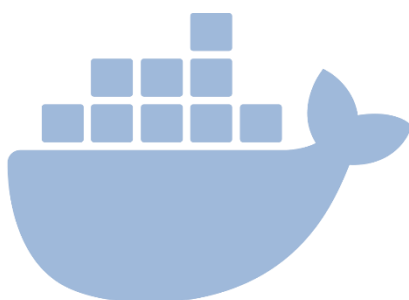




INTRODUCCIÓ A DOCKER

Activitats avaluables 01



docker®

20 DE SEPTEMBRE, 2021
SISTEMES DE GESTIÓ EMPRESARIAL
Cassandra Sowa Candela

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Kubernetes

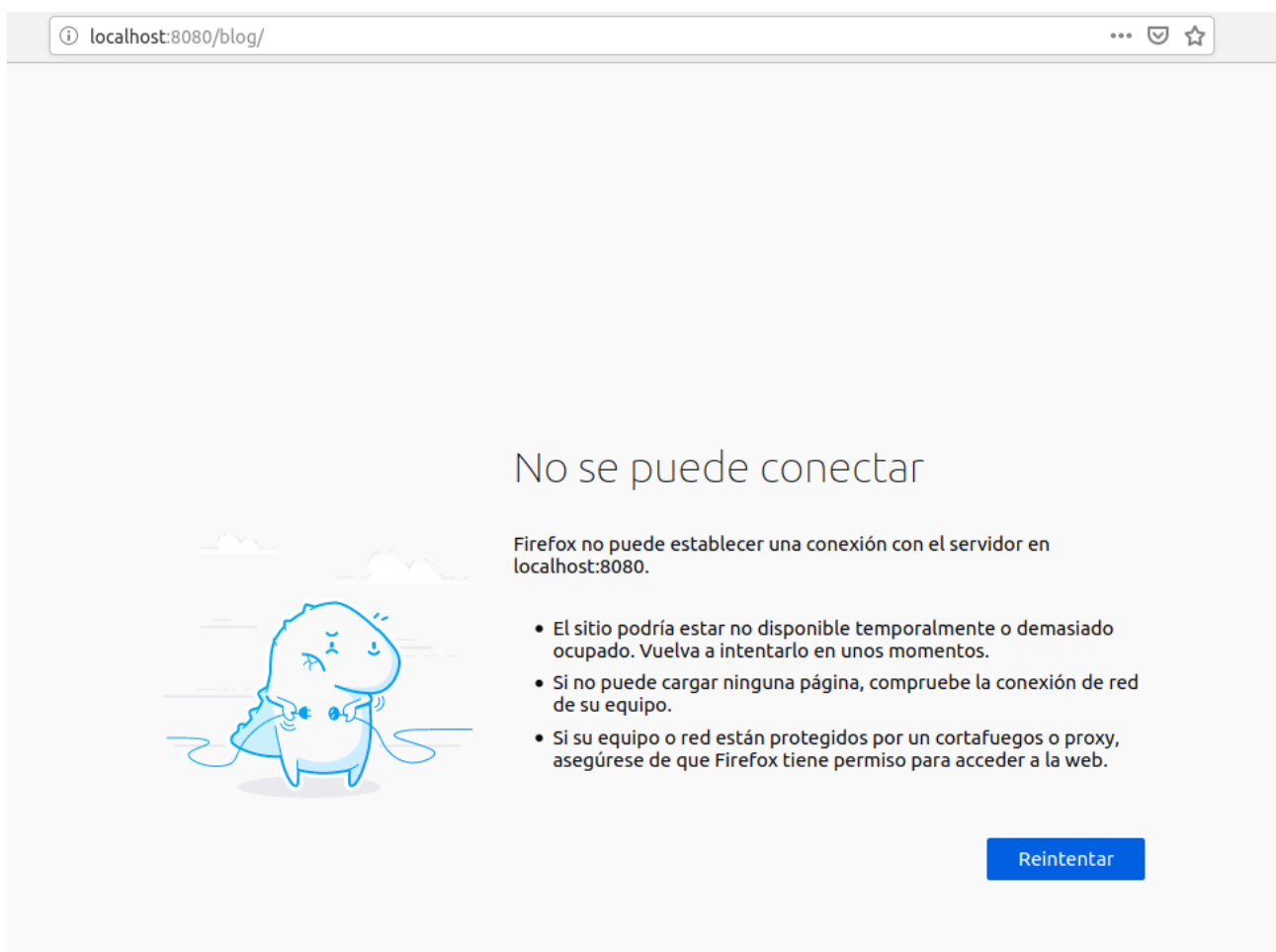
Què és Kubernetes?

