Web Server Management

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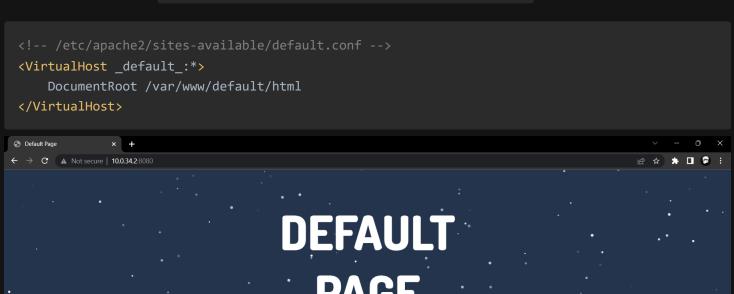


Web Service

CONFIG FILE - /etc/apache2/sites-available/sitesbox.es.conf

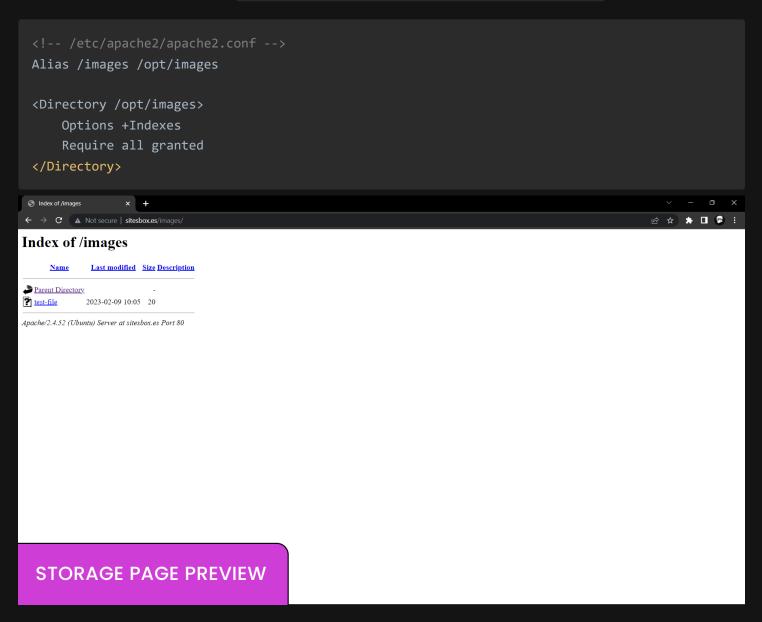
■ DIRECTORY STRUCTURE - /var/www/sitesbox.es

