

PHP

- Composer [] [] []
- Rocky Linux [] [] phpbrew [] [] []
- PHP Composer [] [] [] [] []

Composer 安装

Composer 安装 PHP 环境
Node.js 安装 npm 安装 Python 安装 pip
PHP 安装

安装 Composer

Windows 安装

1. 访问 [Composer-Setup.exe](#)
2. 运行安装程序
3. 验证安装 `composer --version`

Linux/macOS 安装

```
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"  
php composer-setup.php  
php -r "unlink('composer-setup.php');"  
sudo mv composer.phar /usr/local/bin/composer
```

验证安装

1. 初始化

```
composer init
```

生成 `composer.json` 文件

2. 安装依赖

composer install

■■■

composer.json ■■■■■■■■■■

vendor ■■

3. ■■■■

composer require vendor/package

■■

composer require monolog/monolog

■■■■

composer.json ■ composer.lock ■■

4. ■■■■

composer update

■■■■■■■■■

composer.json ■■■■■

5. ■■■■

composer update vendor/package

6. ■■■■

composer remove vendor/package

composer.json ■■■■

■■■■

```
{  
  "name": "your-project/name",  
  "description": "Your project description",
```

```
"type": "project",
"require": {
    "php": "^7.4 || ^8.0",
    "monolog/monolog": "^2.0"
},
"require-dev": {
    "phpunit/phpunit": "^9.0"
},
"autoload": {
    "psr-4": {
        "YourNamespace\\": "src/"
    }
}
}
```



- composer list -
- composer show -
- composer search package -
- composer dump-autoload -
- composer self-update - Composer
- composer check-platform-reqs -



Composer

```
require 'vendor/autoload.php';
```



- require
- require-dev

```
composer install --no-dev
```



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Laravel

```
composer global require laravel/installer
```



```
composer config -g repo.packagist composer https://mirrors.aliyun.com/composer/
```



```
composer config -g --unset repos.packagist
```



1.

--	--	--	--	--	--

--

COMPOSER_MEMORY_LIMIT=-1 composer update

2.  

composer why-not vendor/package version

3.

```
composer clear-cache
```

[illegible]

Rocky Linux 8 phpbrew



phpbrew 100%

PHP 100%

PHP 100%

1 Rocky Linux 8 phpbrew

1. 100%

```
sudo dnf install -y git curl wget make automake gcc gcc-c++ \  
kernel-devel bison re2c libxml2-devel openssl-devel \  
libcurl-devel libjpeg-turbo-devel libpng-devel libicu-devel \  
libxslt-devel libzip-devel bzip2-devel readline-devel \  
sqlite-devel oniguruma-devel
```

2. 100% phpbrew

```
curl -L -O https://github.com/phpbrew/phpbrew/releases/latest/download/phpbrew.phar  
chmod +x phpbrew.phar  
sudo mv phpbrew.phar /usr/local/bin/phpbrew
```

3. 100% phpbrew

```
phpbrew init
```

100%

shell 100%

~/bashrc 100%

~/zshrc 100%

```
[[ -e ~/.phpbrew/bashrc ]] && source ~/.phpbrew/bashrc
```

100%

shell 100%

```
source ~/.bashrc #  source ~/.zshrc
```

phpbrew

1. 安装 PHP

```
phpbrew known
```

2. 安装 PHP

```
# 安装 8.1
phpbrew install 8.1 +default +openssl +fpm

# 安装 8.0
phpbrew install 8.0 +default +openssl +fpm +mysql +pgsql +gd
```

选项

- +default 默认选项
- +openssl 安装 OpenSSL
- +fpm 安装 PHP-FPM
- +mysql 安装 MySQL
- +pgsql 安装 PostgreSQL
- +gd 安装 GD

3. 查看已安装的 PHP

```
phpbrew list
```

4. 使用 PHP

```
# 使用 8.1
phpbrew use 8.1

# 查看当前版本
```

```
phpbrew switch 8.1
```

5. PHP

```
phpbrew php 8.1 -v
```

6.

```
# 
```

```
phpbrew ext
```

```
# 
```

```
phpbrew ext install xdebug 3.1.2
```

```
# 
```

```
phpbrew ext install https://pecl.php.net/get/xdebug-3.1.2.tgz
```

7.

```
phpbrew clean
```



1.

```

```

```
phpbrew -d install 8.1 # 
```

2.

```

```



```
sudo dnf install libffi-devel
```

3. `phpbrew`

```
phpbrew self-update
```



1. `phpbrew`

```
phpbrew install 8.1 \  
  -- --with-libdir=lib64 \  
  --with-openssl-dir=/usr/include/openssl
```

2. `phpbrew`

```
phpbrew -j $(nproc) install 8.1 # phpbrew CPUphpbrew
```

3. `php-fpm`

```
sudo cp ~/.phpbrew/php/php-8.1.0/sbin/php-fpm /usr/sbin/php-fpm8.1  
sudo cp ~/.phpbrew/php/php-8.1.0/etc/php-fpm.conf.default /etc/php-fpm8.1.conf  
sudo cp ~/.phpbrew/php/php-8.1.0/etc/php-fpm.d/www.conf.default /etc/php-fpm8.1.d/www.conf
```

`php-fpm` systemd `php-fpm` PHP-FPM

`phpbrew`

1. `phpbrew`

```
rm -rf ~/.phpbrew
```

2. `shell` `phpbrew`

3. ☐ phpbrew ☐

```
sudo rm /usr/local/bin/phpbrew
```

phpbrew ☐☐☐☐

[illegible]