Kubernetes que és un programari de open source per la qual cosa és gratis i tothom pot utilitzar-lo. Aquest programari ens ajuda a automatitzar els contenidors de docker i maximitzar les capacitats dels contenidors distribuïm-los d'una manera lògica i eficient. A més, els processos poden executar-se constantment. Kubernetes és la millor manera d'administrar contenidors!

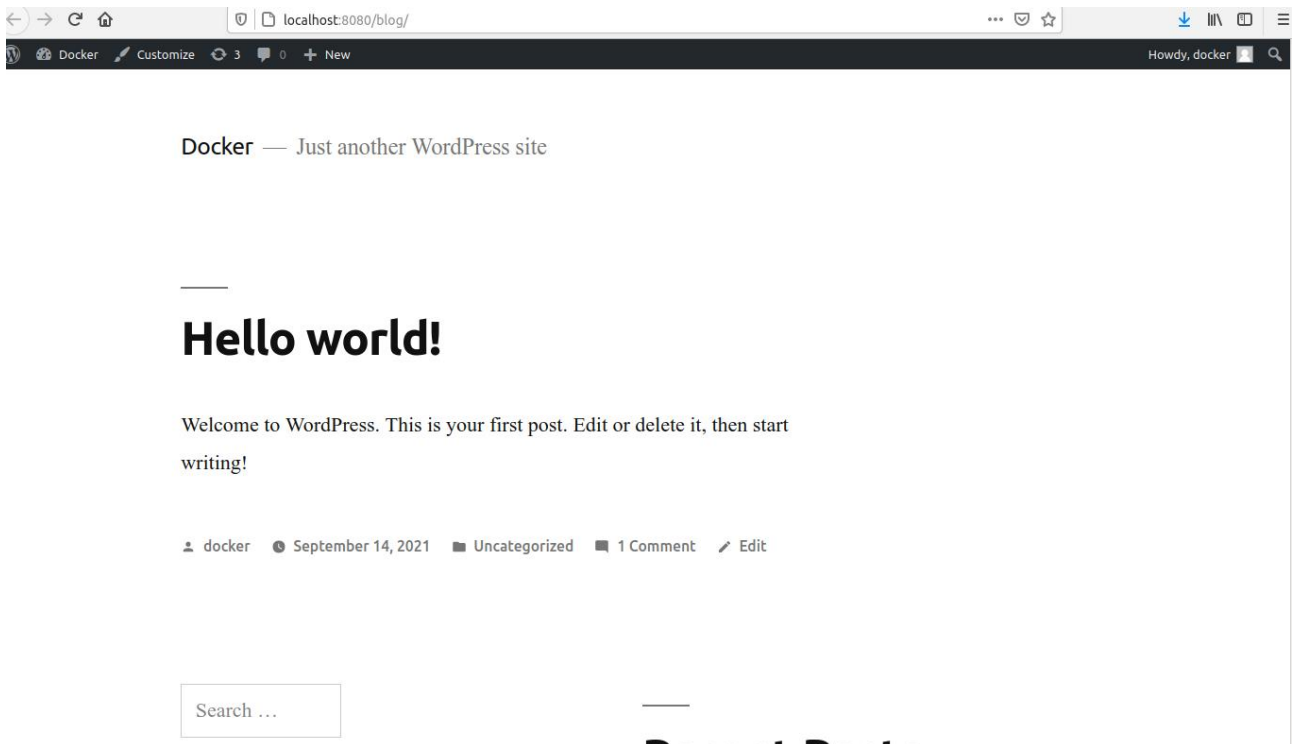
Part 3

Cas pràctic 02 – Instal·lant LAMP + Wordpress a un contenidor

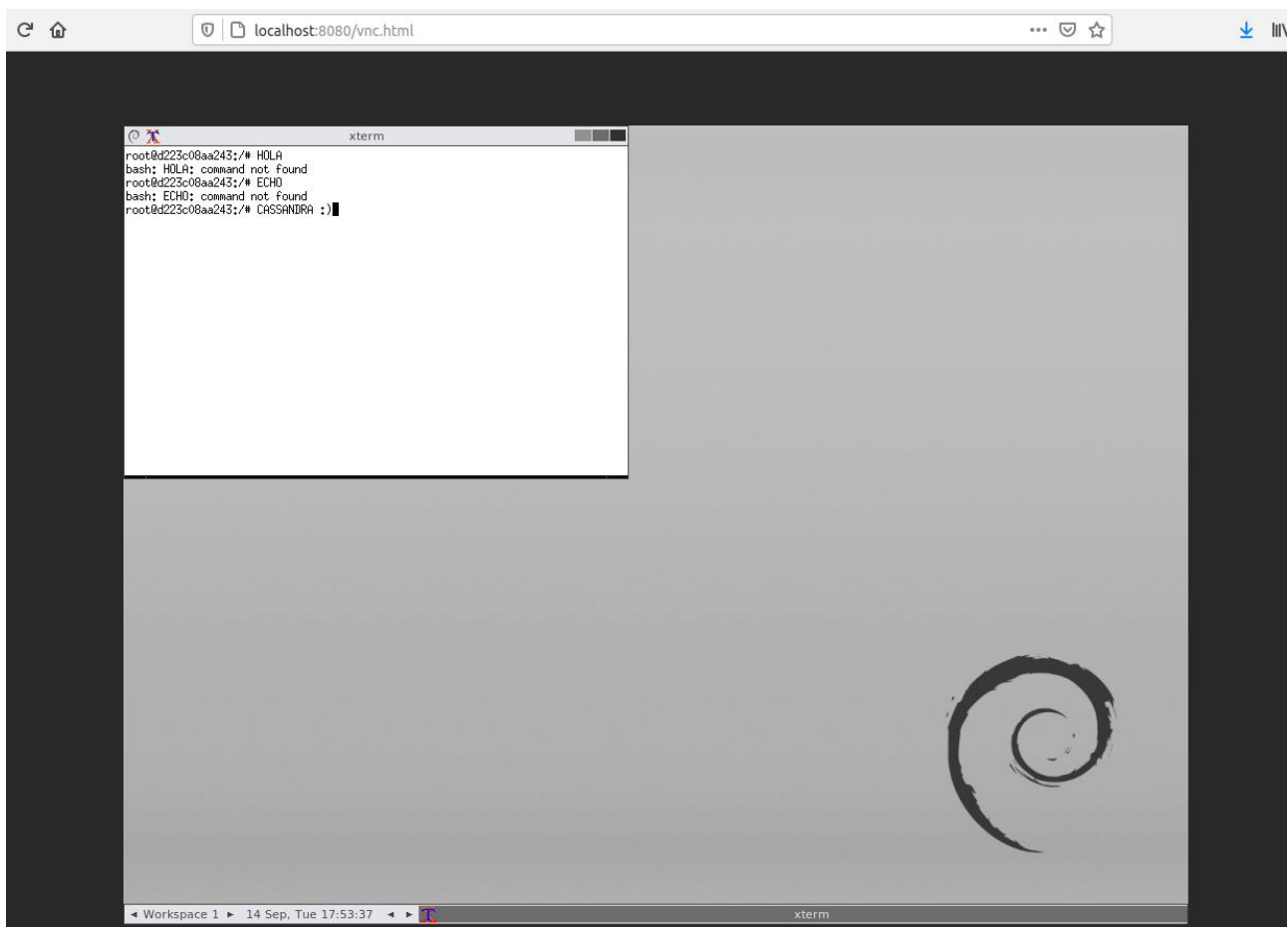
Quan docker està parat podem veure això:



I quan usem el comando **docker start LAMP** i recarreguem el lloc web, veiem açò:



