DRUPAL-11-DEV-2
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1)
Installing Drupal Project with DDEV in WSL2 on Windows

// Browser of Web Site // user: admin ; pw: admin

https://hong-drupal11-site.ddev.site/

Note : DDEV commands
https://ddev.readthedocs.io/en/stable/users/usage/commands/

PowerShell in the Windows --

// go to project

```
cd C:\HONG\PHPtest25\DRUPAL\TESTh\hong-drupal11-site
```

// Now set up a DDEV project with the requirements for Drupal, including appropriate versions of PHP, MariaDB and Composer.

```
ddev config --project-type=drupal11 --docroot=web
```

// Now start this DDEV project and let it build a Docker container.

```
ddev start
```

// show running containers

```
docker ps (or) docker container ls
```

ssh-agent container is running: If you want to add authentication to the ssh-agent container, run 'ddev auth ssh' to enable your keys. See Note (*)

// Next, use the local Composer in our DDEV project to create a Drupal project

```
ddev composer create drupal/recommended-project
```

// Install Drush, a command line shell and Unix scripting interface for Drupal:

```
ddev composer require drush/drush
```

// Use Drush to install the site and set up the admin (user #1) account with *name admin and password admin*. Again, this will take time:

```
ddev drush site:install --account-name=admin --account-pass=admin -y
```

// Display a one-time login link in your terminal:

```
ddev drush uli
```

// => link to change (option) admin name and PW
https://hong-drupal11-site.ddev.site/user/reset/1/1752338149/3JskylP0IBAYN8Hedgi2qhC2mbR62C3zuNNdJL3g1g4/login

// stop app

```
ddev stop
```

Note (*): add authentication to the ssh-agent container

Linux Console (WSL 2 console) ---

// go to project

```
cd /mnt/c/HONG/PHPtest25/DRUPAL/TESTh/hong-drupal11-site
```

// keys

```
        ssh-keygen -t rsa
```

// check

```
        ls ~/.ssh          // => id_rsa  id_rsa.pub
```

// get public key

```
        cat ~/.ssh/id_rsa.pub
```

// => public-key

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQCZPfoTt4MIue3/64Egk8o+NiCE1n+6uat4GuR…. ZB2uK9Lg98=
hong6user@hong66laptop
```

Shell in (Linux-)container ---

// go into container *ddev-ssh-agent* => *Shell in (Linux-)container*

```
        docker exec -it ddev-ssh-agent sh
```

// make .ssh

```
        mkdir ~/.ssh
```

// copy public key into authorized_keys file

```
        echo <public-key-here> >> ~/.ssh/authorized_keys
```

// go out from container

```
        exit
```

// back to Client Linux console

```
hong6user@hong66laptop:/mnt/c/HONG/PHPtest25/DRUPAL/TESTh/hong-drupal11-site$
```

// more ---
// linux console
// chmod 700 ~/.ssh (==   // chmod 700 /home/hong6user/.ssh)
// ddev auth ssh -d ~/.ssh
// ddev auth ssh -f ~/.ssh/id_ed25519 -f ~/.ssh/id_rsa

// more links
https://www.ionos.at/digitalguide/server/konfiguration/ssh-key-unter-ubuntu/
https://www.digitalocean.com/community/tutorials/how-to-use-docker-exec-to-run-commands-in-a-docker-container

// good links ----
https://www.howtoforge.com/how-to-install-drupal-with-docker-on-ubuntu-22-04/
https://dev.to/awais_684/dockerized-drupal-and-postgresql-4dme
https://savaslabs.com/blog/how-locally-install-new-drupal-10-site

// good test
https://it4home.dk/index.php/2023/08/05/setting-up-drupal-with-docker-compose/
cd /mnt/c/HONG/PHPtest25/DRUPAL/TESTh/drupal_project

// good test
https://wpwebinfotech.com/blog/drupal-docker-guide/

Note:
// **php** and **php-fpm**
https://docs.vultr.com/how-to-install-php-and-php-fpm-on-ubuntu-24-04
https://dev.to/arsalanmee/understanding-php-fpm-a-comprehensive-guide-3ng8

2)
Integrating Visual Studio Code with WSL2, DDEV & Drupal

6)
Here is one very simplified step-debugging example procedure:

```
// Linux console
cd /mnt/c/HONG/PHPtest25/DRUPAL/TESTh/hong-drupal11-site
code .
```

Set breakpoints (red dots next to the line numbers) in your script.

