

DEPLOYMENT MANUAL



INDEX

INDEX	1
Server Preparation	2
Firewall:	3
Apache2 Installation	5
PHP installation	6
Mysql installation:	7
Apache configuration:	7
App configuration:	8
Filezilla:	16
Firewall configuration:	19
Additional configuration:	19

Server Preparation

Desplegament JobTo facilitate website management, user accounts will be established on the server. Please execute the following commands to create the necessary users:

```
sudo adduser usermaster
sudo adduser deploymaster
```

```
root@proven-projectes-05:~# sudo adduser usermaster
Adding user `usermaster' ...
Adding new group `usermaster' (1002) ...
Adding new user `usermaster' (1002) with group `usermaster' ...
Creating home directory `/home/usermaster' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for usermaster
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
root@proven-projectes-05:~# sudo adduser deploymaster
Adding user `deploymaster' ...
Adding new group `deploymaster' (1003) ...
Adding new user `deploymaster' (1003) with group `deploymaster' ...
Creating home directory `/home/deploymaster' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for deploymaster
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
```

To grant administrative privileges to the usermaster account, please execute the following command:

```
sudo usermod -aG sudo usermaster
```

```
Is the information correct? [Y/n] Y
root@proven-projectes-05:~# sudo usermod -aG sudo usermaster
root@proven-projectes-05:~#
```

Firewall:

To adjust the default configurations of the Uncomplicated Firewall (UFW), kindly execute the following command and access it using authenticated credentials:

```
sudo nano /etc/default/ufw
```

```
usermaster@proven-projectes-05:~$ sudo nano /etc/default/ufw
[sudo] password for usermaster:
```

```
usermaster@proven-projectes-05:~$
```

```
GNU nano 6.2 /etc/default/ufw
# /etc/default/ufw
#
# Set to yes to apply rules to support IPv6 (no means only IPv6 on loopback
# accepted). You will need to 'disable' and then 'enable' the firewall for
# the changes to take affect.
IPV6=yes
# Set the default input policy to ACCEPT, DROP, or REJECT. Please note that if
```

To set the default behavior of the Uncomplicated Firewall (UFW) to deny all incoming connections, please execute the following command:

```
sudo nano /etc/default/ufw
```

```
usermaster@proven-projectes-05:~$ sudo ufw default deny incoming
Default incoming policy changed to 'deny'
(be sure to update your rules accordingly)
usermaster@proven-projectes-05:~$
```

To permit all outgoing connections by default using the Uncomplicated Firewall (UFW), execute the following command:

```
sudo ufw default allow outgoing
```

```
usermaster@proven-projectes-05:~$ sudo ufw default allow outgoing
Default outgoing policy changed to 'allow'
(be sure to update your rules accordingly)
usermaster@proven-projectes-05:~$
```

To view the available application profiles that can be used with UFW (Uncomplicated Firewall), you can execute the following command:

```
sudo ufw app list
```

```
usermaster@proven-projectes-05:~$ sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
usermaster@proven-projectes-05:~$
```

To allow SSH connections through the firewall using UFW (Uncomplicated Firewall), execute the following commands for enable SSH and the port 22:

```
sudo ufw allow OpenSSH
```

```
usermaster@proven-projectes-05:~$ sudo ufw allow OpenSSH
Rule added
Rule added (v6)
usermaster@proven-projectes-05:~$
```

```
usermaster@proven-projectes-05:~$ sudo ufw allow 22
Rule added
Rule added (v6)
usermaster@proven-projectes-05:~$
```

Now, to confirm that all the above has been installed correctly along with our firewall settings, we will use the following command

```
sudo ufw show added
```

```
usermaster@proven-projectes-05:~$ sudo ufw show added
Added user rules (see 'ufw status' for running firewall):
ufw allow 22/tcp
ufw allow 443
ufw allow OpenSSH
ufw allow 22
```

Now, after confirming that we have everything we need configured in the firewall, we will enable it.

```
sudo ufw enable
```

```
usermaster@proven-projectes-05:~$ sudo ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
usermaster@proven-projectes-05:~$
```

Apache2 Installation

We will install Apache2 with the following command:

```
sudo ufw enable
```

```
usermaster@proven-projectes-05:~$ 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-lubuntu4.9).
0 upgraded, 0 newly installed, 0 to remove and 20 not upgraded.
usermaster@proven-projectes-05:~$
```

And we will verify that it works with a status command:

```
systemctl status apache2
```

```
apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor pres
Active: active (running) since Thu 2024-05-09 12:40:03 UTC; 19h ago
Docs: https://httpd.apache.org/docs/2.4/
Process: 726634 ExecStart=/usr/sbin/apachectl start (code=exited, status=0
Process: 733527 ExecReload=/usr/sbin/apachectl graceful (code=exited, stat
Main PID: 726638 (apache2)
Tasks: 10 (limit: 2244)
Memory: 72.6M
CPU: 43.388s
CGroup: /system.slice/apache2.service
├─726638 /usr/sbin/apache2 -k start
├─733591 /usr/sbin/apache2 -k start
├─733592 /usr/sbin/apache2 -k start
├─733593 /usr/sbin/apache2 -k start
├─733594 /usr/sbin/apache2 -k start
├─733595 /usr/sbin/apache2 -k start
├─734110 /usr/sbin/apache2 -k start
├─737614 /usr/sbin/apache2 -k start
├─737615 /usr/sbin/apache2 -k start
└─739303 /usr/sbin/apache2 -k start
lines 1-21/21 (END)
```