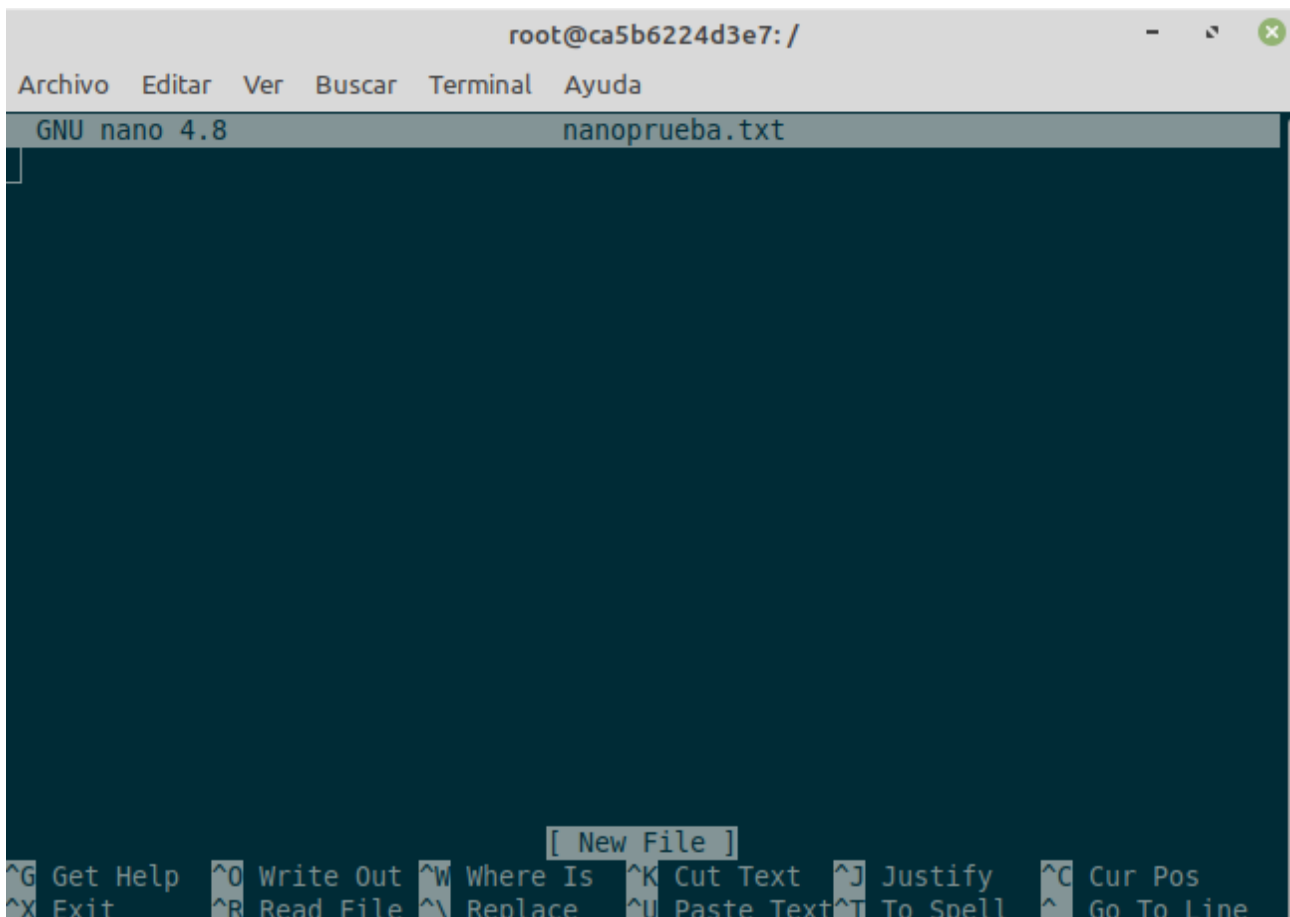
Cas pràctic 03 – Accedint a la interfice gràfica amb NoVNC



Part 4

Cas pràctic 1 – Creant imatge Ubuntu amb nano

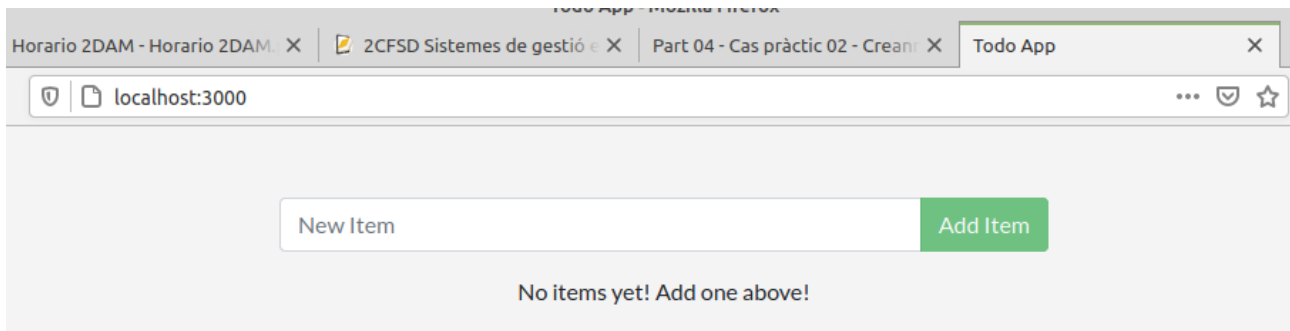
```
2dam@inf2:~/Documentos/ubuntuano$ docker run -it ubuntu nano
root@ca5b6224d3e7:/# nano nanoprueba.txt
```