```
// start docker provider using DDEV Manager
// or command line in Linux Console
        ddev start
```

// in the VS Code Activity Bar
Click the /Run and Debug logo/ in the VS Code Activity Bar.

// in the VS Code
Click the green /Start Debugging button/ next to Listen for Xdebug.

// in your web browser
Open or refresh the page
https://hong-drupal11-site.ddev.site/
https://hong-drupal11-site.ddev.site/node/1

// in the VS Code
Click the Continue button (center top) of press F5 to go to the next breakpoint.

// in the VS Code
Click the red /Stop (Debugging) button/

```
// stop docker provider using DDEV Manager
// or command line in Linux Console
        ddev stop
```

5)
(Xdebug's) PHP Debug (VS Code extension)
an adapter that enables you to do step debugging in VS Code.

The following /settings/ in /the launch.json file in your project's .vscode folder/ work well.
When used with DDEV, PHP Debug does not require any custom settings.
It works without setting a value for the executable path ("php.debug.executablePath").

4)
DDEV Manager extension
provides management of your DDEV projects from within VS Code. After installation you will see a new DDEV logo in the VS Code Activity Bar. Click on it to see a panel listing your DDEV projects.
Projects that are started have a green circle.

the extension's settings

3)
/VS Code settings/ hierarchy ---File > Preferences > Settings
With WSL2/Ubuntu and the WSL extension installed, VS Code settings can be applied at 3 cascading levels.

2)
WSL extension added to VS Code---
to use your /native Windows VS Code installation to develop your /applications hosted within WSL2/
With the WSL extension installed, a new /Remote Explorer icon/ will be added to the Activity Bar on the far left
Click on that icon to see a list of WSL targets.

1)
/Ubuntu terminal/

```
"code ."
```

/open VS Code in Windows/ from your /Ubuntu terminal/ ---- "code ."
With /WSL2, /Ubuntu & /VS Code installed,
you can /open VS Code in Windows/ from your /Ubuntu terminal/ by simply entering code.

We'll also assume you have installed /WSL2, /Ubuntu, /Docker, /DDEV & /Drupal as explained in the previous pages of this guide.

3)
INSTALL LINKS

Note:
/Docker Desktop/ on Windows 10, 11 Professional and Enterprise editions supports /Windows containers/ and /Linux containers/.
/Docker Desktop/ on Mac, Linux, and Home editions of Windows only support /Linux containers/.
All of the examples in the book and almost all of the containers in the real world are /Linux containers/.

// Installing Drupal with DDEV in WSL2 on Windows // Index
https://www.drupal.org/docs/develop/local-server-setup/windows-development-environment/installing-drupal-with-ddev-in-wsl2-on-windows

// Installing WSL2 & Ubuntu
https://www.drupal.org/docs/develop/local-server-setup/windows-development-environment/installing-drupal-with-ddev-in-wsl2-on-windows/installing-wsl2-ubuntu

// DDEV Installation
https://ddev.readthedocs.io/en/stable/users/install/ddev-installation/

Having installed WSL2 and Ubuntu, you are now ready to install DDEV.
There is no need to manually install Docker Engine before installing DDEV; *the DDEV installation script* will do it.

Open an administrative *PowerShell* by typing PowerShell in the Windows search and choosing Run as Administrator.

Using Docker CE – **option 1**
The WSL2 + Docker CE Install Script, then paste it into your PowerShell and run it.

// WSL2 + Docker CE Install Script

```
Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://raw.githubusercontent.com/ddev/ddev/master/scripts/install_ddev_wsl2_docker_inside.ps1'))
```

This will take time so be patient! Amongst other things, it will check your WSL2 and Ubuntu installation, and install (if not already) Chocolatey (a package manager for Windows), gsudo, mkcert, ngrok, Docker Engine and DDEV.   Answer "Yes" at the Windows Security Warning about the root certificate. When prompted for your sudo password, enter the password you used for WSL2.

When finished, back in an Ubuntu terminal app (or Ubuntu within your Windows Terminal), confirm that DDEV is installed by entering ddev -v.

Using Docker Desktop – **option 2**
// WSL2 + Docker Desktop Install Script