▼ DEFAULT SITE - Capture any request to non-existent virtual hosts



DEFAULT PAGE PREVIEW

STORAGE DIRECTORY - Outside of /var/www and accessible from anywhere



***** ENABLING PHP SCRIPTS

```
apt install libapache2-mod-phpX.X
a2enmod phpx.x
systemctl reload apache2
```

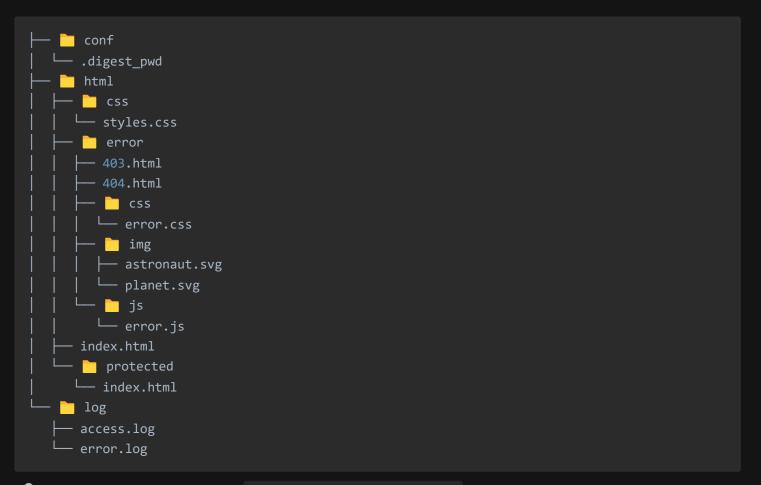
Web Hosting

Customer 1

CONFIG FILE - /etc/apache2/sites-available/webmaster.org.conf

```
<VirtualHost 10.0.34.2:80 10.0.34.2:12345>
   ServerName webmaster.org
   ServerAlias www.webmaster.org web.webmaster.org
   ServerAdmin admin@webmaster.org
   DocumentRoot /var/www/webmaster.org/html
   ErrorLog /var/www/webmaster.org/log/error.log
   CustomLog /var/www/webmaster.org/log/access.log combined
   ErrorDocument 404 /error/404.html
   ErrorDocument 403 /error/403.html
   Redirect permanent /docu-apache https://httpd.apache.org/docs/
    <Directory /var/www/webmaster.org>
       Options -Indexes
       AllowOverride All
       <RequireAll>
            Require all granted
            Require not ip 192.168.34
        </RequireAll>
    </Directory>
    <Directory /var/www/webmaster.org/html/protected>
       AuthType Digest
       AuthDigestProvider file
       AuthUserFile /var/www/webmaster.org/conf/.digest_pwd
       AuthName "secure"
       AuthDigestDomain /protected
       Require user alpha
   </Directory>
</VirtualHost>
```

■ DIRECTORY STRUCTURE - /var/www/webmaster.org



♠ ENABLING FTP ACCESS - Website publishing directory

- 1. Install ProFTPD apt install proftpd
- 2. Add this lines inside /etc/proftpd/proftpd.conf

```
DefaultRoot ~

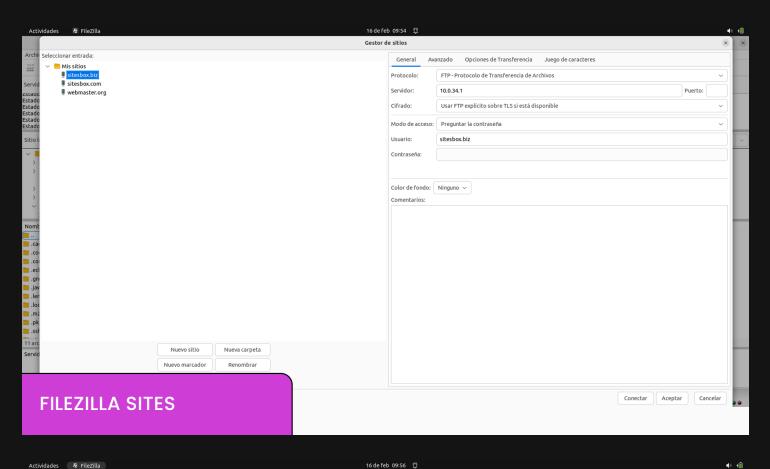
RequireValidShell off

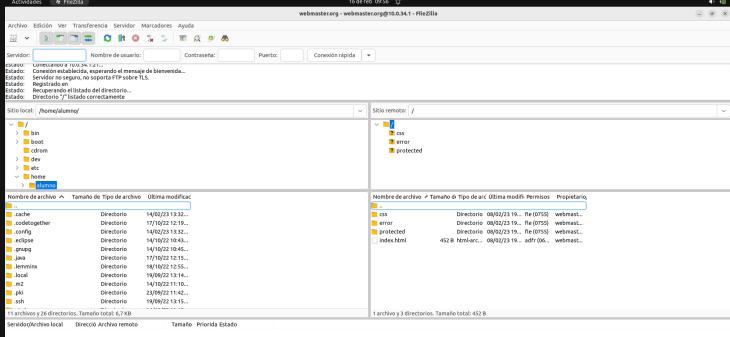
AuthUserFile /etc/proftpd/ftpd.passwd
```

