

Lampman - LAMP server container Orchestration

Basic usage

1. First, go to the project directory and run the following command:

```
lamp init
```

([project-dir](#))/[.lampman](#) directory is created for lampman settings.

2. Start the servers.

```
lamp up
```

3. You now have a LAMP (Linux, Apache, MySQL, PHP) environment in the ([project-dir](#))/[public_html/](#) directory.

Start development by accessing <http://localhost/> in a browser.

4. If you want to close the containers, use the following command:

```
lamp down
```

That's it.

From the next time, [lamp init](#) is unnecessary.

Below are detailed settings and command descriptions.

Initial LAMP environment

Services/Apps	Status	External ports	Version	Memo
Linux	Enabled		CentOS 7.6	
Apache	Enabled	80, 443		public_html/ is published
MySQL	disabled	3306	MySQL 5.6	with Xdebug
PostgreSQL	disabled	5432	PostgreSQL 9.4	
PHP	Enabled		PHP 5.4.16	
Perl/CGI	disabled		perl 5.16.3	

Services/Apps	Status	External ports	Version	Memo
MailDev	Enabled	9981	MailDev 1.1.0	
Postfix	Enabled		Postfix 2.10	All mail passing through Postfix is relayed to MailDev.

*You can easily specify PHP, MySQL, and PostgreSQL versions in the `.lampman/config.js`.

*The actual version may be different.

Docker images to use

Internally, the container is started using docker-compose.

Basically, the following image is used, but this can be changed to a self-made image etc. in the `config.js`.

Images	Description
Docker Hub: kazaoki/lampman (未リンク)	LAMP base image: Linux, Apache, Postfix, MailDev
Docker Hub: kazaoki/phpenv	This is a version-specific PHP container compiled with phpenv.
Docker Hub: mysql	MySQL official image
Docker Hub: postgres	PostgreSQL official image

Example project directory

```
(project-dir) /
|
| // Version control, Task runner, etc.
| - .git/
| - gulp.js
| - package.json
| - ...
|
| // Publish web root. (mount to /var/www/html)
| - public_html/
|   | - index.php
|   | - ...
|
| // Lampman settings
| - .lampman/
|   | - lampman/
|   |   | - before-starts.sh
|   |   | - entrypoint.sh
|   | - mysql/
|   |   | - before-entrypoint.sh
|   |   | - main.sql
```

```

├── postgresql/
│   ├── before-entrypoint.sh
│   └── sub.sql
├── config.js
├── docker-compose.override.yml
├── docker-compose.yml
└── README.md

```

Internal flow of **lamp up** command

1. Auto update `.lampman/docker-compose.yml` from `config.js`
2. `docker-compose up -d` is executed internally.
This loads `.lampman / docker-compose.yml` and `.lampman / docker-compose.override.yml`.
3. If a PHP version is specified, start the corresponding PHP version container.
4. If there is a MySQL setting, start the corresponding MySQL container.
5. If there is a PostgreSQL setting, start the corresponding PostgreSQL container.
6. Finally, the Lampman base image `kazaoki/lampman` is executed and various servers are started.

Install

```
npm i lampman -g
```

That's it.

lamp Command

Command	Description
<code>lamp init</code>	Initialize
<code>lamp up</code>	<p>Start servers.</p> <p><code>lamp up -c ...</code> Start after forcibly deleting all other running containers. (Volume is kept)</p> <p><code>lamp up -cv ...</code> Start after forcibly deleting all other running containers and volumes. (Keep locked volume)</p>
<code>lamp down</code>	<p>Stop and delete servers.</p> <p><code>lamp down -v ...</code> Also delete related volumes. (Keep locked volume)</p>
<code>lamp</code>	MySQL operation (if no option is specified, the mysql client is executed)
<code>mysql</code>	<p><code>-d, --dump <to> ...</code> Dump (Output destination can be specified)</p> <p><code>-r, --restore ...</code> Restore. (Dump selection)</p> <p><code>-c, --cli ...</code> Enter the console.</p>

Command	Description
<code>lamp psql</code>	PostgreSQL operation (if no option is specified, the psql client is executed) <code>-d, --dump <to> ...</code> Dump (Output destination can be specified) <code>-r, --restore ...</code> Restore. (Dump selection) <code>-c, --cli ...</code> Enter the console.
<code>lamp logs</code>	Error log monitoring <code>-g, --group <name> ...</code> You can specify a log group name. The first one if not specified
<code>lamp ymlout</code>	Standard output as setting data as yml (relative to project root)
<code>lamp version</code>	Swho version

common options

Option	Description
<code>-m, --mode <mode></code>	Execution mode can be specified. If not specified, the <code>.lampman /</code> directory will be referenced. For example, if <code>-m product</code> is specified, the <code>.lampman-product /</code> directory will be created.
<code>-h, --help</code>	Each help is displayed. ex: <code>lamp -h lamp mysql -h</code>

For production

You can create a `docker-compose.yml` for production in the project root with the following command:

```
lamp product-yml
```

This is the same as the following command.

```
lamp ymlout -m product > (project-dir)/docker-compose.yml
```

This command is registered as an extra command.

Extra commands

You can register additional commands with `config.js`. You can choose to run on the host side or on the container side.

Description of `config.js`

```
const __TRUE_ON_DEFAULT__ = 'default'===process.env.LAMPMAN_MODE;

/**
 * load modules
 */

/**
 * export configs
 */
module.exports.config = {

  // Lampman
  lampman: {
    project: 'lampman-test',
    image: 'kazaoki/lampman',

    ...
  }
}
```