```
Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://raw.githubusercontent.com/ddev/ddev/main/scripts/install_ddev_wsl2_docker_desktop.ps1'))
```

// Installing Drupal Project with DDEV in WSL2 on Windows
https://www.drupal.org/docs/develop/local-server-setup/windows-development-environment/installing-drupal-with-ddev-in-wsl2-on-windows/installing-docker-ddev-drupal-in-wsl2

// Integrating Visual Studio Code with WSL2, DDEV & Drupal
https://www.drupal.org/docs/develop/local-server-setup/windows-development-environment/installing-drupal-with-ddev-in-wsl2-on-windows/integrating-visual-studio-code-with-wsl2-ddev-drupal

4)
ON WORKING

1)
// WSL 2 und Linux // Linux on Window ---
----

https://learn.microsoft.com/en-us/windows/wsl/
https://learn.microsoft.com/en-us/windows/wsl/install
https://learn.microsoft.com/en-us/windows/wsl/faq

// good--
https://dev.to/prastha/install-ubuntu-on-wsl-2-3fei
https://askubuntu.com/questions/1261664/how-to-uninstall-the-wsl-installation-of-ubuntu-20-04-from-windows-10
https://documentation.ubuntu.com/wsl/latest/howto/install-ubuntu-wsl2/

```
// Check available distribution name using command
// wsl -l -o
wsl --list --online

// Check installed Ubuntu with command
wsl --list --verbose
wsl -l -v

// install
// wsl --install -d Ubuntu
wsl --install -d Ubuntu-24.04

// Running the wsl -d <Distro> command in PowerShell
// To enter the distribution wsl -d <Distribution Name>
// wsl -d Ubuntu
wsl -d Ubuntu-24.04

// To exit the distribution
exit

// uninstall
// wsl --unregister Ubuntu-24.04
wsl --unregister Ubuntu

// set default Ubuntu
// wsl --set-default Ubuntu
wsl --set-default Ubuntu-24.04

// set wsl version
wsl --set-version ubuntu 2

// go to C:
cd /mnt/c
```

2)
// docker --
----
https://docs.docker.com/engine/

// Docker Desktop ---

// Docker Engine is also available for Windows, macOS, and Linux, through Docker Desktop.
// how to install Docker Desktop
https://docs.docker.com/desktop/
https://docs.docker.com/desktop/
https://docs.docker.com/desktop/setup/install/windows-install/

// Docker CE ---
// how to install Docker Engine on Linux, also known as Docker CE
https://docs.docker.com/engine/install/
https://docs.docker.com/engine/install/ubuntu/

// docker compose ---
https://docs.docker.com/compose/install/

```
docker compose up -d
docker compose stop
// docker-compose down
```

3)
docker4drupal ---
----
https://github.com/wodby/docker4drupal

https://wodby.com/docs/1.0/stacks/drupal/local/
https://wodby.com/docs/1.0/stacks/drupal/local/#usage
https://docs.docker.com/get-started/workshop/08_using_compose/

Vanilla Drupal ---
// cd C:\HONG\PHPtest25\DRUPAL\docker4DRUPAL2\docker4drupalVanilla
http://drupal.docker.localhost:8000

Mount my codebase --- // dockerizing a app
https://www.drupal.org/docs/develop/using-composer/starting-a-site-using-drupal-composer-project-templates
https://github.com/drupal/recommended-project

cd C:\HONG\PHPtest25\DRUPAL\docker4DRUPAL2\docker4drupalPROJECT ---
http://drupal.docker.localhost:8000
// http://portainer.drupal.docker.localhost:8000

3b)
// BOOK //---
Drupal 10 Module Development 2023
https://github.com/PacktPublishing/Drupal-10-Module-Development-Fourth-Edition

4)
// project using ddev tool ---
----
https://ddev.readthedocs.io/en/stable/users/project/
https://ddev.readthedocs.io/en/stable/users/quickstart/#craft-cms
// good
https://drupalize.me/tutorial/set-your-development-environment
https://www.zend.com/blog/drupal-module-development

// ddev using
https://ddev.readthedocs.io/en/stable/#system-requirements-traditional-windows
https://ddev.readthedocs.io/en/stable/
https://drupalize.me/tutorial/install-drupal-locally-ddev

// set-your-development-environment
https://drupalize.me/tutorial/set-your-development-environment

Installation complete. User name: admin User password: VLBRFDwzMo

// ddev-installation
https://ddev.readthedocs.io/en/stable/users/install/ddev-installation/#windows

-----symfony----------
https://github.com/dunglas/symfony-docker
https://symfony.com/doc/current/setup/docker.html
https://github.com/dunglas/symfony-docker

https://medium.com/@meherbensalah4/how-to-dockerize-symfony-project-f06bcd735308

https://chrisshennan.com/blog/creating-symfony-applications-with-symfony-cli-and-docker