3. Create a user for each customer with this command

```
ftpasswd --passwd --name=webmaster.org --uid=1001 --home=/var/www/webmaster.org/html --shell=/bin/false ftpasswd --passwd --name=sitesbox.biz --uid=1002 --home=/var/www/sitesbox.biz/html --shell=/bin/false ftpasswd --passwd --name=sitesbox.com --uid=1003 --home=/var/www/sitesbox.com/html --shell=/bin/false
```

4. Restart ProFTPD systemctl restart proftpd

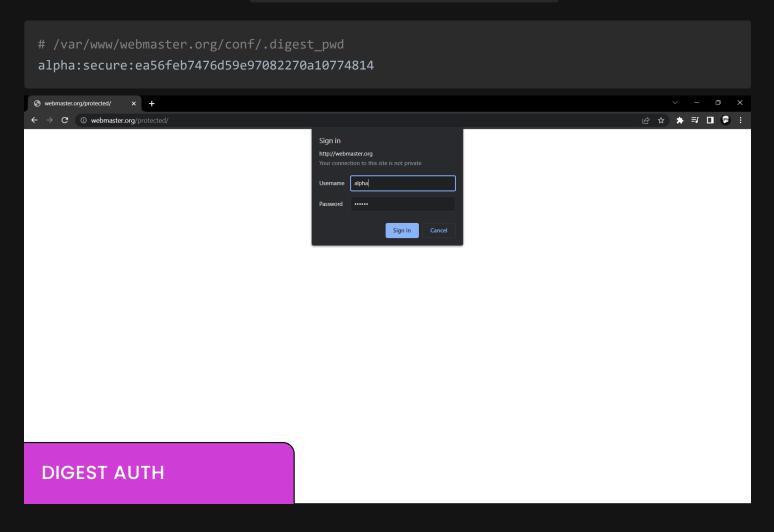


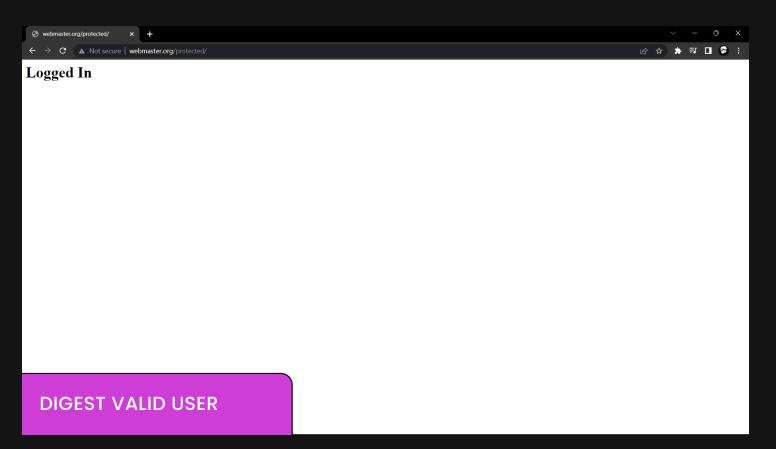


DIGEST AUTHENTICATION

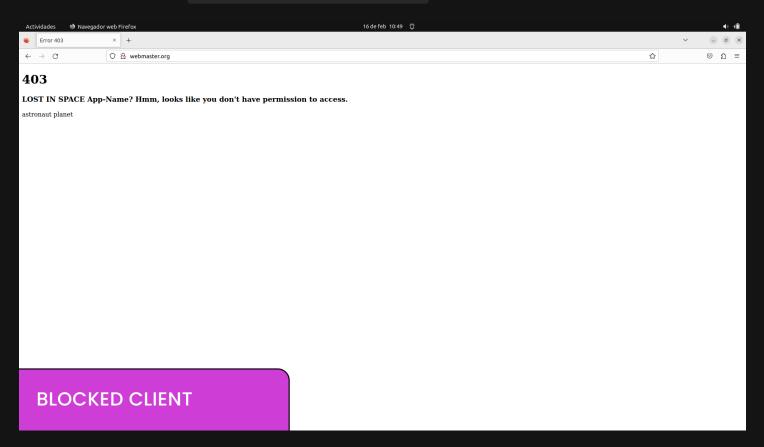
Enable auth_digest module

Create user with this command htdigest -c .digest_pwd "secure" "alpha"