PHP installation

Next, we will install PHP with all the necessary extensions, ensuring that its version is 8.1:

```
sudo apt install -y php8.1 php8.1-mcrypt php8.1-gd php8.1-curl php8.1-mysql php8.1-zip php8.1-xml php8.1-soap php8.1-intl php8.1-mbstring php8.1-bcmath
```

```
usermaster@proven-projectes-05:~$ sudo apt install -y php8.1 php8.1-mcrypt php8.1-gd php8.1-curl php8.1-mysql php8.1-zip php8.1-xml php8.1-soap php8.1-intl php8.1-mbstring php8.1-bcmath
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
php8.1 is already the newest version (8.1.28-1ubuntu22.04.1+deb.sury.org+1).
The following packages were automatically installed and are no longer required:
  libapache2-mod-php8.2 php8.2-cli php8.2-common php8.2-opcache php8.2-readline
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libapache2-mod-php8.1 php8.1-cli php8.1-common php8.1-opcache php8.1-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  php8.1-bcmath php8.1-gd php8.1-intl php8.1-mbstring php8.1-mcrypt php8.1-soap php8.1-xml php8.1-zip
The following packages will be upgraded:
  libapache2-mod-php8.1 php8.1-cli php8.1-common php8.1-curl php8.1-mysql php8.1-opcache php8.1-readline
7 upgraded, 8 newly installed, 0 to remove and 29 not upgraded.
Need to get 5,882 kB of archives.
After this operation, 2,571 kB of additional disk space will be used.
Get:1 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-opcache amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [371 kB]
Get:2 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-readline amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [13.6 kB]
Get:3 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-cli amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [1,847 kB]
Get:4 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 libapache2-mod-php8.1 amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [1,777 kB]
Get:5 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-mysql amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [130 kB]
Get:6 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-curl amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [38.7 kB]
Get:7 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-common amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [724 kB]
Get:8 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-mcrypt amd64 3:1.0.7-1ubuntu22.04.1+deb.sury.org+1 [18.0 kB]
Get:9 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-bcmath amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [16.8 kB]
Get:10 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-gd amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [53.1 kB]
Get:11 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-intl amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [144 kB]
Get:12 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-mbstring amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [487 kB]
Get:13 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-soap amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [132 kB]
Get:14 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-xml amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [123 kB]
Get:15 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 php8.1-zip amd64 8.1.28-1ubuntu22.04.1+deb.sury.org+1 [27.1 kB]
Fetched 5,882 kB in 4s (1,558 kB/s)
```

usermaster@proven-projectes-05: ~

Package configuration

Daemons using outdated libraries

Which services should be restarted?

<input checked="" type="checkbox"/>	apache-htcacheclean.service
<input checked="" type="checkbox"/>	apache2.service
<input checked="" type="checkbox"/>	atd.service
<input checked="" type="checkbox"/>	cron.service
<input type="checkbox"/>	dbus.service
<input type="checkbox"/>	getty@tty1.service
<input checked="" type="checkbox"/>	multipathd.service
<input checked="" type="checkbox"/>	mysql.service
<input type="checkbox"/>	networkd-dispatcher.service
<input checked="" type="checkbox"/>	packagekit.service
<input checked="" type="checkbox"/>	polkit.service
<input checked="" type="checkbox"/>	qemu-guest-agent.service
<input checked="" type="checkbox"/>	rsyslog.service
<input checked="" type="checkbox"/>	serial-getty@ttyS0.service
<input checked="" type="checkbox"/>	ssh.service
<input checked="" type="checkbox"/>	systemd-journald.service
<input type="checkbox"/>	systemd-logind.service
<input checked="" type="checkbox"/>	systemd-networkd.service

<Ok> <Cancel>

Mysql installation:

Now we will install MySQL with the following command:

```
sudo apt install mysql-server mysql-client
```

```
usermaster@proven-projectes-05:~$ sudo apt install mysql-server mysql-client
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
mysql-client is already the newest version (8.0.36-0ubuntu0.22.04.1).
mysql-server is already the newest version (8.0.36-0ubuntu0.22.04.1).
0 upgraded, 0 newly installed, 0 to remove and 20 not upgraded.
usermaster@proven-projectes-05:~$
```

And restart both the Apache2 and PHP services to apply the changes:

```
sudo systemctl restart apache2
sudo systemctl restart mysql
```

```
usermaster@proven-projectes-05:~$ sudo systemctl restart apache2
usermaster@proven-projectes-05:~$ sudo systemctl restart mysql
```

Apache configuration:

Now we will configure our website with the following configuration, then we will enable and disable the default style:

```
sudo nano /etc/apache2/sites-available/jobmaster.conf
sudo a2ensite jobmaster.conf
sudo a2dissite 000-default.conf
```



```

usermaster@proven-projectes-05:/var/www/html$ sudo mv index.html index1.html
usermaster@proven-projectes-05:/var/www/html$ sudo systemctl restart apache2.service
usermaster@proven-projectes-05:/var/www/html$ sudo nano /etc/apache2/sites-available/jobmaster.conf
usermaster@proven-projectes-05:/var/www/html$ sudo systemctl restart apache2.service
usermaster@proven-projectes-05:/var/www/html$ sudo nano /etc/apache2/sites-available/jobmaster.conf
usermaster@proven-projectes-05:/var/www/html$ sudo systemctl restart apache2.service
usermaster@proven-projectes-05:/var/www/html$ sudo nano /etc/apache2/sites-available/jobmaster.conf
usermaster@proven-projectes-05:/var/www/html$ sudo a2ensite 000-default.conf
Enabling site 000-default.
To activate the new configuration, you need to run:
    systemctl reload apache2
usermaster@proven-projectes-05:/var/www/html$ sudo systemctl restart apache2.service
usermaster@proven-projectes-05:/var/www/html$ sudo ufw status
Status: active

To Action From
--
22/tcp ALLOW Anywhere
443 ALLOW Anywhere
OpenSSH ALLOW Anywhere
22 ALLOW Anywhere
22/tcp (v6) ALLOW Anywhere (v6)
443 (v6) ALLOW Anywhere (v6)
OpenSSH (v6) ALLOW Anywhere (v6)
22 (v6) ALLOW Anywhere (v6)

