Vulper

[https://github.com/GSCloud/vulper]

Base PHP 8.1 docker container app.
Deploys basic containers app, db, cache (*Redis*) and phpmyadmin (*optional*).

☐ Images, extensions, external binaries, ports and volumes are freely configurable.

Prerequisites

- Docker environment [https://docs.docker.com/get-docker/]
- sudo apt install make utility to process Makefile
- sudo apt install ruby-full Rusy is used for YAML 2 JSON conversions only

Makefile

Run make for help.

Application Logic

Web

- www/index.php (Apache root directory is www/ by default)
- app/Bootstrap.php
- · app/Web.php
- custom controllers (MVC pattern)

CLI or CRON

- cli.sh (shortcut for loading Bootstrap)
- app/Bootstrap.php
- app/Cli.php
- custom controllers (MVC pattern)

Bootstrap

Bootstrap.php performs these tasks: - set constants - import Composer autoloader (run make install or make update) - load config and router definitions - setup debugger - execute the Web or Cli controller

☐ Debugger can be extensively configured via **config.neon**.

Web Controller

Web.php performs these tasks: - read routing table configuration - find the corresponding controller - continue the workflow - add extra headers

Cli Controller

Cli.php performs these tasks: - check command line parameters - find the corresponding controller - continue the workflow / display a help message to TTY

Configuration

Configuration is stored as **.env** file. Demo configurations are available as **env...-redist** files. □ Copy a configuration file over the **.env** and run make.

- .env environment configuration
- app/env.json generated file = .env translated to JSON format (

 run make savejson after the configuration changes)
- app/config.neon main app config [https://doc.nette.org/en/neon]
- app/router.neon main app router
- www/.htaccess Apache 2 htaccess
- INI/ Docker injected configuration files to alter resource limits, post and upload limits, default timezone
- **CLI_REQ** environment variable to use if CLI SAPI is detected = set it to specify a PHP required file that can load extra data, alter settings or override defaults
- ☐ Make sure to remove containers before changing ports in the .env.
- ☐ There is also an **env.mustache** template available for programmatic environment creation.

Constants

- DS directory separator shortcut
- CLI true if CLI SAPI is detected
- LOCALHOST true if localhost is detected
- ROOT full path to the Vulper root
- APP full path to app/ folder
- WWW full path to www/ folder

Configuration Commands

- make cfg show docker-compose configuration
- make jsoncfg show docker-compose configuration as JSON
- make jsonapp show environment as JSON

make savejson - save application config to app/env.json as JSON

Router

Web routes are stored in router.neon.

Array *defaults* is applied to all the routes, every route must set at least: *path*, *controller* and *view*, if not using the default values.

Installation

- make install create docker images
- make install extensions create docker images, add PHP extensions afterwards
- make check check running containers

Updates

• make update - update installation

Development

- make exec run Bash in the app container
- make applog show app container logs
- make csfixer run PHP CS-FIXER in app/
- make phpstan run PHPStan static analysis in app/
- make test run Nette tester tests in app/

Container Operations

- make stop stop containers
- make start resume stopped containers

Always use install to create containers if they got removed.

☐ phpMyAdmin (PMA) container can be disabled via .env by setting PMA_DISABLE=1

Cleaning and Removal

- make remove remove containers
- make purge remove containers + database folder

Logging

Tracy logs and exceptions are mapped outside the container and available at:

/tmp/\${APP_NAME}/logs

To Do

- Dockerfile
 - \circ build
 - \circ push
- database access
- database operations
 - \circ export
 - import
- tests
 - $\circ \ \ codeception$