

## 2.5 - Alberto Gallardo Morales

### 1.2

```
root@sriserver:/etc/apache2/sites-available# apache2ctl -l
Compiled in modules:
  core.c
  mod_so.c
  mod_watchdog.c
  http_core.c
  mod_log_config.c
  mod_logio.c
  mod_version.c
  mod_unixd.c
```

### 1.3

```
root@sriserver:/etc/apache2/sites-available# ls -l /etc/apache2/mods-enabled/
total 0
lrwxrwxrwx 1 root root 36 oct  4 18:06 access_compat.load -> ../mods-available/access_compat.load
lrwxrwxrwx 1 root root 28 oct  4 18:06 alias.conf -> ../mods-available/alias.conf
lrwxrwxrwx 1 root root 28 oct  4 18:06 alias.load -> ../mods-available/alias.load
lrwxrwxrwx 1 root root 33 oct  4 18:06 auth_basic.load -> ../mods-available/auth_basic.load
lrwxrwxrwx 1 root root 33 oct  4 18:06 authn_core.load -> ../mods-available/authn_core.load
lrwxrwxrwx 1 root root 33 oct  4 18:06 authn_file.load -> ../mods-available/authn_file.load
lrwxrwxrwx 1 root root 33 oct  4 18:06 authz_core.load -> ../mods-available/authz_core.load
lrwxrwxrwx 1 root root 33 oct  4 18:06 authz_host.load -> ../mods-available/authz_host.load
lrwxrwxrwx 1 root root 33 oct  4 18:06 authz_user.load -> ../mods-available/authz_user.load
lrwxrwxrwx 1 root root 32 oct  4 18:06 autoindex.conf -> ../mods-available/autoindex.conf
lrwxrwxrwx 1 root root 32 oct  4 18:06 autoindex.load -> ../mods-available/autoindex.load
lrwxrwxrwx 1 root root 30 oct  4 18:06 deflate.conf -> ../mods-available/deflate.conf
lrwxrwxrwx 1 root root 30 oct  4 18:06 deflate.load -> ../mods-available/deflate.load
lrwxrwxrwx 1 root root 26 oct  4 18:06 dir.conf -> ../mods-available/dir.conf
lrwxrwxrwx 1 root root 26 oct  4 18:06 dir.load -> ../mods-available/dir.load
lrwxrwxrwx 1 root root 26 oct  4 18:06 env.load -> ../mods-available/env.load
lrwxrwxrwx 1 root root 29 oct  4 18:06 filter.load -> ../mods-available/filter.load
lrwxrwxrwx 1 root root 27 oct  4 18:06 mime.conf -> ../mods-available/mime.conf
lrwxrwxrwx 1 root root 27 oct  4 18:06 mime.load -> ../mods-available/mime.load
lrwxrwxrwx 1 root root 32 oct  4 18:06 mpm_event.conf -> ../mods-available/mpm_event.conf
lrwxrwxrwx 1 root root 32 oct  4 18:06 mpm_event.load -> ../mods-available/mpm_event.load
lrwxrwxrwx 1 root root 34 oct  4 18:06 negotiation.conf -> ../mods-available/negotiation.conf
lrwxrwxrwx 1 root root 34 oct  4 18:06 negotiation.load -> ../mods-available/negotiation.load
lrwxrwxrwx 1 root root 33 oct  4 18:06 reqtimeout.conf -> ../mods-available/reqtimeout.conf