```

Once done, we will restart Apache2 service to apply the changes.

```
sudo systemctl restart apache2.service
```

```
sudo systemctl restart apache2.service
```

App configuration:

Now we will configure the permissions and owner of the application with the following commands to allow Apache to access and save changes to the directory and files in /var/www/html/jobmaster:

```

sudo chown www-data:www-data jobmaster/
sudo chmod -R 755 jobmaster/
cd jobmaster/
sudo chmod -R 777 storage/
sudo chmod -R 777 bootstrap/

```

```

usermaster@proven-projects-05:/var/www/html$ sudo chown www-data:www-data jobmaster/
usermaster@proven-projects-05:/var/www/html$ sudo chmod -R 755 jobmaster/
usermaster@proven-projects-05:/var/www/html$ cd jobmaster/
usermaster@proven-projects-05:/var/www/html/jobmaster$ sudo chmod -R 777 storage/
usermaster@proven-projects-05:/var/www/html/jobmaster$ sudo chmod -R 777 bootstrap/
usermaster@proven-projects-05:/var/www/html/jobmaster$ ls -l
total 408
drwxr-xr-x  8 usermaster usermaster  4096 May  9 11:46 app
-rwxr-xr-x  1 usermaster usermaster  1686 May  9 11:46 artisan
drwxrwxrwx  3 usermaster usermaster  4096 May  9 11:46 bootstrap
-rwxr-xr-x  1 usermaster usermaster  1916 May  9 11:46 composer.json
-rwxr-xr-x  1 usermaster usermaster 307521 May  9 11:56 composer.lock
drwxr-xr-x  2 usermaster usermaster  4096 May  9 11:46 config
drwxr-xr-x  5 usermaster usermaster  4096 May  9 11:46 database
-rwxr-xr-x  1 usermaster usermaster   248 May  9 11:46 package.json
-rwxr-xr-x  1 usermaster usermaster  35077 May  9 11:46 package-lock.json
-rwxr-xr-x  1 usermaster usermaster  1134 May  9 11:46 phpunit.xml
drwxr-xr-x  3 usermaster usermaster  4096 May  9 11:46 public
-rwxr-xr-x  1 usermaster usermaster  4109 May  9 11:46 README.md
drwxr-xr-x  5 usermaster usermaster  4096 May  9 11:46 resources
drwxr-xr-x  2 usermaster usermaster  4096 May  9 11:46 routes
drwxrwxrwx  5 usermaster usermaster  4096 May  9 11:46 storage
drwxr-xr-x  4 usermaster usermaster  4096 May  9 11:47 tests
drwxr-xr-x 42 usermaster usermaster  4096 May  9 11:56 vendor
-rwxr-xr-x  1 usermaster usermaster   263 May  9 11:46 vite.config.js

```

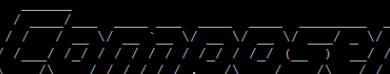
Now we will install Composer to be able to use Laravel in our project:

```
sudo php /tmp/composer-setup.php --install-dir=/usr/local/bin --filename=composer
```

```
usermaster@proven-projects-05:/var/www/html/jobmaster$ sudo php /tmp/composer-setup.php --install-dir=/usr/local/bin --filename=composer
All settings correct for using Composer
Downloading...

Composer (version 2.7.6) successfully installed to: /usr/local/bin/composer
Use it: php /usr/local/bin/composer

usermaster@proven-projects-05:/var/www/html/jobmaster$ composer



Composer version 2.7.6 2024-05-04 23:03:15

Usage:
    command [options] [arguments]

Options:
    -h, --help                Display help for the given command. When no command is given display help for the list command
    -q, --quiet               Do not output any message
    -V, --version              Display this application version
    --ansi|--no-ansi          Force (or disable --no-ansi) ANSI output
    -n, --no-interactive       Do not ask any interactive question
    --profile                 Display timing and memory usage information
    --no-plugins              Whether to disable plugins.
    --no-scripts              Skips the execution of all scripts defined in composer.json file.
    -d, --working-dir=WORKING-DIR If specified, use the given directory as working directory.
```

We are going to occupy a domain in this case we buy it from this page.

<https://secure.piensasolutions.com/>

We configure DNS with the IP of our server



First, we go to the website and navigate to the domain section, then we go to the control panel to configure our DNS



Once inside, we go to DNS entry:

