

Cài đặt Apache

```
root@192:/home/phamquangduy# apt-get install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  apache2-bin apache2-data libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine apache2-suexec-custom apache2-utils
  openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap ssl-cert
0 upgraded, 8 newly installed, 0 to remove and 4 not upgraded.
Need to get 1,289 kB of archives.
After this operation, 5,369 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu/ trusty/main libapr1 amd64 1.5.0-1 [85.1 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu/ trusty/main libaprutil1 amd64 1.5.3-1 [76.4 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu/ trusty/main libaprutil1-dbd-sqlite3 amd64 1.5.3-1 [10.5 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu/ trusty/main libaprutil1-ldap amd64 1.5.3-1 [8,634 B]
Get:5 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main apache2-bin amd64 2.4.7-1ubuntu4.22 [845 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main apache2-data all 2.4.7-1ubuntu4.22 [160 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main apache2 amd64 2.4.7-1ubuntu4.22 [87.4 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu/ trusty/main ssl-cert all 1.0.33 [16.6 kB]
Fetched 1,289 kB in 4s (317 kB/s)
Preconfiguring packages ...
Selecting previously unselected package libapr1:amd64.
(Reading database ... 59984 files and directories currently installed.)
Preparing to unpack .../libapr1_1.5.0-1_amd64.deb ...
Unpacking libapr1:amd64 (1.5.0-1) ...
Selecting previously unselected package libaprutil1:amd64.
Preparing to unpack .../libaprutil1_1.5.3-1_amd64.deb ...
Unpacking libaprutil1:amd64 (1.5.3-1) ...
Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.
Preparing to unpack .../libaprutil1-dbd-sqlite3_1.5.3-1_amd64.deb ...
Unpacking libaprutil1-dbd-sqlite3:amd64 (1.5.3-1) ...
Selecting previously unselected package libaprutil1-ldap:amd64.
Preparing to unpack .../libaprutil1-ldap_1.5.3-1_amd64.deb ...
Unpacking libaprutil1-ldap:amd64 (1.5.3-1) ...
Selecting previously unselected package apache2-bin.
Preparing to unpack .../apache2-bin_2.4.7-1ubuntu4.22_amd64.deb ...
Unpacking apache2-bin (2.4.7-1ubuntu4.22) ...
Selecting previously unselected package apache2-data.
Preparing to unpack .../apache2-data_2.4.7-1ubuntu4.22_all.deb ...
Unpacking apache2-data (2.4.7-1ubuntu4.22) ...
```

192.168.2.93:22 SSH2 xterm 178x48 1,48,30 1 session CAP NUM

arch

7:37 PM 12/3/2023

All Sessions


New Session

Selecting previously unselected package apache2.
Preparing to unpack .../apache2_2.4.7-1ubuntu4.22_amd64.deb ...
Unpacking apache2 (2.4.7-1ubuntu4.22) ...
Selecting previously unselected package ssl-cert.
Preparing to unpack .../ssl-cert_1.0.33_all.deb ...
Unpacking ssl-cert (1.0.33) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Processing triggers for ufw (0.34-rc-0ubuntu2) ...
Processing triggers for ureadahead (0.100.0-16) ...
Setting up libapr1:amd64 (1.5.0-1) ...
Setting up libaprutil1:amd64 (1.5.3-1) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.5.3-1) ...
Setting up libaprutil1-ldap:amd64 (1.5.3-1) ...
Setting up apache2-bin (2.4.7-1ubuntu4.22) ...
Setting up apache2-data (2.4.7-1ubuntu4.22) ...
Setting up apache2 (2.4.7-1ubuntu4.22) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
* Starting web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 0.0.0.192. Set the 'ServerName' directive globally to suppress this message
*
Setting up ssl-cert (1.0.33) ...
Processing triggers for libc-bin (2.19-0ubuntu6.15) ...
Processing triggers for ufw (0.34-rc-0ubuntu2) ...
Processing triggers for ureadahead (0.100.0-16) ...
root@192:/home/phamquangduy#

me All S...
e Folder
items 1
it
22
local SSH
//phamquangduy@192.168.2.93.22

SSH 12 xterm 170x48 48,30 1 session CAP NUM
ENG 7:37 PM 12/3/2023
US

← → ↺ Không bảo mật 192.168.2.93



Apache2 Ubuntu Default Page

ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|  
|-- ports.conf  
|-- mods-enabled  
|   |-- *.Load  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf  
|-- sites-enabled  
|   |-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining