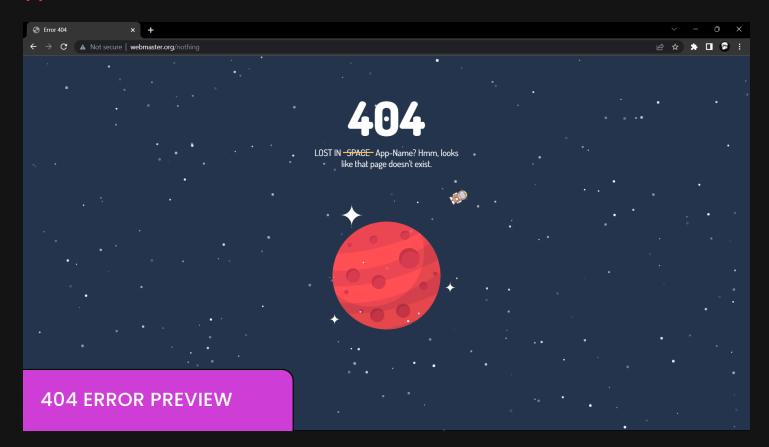


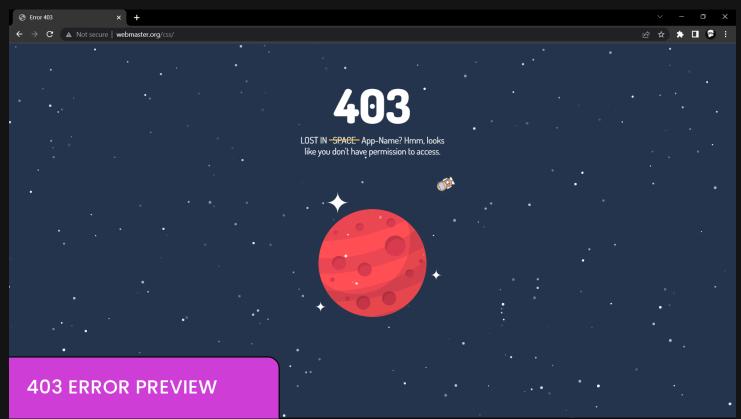


BLOCK ACCESS - Internal LAN access not allowed



X ERROR HANDLING





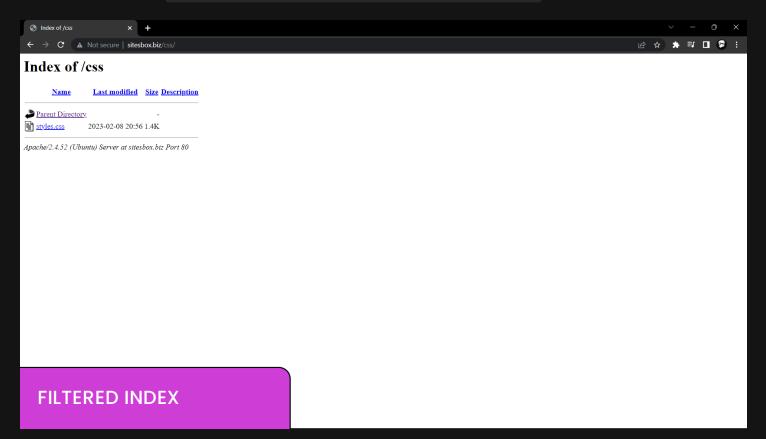
Customer 2

CONFIG FILE - /etc/apache2/sites-available/sitesbox.biz.conf

```
<VirtualHost 10.0.34.3:80>
   ServerName sitesbox.biz
   ServerAlias www.sitesbox.biz
   ServerAdmin www-admin@sitesbox.biz
   DocumentRoot /var/www/sitesbox.biz/html
   ErrorLog /var/www/sitesbox.biz/log/error.log
   CustomLog /var/www/sitesbox.biz/log/access.log combined
   DirectoryIndex main.html home.html
   <Directory /var/www/sitesbox.biz>
       Options +Indexes
       AllowOverride AuthConfig
       <FilesMatch "^ ">
           Require all denied
       </FilesMatch>
    </Directory>
</VirtualHost>
```

