	45 k
mod_ssl	x86_64	1:2.4.62-1.el9_5.2	appstream	109 k

Installing dependencies:

apr	x86_64	1.7.0-12.el9_3	appstream	122 k
apr-util	x86_64	1.6.1-23.el9	appstream	94 k
apr-util-bdb	x86_64	1.6.1-23.el9	appstream	12 k
httpd-core	x86_64	2.4.62-1.el9_5.2	appstream	1.4 M
httpd-filesystem	noarch	2.4.62-1.el9_5.2	appstream	12 k
httpd-tools	x86_64	2.4.62-1.el9_5.2	appstream	79 k
mailcap	noarch	2.1.49-5.el9	baseos	32 k
rocky-logos-httpd	noarch	90.15-2.el9	appstream	24 k
sscg	x86_64	3.0.0-7.el9	appstream	45 k

Installing weak dependencies:

apr-util-openssl	x86_64	1.6.1-23.el9	appstream	14 k
mod_http2	x86_64	2.0.26-2.el9_4.1	appstream	163 k
mod_lua	x86_64	2.4.62-1.el9_5.2	appstream	59 k

Transaction Summary  
=====

Install 14 Packages

Total download size: 2.2 M  
Installed size: 6.5 M  
Is this ok [y/N]:

■■■ y ■■■ Enter ■■■■■■■■■■■■■■■■■■■■

Apache ■■■■■■■■■■

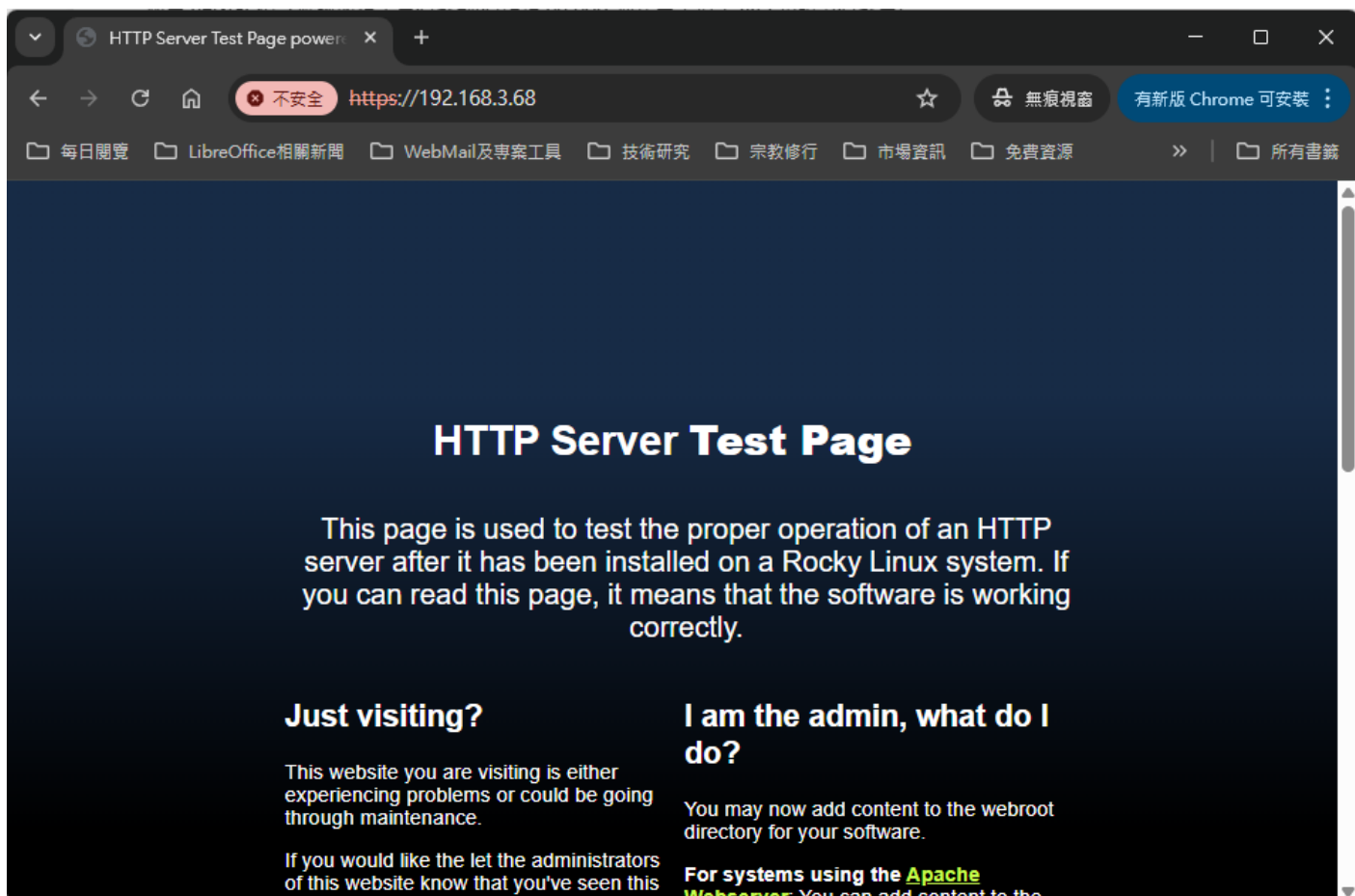
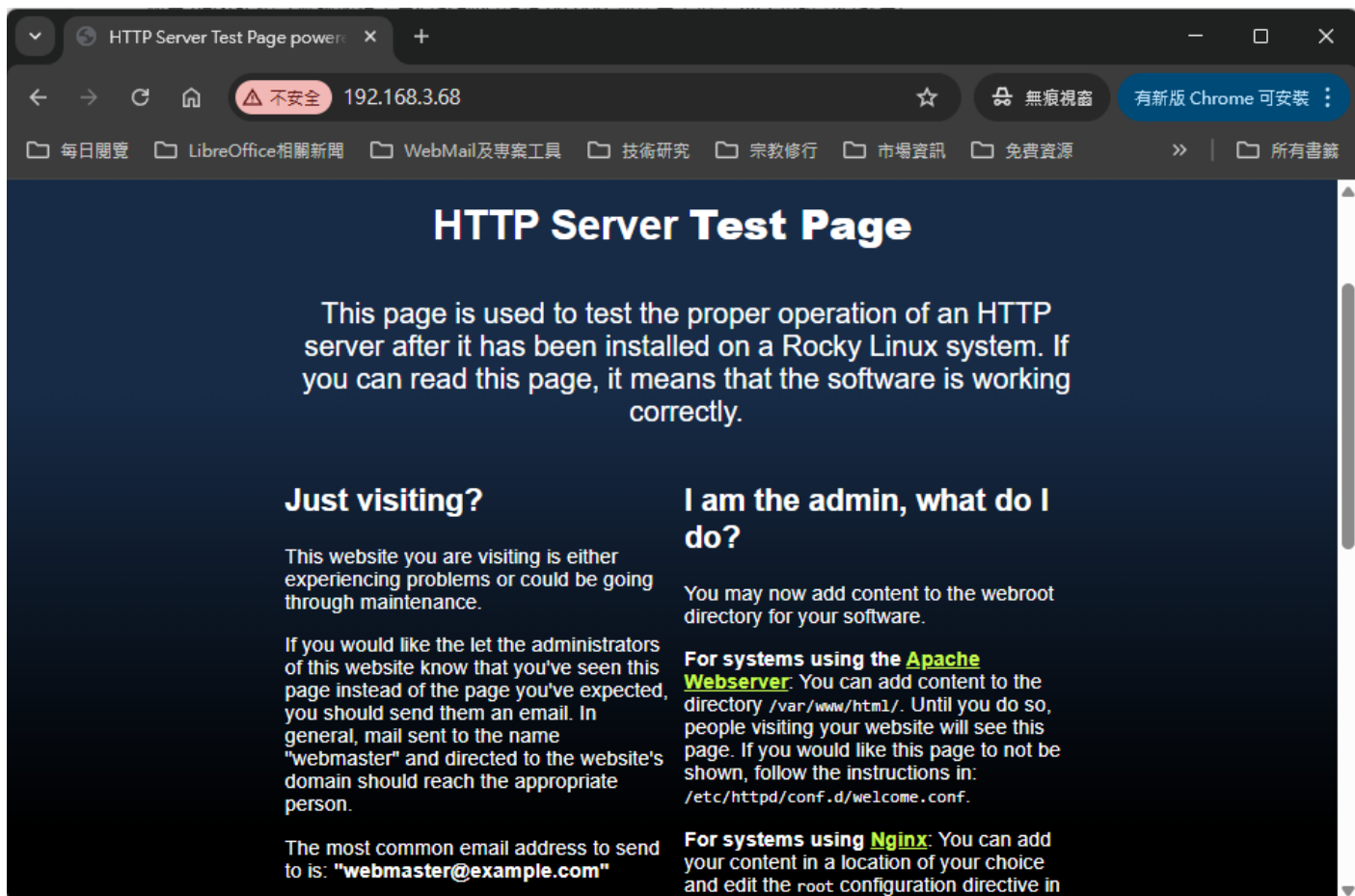
```
$ sudo systemctl restart httpd
[ossii@nextcloud ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service →
/usr/lib/systemd/system/httpd.service.
```

