

In the technical test condition, there is a condition of "ready-to-use". I avoided any ready-made containers with WordPress.

I have 2 options, but I recommend the last one (it's more automated). I used Windows 10 Pro + VirtualBox + ubuntu-22.04.1-live-server-amd64.iso.

=====> #1 <=====

On the virtual machine, the following must be done:

```
# Install docker
sudo apt-get update
sudo apt-get install docker.io
sudo systemctl start docker

# Check docker
# sudo systemctl status docker

# Run container
sudo docker run --name expim-web -p 80:80 -d ubuntu:20.04 apache2

# Check apache2
# curl http://localhost

# Cconnection with expim-web
sudo docker exec -it expim-web /bin/bash
```

Further actions will be within expim-web.

```
# Get MySQL+PHP
apt-get update
apt-get install -y mysql-server php libapache2-mod-php php-mysql

# Get WordPress
wget https://wordpress.org/latest.tar.gz
tar -xvzf latest.tar.gz
mv wordpress /var/www/html/

# Create a db
mysql -u root -p <<EOF
CREATE DATABASE wordpress;
GRANT ALL PRIVILEGES ON expimwp.* TO 'expimuser'@'localhost' IDENTIFIED BY
'pw_for_db';
FLUSH PRIVILEGES;
EOF

# Config for WP
echo "<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html/wordpress
    ServerName localhost
    <Directory /var/www/html/wordpress/>
        Options +FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>" > /etc/apache2/sites-available/wordpress.conf

# Applay config+restart
a2ensite wordpress.conf
service apache2 reload

echo "Done!"
```

Now WordPress can be finished to install via the URL: <http://localhost>

To install, the following must be used:

- db_user: expimuser
- db_pw: pw_for_db
- db_name: expimwp

=====> #2 <=====

Ready solution: <https://github.com/YaCenturion/Expim-test.git>

The following structure is used here:

```
centurion@expim-vm:~/expim$ tree
.
├── build
│   ├── mysql
│   │   └── Dockerfile
│   └── php
│       └── Dockerfile
├── docker-compose.yml
├── expim.sh
├── script
│   └── wpres.sh
└── 4 directories, 5 files
```

On the Ubuntu virtual machine, the following must be done:

```
sudo git clone https://github.com/YaCenturion/Expim-test.git ~/Expim-test
```

Then simply run expim.sh

After launch, the following will be automatically done:

- WordPress latest.zip obtained
- wp-config.php prepared
- 2 containers (expim-web and expim-db) launched
- Bash-script inside expim-web launched to finish automatic installation.

A fully installed and ready-to-use WordPress will be ready at the URL: <http://localhost>

Example of launch and installation in 5 mins in video: https://youtu.be/qGaT3jPT_ww