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Step 1: Install Apache

```
koko@koko:~$ sudo apt-get update
```

```
koko@koko:~$ sudo apt-get update
[sudo] password for koko:
Hit:1 http://id.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,194 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [251 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1,159 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [188 kB]
Get:9 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [998 kB]
Get:10 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [219 kB]
Get:11 http://id.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.6 kB]
Get:12 http://id.archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [954 kB]
Get:13 http://id.archive.ubuntu.com/ubuntu jammy-security/main Translation-en [188 kB]
Get:14 http://id.archive.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1,093 kB]
Get:15 http://id.archive.ubuntu.com/ubuntu jammy-security/restricted Translation-en [178 kB]
Get:16 http://id.archive.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [795 kB]
Get:17 http://id.archive.ubuntu.com/ubuntu jammy-security/universe Translation-en [147 kB]
Get:18 http://id.archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.5 kB]
Fetched 7,781 kB in 4s (1,763 kB/s)
Reading package lists... Done
```

```
koko@koko:~$ sudo apt install apache2
```

```
koko@koko:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.6).
0 upgraded, 0 newly installed, 0 to remove and 47 not upgraded.
```

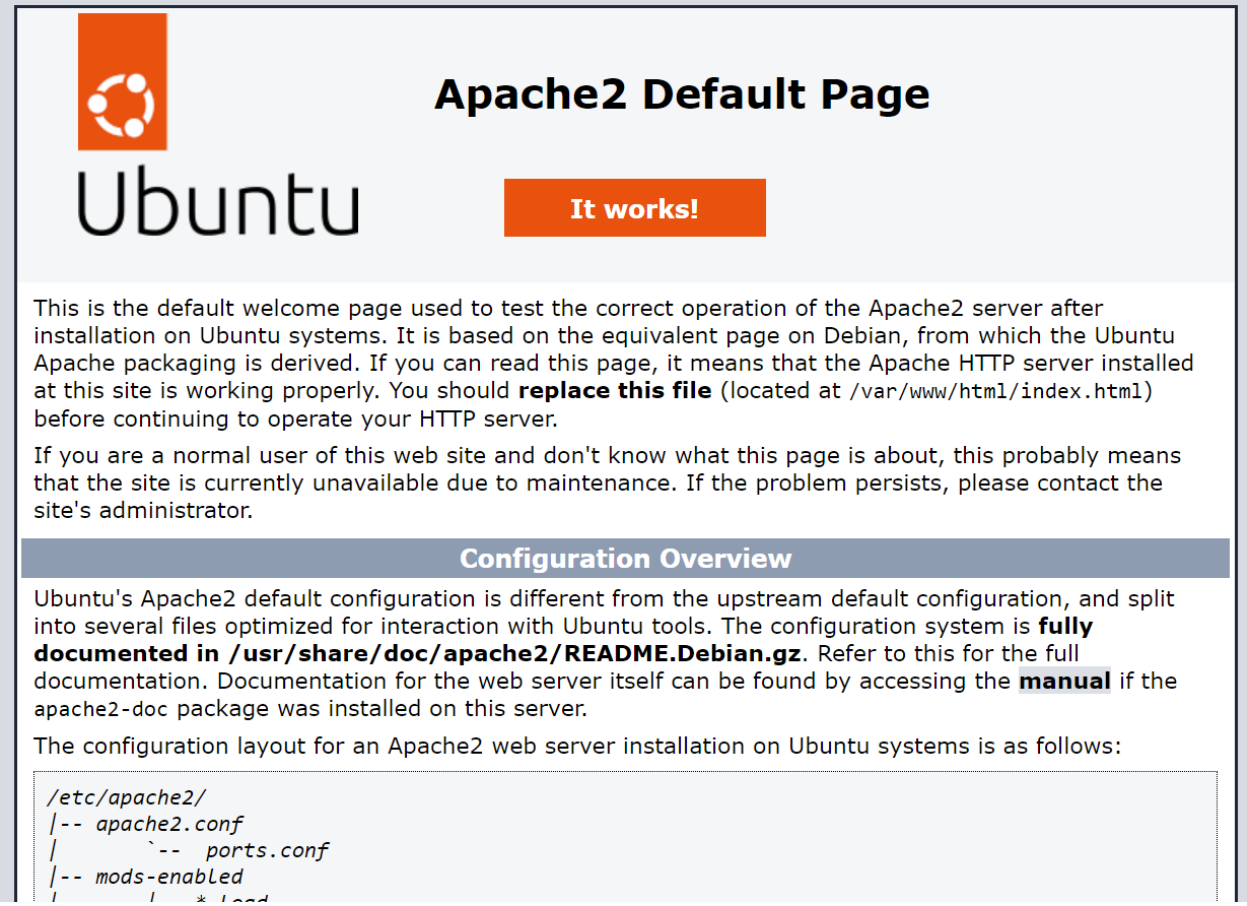
```
koko@koko:~$ sudo systemctl enable apache2
```

```
koko@koko:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
```