Cài đặt PHP

```
Processing triggers for ureadahead (0.100-0-20) ...
root@192:/home/phamquangduy# apt-get install php5 libapache2-mod-php5
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  php5-cli php5-common php5-json php5-readline
Suggested packages:
  php-pear php5-user-cache
The following NEW packages will be installed:
  libapache2-mod-php5 php5 php5-cli php5-common php5-json php5-readline
0 upgraded, 6 newly installed, 0 to remove and 4 not upgraded.
Need to get 4,855 kB of archives.
After this operation, 20.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu/ trusty/main php5-json amd64 1.3.2-2build1 [34.4 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main php5-common amd64 5.5.9+dfsg-1ubuntu4.29 [452 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main php5-cli amd64 5.5.9+dfsg-1ubuntu4.29 [2,195 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main php5-readline amd64 5.5.9+dfsg-1ubuntu4.29 [12.1 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main libapache2-mod-php5 amd64 5.5.9+dfsg-1ubuntu4.29 [2,200 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main php5 all 5.5.9+dfsg-1ubuntu4.29 [1,304 B]
Fetched 4,855 kB in 4s (1,019 kB/s)
Selecting previously unselected package php5-json.
(Reading database ... 60627 files and directories currently installed.)
Preparing to unpack .../php5-json_1.3.2-2build1_amd64.deb ...
Unpacking php5-json (1.3.2-2build1) ...
Selecting previously unselected package php5-common.
Preparing to unpack .../php5-common_5.5.9+dfsg-1ubuntu4.29_amd64.deb ...
Unpacking php5-common (5.5.9+dfsg-1ubuntu4.29) ...
Selecting previously unselected package php5-cli.
Preparing to unpack .../php5-cli_5.5.9+dfsg-1ubuntu4.29_amd64.deb ...
Unpacking php5-cli (5.5.9+dfsg-1ubuntu4.29) ...
Selecting previously unselected package php5-readline.
Preparing to unpack .../php5-readline_5.5.9+dfsg-1ubuntu4.29_amd64.deb ...
Unpacking php5-readline (5.5.9+dfsg-1ubuntu4.29) ...
Selecting previously unselected package libapache2-mod-php5.
Preparing to unpack .../libapache2-mod-php5_5.5.9+dfsg-1ubuntu4.29_amd64.deb ...
Unpacking libapache2-mod-php5 (5.5.9+dfsg-1ubuntu4.29) ...
Selecting previously unselected package php5.
Preparing to unpack .../php5_5.5.9+dfsg-1ubuntu4.29_all.deb ...
Unpacking php5 (5.5.9+dfsg-1ubuntu4.29) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Setting up php5-json (1.3.2-2build1) ...
php5_invoke: Enable module json for apache2 SAPI
php5_invoke: Enable module json for cli SAPI
Setting up php5-common (5.5.9+dfsg-1ubuntu4.29) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Unpacking libapache2-mod-php5 (5.5.9+dfsg-1ubuntu4.29) ...
Selecting previously unselected package php5.
Preparing to unpack .../php5_5.5.9+dfsg-1ubuntu4.29_all.deb ...
Unpacking php5 (5.5.9+dfsg-1ubuntu4.29) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Setting up php5 (5.5.9+dfsg-1ubuntu4.29) ...
Creating config file /etc/php5/mods-available/pdo.ini with new version
php5_invoke: Enable module pdo for apache2 SAPI
php5_invoke: Enable module pdo for cli SAPI

Creating config file /etc/php5/mods-available/openssl.ini with new version
php5_invoke: Enable module openssl for apache2 SAPI
php5_invoke: Enable module openssl for cli SAPI
Setting up php5-cli (5.5.9+dfsg-1ubuntu4.29) ...
update-alternatives: using /usr/bin/php5 to provide /usr/bin/php (php) in auto mode

Creating config file /etc/php5/cli/php.ini with new version
php5_invoke json: already enabled for cli SAPI
php5_invoke pdo: already enabled for cli SAPI
php5_invoke openssl: already enabled for cli SAPI
Setting up php5-readline (5.5.9+dfsg-1ubuntu4.29) ...

Creating config file /etc/php5/mods-available/readline.ini with new version
php5_invoke: Enable module readline for apache2 SAPI
php5_invoke: Enable module readline for cli SAPI
Setting up libapache2-mod-php5 (5.5.9+dfsg-1ubuntu4.29) ...

Creating config file /etc/php5/apache2/php.ini with new version
php5_invoke json: already enabled for apache2 SAPI
php5_invoke pdo: already enabled for apache2 SAPI
php5_invoke openssl: already enabled for apache2 SAPI
php5_invoke readline: already enabled for apache2 SAPI
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
* Restarting web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 0.0.0.192. Set the 'ServerName' directive globally to suppress this message [ OK ]

apache2_invoke: Enable module php5
* Restarting web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 0.0.0.192. Set the 'ServerName' directive globally to suppress this message [ OK ]

Setting up php5 (5.5.9+dfsg-1ubuntu4.29) ...
root@192:/home/phamquangduy#
```