Entrada DNS	Tipo	Valor	Modificar
<input type="checkbox"/> 1715284907084_domainkey.jobmaster.es	TXT	v=DkIM1: k=rsa: p=MIIBSjANBgkqhkiG9w0BAQEFAAOCAQIAMIIBcGICAQEAg3QLB4RzMLvhd4y3gBCX(1htFoPqV/ k44MHtNu3Gq4YIYA+skIWad+DF9Vejw/h7)TLMdxc1RFJ87BubX9B33AUNBHOL2vE10a10m3I KzHG1d481ZC6s/DH7/Q42S2LoYrphInaG1+mUJOpezhMkxs2StoLDVY3f102B8eyuoMORy FZ4fR0pvcSC48P0wPv58PovkFmepu8Brc4b5y55auVr+mC1h0MCAZ/2v3LkVW0rmQ0LD KIKDjSHgQNGKtuxOpqGM9/GKNIYKICkYm3Bg2Dazk8nsc1RvG7Hrc8SKOPvMEHks3Q5S5QI D4Q4B	
<input type="checkbox"/> autoconfig.jobmaster.es	CNAME	autoconfig.buzondecorreo.com	
<input type="checkbox"/> autodiscover.jobmaster.es	CNAME	autodiscover.buzondecorreo.com	
<input type="checkbox"/> control.jobmaster.es	CNAME	pdg.piensasolutions.com	
<input type="checkbox"/> ftp.jobmaster.es	CNAME	www.jobmaster.es	
<input type="checkbox"/> jobmaster.es	A	157.90.119.199	
<input type="checkbox"/> jobmaster.es	MX 10	mx.buzondecorreo.com	
<input type="checkbox"/> jobmaster.es	SPF	v=spf1 include:_spf.buzondecorreo.com ~all	
<input type="checkbox"/> panel.jobmaster.es	CNAME	pdg.piensasolutions.com	
<input type="checkbox"/> webmail.jobmaster.es	CNAME	buzondecorreo.com	

We go to certificate data:

Certificado de Seguridad
SSL1604870

[Panel de Control](#) > **Datos del certificado**

 **Certificado validado**
El dominio del certificado ha sido validado por la entidad certificadora y ya lo puedes instalar en tu hosting.

DATOS DEL CERTIFICADO
Tipo de validación: Validación de nombre de dominio
Tipo de certificado: SSL Basic
Dominio: jobmaster.es
Método de validación: Por DNS

And we will see that our certificate is valid. It can take up to 3 days for the certificate to be validated

SOPORTE TÉCNICO

- [Centro de Ayuda](#)
- [Email Soporte](#)
- [Petición Área de cliente](#)

Certificado de Seguridad
SSL1604870

[Panel de Control](#)

CERTIFICADOS SSL
 [Datos del certificado](#)
 [Operaciones certificado](#)

ADMINISTRACIÓN/CONFIGURACIÓN
 [Contraseña Panel](#)

Once the above is done, we need to download the SSL certificate, so we go to certificate operations:

Certificado de Seguridad
SSL1604870

[Panel de Control](#) > **Operaciones certificado**

 [Descargar SSL](#)

Dominio del certificado	Estado	Tipo de validación	Instalar	Redirección HTTPS ↑
jobmaster.es	Activo	DNS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

And we click on 'Download SSL:

DESCARGAR SSL

Descargar certificado

Desde este apartado puedes descargar el certificado en diferentes formatos: pfx, p12, cer, crt y pem.
Para instalar el certificado en operativos Linux, necesitarás la clave privada.
Los archivos pfx y p12 contienen la clave privada y para instalarlos te pedirá una contraseña de importación que tienes que indicar a continuación.

☒ cer, crt y pem (solo contienen la clave pública)
☐ pfx y p12 (contienen la clave pública y privada)

Descargar certificado

Descargar clave privada

La clave privada es necesaria para la instalación del certificado en ciertos operativos.
Recuerda guardar la clave en un lugar seguro (por ejemplo, en forma cifrada en el disco duro de un PC).
La clave privada se utiliza para añadir una firma digital a todas las comunicaciones seguras enviadas por el usuario, por lo que si se ve comprometida, toda la seguridad del sitio web y sus usuarios se verá comprometida.

Descargar clave privada

Once here, we click on the first option, and the download will start.

Once we have configured both the DNS and the SSL, we have everything we need to start setting up the website

```
usermaster@proven-projectes-05: /etc/apache2/sites-available
GNU nano 6.2
VirtualHost *:80>
    ServerName jobmaster.es
    ServerAlias www.jobmaster.es

    Redirect permanent / https://jobmaster.es/
/VirtualHost>

VirtualHost *:443>
    ServerName jobmaster.es
    ServerAlias www.jobmaster.es

    DocumentRoot /var/www/html/jobmaster/public

    <Directory /var/www/html/jobmaster/public>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

    ErrorLog /var/log/apache2/error.log
    CustomLog /var/log/apache2/access.log combined

    SSLEngine on
    SSLCertificateKeyFile /etc/ssl/private/SSL1604870.priv
    SSLCertificateFile /etc/ssl/private/SSL1604870.pem
/VirtualHost>
```

We enable the SSL modules and rewrite.

```
usermaster@proven-projectes-05:/etc/apache2/sites-available$ sudo a2enmod ssl
Considering dependency setenvif for ssl:
Module setenvif already enabled
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
usermaster@proven-projectes-05:/etc/apache2/sites-available$

usermaster@proven-projectes-05:/etc/apache2/sites-available$ sudo a2enmod rewrite
Module rewrite already enabled
usermaster@proven-projectes-05:/etc/apache2/sites-available$
```

Now we restart Apache:

```
usermaster@proven-projectes-05:/etc/apache2/sites-available$ sudo systemctl restart apache2.service
usermaster@proven-projectes-05:/etc/apache2/sites-available$
```

Now we will configure the folder where the project will be located. In /var/www/html, we create a folder using mkdir, and with chmod and chown, we grant permissions.

```
usermaster@proven-projectes-05:/etc/apache2/sites-available$ sudo ls -l /var/www/html/
total 16
-rw-r--r-- 1 root root 10671 Apr 11 12:01 index1.html
drwxr-xr-x 13 www-data www-data 4096 May 10 09:59 jobmaster
usermaster@proven-projectes-05:/etc/apache2/sites-available$
```

