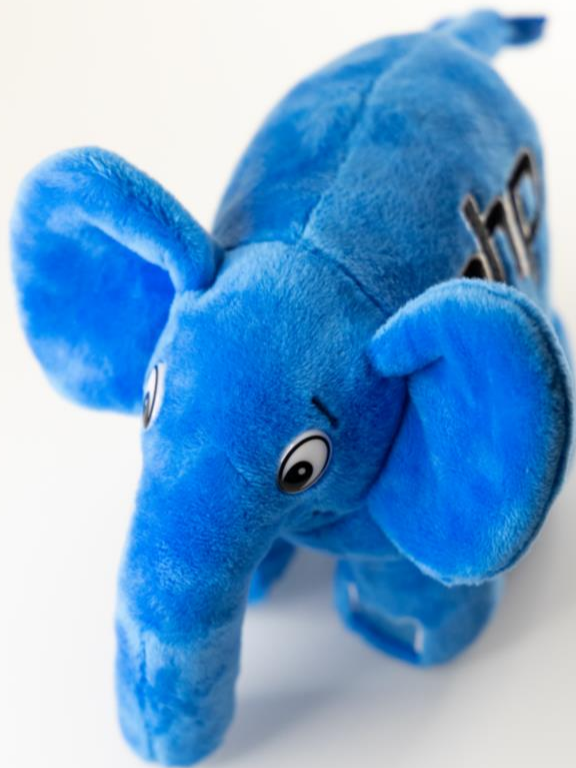


# PHAR Format

**Disclaimer:** вы смотрите просто запись лекции,  
это НЕ специально подготовленный видеокурс!



**PHAR (PHP Archive)** is a special format providing a way to distribute a complete PHP application in a single file and run it from that file without the need to extract it to disk.

More details: <https://www.php.net/manual/en/intro.phar.php>

(BTW, in Java the same functionality is available with JAR.)

## How to use PHAR?

Nginx support for phars with *php-fpm* still has a lot of problems, so – no universal solution here.

1. Make sure that *phar.readonly* option in *php.ini* is **Off**.
2. If you want to run phars via browser, add “*AddType application/x-httpd-php .php .phar*” to *httpd.conf*.
3. Create an application (web, CLI – anything you like).
4. Compress it to phar (we’ll see it in a couple of seconds).

Unlike with JAR (in Java) in PHP there’s no unified way to create phar-files ☹, so, please, see details: <https://www.php.net/manual/en/phar.creating.intro.php>

## Creating PHAR, sample 1

1. See the application in *01\_Sample\_1/application*, this is a CLI script to convert numbers to words representation. It consists of several files.
2. Now let's convert it into phar (see below).
3. And now we can run it: “php NumbersConverter.phar”.

```
<?php

if (is_file('NumbersConverter.phar')) {
    unlink('NumbersConverter.phar');
}

if (Phar::canWrite()) {
    $pharBuilder = new Phar('NumbersConverter.phar', 0, 'NumbersConverter.phar');
    $pharBuilder = $pharBuilder->convertToExecutable(Phar::PHAR);

    // Start creating phar
    $pharBuilder->startBuffering();

    // Add the whole application at once
    $pharBuilder->buildFromDirectory('./application');

    // Set entry point
    $pharBuilder->setStub($pharBuilder->createDefaultStub('NumbersConverter.php', 'NumbersConverter.php'));

    // Done
    $pharBuilder->stopBuffering();
}
```

## Creating PHAR, sample 2

1. See the application in *01\_Sample\_2/application*, this is a trivial web application. It consists of several files.
2. Now let's convert it into phar (see below).
3. And now we can run it: "http://127.0.0.1/application.phar".

```
<?php

if (is_file('application.phar')) {
    unlink('application.phar');
}

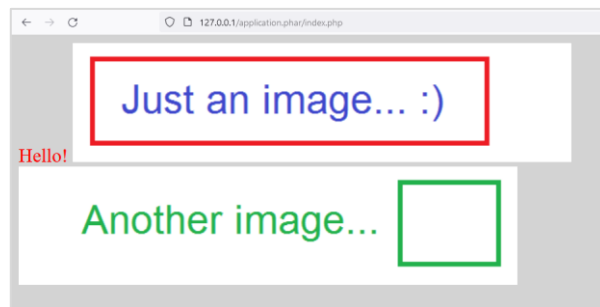
if (Phar::canWrite()) {
    $pharBuilder = new Phar('application.phar', 0, 'application.phar');
    $pharBuilder = $pharBuilder->convertToExecutable(Phar::PHAR);

    // Start creating phar
    $pharBuilder->startBuffering();

    // Add the whole application at once
    $pharBuilder->buildFromDirectory('./application');

    // Set entry point
    $pharBuilder->setStub($pharBuilder->createDefaultStub('index.php', 'index.php'));

    // Done
    $pharBuilder->stopBuffering();
}
```



# PHAR Format

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