DIRECTORY STRUCTURE - /var/www/sitesbox.biz

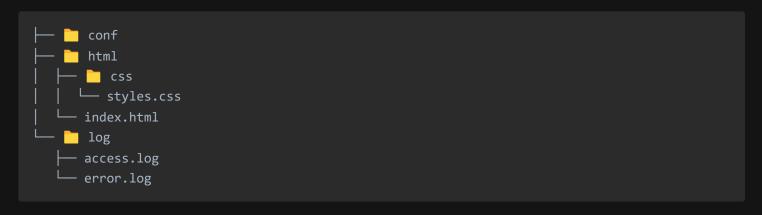
FILTER FILES - Files with leading caracter "_" will not be shown



Customer 3

CONFIG FILE - /etc/apache2/sites-available/sitesbox.com.conf

DIRECTORY STRUCTURE - /var/www/sitesbox.com

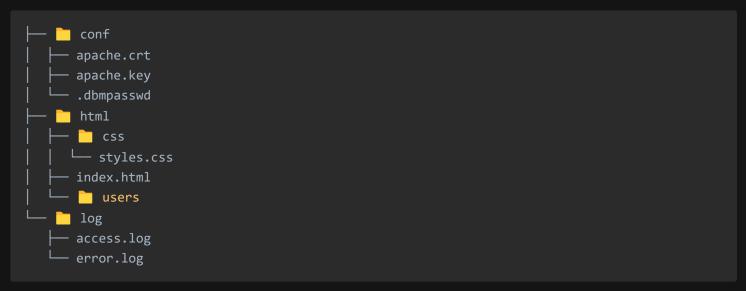


M Company Intranet

CONFIG FILE - /etc/apache2/sites-available/intranet.sitesbox.com.es.conf

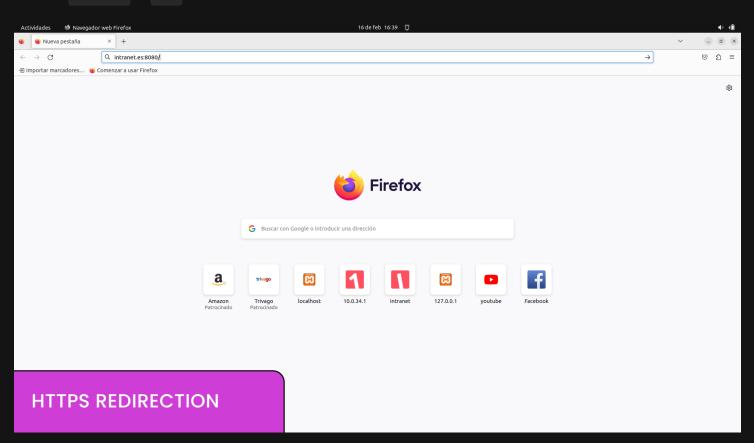
```
<VirtualHost 10.0.34.1:8080 10.0.34.1:443>
    ServerName intranet.sitesbox.com.es
    ServerAlias intranet.sitesbox.es intranet.es
    ServerAdmin www-admin@sitesbox.es
   DocumentRoot /var/www/intranet.sitesbox.com.es/html
    ErrorLog /var/www/intranet.sitesbox.com.es/log/error.log
    CustomLog /var/www/intranet.sitesbox.com.es/log/access.log combined
    RewriteEngine on
    RewriteCond %{HTTPS} off
    RewriteRule ^(.*)$ https://%{HTTP_HOST}%{REQUEST_URI} [L,R=301]
    SSLEngine on
    SSLOptions +StrictRequire
    SSLCertificateFile /var/www/intranet.sitesbox.com.es/conf/apache.crt
    SSLCertificateKeyFile /var/www/intranet.sitesbox.com.es/conf/apache.key
    <Directory /var/www/intranet.sitesbox.com.es>
       AuthType Basic
        AuthName "secure"
        AuthUserFile /var/www/intranet.sitesbox.com.es/conf/.dbmpasswd
        Require valid-user
        <RequireAll>
            Require all granted
            Require ip 192.168.34
        </RequireAll>
    </Directory>
</VirtualHost>
```