Now we compile Angular:

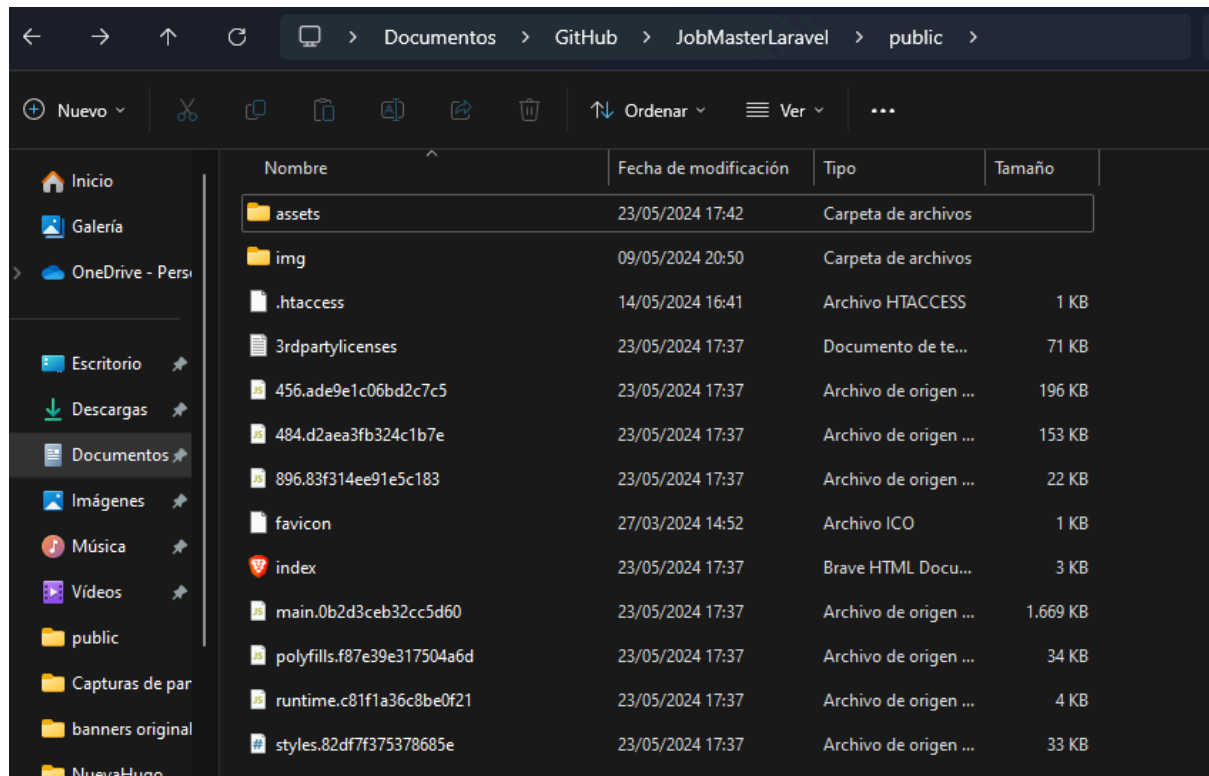
```
PS C:\Users\ades7\OneDrive\Documentos\GitHub\JobMasterAngular> ng build
✓ Browser application bundle generation complete.
✓ Copying assets complete.
✓ Index html generation complete.

Initial Chunk Files | Names | Raw Size | Estimated Transfer Size
main.0b2d3ceb32cc5d60.js | main | 1.63 MB | 360.92 kB
polyfills.f87e39e317504a6d.js | polyfills | 33.04 kB | 10.64 kB
styles.82df7f375378685e.css | styles | 32.17 kB | 4.92 kB
runtime.c81f1a36c8be0f21.js | runtime | 3.22 kB | 1.50 kB
| Initial Total | 1.70 MB | 377.98 kB

Lazy Chunk Files | Names | Raw Size | Estimated Transfer Size
456.ade9e1c06bd2c7c5.js | html2canvas | 195.37 kB | 36.65 kB
484.d2aea3fb324c1b7e.js | canvg | 152.08 kB | 43.24 kB
896.83f314ee91e5c183.js | dompurify | 21.74 kB | 7.65 kB

Build at: 2024-05-23T15:37:44.923Z - Hash: e3ec0b174b138f2d - Time: 8375ms
PS C:\Users\ades7\OneDrive\Documentos\GitHub\JobMasterAngular>
```

Now we are going to copy these files generated in the 'dist' folder to the public folder of our Laravel backend



Then we edit the .htaccess file with the following text, which will allow Angular, Laravel, and Apache:

```
RewriteEngine On

# Handle Authorization Header (laravel)
RewriteCond %{HTTP:Authorization} .
RewriteRule .* - [E=HTTP_AUTHORIZATION:%{HTTP:Authorization}]

# If an existing asset or directory is requested go to it as it is
RewriteCond %{DOCUMENT_ROOT}%{REQUEST_URI} -f [OR]
RewriteCond %{DOCUMENT_ROOT}%{REQUEST_URI} -d
RewriteRule ^ - [L]

# routes starting per api are redirected to index.php (for laravel)
RewriteRule ^(api/.*) /index.php [NC,L]

# If the requested resource doesn't exist, use index.html (angular)
RewriteRule ^ /index.html
```


Filezilla:

Now we are going to compress all the files of the backend, excluding the vendor folder, and using FileZilla, we will transfer them to the server (it is important to enable permissions 777 for the project folder to transfer the files with FileZilla; once finished, we delete it again)