lrwxrwxrwx 1 root root 33 oct  4 18:06 reqtimeout.load -> ../mods-available/reqtimeout.load
lrwxrwxrwx 1 root root 31 oct  4 18:06 setenvif.conf -> ../mods-available/setenvif.conf
lrwxrwxrwx 1 root root 31 oct  4 18:06 setenvif.load -> ../mods-available/setenvif.load
lrwxrwxrwx 1 root root 29 oct  4 18:06 status.conf -> ../mods-available/status.conf
lrwxrwxrwx 1 root root 29 oct  4 18:06 status.load -> ../mods-available/status.load
```

```
root@sriserver:/etc/apache2/sites-available# ls -l /etc/apache2/mods-available/_
```

```

-rw-r--r-- 1 root root 89 mar 23 2022 proxy_scgi.load
-rw-r--r-- 1 root root 91 mar 23 2022 proxy_uwsgi.load
-rw-r--r-- 1 root root 97 mar 23 2022 proxy_wstunnel.load
-rw-r--r-- 1 root root 85 mar 23 2022 ratelimit.load
-rw-r--r-- 1 root root 70 mar 23 2022 reflector.load
-rw-r--r-- 1 root root 68 mar 23 2022 remoteip.load
-rw-r--r-- 1 root root 1190 mar 23 2022 reqtimeout.conf
-rw-r--r-- 1 root root 72 mar 23 2022 reqtimeout.load
-rw-r--r-- 1 root root 66 mar 23 2022 request.load
-rw-r--r-- 1 root root 66 mar 23 2022 rewrite.load
-rw-r--r-- 1 root root 58 mar 23 2022 sed.load
-rw-r--r-- 1 root root 99 mar 23 2022 session_cookie.load
-rw-r--r-- 1 root root 99 mar 23 2022 session_crypto.load
-rw-r--r-- 1 root root 93 mar 23 2022 session_dbd.load
-rw-r--r-- 1 root root 66 mar 23 2022 session.load
-rw-r--r-- 1 root root 1280 mar 23 2022 setenvif.conf
-rw-r--r-- 1 root root 68 mar 23 2022 setenvif.load
-rw-r--r-- 1 root root 78 mar 23 2022 slotmem_plain.load
-rw-r--r-- 1 root root 74 mar 23 2022 slotmem_shm.load
-rw-r--r-- 1 root root 74 mar 23 2022 socache_dbm.load
-rw-r--r-- 1 root root 84 mar 23 2022 socache_memcache.load
-rw-r--r-- 1 root root 78 mar 23 2022 socache_redis.load
-rw-r--r-- 1 root root 78 mar 23 2022 socache_shmcb.load
-rw-r--r-- 1 root root 66 mar 23 2022 spelling.load
-rw-r--r-- 1 root root 3110 mar 23 2022 ssl.conf
-rw-r--r-- 1 root root 97 mar 23 2022 ssl.load
-rw-r--r-- 1 root root 749 mar 23 2022 status.conf
-rw-r--r-- 1 root root 64 mar 23 2022 status.load
-rw-r--r-- 1 root root 72 mar 23 2022 substitute.load
-rw-r--r-- 1 root root 64 mar 23 2022 suexec.load
-rw-r--r-- 1 root root 70 mar 23 2022 unique_id.load
-rw-r--r-- 1 root root 324 mar 23 2022 userdir.conf
-rw-r--r-- 1 root root 66 mar 23 2022 userdir.load
-rw-r--r-- 1 root root 70 mar 23 2022 usertrack.load
-rw-r--r-- 1 root root 74 mar 23 2022 vhost_alias.load
-rw-r--r-- 1 root root 66 mar 23 2022 xml2enc.load