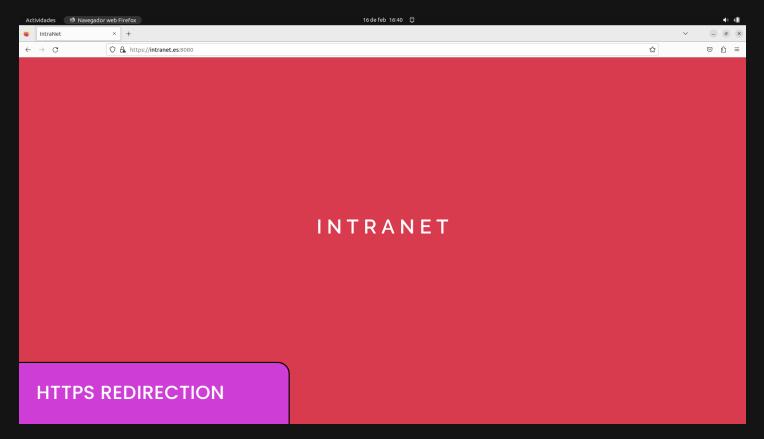
■ DIRECTORY STRUCTURE - /var/www/intranet.sitesbox.com.es



HTTPS REDIRECTION - Using the HTTP protocol with a SSL certificate

Enable rewrite & ssl modules



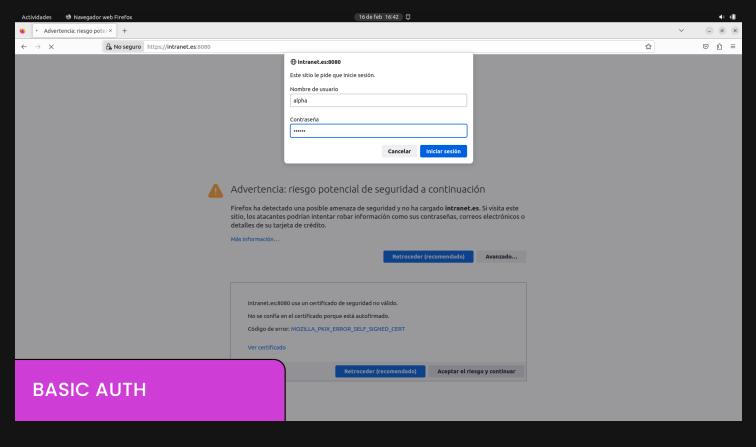


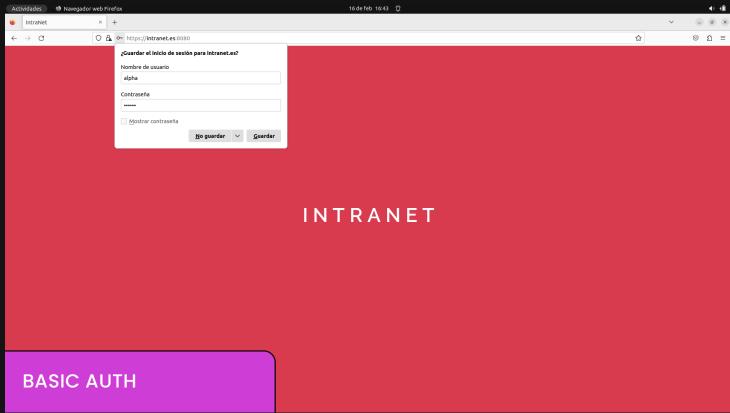
BASIC AUTHENTICATION

Enable auth_basic module

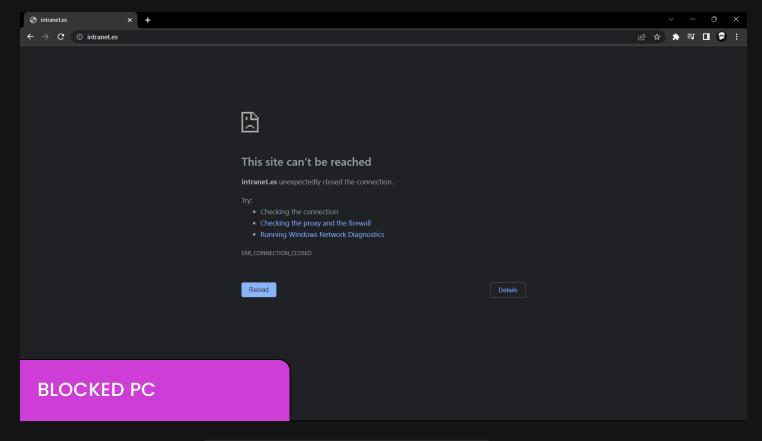
Create user with this command htpasswd -c .dbmpasswd "alpha"

/var/www/intranet.sitesbox.com.es/conf/.dbmpasswd alpha:\$apr1\$sExyHv7i\$McZX6brpq0.UI8CC2Wo91.





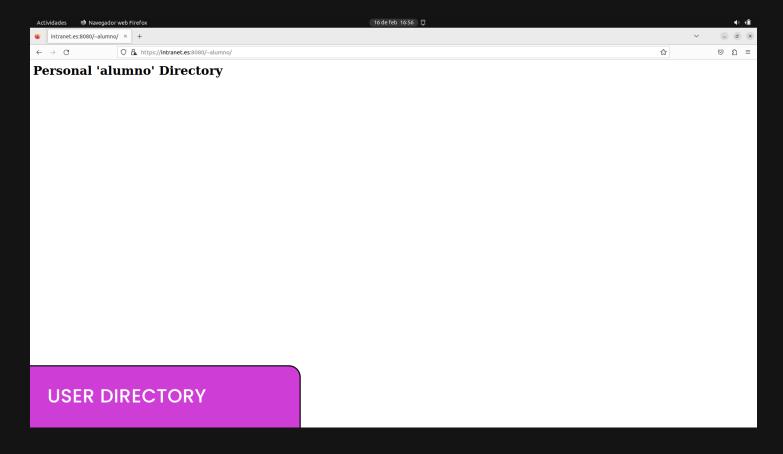
₱ BLOCK ACCESS - Internal LAN only access allowed



■ USER DIRECTORY - Personal website hosted on the server

Enable userdir module

Give permissions to personal folder chmod 755 /home/user/public_html



🔼 Linux Services

Apache

```
$ whereis apache2
apache2: /usr/sbin/apache2 /usr/lib/apache2 /etc/apache2 /usr/share/apache2 /usr/share/man/man8,
$ which apache2
/usr/sbin/apache2
$ ps -ef | grep apache2
root
                      1 0 15:49 ?
                                          00:00:00 /usr/sbin/apache2 -k start
www-data 71617
                    965 0 16:56 ?
                                          00:00:00 /usr/sbin/apache2 -k start
www-data 71618
                    965 0 16:56 ?
                                          00:00:00 /usr/sbin/apache2 -k start
www-data 71619
                                          00:00:00 /usr/sbin/apache2 -k start
                    965 0 16:56 ?
www-data 71620
                    965 0 16:56 ?
                                          00:00:00 /usr/sbin/apache2 -k start
www-data 71621
                    965 0 16:56 ?
                                          00:00:00 /usr/sbin/apache2 -k start
www-data 71749
                    965 0 16:56 ?
                                          00:00:00 /usr/sbin/apache2 -k start
```

ProFTPD

```
$ whereis proftpd
proftpd: /usr/sbin/proftpd /usr/lib/proftpd /etc/proftpd /usr/share/proftpd /usr/share/man/man8,
$ which apache2
/usr/sbin/proftpd
$ ps -ef | grep proftpd
proftpd 994 1 0 15:49 ? 00:00:00 proftpd: (accepting connections)
```