First, we log in with our credentials to the server:

Servidor:	sftp://157.90.119.19	Nombre de usuario:	usermaster	Contraseña:	●●●●●●●●	Puerto:		Conexión rápida
Estado:	Conectando a 157.90.119.199...							
Estado:	Using username "usermaster".							
Estado:	Connected to 157.90.119.199							
Estado:	Recuperando el listado del directorio...							
Estado:	Listing directory /home/usermaster							
Estado:	Directorio "/home/usermaster" listado correctamente							

We upload both the Angular and Laravel files from FileZilla to the paths 'var/www/html/jobmaster':

Nombre de archivo	Tamaño de...	Tipo de archivo	Última modificación
git		Carpeta de archivos	27/03/2024 14:46:34
ApiLaravel		Carpeta de archivos	09/05/2024 18:30:51
JobMasterAngular		Carpeta de archivos	23/05/2024 17:37:44
JobMasterLaravel		Carpeta de archivos	23/05/2024 15:26:40
LaravelUPC		Carpeta de archivos	01/03/2024 21:22:08
ProvenUpLaravel		Carpeta de archivos	07/03/2024 19:04:22
ProyectoUPC		Carpeta de archivos	27/03/2024 14:43:59
SevidorUPC		Carpeta de archivos	27/03/2024 14:44:03
ViajoProyecto		Carpeta de archivos	23/02/2024 17:19:56
JobMasterLaravel.zip	39.946.990	Carpeta compresión...	23/05/2024 17:46:47

Nombre de archivo	Tamaño d...	Tipo de arc...	Última modifi...	Permisos	Propietario/...
database.zip	1.471.528	Carpeta co...	11/05/2024 05...	-rwxrwxrwx	usermaster...
JobMasterLaravel.zip	39.946.990	Carpeta co...	23/05/2024 17...	-rwxrwxrwx	usermaster...

Sitio local: C:\Users\lades7\OneDrive\Documents\GitHub\

Sitio remoto: /var/www/html/jobmaster

Nombre de archivo	Tamaño de...	Tipo de archivo	Última modificación
git		Carpeta de archivos	27/03/2024 14:46:34
ApiLaravel		Carpeta de archivos	09/05/2024 18:30:51
JobMasterAngular		Carpeta de archivos	23/05/2024 17:37:44
JobMasterLaravel		Carpeta de archivos	23/05/2024 15:26:40
LaravelUPC		Carpeta de archivos	01/03/2024 21:22:08
ProvenUpLaravel		Carpeta de archivos	07/03/2024 19:04:22
ProyectoUPC		Carpeta de archivos	27/03/2024 14:43:59
SevidorUPC		Carpeta de archivos	27/03/2024 14:44:03
ViajoProyecto		Carpeta de archivos	23/02/2024 17:19:56
JobMasterLaravel.zip	39.946.990	Carpeta compresión...	23/05/2024 17:46:47

Nombre de archivo	Tamaño d...	Tipo de arc...	Última modifi...	Permisos	Propietario/...
git		Carpeta de...	23/05/2024 19...	-rwxrwxr-x	usermaster...
app		Carpeta de...	08/05/2024 19...	-rwxrwxr-x	usermaster...
bootstrap		Carpeta de...	30/04/2024 19...	-rwxrwxr-x	usermaster...
config		Carpeta de...	30/04/2024 19...	-rwxrwxr-x	usermaster...
database		Carpeta de...	11/04/2024 19...	-rwxrwxr-x	usermaster...
public		Carpeta de...	23/05/2024 19...	-rwxrwxr-x	usermaster...
resources		Carpeta de...	29/03/2024 19...	-rwxrwxr-x	usermaster...
routes		Carpeta de...	21/05/2024 19...	-rwxrwxr-x	usermaster...
storage		Carpeta de...	29/03/2024 19...	-rwxrwxr-x	usermaster...
tests		Carpeta de...	29/03/2024 19...	-rwxrwxr-x	usermaster...
vendor		Carpeta de...	11/04/2024 19...	-rwxrwxr-x	usermaster...
editorconfig	258	Archivo de...	12/02/2024 20...	-rwxrwxr-x	usermaster...
env	1.289	Archivo ENV	18/05/2024 02...	-rwxrwxr-x	usermaster...
env.example	1.166	Archivo EX...	23/05/2024 19...	-rwxrwxr-x	usermaster...
gitattributes	186	Archivo de...	12/02/2024 20...	-rwxrwxr-x	usermaster...
gitignore	369	Archivo de...	23/05/2024 17...	-rwxrwxr-x	usermaster...
artisan	1.686	Archivo	12/02/2024 20...	-rwxrwxr-x	usermaster...
composer.json	1.916	Archivo de...	30/04/2024 20...	-rwxrwxr-x	usermaster...
composer.lock	309.210	Archivo L.O...	21/05/2024 19...	-rwxrwxr-x	usermaster...
database.zip	1.471.528	Carpeta co...	11/05/2024 05...	-rwxrwxrwx	usermaster...
JobMasterLaravel.zip	39.946.990	Carpeta co...	23/05/2024 17...	-rwxrwxr-x	usermaster...
package-lock.json	35.077	Archivo de...	11/04/2024 19...	-rwxrwxr-x	usermaster...
package.json	248	Archivo de...	11/04/2024 19...	-rwxrwxr-x	usermaster...
phpunit.xml	1.134	Archivo de...	12/02/2024 20...	-rwxrwxr-x	usermaster...
README.md	4.109	Archivo de...	12/02/2024 20...	-rwxrwxr-x	usermaster...
vite.config.js	263	Archivo de...	12/02/2024 20...	-rwxrwxr-x	usermaster...

