

# Composer Platform Config



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# What is the purpose of this command?

**check-platform-reqs**

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# Platform Repository

- implicitly defined additional package repository
- contains packages for
  - PHP
  - extensions
  - system libraries (e.g. libxml)
- packages cannot be updated/installed/removed

# Platform Repository

```
$ ./composer.phar show --platform
```

```
composer-plugin-api 1.1.0    The Composer Plugin API
ext-apcu             5.1.8    The apcu PHP extension
ext-ctype           7.2.5    The ctype PHP extension
ext-curl            7.2.5    The curl PHP extension
ext-date            7.2.5    The date PHP extension
ext-dom             20031129 The dom PHP extension
ext-fileinfo        1.0.5    The fileinfo PHP extension
ext-filter          7.2.5    The filter PHP extension
ext-ftp            7.2.5    The ftp PHP extension
ext-hash            1.0      The hash PHP extension
ext-iconv           7.2.5    The iconv PHP extension
ext-intl            1.1.0    The intl PHP extension
ext-json            1.6.0    The json PHP extension
ext-libxml          7.2.5    The libxml PHP extension
...
lib-curl            7.59.0   The curl PHP library
lib-ICU             58.2     The intl PHP library
lib-libxml          2.9.5    The libxml PHP library
lib-openssl         2.5.5    LibreSSL 2.5.5
lib-pcre            8.41     The pcre PHP library
php                 7.2.5    The PHP interpreter
php-64bit           7.2.5    The PHP interpreter, 64bit
php-ipv6            7.2.5    The PHP interpreter, with IPv6 support
```

# Platform Requirements

```
{  
  "require": {  
    "php": "^7.1.1",  
    "ext-intl": "*"   
  }  
}
```

```
$ php -v  
PHP 5.6.10
```

```
$ composer update
```

Your requirements could not be resolved to an installable set of packages.

Problem 1

- This package requires php ^7.1.1 but your PHP version (5.6.10) does not satisfy that requirement.

# Platform Requirements

- What if you maintain multiple projects on your local system to be deployed to different platforms?
  - e.g. Server A running PHP 7.0, Server B running PHP 7.2
- What if you want to build Composer automation tools
  - Private Packagist at [packagist.com](https://packagist.com) runs on a single PHP version, managed projects have lots of different requirements

# Ignoring Platform Requirements

```
{  
  "require": {  
    "php": "^7.1.1",  
    "ext-intl": "*"   
  }  
}
```

```
$ php -v  
PHP 5.6.10
```

```
$ composer update --ignore-platform-reqs  
Success
```

No idea if dependencies even work on PHP 7.1.1

# Platform Config

```
“require”: {  
    “php”: “^7.1.1”,  
    “ext-intl”: “*”  
}  
“config”: {“platform”:{  
    “php”: “7.1.2”,  
    “ext-intl”: “1.1.0”  
}}  
}}
```

```
$ php -v  
PHP 5.6.10
```

```
$ composer update  
Success
```



# Platform Config

- Watch out if you are using Plugins!
  - Composer plugins (Composer installers are plugins, too)
    - Packages with type “composer-plugin”
    - Will be installed before all other packages if dependencies allow it
    - Code will be executed in Composer process during update/install
  - Can be disabled with **--no-plugins**
  - no easy way to run them on prod later
- Watch out if you are using scripts
  - Use **--no-scripts**
  - Run them separately in production with **composer run-script <name>**

# Platform Config

```
“require”: {  
    “php”: “^7.1.1”,  
    “ext-intl”: “*”  
}  
“config”: {“platform”:{  
    “php”: “7.1.2”,  
    “ext-intl”: “1.1.0”  
}}  
}}
```

\$ composer update

Success

- Create ZIP
- deploy to prod

**PHP Fatal Error**

Prod was actually still on PHP 5.6

# check-platform-reqs

```
“require”: {  
    “php”: “^7.1.1”,  
    “ext-intl”: “*”  
}  
“config”: {“platform”:{  
    “php”: “7.1.2”,  
    “ext-intl”: “1.1.0”  
}}  
}}
```

- dev\$ composer update
- Create ZIP
- upload to prod
- **composer check-platform-reqs**
  - no error? switch to new code

Thank you!  
Questions / Feedback?  
<https://joind.in/talk/609f9>

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