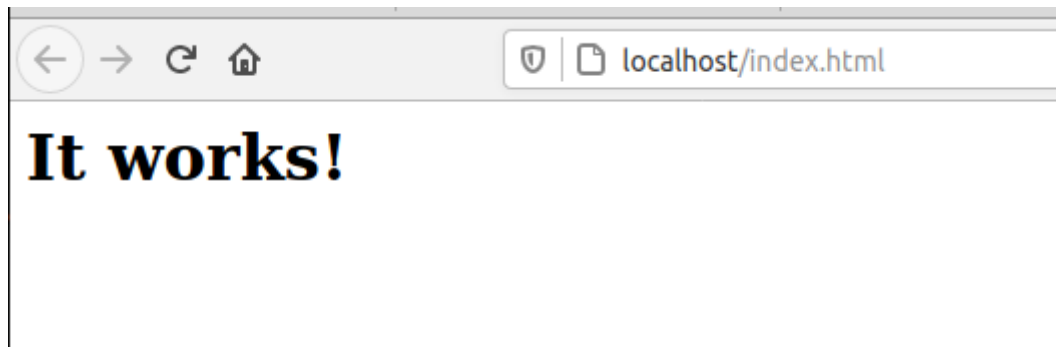
Cas pràctic 2 – Crear Imatge amb APP en NODE

```
2dam@inf2:~/Documentos/sampledocker/app$ docker run -dp 3000:3000 sampledocker
fa1975b2a3a8ae5fcd457391785f179a9533179de66ae457b5113453b86187c8
```

Després d'açò, si anem a <http://localhost:3000/> apareix açò:



