

Gridfs example in php

Step 1: Download the Composer Installer

Go to the Composer download page:

Open your browser and visit the Composer official website:

<https://getcomposer.org/>

Download the Windows Installer:

On the Composer homepage, click on the "Getting Started" section and then click "Download Composer". Alternatively, you can directly download the Windows installer by clicking on the link:

Composer-Setup.exe

This will download a file named Composer-Setup.exe to your computer.

Step 2: Run the Composer Installer

Run the installer:

Once the download is complete, double-click the Composer-Setup.exe file to run the installer.

Step 3: Verify Composer Installation

1. Open a Command Prompt:

Press `Win + R`, type `cmd`, and press `Enter` to open the Command Prompt.

2. Check Composer version:

In the Command Prompt, type the following command to verify that Composer is installed correctly:

```
composer --version
```

Step 4: Add PHP to PATH manually:

If PHP is not added to the PATH, you can manually add it:

- Open **System Properties** → **Advanced system settings** → **Environment Variables**.
- Under **System Variables**, find the `Path` variable and click **Edit**.
- Add the path to your PHP folder (e.g., `C:\php` or `C:\Program Files\php`).
- Click **OK** to save, then restart the Command Prompt and check Composer again with `composer --version`.

Step 5: Using Composer

- **Create a new directory for your project:**

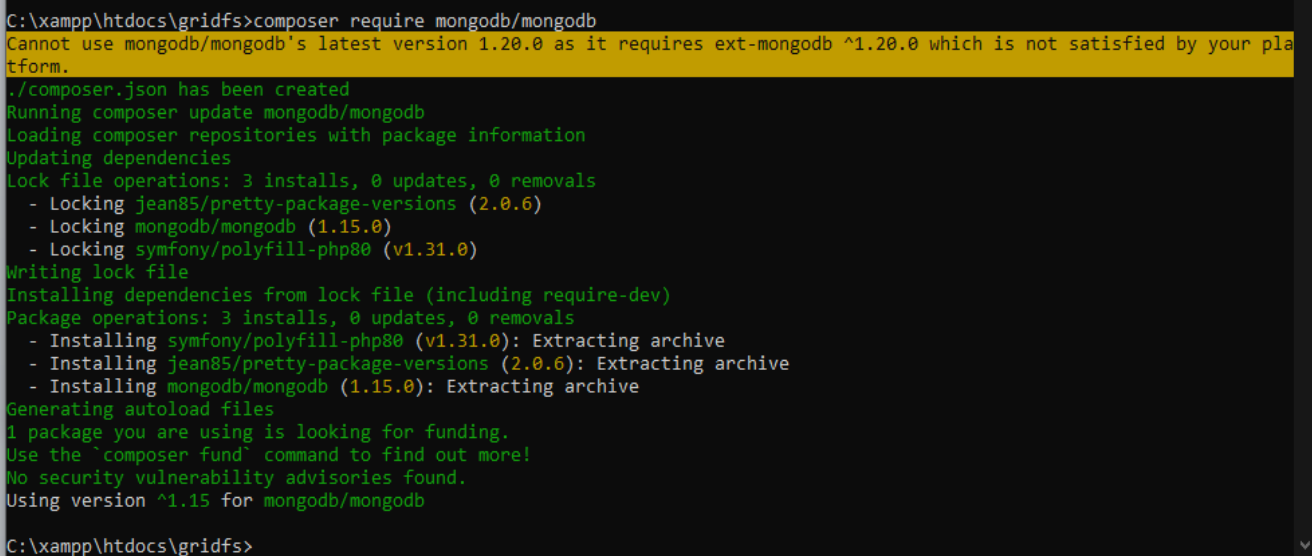
Navigate to the folder where you want your project to reside. For example:

```
mkdir my-php-project
cd my-php-project
```

- **Install a PHP library (e.g., MongoDB PHP driver):**

To install the MongoDB PHP driver via Composer, run:

```
composer require mongodb/mongodb
```



```
C:\xampp\htdocs\gridfs>composer require mongodb/mongodb
Cannot use mongodb/mongodb's latest version 1.20.0 as it requires ext-mongodb ^1.20.0 which is not satisfied by your platform.
./composer.json has been created
Running composer update mongodb/mongodb
Loading composer repositories with package information
Updating dependencies
Lock file operations: 3 installs, 0 updates, 0 removals
  - Locking jean85/pretty-package-versions (2.0.6)
  - Locking mongodb/mongodb (1.15.0)
  - Locking symfony/polyfill-php80 (v1.31.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 3 installs, 0 updates, 0 removals
  - Installing symfony/polyfill-php80 (v1.31.0): Extracting archive
  - Installing jean85/pretty-package-versions (2.0.6): Extracting archive
  - Installing mongodb/mongodb (1.15.0): Extracting archive
Generating autoload files
1 package you are using is looking for funding.
Use the `composer fund` command to find out more!
No security vulnerability advisories found.
Using version ^1.15 for mongodb/mongodb
C:\xampp\htdocs\gridfs>
```