❏ systemctl ❏❏❏❏❏❏❏❏❏❏❏❏

```
$ sudo systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Wed 2025-05-14 15:12:50 CST; 52s ago
     Docs: man:httpd.service(8)
 Main PID: 1410 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec:  0 B/sec"
   Tasks: 177 (limit: 11112)
  Memory: 28.7M
     CPU: 92ms
   CGroup: /system.slice/httpd.service
           └─1410 /usr/sbin/httpd -DFOREGROUND
           └─1411 /usr/sbin/httpd -DFOREGROUND
           └─1412 /usr/sbin/httpd -DFOREGROUND
           └─1413 /usr/sbin/httpd -DFOREGROUND
           └─1414 /usr/sbin/httpd -DFOREGROUND

May 14 15:12:50 nextcloud.ossii.com.tw systemd[1]: Starting The Apache HTTP Server...
May 14 15:12:50 nextcloud.ossii.com.tw systemd[1]: Started The Apache HTTP Server.
May 14 15:12:50 nextcloud.ossii.com.tw httpd[1410]: Server configured, listening on: port 443, port 80
[ossii@nextcloud ~]$
```

❏❏❏❏❏❏ http ❏ https ❏❏❏❏❏❏



■■■■■■■

apache server (RockyLinux 9)■■■■■■■■■

- **Ubuntu Server 24.04**



```
$ sudo apt -y install apache2 apache2-utils
```



Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

apache2-bin apache2-data libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert

Suggested packages:

apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser

The following NEW packages will be installed:

apache2 apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap

libaprutil1t64

liblua5.4-0 ssl-cert

0 upgraded, 10 newly installed, 0 to remove and 1 not upgraded.

Need to get 2,084 kB of archives.

After this operation, 8,094 kB of additional disk space will be used.

Do you want to continue? [Y/n]

Y  Enter

[illegible]

 Apache  SSL  RedHat / CentOS  apache

RedHat / CentOS

`httpd` [ ]      `Ubuntu Server` [ ]      `a2emod`



apache

[illegible]

--	--

```
$ sudo a2enmod ssl
```

Considering dependency mime for ssl:

Module mime already enabled

Considering dependency socache\_shmcb for ssl:

Enabling module socache shmcb.

Enabling module ssl.

See `/usr/share/doc/apache2/README.Debian.gz` on how to configure SSL and create self-signed certificates.

To activate the new configuration, you need to run:

```
systemctl restart apache2
```

## 📁📁📁📁 SSL 📁📁📁

```
$ sudo a2ensite default-ssl.conf
```

## 📁📁📁📁📁 Apache 📁📁📁

```
$ sudo systemctl restart apache2
```

📁📁 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	127.0.0.54:53	0.0.0.0:*	LISTEN	565/systemd-resolve
tcp	0	0	127.0.0.53:53	0.0.0.0:*	LISTEN	565/systemd-resolve
tcp	0	0	127.0.0.1:6010	0.0.0.0:*	LISTEN	1005/sshd: ossii@pt
tcp6	0	0	:::1:6010	:::*	LISTEN	1005/sshd: ossii@pt
tcp6	0	0	:::443	:::*	LISTEN	1994/apache2
tcp6	0	0	:::22	:::*	LISTEN	1/init
tcp6	0	0	:::80	:::*	LISTEN	1994/apache2

📁📁 systemctl 📁📁📁📁📁📁📁📁📁📁📁

```
$ sudo systemctl status apache2
```

### ● apache2.service - The Apache HTTP Server

Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)

Active: active (running) since Wed 2025-05-14 15:18:33 CST; 6min ago

Docs: <https://httpd.apache.org/docs/2.4/>

Main PID: 1669 (apache2)

Tasks: 55 (limit: 2271)

Memory: 5.2M (peak: 5.4M)

