



Image Optimizer

Installation Instructions

If you purchased an extension on Magento Marketplace then unpack .zip file inside **app/code/Apptrian/ImageOptimizer/** directory.

If you purchased an extension on our site then unpack the .zip file inside your Magento root.

Run following commands on Magento root directory:

```
php bin/magento maintenance:enable
```

```
php bin/magento module:enable --clear-static-content Apptrian_ImageOptimizer
```

```
php bin/magento setup:upgrade
```

```
php bin/magento cache:flush
```

```
php bin/magento setup:static-content:deploy
```

```
php bin/magento maintenance:disable
```

```
php bin/magento cache:flush
```

If you do not know how to install an extension or you wish a professional to do it for you, we offer an additional Installation service for a small fee.

Configuration

Find Image Optimizer "bin" directory. (Can be "app/code/Apptrian/ImageOptimizer/bin" or "vendor/apptrian/image-optimizer/bin".) Set execute permissions on **files** inside this directory. These permissions are usually 755. (If you already have gifsicle, jpegtran, and optipng installed on your server use "Utility Exact Path" fields to point extension to your installed versions of these utilities. If utilities are added to the system path then in "Utility Exact Path" fields type only the name of the utility.)

For sites with many images please be aware of the **memory_limit** requirement. Our extension is tested with 1000000+ images in the index. To operate an index with 1000000+ images you need to set PHP value **memory_limit** to 2048M or more. You should not worry about this for sites with up to 500000 images because Magento 2 default value for **memory_limit** is 768M (you can see this in a .htaccess file in your Magento root and this is also where you change **memory_limit** if needed).

Testing

Please test the extension before you use it!

Download [testimages.zip](#) file (inside are test images that are not optimized). Unpack the testimages.zip file into your Magento "pub" directory. Then in our extension configuration for the option "Paths" remove everything and type "pub/testimages". Click the "Start Scan and Reindex Process" button and after it is finished click the "Start Optimization Process" button. After it is finished download files from the "pub/testimages" directory and compare them with the ones in the testimages.zip file. Downloaded files should be smaller in size. (It does not matter how much smaller just needs to be different file size. These are just the test images.) If it is working delete the "testimages" directory from your Magento "pub" directory and in extension configuration for the option "Paths" type "pub". Now you can use the extension.

Be aware that some third-party optimization utilities like optipng might change image file permissions to 664 or 666 after optimization. This is not always desirable so to make sure all optimized images have the right permissions after optimization use the "Force File Permissions" option in our extension config and type permissions you want. Example: 0644 (These permissions might not be good for your server so the best way to know is to look what are your images permissions before you start optimization.)

Be aware that included versions of binary utilities gifsicle, jpegtran, and optipng might not work on every server. If the file size of test images (in bytes) does not change after optimization this means that a particular utility is not compatible with your server. In that case, you need to install a version of the utility specifically created for your server OS.

gifsicle

If you are on Debian/Ubuntu:

```
sudo apt-get install gifsicle
```

If you are on Fedora/Centos/RedHat:

```
sudo yum -y install gifsicle
```

jpegtran

If you are on Debian/Ubuntu:

```
sudo apt-get install libjpeg-progs
```

If you are on Fedora/Centos/RedHat:

```
sudo yum install libjpeg-turbo-utils
```

optipng

If you are on Debian/Ubuntu:

```
sudo apt-get update
```

```
sudo apt-get install optipng
```

If you are on Fedora/Centos/RedHat:

```
sudo yum install optipng
```

After utility or utilities are installed, use "GIF Utility Exact Path", "JPG Utility Exact Path", and "PNG Utility Exact Path" and type full path where these are installed on your server or just binary utility name "gifsicle", "jpegtran", "optipng" (without quotes). (Properly installed binary utilities are usually added to the system path so you do not need to type full path for these options.)

Installing the above-mentioned utilities would probably require root access. Because of this, you will probably need to contact your server support. Some shared hosting services do not allow the installation of any binary utility. In that case, you will not be able to use our extension.

Installation of binary utilities on your server is **not** covered by our installation service nor support service.

If you do not know how to install and/or test the extension or you wish a professional to do it for you, we

offer an additional Installation service (that includes testing) for a small fee.

If you want to configure it differently log to your Magento Admin and go to

Stores > Configuration > Apptrian Extensions > Image Optimizer

All options are self-explanatory and have tooltips for additional information.

After changing options make sure you refresh your Magento cache.

If you are an advanced user or web developer you will be pleased to know that extension is fully configurable. You can change optimization options even swap utilities used for optimization with the ones you like. The only requirement is that they are command line utilities. By default, our extension is using optimization utilities recommended by Google PageSpeed Insights. These are gifsicle, jpegtran, and optipng. For example, you could change utility for JPG optimization, and instead of jpegtran use jpegoptim. To do this in extension configuration change "JPG Utility" option to "jpegoptim" and for "JPG Utility Options" type "--strip-all %filepath%". If jpegoptim is installed on your server then for "JPG Utility Exact Path" type "jpegoptim".

Image Optimizer is fully compatible with Google Perceptual JPEG encoder "guetzli"

However, you need to:

1. Install guetzli on your server.

This is not covered by our Installation and Support services. More info on how to install guetzli can be found [here](#).

2. Configure our extension to use guetzli.

In our extension config in the "Utility" section

For "JPG Utility" type **guetzli**

For "JPG Utility Exact Path" type full path where you installed guetzli or if you added it to the system path then type only the name of the binary it should be **guetzli**

For "JPG Utility Options" type:

--quality 90 %filepath% %filepath%

you can adjust the quality option to your liking.

3. Test optimization by using test images we provided and manually compare file size before and after optimization. (Configuring and testing guetzli is covered by our Installation and Support services.)

Be aware of the following:

Guetzli is a "lossy" compressor. This means you will lose some image quality. (By default our extension is using jpegtran and there is no change in image quality after optimization.)

Guetzli is much slower than jpegtran.

IMPORTANT NOTICE

In order to pass the [Google PageSpeed Insights](#) test regarding image optimization Google Perceptual JPEG encoder "guetzli" is required.

Use [GTmetrix](#) to check your image optimization status.

This extension is FREE, however, support is NOT

Please understand that we get more than a few emails almost every day asking for support. In most cases, problems are lack of basic Magento knowledge and not reading Installation Instructions. Due to our other projects, we do not have time to answer all of them. Because of this, we cannot provide free support for our free extensions. However, we offer very affordable support options.