```

1.4

```

GNU nano 6.2 dir.load
LoadModule dir_module /usr/lib/apache2/modules/mod_dir.so

```

1.6

```

-rw-r--r-- 1 root root 28552 Jun 14 12:30 mod_xml2enc
root@sriserver:/usr/lib/apache2/modules# ls -l_

```

```

-rw-r--r-- 1 root root 39280 jun 14 12:30 mod_proxy_hcheck.so
-rw-r--r-- 1 root root 39312 jun 14 12:30 mod_proxy_html.so
-rw-r--r-- 1 root root 63984 jun 14 12:30 mod_proxy_http2.so
-rw-r--r-- 1 root root 47472 jun 14 12:30 mod_proxy_http.so
-rw-r--r-- 1 root root 22928 jun 14 12:30 mod_proxy_scgi.so
-rw-r--r-- 1 root root 154512 jun 14 12:30 mod_proxy.so
-rw-r--r-- 1 root root 22816 jun 14 12:30 mod_proxy_uwsgi.so
-rw-r--r-- 1 root root 26992 jun 14 12:30 mod_proxy_wstunnel.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_ratelimit.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_reflector.so
-rw-r--r-- 1 root root 31088 jun 14 12:30 mod_remoteip.so
-rw-r--r-- 1 root root 18800 jun 14 12:30 mod_reqtimeout.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_request.so
-rw-r--r-- 1 root root 76144 jun 14 12:30 mod_rewrite.so
-rw-r--r-- 1 root root 43376 jun 14 12:30 mod_sed.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_session_cookie.so
-rw-r--r-- 1 root root 31088 jun 14 12:30 mod_session_crypto.so
-rw-r--r-- 1 root root 22896 jun 14 12:30 mod_session_dbd.so
-rw-r--r-- 1 root root 26992 jun 14 12:30 mod_session.so
-rw-r--r-- 1 root root 18800 jun 14 12:30 mod_setenvif.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_slotmem_plain.so
-rw-r--r-- 1 root root 18800 jun 14 12:30 mod_slotmem_shm.so
-rw-r--r-- 1 root root 18800 jun 14 12:30 mod_socache_dbm.so
-rw-r--r-- 1 root root 18800 jun 14 12:30 mod_socache_memcache.so
-rw-r--r-- 1 root root 18800 jun 14 12:30 mod_socache_redis.so
-rw-r--r-- 1 root root 26992 jun 14 12:30 mod_socache_shmcb.so
-rw-r--r-- 1 root root 18800 jun 14 12:30 mod_speling.so
-rw-r--r-- 1 root root 252336 jun 14 12:30 mod_ssl.so
-rw-r--r-- 1 root root 26992 jun 14 12:30 mod_status.so
-rw-r--r-- 1 root root 26992 jun 14 12:30 mod_substitute.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_suexec.so
-rw-r--r-- 1 root root 14624 jun 14 12:30 mod_unique_id.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_userdir.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_usertrack.so
-rw-r--r-- 1 root root 14704 jun 14 12:30 mod_vhost_alias.so
-rw-r--r-- 1 root root 26992 jun 14 12:30 mod_xml2enc.so