CPU: 45ms

CGroup: /system.slice/apache2.service

└─1669 /usr/sbin/apache2 -k start

└─1671 /usr/sbin/apache2 -k start

└─1672 /usr/sbin/apache2 -k start

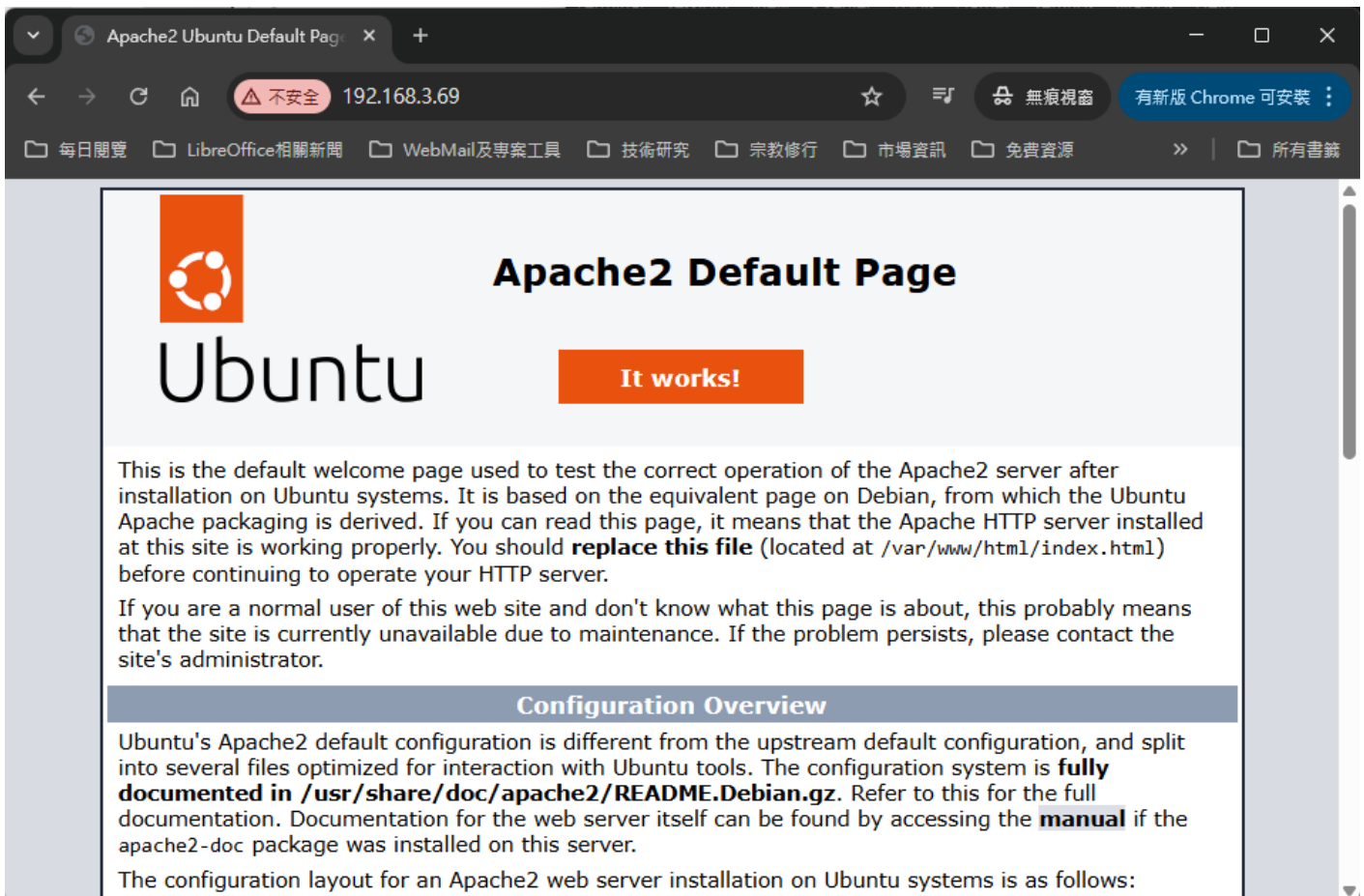
May 14 15:18:33 ubuntu-nextcloud systemd[1]: Starting apache2.service - The Apache HTTP Server...

May 14 15:18:33 ubuntu-nextcloud apachectl[1668]: AH00558: apache2: Could not reliably determine the server's fully qualified d>

May 14 15:18:33 ubuntu-nextcloud systemd[1]: Started apache2.service - The Apache HTTP Server.