Step 6: create a .php file in htdocs/gridfs directory

Gridfs_example.php

```
<?php
```

```
require 'vendor/autoload.php'; // Ensure you are using Composer's autoloader
```

```
// Create a MongoDB client
```

```
$client = new MongoClient("mongodb://localhost:27017");
```

```
// Select a database and GridFS bucket
```

```
$database = $client->selectDatabase('test');
```

```
$bucket = $database->selectGridFSBucket();
```

// Example: Upload a file to GridFS

```
function uploadFile($filePath) {
```

```
    global $bucket;
```

```
    // Open the file to upload
```

```
    $file = fopen($filePath, 'rb'); // Open file in binary read mode
```

```
    // Upload the file to GridFS
```

```
    $fileId = $bucket->uploadFromStream(basename($filePath), $file);
```

```
    // Close the file
```

```
    fclose($file);
```

```
    return $fileId;
```

```
}
```

// Example: Download a file from GridFS

```
function downloadFile($fileId, $outputPath) {
```

```
    global $bucket;
```

```
    // Open a file for writing the downloaded content
```

```
    $file = fopen($outputPath, 'wb'); // Open file in binary write mode
```

```
    // Download the file from GridFS using its file ID
```

```
    $bucket->downloadToStream($fileId, $file);
```

```
    // Close the file
```

```
    fclose($file);
}

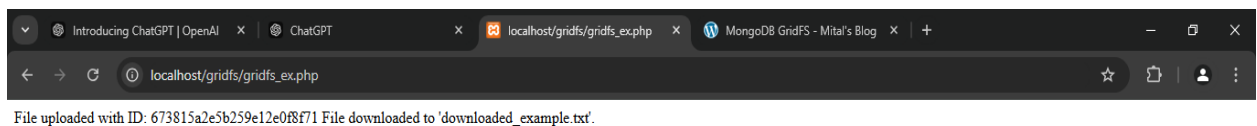
// Example usage

// Upload a file (e.g., 'example.txt')
$fileId = uploadFile('example.txt');
echo "File uploaded with ID: $fileId\n";

// Now download the file to a different location
downloadFile($fileId, 'downloaded_example.txt');
echo "File downloaded to 'downloaded_example.txt'.\n";

?>
```

Step 7: run file in browser



Step 7: check file in mongod

```
The server generated these startup warnings when booting
2024-11-16T08:11:59.926+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----
Warning: Found ~/.mongorc.js, but not ~/.mongoshrc.js. ~/.mongorc.js will not be loaded.
You may want to copy or rename ~/.mongorc.js to ~/.mongoshrc.js.
test> show dbs
admin      40.00 KiB
config    60.00 KiB
local     72.00 KiB
test     120.00 KiB
test> use test
already on db test
test> show collections
fs.chunks
fs.files
test> db.fs.files.find()
[
  {
    _id: ObjectId('673815a2e5b259e12e0f8f71'),
    chunkSize: 261120,
    filename: 'example.txt',
    length: 28,
    uploadDate: ISODate('2024-11-16T03:46:42.690Z'),
    md5: '43bbb6361864eb01aa7bcbf1aff9e6e2'
  }
]
test> _
```

Gridfs Example manually add file

How to Add files in gridFS

step -1 download database tools in mongodb official website

<https://www.mongodb.com/try/download/database-tools>

Tool name:MongoDB Command Line Database Tools Download

step -2 extract files and copy to all files in bin folder.

step -3 use this command

```
C:\MongoDb\bin>mongofiles -d mydatabase put unit4.pdf
```

step -4 connect mongodb server

```
test> use mydatabase
```

```
mydatabase> db.fs.files.find()
```

```
[
  {
    _id: ObjectId('672c42cf8f5961ed7650ca6a'),
    length: Long('427620'),
    chunkSize: 261120,
    uploadDate: ISODate('2024-11-07T04:32:15.120Z'),
```

```
filename: 'unit4.pdf',  
metadata: {}  
}  
]
```

```
db.fs.chunks.find({files_id:ObjectId('672c42cf8f5961ed7650ca6a')})
```