koko@koko:~$ sudo systemctl status apache2

```
koko@koko:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Tue 2023-11-21 07:10:54 UTC; 12min ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 730 (apache2)
      Tasks: 6 (limit: 2221)
     Memory: 25.7M
        CPU: 417ms
     CGroup: /system.slice/apache2.service
             ├─730 /usr/sbin/apache2 -k start
             ├─740 /usr/sbin/apache2 -k start
             ├─741 /usr/sbin/apache2 -k start
             ├─742 /usr/sbin/apache2 -k start
             ├─743 /usr/sbin/apache2 -k start
             └─744 /usr/sbin/apache2 -k start

Nov 21 07:10:52 koko systemd[1]: Starting The Apache HTTP Server...
Nov 21 07:10:54 koko apachectl[705]: AH00558: apache2: Could not reliably determine the server's fully qualified domain>
Nov 21 07:10:54 koko systemd[1]: Started The Apache HTTP Server.
lines 1-19/19 (END)
```



Apache2 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
```

Step 2: Install MySQL

koko@koko:~$ sudo apt-get update

```
koko@koko:~$ sudo apt-get update
Hit:1 http://id.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://id.archive.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
```

koko@koko:~$ sudo mysql_secure_installation

```
koko@koko:~$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.
The 'validate_password' component is installed on the server.
The subsequent steps will run with the existing configuration
of the component.

Skipping password set for root as authentication with auth_socket is used by default.
If you would like to use password authentication instead, this can be done with the "ALTER_USER" command.
See https://dev.mysql.com/doc/refman/8.0/en/alter-user.html#alter-user-password-management for more information.

By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL 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.
```

koko@koko:~$ sudo systemctl enable mysql

```
koko@koko:~$ sudo systemctl enable mysql
Synchronizing state of mysql.service with SysV service script with /lib/systemd/systemd-sysv-insta
Executing: /lib/systemd/systemd-sysv-install enable mysql
```

koko@koko:~$ sudo systemctl status mysql

```
koko@koko:~$ sudo systemctl status mysql
● mysql.service - MySQL Community Server
     Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
     Active: active (running) since Tue 2023-11-21 07:11:03 UTC; 25min ago
   Main PID: 762 (mysqld)
     Status: "Server is operational"
      Tasks: 38 (limit: 2221)
     Memory: 445.4M
        CPU: 34.284s
     CGroup: /system.slice/mysql.service
             └─762 /usr/sbin/mysqld

Nov 21 07:10:52 koko systemd[1]: Starting MySQL Community Server...
Nov 21 07:11:03 koko systemd[1]: Started MySQL Community Server.
```

Step 3: Install PHP

```
koko@koko:~$ sudo apt install php libapache2-mod-php php-mysql
```

```
koko@koko:~$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libapache2-mod-php is already the newest version (2:8.1+92ubuntu1).
php is already the newest version (2:8.1+92ubuntu1).
php-mysql is already the newest version (2:8.1+92ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 47 not upgraded.
```

```
koko@koko:~$ sudo apt install php-curl php-gd php-mbstring php-
             xml php-xmlrpc php-soap php-intl php-zip
```