Cài đặt phpMyAdmin

```
root@192:/home/phanquangduy# apt-get install phpmyadmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  dbconfig-common javascript-common libjs-codemirror libjs-jquery
  libjs-jquery-cookie libjs-jquery-event-drag libjs-jquery-metadata
  libjs-jquery-mousewheel libjs-jquery-tablesorter libjs-jquery-ui
  libjs-underscore php-gettext
Suggested packages:
  libjs-jquery-ui-docs
The following NEW packages will be installed:
  dbconfig-common javascript-common libjs-codemirror libjs-jquery
  libjs-jquery-cookie libjs-jquery-event-drag libjs-jquery-metadata
  libjs-jquery-mousewheel libjs-jquery-tablesorter libjs-jquery-ui
  libjs-underscore php-gettext phpmyadmin
0 upgraded, 13 newly installed, 0 to remove and 4 not upgraded.
Need to get 5,611 kB of archives.
After this operation, 28.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu/ trusty/main dbconfig-common all 1.8.47+nmu1 [468 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu/ trusty/main javascript-common all 11 [6,066 B]
Get:3 http://us.archive.ubuntu.com/ubuntu/ trusty/main libjs-jquery all 1.7.2+dfsg-2ubuntu1 [78.8 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu/ trusty/universe libjs-jquery-cookie all 8-2 [6,502 B]
Get:5 http://us.archive.ubuntu.com/ubuntu/ trusty/universe libjs-jquery-event-drag all 8-2 [11.2 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu/ trusty/main libjs-jquery-metadata all 8-2 [6,856 B]
Get:7 http://us.archive.ubuntu.com/ubuntu/ trusty/universe libjs-jquery-mousewheel all 8-2 [7,076 B]
Get:8 http://us.archive.ubuntu.com/ubuntu/ trusty/main libjs-jquery-tablesorter all 8-2 [64.0 kB]
Get:9 http://us.archive.ubuntu.com/ubuntu/ trusty/universe libjs-jquery-ui all 1.10.1+dfsg-1 [458 kB]
Get:10 http://us.archive.ubuntu.com/ubuntu/ trusty/main libjs-underscore all 1.4.4-2ubuntu1 [45.6 kB]
Get:11 http://us.archive.ubuntu.com/ubuntu/ trusty/universe php-gettext all 1.0.11-1 [17.2 kB]
Get:12 http://us.archive.ubuntu.com/ubuntu/ trusty/universe libjs-codemirror all 2.23-1 [210 kB]
Get:13 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/universe phpmyadmin all 4:4.0.10-1ubuntu0.1 [4,232 kB]
Fetched 5,611 kB in 14s (399 kB/s)
Preconfiguring packages ...
Selecting previously unselected package dbconfig-common.
(Reading database ... 6350 files and directories currently installed.)
Preparing to unpack .../dbconfig-common_1.8.47+nmu1_all.deb ...
Unpacking dbconfig-common (1.8.47+nmu1) ...
Selecting previously unselected package javascript-common.
Preparing to unpack .../javascript-common_11_all.deb ...
Unpacking javascript-common (11) ...
Selecting previously unselected package libjs-jquery.
Preparing to unpack .../libjs-jquery_1.7.2+dfsg-2ubuntu1_all.deb ...
Unpacking libjs-jquery (1.7.2+dfsg-2ubuntu1) ...
Selecting previously unselected package libjs-jquery-cookie.