□□□□□□□□

http □ https □□□□□□□□







```
=====
Install 1 Package

Total download size: 19 k
Installed size: 26 k
Is this ok [y/N]:
```

☐ y ☐ Enter ☐

```
$ sudo yum install http://rpms.remirepo.net/enterprise/remi-release-9.rpm
Extra Packages for Enterprise Linux 9 - x86_64                7.0 MB/s | 23 MB    00:03
Extra Packages for Enterprise Linux 9 openh264 (From Cisco) - x86_64    1.0 kB/s | 2.5 kB
00:02
remi-release-9.rpm                                           47 kB/s | 32 kB    00:00
Dependencies resolved.
```

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

Package	Architecture	Version	Repository	Size
=====				
=====				
Installing:				
remi-release	noarch	9.5-2.el9.remi	@commandline	32 k

#### Transaction Summary

```
=====
=====
Install 1 Package

Total size: 32 k
Installed size: 34 k
Is this ok [y/N]:
```

☐ y ☐ Enter ☐ yum repo ☐

```
$ sudo yum update
Last metadata expiration check: 0:00:01 ago on Wed May 14 17:17:25 2025.
Dependencies resolved.
```

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

Package	Architecture	Version	Repository	Size
---------	--------------	---------	------------	------

```
=====
=====
Upgrading:
  epel-release                noarch                9-10.el9                epel                19 k

Transaction Summary

=====
=====

Upgrade 1 Package

Total download size: 19 k
Is this ok [y/N]:
```

☐ y ☐ Enter ☐☐☐☐☐☐☐☐☐☐☐☐ y ☐ Enter ☐☐☐☐☐☐

```
Downloading Packages:
  epel-release-9-10.el9.noarch.rpm                111 kB/s | 19 kB    00:00
-----
Total                22 kB/s | 19 kB    00:00
Extra Packages for Enterprise Linux 9 - x86_64    1.6 MB/s | 1.6 kB    00:00
Importing GPG key 0x3228467C:
  Userid   : "Fedora (epel9) <epel@fedoraproject.org>"
  Fingerprint: FF8A D134 4597 106E CE81 3B91 8A38 72BF 3228 467C
  From     : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-9
Is this ok [y/N]:
```

☐☐☐☐☐☐ PHP ☐ repo ☐☐☐☐☐☐☐☐☐☐

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

☐☐☐☐☐☐☐☐☐☐ Remi ☐☐☐☐

```
Last metadata expiration check: 0:03:12 ago on Wed May 14 17:17:25 2025.
Rocky Linux 9 - AppStream

Name          Stream      Profiles                                Summary
php           8.1         common [d], devel, minimal            PHP scripting language
php           8.2         common [d], devel, minimal            PHP scripting language

Remi's Modular repository for Enterprise Linux 9 - x86_64

Name          Stream      Profiles                                Summary
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
php	remi-8.2	common [d], devel, minimal	PHP scripting language
php	remi-8.3	common [d], devel, minimal	PHP scripting language
php	remi-8.4	common [d], devel, minimal	PHP scripting language

Hint: [d]efault, [e]nabled, [x]disabled, [i]nstalled

##### PHP 8.2 #####

```
$ sudo yum module enable php:remi-8.2 -y
Last metadata expiration check: 0:04:46 ago on Wed May 14 17:17:25 2025.
Dependencies resolved.
=====
=====
Package                Architecture      Version           Repository        Size
=====
=====
Enabling module streams:
php                    remi-8.2

Transaction Summary
=====
=====

Complete!
```

##### PHP 8.2 #####

```
Last metadata expiration check: 0:05:16 ago on Wed May 14 17:17:25 2025.
Rocky Linux 9 - AppStream
Name      Stream      Profiles           Summary
php       8.1         common [d], devel, minimal  PHP scripting language
php       8.2         common [d], devel, minimal  PHP scripting language

Remi's Modular repository for Enterprise Linux 9 - x86_64
Name      Stream      Profiles           Summary
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
```

php	remi-8.2 [e]	common [d], devel, minimal	PHP scripting language
php	remi-8.3	common [d], devel, minimal	PHP scripting language
php	remi-8.4	common [d], devel, minimal	PHP scripting language

Hint: [d]efault, [e]nabled, [x]disabled, [i]nstalled

PHP 8.2

```
$ 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
 Enter
 Apache

```
$ sudo systemctl restart httpd
```

PHP 8.2

• Ubuntu Server 24.04

PHP 8
 Ondřej Surý (PHP
 Debian
 Ubuntu
 Debian
 ) PHP PPA

RockyLinux
 yum
 dnf
 sudo

RockyLinux
 yum
 dnf
 sudo