PHP

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PHP Composer

Composer PHP
Composer

1.

```
#  
composer init --require="php:^8.1" --require-dev="phpunit/phpunit:^9.0" -n
```

composer.json

```
{  
  "name": "vendor/project",  
  "description": "",  
  "type": "project",  
  "license": "proprietary",  
  "require": {  
    "php": "^8.1",  
    "ext-json": "*",  
    "laravel/framework": "^10.0"  
  },  
  "require-dev": {  
    "phpunit/phpunit": "^10.0",  
    "mockery/mockery": "^1.5"  
  },  
  "autoload": {  
    "psr-4": {  
      "App\\": "src/"  
    },  
    "files": [  

```

```

        "src/helpers.php"
    ]
},
"autoload-dev": {
    "psr-4": {
        "Tests\\": "tests/"
    }
},
"scripts": {
    "post-autoload-dump": [
        "Illuminate\\Foundation\\ComposerScripts::postAutoloadDump",
        "@php artisan package:discover --ansi"
    ],
    "test": [
        "@php vendor/bin/phpunit"
    ]
},
"config": {
    "optimize-autoloader": true,
    "preferred-install": "dist",
    "sort-packages": true,
    "allow-plugins": {
        "php-http/discovery": true
    }
},
"minimum-stability": "dev",
"prefer-stable": true
}

```

2. 数据库

数据库表结构

表名	主键	索引
用户表	1.2.3	用户ID
订单表	>=1.0 <2.0	订单ID

종류	구문	설명
필수	1.0.*	최소 1.0 버전 이상
선택	~1.2	1.2.0-1.2.9
선택	^1.2.3	1.2.3-1.9.9

Composer 명령어

```
# 기본
composer require package/name

# 개발 의존성
composer require --dev package/name

# 위장본
composer require package/name -W

# 글로벌 (전역)
composer global require friendsofphp/php-cs-fixer
```

3. Autoload

Autoload

```
# 기본
composer dump-autoload -o

# 위장본
composer dump-autoload --classmap-authoritative

# 위장본
composer dump-autoload --no-dev
```

PSR-4

```
"autoload": {
    "psr-4": {
        "MyLibrary\\": "src/",
        "Vendor\\Module\\": "module/src/"
    },
    "files": ["src/helpers.php"],
    "exclude-from-classmap": ["tests/"]
}
```

4.



```
"scripts": {
    "post-install-cmd": [
        "@php artisan cache:clear"
    ],
    "post-update-cmd": [
        "@php artisan migrate"
    ],
    "test": [
        "@php vendor/bin/phpunit",
        "@php vendor/bin/phpstan analyse"
    ],
    "cs-check": "php-cs-fixer fix --dry-run --diff",
    "cs-fix": "php-cs-fixer fix",
    "deploy": [
        "@composer install --no-dev",
        "@php artisan optimize:clear",
        "@php artisan migrate --force"
    ]
}
```



```
namespace App\Scripts;

class DeploymentScript
{
    public static function run($event)
    {
        // 部署
    }
}
```

```
"scripts": {
    "post-deploy-cmd": ["App\\Scripts\\DeploymentScript::run"]
}
```

5. 部署

部署环境

```
# 安装 Composer (Composer 2+)
composer install -j4

# 安装 Xdebug
COMPOSER_ALLOW_XDEBUG=0 composer install

# 配置镜像
composer config -g repo.packagist composer https://mirrors.aliyun.com/composer/
```

部署命令

```
# 清理缓存
composer clear-cache

# 部署 (CI/CD 环境)
composer install --prefer-dist --no-dev --no-scripts --no-progress
```

6.



```
# 
```

```
composer audit
```

```
# 
```

```
composer update vendor/package --dry-run
```



```
#  composer.lock  composer.json 
```

```
composer validate --no-check-all --strict
```

```
#  --no-dev
```

```
composer install --no-dev
```

7.



```
"require": {  
    "php": "^8.1",  
    "production-package": "^1.0"  
},  
"require-dev": {  
    "phpunit/phpunit": "^10.0",  
    "mockery/mockery": "^1.5"  
},  
"suggest": {  
    "ext-redis": "Required for Redis support",  
    "ext-gd": "Required for image processing"
```



```
}
```



```
"config": {  
  "platform": {  
    "php": "8.1.12",  
    "ext-redis": "5.3.7"  
  }  
}
```

8.



```
"repositories": [  
  {  
    "type": "composer",  
    "url": "https://repo.pkg.example.com",  
    "options": {  
      "ssl": {  
        "verify_peer": "true"  
      }  
    }  
  },  
  {  
    "type": "vcs",  
    "url": "git@github.com:mycompany/private-package.git"  
  }  
]
```



```
# 配置
```

```
composer config http-basic.repo.pkg.example.com username password
```

```
# 配置 auth.json (配置文件)
```

```
{  
  "http-basic": {  
    "repo.pkg.example.com": {  
      "username": "token",  
      "password": "your-api-token"  
    }  
  }  
}
```

9. 部署

CI/CD 部署

```
# .gitlab-ci.yml 配置
```

```
stages:
```

- test
- deploy

```
composer_install:
```

```
  stage: test
```

```
  script:
```

- composer install --prefer-dist --no-progress --no-suggest
- composer validate --strict
- composer audit

```
run_tests:
```

```
  stage: test
```

```
  script:
```

- composer test


```
deploy_production:
```


```
  stage: deploy
```


```
script:
- composer install --no-dev --optimize-autoloader
- composer dump-env prod
only:
- main
```

10.





```
# 
composer why vendor/package


# 
composer depends --tree vendor/package

# 
composer update vendor/package --with-dependencies
```



```
# 
composer -vvv install

# 
COMPOSER_MEMORY_LIMIT=-1 composer update

# 
composer install --ignore-platform-reqs
```

 PHP