Cas pràctic 3 – Apache2 amb PHP usant Alpine



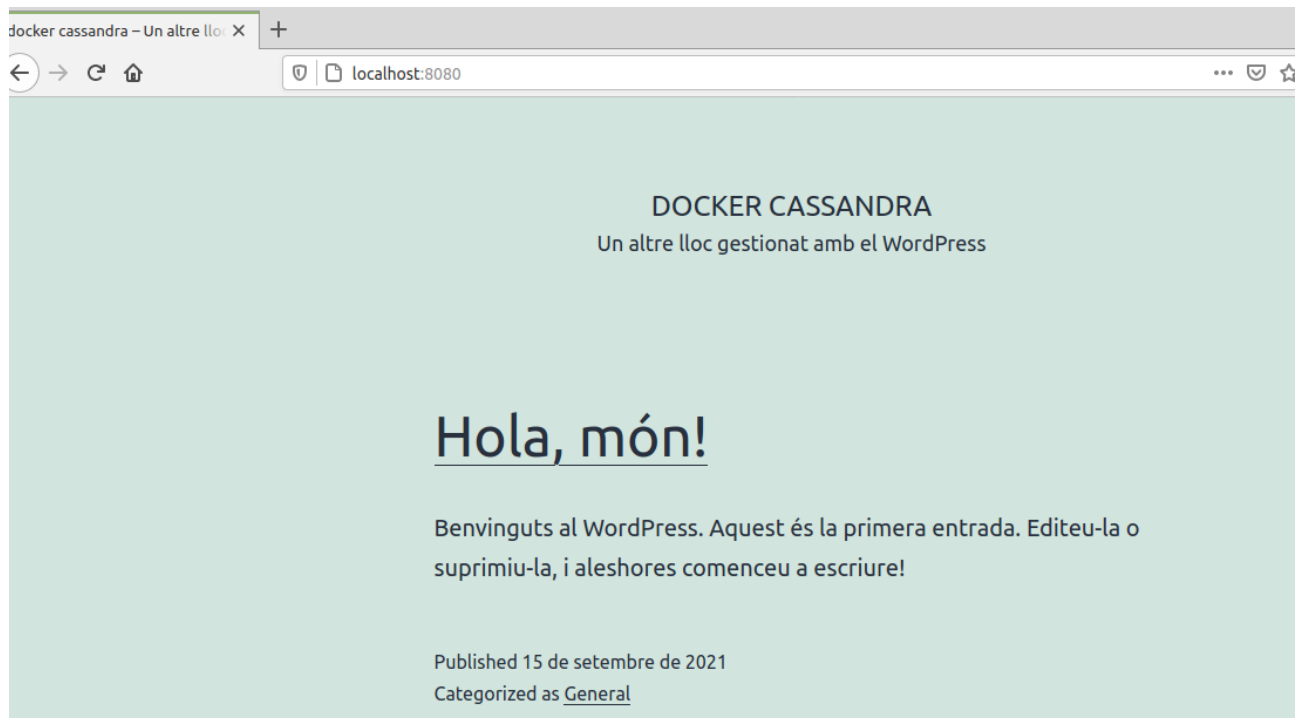
PHP Version 7.4.23



System	Linux 6cd0e2130fe8 5.4.0-26-generic #30-Ubuntu SMP Mon Apr 20 16:58:30 UTC 2020 x86_64
Build Date	Aug 26 2021 23:05:01
Configure Command	./configure '--build=x86_64-alpine-linux-musl' '--host=x86_64-alpine-linux-musl' '--prefix=/usr' '--program-suffix=7' '--libdir=/usr/lib/php7' '--datadir=/usr/share/php7' '--sysconfdir=/etc/php7' '--localstatedir=/var' '--with-layout=GNU' '--with-pic' '--with-config-file-path=/etc/php7' '--with-config-file-scan-dir=/etc/php7/conf.d' '--disable-short-tags' '--enable-bcmath=shared' '--with-bz2=shared' '--enable-calendar=shared' '--enable-ctype=shared' '--with-curl=shared' '--enable-dba=shared' '--with-dbmaker=shared' '--with-gdbm' '--with-lmdb' '--enable-dom=shared' '--with-enchanted=shared' '--enable-exif=shared' '--with-ffi=shared' '--enable-fileinfo=shared' '--enable-ftp=shared' '--enable-gd=shared' '--with-freetype' '--with-jpeg' '--with-webp' '--with-xpm' '--disable-gd-jis-conv' '--with-gettext=shared' '--with-gmp=shared' '--with-iconv=shared' '--with-imap=shared' '--with-imap-ssl' '--enable-intl=shared' '--enable-json=shared' '--with-ldap=shared' '--with-ldap-sasl' '--with-libedit' '--with-libxml' '--enable-mbstring=shared' '--with-mysqli=shared,mysqlnd' '--with-mysql-sock=/run/mysqld/mysqld.sock' '--enable-mysqlnd=shared' '--enable-openssl=shared' '--with-openssl=shared' '--with-kerberos' '--with-system-ciphers' '--with-password-argon2' '--enable-pcntl=shared' '--with-external-pcre' '--enable-pdo=shared' '--with-pdo-dblib=shared' '--with-pdo-mysql=shared,mysqlnd' '--with-pdo-odbc=shared,unixODBC,/usr' '--with-pdo-pgsql=shared' '--with-pdo-sqlite=shared' '--with-pgsql=shared' '--enable-phar=shared' '--enable-posix=shared' '--with-pspell=shared' '--without-readline' '--enable-session=shared' '--enable-shmop=shared' '--enable-simplexml=shared' '--with-snmp=shared' '--enable-soap=shared' '--with-sodium=shared' '--enable-sockets=shared' '--with-sqlite3=shared' '--enable-sysvmsg=shared' '--enable-sysvsem=shared' '--enable-sysvshm=shared' '--with-tidy=shared' '--enable-tokenizer=shared' '--with-unixODBC=shared,/usr' '--enable-xml=shared' '--enable-xmlreader=shared' '--with-xmlrpc=shared' '--enable-xmlwriter=shared' '--with-xsl=shared' '--with-zip=shared' '--with-zlib' '--disable-phpdbg' '--disable-cgi' '--disable-cli' '--with-apxs2' 'build_alias=x86_64-alpine-linux-musl' 'host_alias=x86_64-alpine-linux-musl'
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php7
Loaded Configuration File	/etc/php7/php.ini
Scan this dir for additional .ini files	/etc/php7/conf.d
Additional .ini files parsed	(none)