```
koko@koko:~$ sudo apt install php-curl php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl php-zip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
php-curl is already the newest version (2:8.1+92ubuntu1).
php-gd is already the newest version (2:8.1+92ubuntu1).
php-xml is already the newest version (2:8.1+92ubuntu1).
php-intl is already the newest version (2:8.1+92ubuntu1).
php-mbstring is already the newest version (2:8.1+92ubuntu1).
php-soap is already the newest version (2:8.1+92ubuntu1).
php-xmlrpc is already the newest version (3:1.0.0~rc3-2).
php-zip is already the newest version (2:8.1+92ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 47 not upgraded.
```

```
koko@koko:$ php -v
```

```
koko@koko:~$ php -v
PHP 8.1.2-1ubuntu2.14 (cli) (built: Aug 18 2023 11:41:11) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.1.2, Copyright (c) Zend Technologies
    with Zend OPcache v8.1.2-1ubuntu2.14, Copyright (c), by Zend Technologies
```

```
koko@koko:~$ sudo systemctl restart apache2
```

Step 4: Install WordPress

```
koko@koko:~$ cd /var/www/html
```

```
koko@koko:/var/www/html$ sudo wget -c
http://wordpress.org/latest.tar.gz
```

```
koko@koko:/var/www/html$ sudo wget -c http://wordpress.org/latest.tar.gz
--2023-11-21 07:52:29--  http://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:80... connected.
```

```
koko@koko:/var/www/html$ sudo tar -xzvf latest.tar.gz
```

```
koko@koko:/var/www/html$ sudo tar -xzvf latest.tar.gz
wordpress/
wordpress/xmlrpc.php
wordpress/wp-blog-header.php
wordpress/readme.html
wordpress/wp-signup.php
wordpress/index.php
wordpress/wp-cron.php
wordpress/wp-config-sample.php
wordpress/wp-login.php
wordpress/wp-settings.php
wordpress/license.txt
wordpress/wp-content/
wordpress/wp-content/themes/
wordpress/wp-content/themes/twentytwentythree/
wordpress/wp-content/themes/twentytwentythree/theme.json
wordpress/wp-content/themes/twentytwentythree/parts/
wordpress/wp-content/themes/twentytwentythree/parts/footer.html
```

```
koko@koko:/var/www/html$ ls -l
```

```
koko@koko:/var/www/html$ ls -l
total 23924
-rw-r--r-- 1 root   root       10671 Nov  1 04:08 index.html
-rw-r--r-- 1 root   root    24480560 Nov  7 19:25 latest.tar.gz
drwxr-xr-x 5 nobody nogroup     4096 Oct 12 19:12 wordpress
```

```
koko@koko: sudo chown -R www-data:www-data
/var/www/html/wordpress
```

Step 5: Create a Database for WordPress

```
koko@koko:/var/www/html$ sudo mysql -u root -p
```

```
CREATE DATABASE demo_db;
```

```
mysql> CREATE DATABASE mugnitk;
Query OK, 1 row affected (0.02 sec)
```

```
CREATE USER demo_user@localhost IDENTIFIED BY 'demo-password';
```

```
mysql> CREATE USER demo_user@localhost IDENTIFIED BY '#Mugni28';
Query OK, 0 rows affected (0.02 sec)
```

```
GRANT ALL PRIVILEGES ON demo_db. * TO demo_user@localhost;
```

```
mysql> GRANT ALL PRIVILEGES ON demo_db. * TO demo_user@localhost;
Query OK, 0 rows affected (0.01 sec)
```

```
FLUSH PRIVILEGES;
```

```
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
```

```
Exit;
```

```
koko@koko:/var/www/html$ sudo chmod -R 777 wordpress/
```

```
koko@koko:/var/www/html$ cd wordpress/
```

Step 6: Setup and Configure WordPress

```
koko@koko:/var/www/html/wordpress$ mv wp-config-sample.php wp-config.php
```

```
koko@koko:/var/www/html/wordpress$ gedit wp-config.php
```

```
koko@koko:/var/www/html/wordpress$ gedit wp-config.php
Command 'gedit' not found, but can be installed with:
sudo snap install gedit  # version 46.1, or
sudo apt  install gedit  # version 41.0-3
See 'snap info gedit' for additional versions.
```

```
koko@koko:/var/www/html/wordpress$ nano wp-config.php
```