archivo y 9 directorios. Tamaño total: 39.946.990 bytes

15 archivos y 11 directorios. Tamaño total: 41.775.429 bytes

Herramienta Recortes

Captura de pantalla copiada en el Portapapeles y guardada. Selección aquí para marcar y compartir.

```
usermaster@proven-proyectos-05:/var/www/html/jobmaster$ unzip JobMasterLaravel.zip
```

We unzip the folder and give permissions to the storage and bootstrap folders:

```
usermaster@proven-projectes-05:/var/www/html/jobmaster$ sudo chmod -R 777 storage/
usermaster@proven-projectes-05:/var/www/html/jobmaster$ sudo chmod -R 777 storage
usermaster@proven-projectes-05:/var/www/html/jobmaster$ sudo chmod -R 777 bootstrap/
usermaster@proven-projectes-05:/var/www/html/jobmaster$ sudo chmod -R 777 bootstrap
usermaster@proven-projectes-05:/var/www/html/jobmaster$
```

We update Composer:

```
usermaster@proven-projectes-05:/var/www/html/jobmaster$ composer update
Composer is operating significantly slower than normal because you do not have the PHP curl extension enabled
Loading composer repositories with package information
```

Once installed, we will enter the jobmaster folder and open the .env file. We will configure it so that the database username and password match to connect to our project, as well as our mail configuration for our password recovery section:

```
sudo nano .env
```

```
usermaster@proven-projectes-05:/var/www/html/jobmaster$ sudo nano .env
```

```

usermaster@proven-projects-05: /var/www/html/jobmaster
GNU nano 6.2 .env
APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:dnbH/aJtdhd7Dxp//hOcu5QgRmfOA7DDvHYmu/pBgdl=
APP_DEBUG=true
APP_URL=http://localhost

LOG_CHANNEL=stack
LOG_DEPRECATIONS_CHANNEL=null
LOG_LEVEL=debug

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=jobmaster
DB_USERNAME=root
DB_PASSWORD=Mnbvcxz12@

BROADCAST_DRIVER=log
CACHE_DRIVER=file
FILESYSTEM_DISK=local
QUEUE_CONNECTION=sync
SESSION_DRIVER=file
SESSION_LIFETIME=120

MEMCACHED_HOST=127.0.0.1

REDIS_HOST=127.0.0.1
REDIS_PASSWORD=null
REDIS_PORT=6379

MAIL_MAILER=smtp
MAIL_HOST=smtp.mailtrap.io
MAIL_PORT=2525
MAIL_USERNAME=6877c26369e0e6
MAIL_PASSWORD=c7fa3e8982015f
MAIL_ENCRYPTION=tls
MAIL_FROM_ADDRESS="hello@example.com"
MAIL_FROM_NAME="${APP_NAME}"

AWS_ACCESS_KEY_ID=
AWS_SECRET_ACCESS_KEY=
AWS_DEFAULT_REGION=us-east-1
AWS_BUCKET=
AWS_USE_PATH_STYLE_ENDPOINT=false

PUSHER_APP_ID=
PUSHER_APP_KEY=
PUSHER_APP_SECRET=
PUSHER_HOST=
PUSHER_PORT=443
PUSHER_SCHEME=https
PUSHER_APP_CLUSTER=mt1

VITE_APP_NAME="${APP_NAME}"
VITE_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
VITE_PUSHER_HOST="${PUSHER_HOST}"
VITE_PUSHER_PORT="${PUSHER_PORT}"
VITE_PUSHER_SCHEME="${PUSHER_SCHEME}"

```

Then we run a composer update to update the dependencies of our application:

```
composer update
```

```

usermaster@proven-projects-05:/var/www/html/jobmaster$ composer update
Composer is operating significantly slower than normal because you do not have the PHP curl extension enabled.
Loading composer repositories with package information

```

Next, we will perform the migrations to create our database with the migrate command:

```
php artisan migrate --seed
```

```
usermaster@proven-projectes-05:/var/www/html/jobmaster$ php artisan migrate

[WARN] The database 'jobmaster' does not exist on the 'mysql' connection.

Would you like to create it? 
Yes

[INFO] Preparing database.

Creating migration table ..... 19ms DONE

[INFO] Running migrations.

2019_12_14_000001_create_personal_access_tokens_table ..... 54ms DONE
2024_03_29_161646_create_users_table ..... 32ms DONE
2024_04_07_063806_create_addresses_table ..... 15ms DONE
2024_04_07_064203_create_companies_table ..... 56ms DONE
2024_04_08_105709_create_employees_table ..... 154ms DONE
2024_04_09_064625_create_clients_table ..... 71ms DONE
2024_04_09_064850_create_invoices_table ..... 105ms DONE
2024_04_09_065141_create_concepts_table ..... 63ms DONE
2024_04_09_065528_create_attendances_table ..... 48ms DONE
2024_04_09_070115_create_documents_table ..... 55ms DONE
2024_04_09_070832_create_absences_table ..... 102ms DONE
2024_04_09_071328_create_incidents_table ..... 56ms DONE
2024_04_09_072702_create_schedules_table ..... 97ms DONE
2024_05_07_085350_create_password_resets_table ..... 16ms DONE

usermaster@proven-projectes-05:/var/www/html/jobmaster$ php artisan migrate:fresh --seed
```

Firewall configuration:

We will execute the following command to allow traffic through the HTTP port via the firewall, and in the status, we will verify that it works correctly:

```
sudo ufw allow 80
sudo ufw status
```

```
usermaster@proven-projectes-05:/var/www/html$ sudo ufw allow 80
Rule added
Rule added (v6)
usermaster@proven-projectes-05:/var/www/html$ sudo ufw status
Status: active

To Action From
--
22/tcp ALLOW Anywhere
443 ALLOW Anywhere
OpenSSH ALLOW Anywhere
22 ALLOW Anywhere
80 ALLOW Anywhere
22/tcp (v6) ALLOW Anywhere (v6)
443 (v6) ALLOW Anywhere (v6)
OpenSSH (v6) ALLOW Anywhere (v6)
22 (v6) ALLOW Anywhere (v6)
80 (v6) ALLOW Anywhere (v6)
```

Additional configuration:

We will also set up a rewrite to manipulate the URL correctly and apply the changes by restarting the Apache2 service:

```
sudo a2enmod rewrite
```

```
usermaster@proven-projectes-05:/var/www/html$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
  systemctl restart apache2
usermaster@proven-projectes-05:/var/www/html$ sudo systemctl restart apache2.service
```

Next, we enter MySQL as root and search for our database. We select it to use it with the use command:

```
sudo mysql -u root -p
show database
use jobmaster
```

```
usermaster@proven-projectes-05:/var/www/html$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| jobmaster |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.02 sec)

mysql> use jobmaster
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from users;
+-----+-----+-----+-----+-----+-----+
| id | nif | password | roles | created_at | updated_at |
+-----+-----+-----+-----+-----+-----+
| 1 | admin | $2y$12$THV4e/2WIkS8juXh9.Fy2Omz0V48Gr80xUpzItl3SxqW.nK/TtPtO | admin | 2024-05-09 12:00:23 | 2024-05-09 12:00:23 |
| 2 | 01368701V | $2y$12$1aT8EfXoB6e7IOec907DV0u/p4AwIHnkr5IKdr9zCMGs0V84jbU86 | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 3 | 18899602L | $2y$12$UShFBEeSeq4abGXzoXkdPuknjv7Y98E6YZql0C.H6o9XzIF2JH810 | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 4 | 94265700Q | $2y$12$Ypde1.9tbHzLH.7H6iDWMOC3PpMYy.vOdm1qW7PoX5hUE/8bNH9i | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 5 | Y0529175Z | $2y$12$I1lak8Xvm58Madc8Z2ZyDe8SU54RZggwnnF8RoYtNbRzxp9yPnm | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 6 | 06224443E | $2y$12$omPyggJB3GeexE4bipFOXeUgByNDZhi.WOR1e.QjAXbqqj.Cm/DOy | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 7 | Y8908969B | $2y$12$4pxN3KVa8haBMQqw9GqTB.XHcf/3zpcrd0sgz2kU6h7F0TRaIktOG | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 8 | Y9898416K | $2y$12$1p7Lxt7nKJfnhp7PgV9syuelcJrARZ8xiflxNLEiqOU.Fvv6tohgS | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 9 | Y4462209W | $2y$12$WzCzgRpgLwlKSvo6kiXRuO162V/rFl3R0cAjcv08hOqM2Bqgm2BHC | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 10 | 18186750Y | $2y$12$MdJjnrIbr8OnjieN1jIDNeKXJwGg0vDQgKbaLSghC5yYEFBoe1.Zi | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
| 11 | 66399452Q | $2y$12$QfVWlvcyTHMbs7uNtCIj9.6avvb.g/159ONHSZRYH1Mn5TzYOUwTy | empleado | 2024-05-09 12:00:26 | 2024-05-09 12:00:26 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

Finally, we will use the following command to specify the version of PHP as 8.1:


```
COMPOSER_ALLOW_SUPERUSER=1 php8.1 /usr/local/bin/composer update
```


```

usermaster@proven-projectes-05:/var/www/html/jobmaster$ COMPOSER_ALLOW_SUPERUSER=1 php8.1 /usr/local/bin/composer update
Loading composer repositories with package information
Updating dependencies
Lock file operations: 0 installs, 5 updates, 0 removals
  - Downgrading lcobucci/clock (3.2.0 => 3.0.0)
  - Downgrading symfony/css-selector (v7.0.7 => v6.4.7)
  - Downgrading symfony/event-dispatcher (v7.0.7 => v6.4.7)
  - Downgrading symfony/string (v7.0.7 => v6.4.7)
  - Downgrading symfony/yaml (v7.0.7 => v6.4.7)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 0 installs, 5 updates, 0 removals
  - Downloading symfony/string (v6.4.7)
  - Downloading symfony/css-selector (v6.4.7)
  - Downloading symfony/event-dispatcher (v6.4.7)
  - Downloading symfony/yaml (v6.4.7)
  - Downloading lcobucci/clock (3.0.0)
  - Downgrading symfony/string (v7.0.7 => v6.4.7): Extracting archive
  - Downgrading symfony/css-selector (v7.0.7 => v6.4.7): Extracting archive
  - Downgrading symfony/event-dispatcher (v7.0.7 => v6.4.7): Extracting archive
  - Downgrading symfony/yaml (v7.0.7 => v6.4.7): Extracting archive
  - Downgrading lcobucci/clock (3.2.0 => 3.0.0): Extracting archive
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump

```

Once configured, if we access our IP configured in the jobmaster.conf file, we will see our page working:

 No es seguro 157.90.119.199



JOB MASTER

NIF

Contraseña

Mostrar

Iniciar Sesión

¿Olvidaste tu contraseña?

And it will also be possible to see through the domain jobmaster.es:

jobmaster.es



JOB MASTER

NIF

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