Part 5

Cas pràctic 01 – Wordpress + MySQL



Part 6

Cas pràctic 01 – Wordpress amb Docker Compose

```
2dam@inf2: ~/Documentos/CasoPractico1-Wordpress
Archivo  Editar  Ver  Buscar  Terminal  Ayuda

2dam@inf2:~/Documentos$ cd CasoPractico1-Wordpress/
2dam@inf2:~/Documentos/CasoPractico1-Wordpress$ docker-compose up -d
Creating network "casopractico1-wordpress_default" with the default driver
Creating volume "casopractico1-wordpress_db_data" with default driver
Creating casopractico1-wordpress_db_1 ... done
Creating casopractico1-wordpress_wordpress_1 ... done
2dam@inf2:~/Documentos/CasoPractico1-Wordpress$ docker-compose down
Stopping casopractico1-wordpress_wordpress_1 ... done
Stopping casopractico1-wordpress_db_1 ... done
Removing casopractico1-wordpress_wordpress_1 ... done
Removing casopractico1-wordpress_db_1 ... done
Removing network casopractico1-wordpress_default
2dam@inf2:~/Documentos/CasoPractico1-Wordpress$ docker-compose up -d
Creating network "casopractico1-wordpress_default" with the default driver
Creating casopractico1-wordpress_db_1 ... done
Creating casopractico1-wordpress_wordpress_1 ... done
2dam@inf2:~/Documentos/CasoPractico1-Wordpress$
```

Part 7


Cas pràctic 1 – Desenvolupant amb Visual Studio Code en un contenidor

phpinfo() - Mozilla Firefox

07 - Cas pràctic 0 X 2CFS D Sistemes d X Curso "Introducción a X UD 07.01 - Caso pract X phpinfo() X 403 Forbidden


localhost:8080

PHP Version 7.2.34

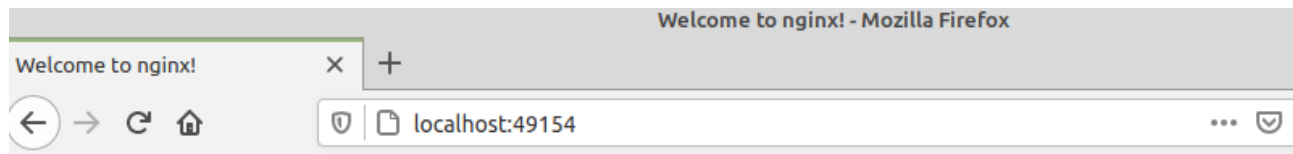


System	Linux b7a2d5f79b9f 5.4.0-26-generic #30-Ubuntu SMP Mon Apr 20 16:58:30 UTC 2020 x86_64
Build Date	Dec 11 2020 10:50:00
Configure Command	'./configure' '--build=x86_64-linux-gnu' '--with-config-file-path=/usr/local/etc/php' '--with-config-file-scan-dir=/usr/local/etc/php/conf.d' '--enable-option-checking=fatal' '--with-mhash' '--with-pic' '--enable-ftp' '--enable-mbstring' '--enable-mysqlnd' '--with-password-argon2' '--with-sodium=shared' '--with-pdo-sqlite=/usr' '--with-sqlite3=/usr' '--with-curl' '--with-libedit' '--with-openssl' '--with-zlib' '--with-libdir=lib/x86_64-linux-gnu' '--with-apxs2' '--disable-cgi' 'build_alias=x86_64-linux-gnu'
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/usr/local/etc/php
Loaded Configuration File	(none)
Scan this dir for additional .ini files	/usr/local/etc/php/conf.d
Additional .ini files parsed	/usr/local/etc/php/conf.d/docker-php-ext-sodium.ini
PHP API	20170718
PHP Extension	20170718
Zend Extension	320170718
Zend Extension Build	API320170718,NTS
PHP Extension Build	API20170718,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2
Registered Stream Filters	zlib.*, convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk

This program makes use of the Zend Scripting Language Engine:
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies



Cas pràctic 2 – Gestionant Docker amb Portalner CE



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.