```

## 1.7.

```

root@srserver:/usr/lib/apache2/modules# apt-cache search libapache2-mod_

```

```

libapache2-mod-parser3 - Parser 3, HTML-embedded scripting language (Apache2 module)
libapache2-mod-passenger - web application server - apache2 integration
libapache2-mod-php7.4 - Transitional package
libapache2-mod-php8.0 - Transitional package
libapache2-mod-python - Python-embedding module for Apache 2
libapache2-mod-python-doc - Python-embedding module for Apache 2 - documentation
libapache2-mod-gos - quality of service module for the apache2
libapache2-mod-r-base - server-side R integration with Apache 2
libapache2-mod-rivet - Server-side Tcl programming system combining ease of use and power
libapache2-mod-rivet-doc - Documentation for Rivet, a server-side Tcl programming system
libapache2-mod-rpaf - module for Apache2 which takes the last IP from the 'X-Forwarded-For' header
libapache2-mod-ruid2 - suexec module for Apache 2
libapache2-mod-uwsgi - uwsgi module for Apache2 (mod_Ruwsgi)
libapache2-mod-uwsgi-dbg - debugging symbols for Apache2 mod_Ruwsgi
libapache2-mod-security2 - Tighten web applications security for Apache
libapache2-mod-shib - Federated web single sign-on system (Apache module)
libapache2-mod-svn - Apache Subversion server modules for Apache httpd
libapache2-mod-tile - Apache module to deliver tiles created by renderd
libapache2-mod-upload-progress - upload progress support for the Apache web server
libapache2-mod-uwsgi - uwsgi module for Apache2 (mod_uwsgi)
libapache2-mod-uwsgi-dbg - debugging symbols for Apache2 mod_uwsgi
libapache2-mod-vhost-ldap - Apache 2 module for Virtual Hosting from LDAP
libapache2-mod-watchcat - Process monitoring Apache module
libapache2-mod-xforward - Apache module implements redirection based on X-Forward response header
libapache2-mod-xsendfile - Serve large static files efficiently from web applications
liblinux-pid-perl - wrapper around the getpid() and getppid() C functions
libocamlinet-ocaml-dev - OCaml application-level Internet libraries - core development libraries
mapcache-cgi - tile caching server - CGI binary
mono-apache-server4 - ASP.NET 4.5 backend for mod_mono Apache module
mono-fastcgi-server4 - ASP.NET 4.0 backend for FastCGI web servers
mono-fpm-server - ASP.NET backend for FastCGI Process Manager
php8.1-fpm - server-side, HTML-embedded scripting language (FPM-CGI binary)
radicale - simple calendar and addressbook server - daemon
shibboleth-sp-utils - Federated web single sign-on system (daemon and utilities)
tclws - Tcl Web Services

```

## 2.2

```
root@sriserver:/etc/apache2/mods-enabled# a2enmod userdir_
```

## 2.3

```
lrwxrwxrwx 1 root root 30 oct 11 18:58 userdir.conf -> ../mods-available/userdir.conf
lrwxrwxrwx 1 root root 30 oct 11 18:58 userdir.load -> ../mods-available/userdir.load
```

```

unique_id.load
userdir.conf
userdir.load

```

## 2.4

```
root@sriserver:/etc/apache2/mods-available# service apache2 restart
```

## 2.5

```

<IfModule mod_userdir.c>
    UserDir public_html
    UserDir disabled root

    <Directory /home/*/public_html>
        AllowOverride FileInfo AuthConfig Limit Indexes
        Options MultiViews Indexes SymLinksIfOwnerMatch IncludesNoExec
        Require method GET POST OPTIONS
    </Directory>
</IfModule>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet

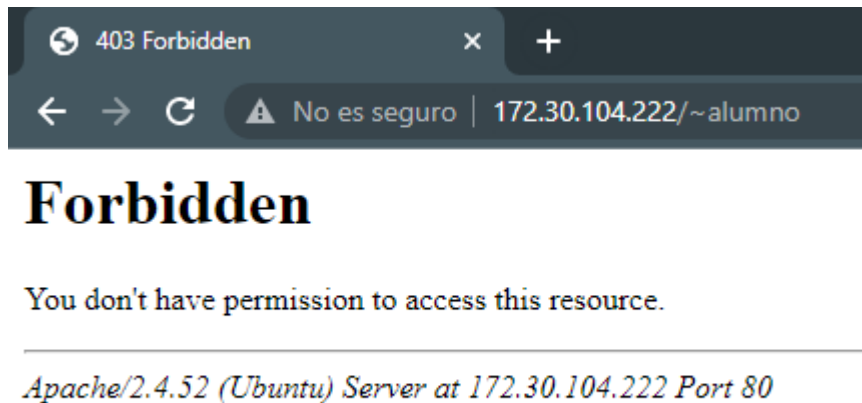
```

2.6

```
root@sriserver:/home/alumno# mkdir public_html
```

```
root@sriserver:/home/alumno# nano personal.html
```

2.7



2.8 y 2.9

```
root@sriserver:/home/alumno# a2dismod userdir
Module userdir disabled.
To activate the new configuration, you need to run:
  systemctl restart apache2
root@sriserver:/home/alumno# service apache2 restart
root@sriserver:/home/alumno#
```