Preparing to unpack .../libjs-jquery-cookie_8-2_all.deb ...
Unpacking libjs-jquery-cookie (8-2) ...
Selecting previously unselected package libjs-jquery-event-drag.
Preparing to unpack .../libjs-jquery-event-drag_8-2_all.deb ...
Unpacking libjs-jquery-event-drag (8-2) ...
Selecting previously unselected package libjs-jquery-metadata.
Preparing to unpack .../libjs-jquery-metadata_8-2_all.deb ...
Unpacking libjs-jquery-metadata (8-2) ...
Selecting previously unselected package libjs-jquery-mousewheel.
Preparing to unpack .../libjs-jquery-mousewheel_8-2_all.deb ...
Unpacking libjs-jquery-mousewheel (8-2) ...
Selecting previously unselected package libjs-jquery-tablesorter.
Preparing to unpack .../libjs-jquery-tablesorter_8-2_all.deb ...
Unpacking libjs-jquery-tablesorter (8-2) ...
Selecting previously unselected package libjs-jquery-ui.
Preparing to unpack .../libjs-jquery-ui_1.10.1+dfsg-1_all.deb ...
Unpacking libjs-jquery-ui (1.10.1+dfsg-1) ...
Selecting previously unselected package libjs-underscore.
Preparing to unpack .../libjs-underscore_1.4.4-2ubuntu1_all.deb ...
Unpacking libjs-underscore (1.4.4-2ubuntu1) ...
Selecting previously unselected package php-gettext.
Preparing to unpack .../php-gettext_1.0.11-1_all.deb ...
Unpacking php-gettext (1.0.11-1) ...
Selecting previously unselected package libjs-codemirror.
Preparing to unpack .../libjs-codemirror_2.23-1_all.deb ...
Unpacking libjs-codemirror (2.23-1) ...
Selecting previously unselected package phpmyadmin.
Preparing to unpack .../phpmyadmin_4:4.0.10-1ubuntu0.1_all.deb ...
Unpacking phpmyadmin (4:4.0.10-1ubuntu0.1) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Setting up dbconfig-common (1.8.47+nmu1) ...

Creating config file /etc/dbconfig-common/config with new version
Setting up javascript-common (11) ...
apache2 invoke: Enable configuration javascript-common
* Reloading web server apache2

Setting up libjs-jquery (1.7.2+dfsg-2ubuntu1) ...
Setting up libjs-jquery-cookie (8-2) ...
Setting up libjs-jquery-event-drag (8-2) ...
Setting up libjs-jquery-metadata (8-2) ...
Setting up libjs-jquery-mousewheel (8-2) ...
Setting up libjs-jquery-tablesorter (8-2) ...
Setting up libjs-jquery-ui (1.10.1+dfsg-1) ...
Setting up libjs-underscore (1.4.4-2ubuntu1) ...
Setting up php-gettext (1.0.11-1) ...
Setting up libjs-codemirror (2.23-1) ...
Setting up phpmyadmin (4:4.0.10-1ubuntu0.1) ...
Setting up phpmyadmin (4:4.0.10-1ubuntu0.1) ...
dbconfig-common: writing config to /etc/dbconfig-common/phpmyadmin.conf

Creating config file /etc/dbconfig-common/phpmyadmin.conf with new version

Creating config file /etc/phpmyadmin/config-db.php with new version
apache2 invoke: Enable configuration phpmyadmin
* Reloading web server apache2
* Reloading web server apache2
root@192:/home/phanquangduy#
```