

File upload

In order to handle file uploading, Nest makes use of **multer** middleware. This middleware is fully configurable and you can adjust its behavior to your application requirements.

Multer is middleware for handling multipart/form-data, which is primarily used for uploading files.

WARNING

Multer will not process any form which is not multipart (multipart/form-data). Besides, this package won't work with the FastifyAdapter .

Basic example

When we want to upload a single file, we simply tie FileInterceptor() to the handler, and then, pull outs file from the request using @UploadedFile() decorator.

```
@Post('upload')
@UseInterceptors(FileInterceptor('file'))
uploadFile(@UploadedFile() file) {
   console.log(file);
}
```

HINT

FileInterceptor() decorator is exported from @nestjs/platform-express package while @UploadedFile() from @nestjs/common .

The FileInterceptor() takes two arguments, a fieldName (points to field from HTML form that holds a file) and optional options object. These MulterOptions are equivalent to those passed into multer constructor (more details here)

Array of files

In order to upload an array of files, we use FilesInterceptor(). This interceptor takes three arguments. A fieldName
(that remains the same), maxCount which is a maximum number of files that can be uploaded at the same time, and optional MulterOptions object. Additionally, to pick files from request object, we use @UploadedFiles() decorator

```
JS
@Post('upload')
@UseInterceptors(FilesInterceptor('files'))
uploadFile(@UploadedFiles() files) {
  console.log(files);
```

HINT

FilesInterceptor() decorator is exported from @nestjs/platform-express package while @UploadedFiles() from @nestjs/common .

Multiple files

To upload multiple fields (all with different keys), we use FileFieldsInterceptor() decorator.

```
JS
@Post('upload')
@UseInterceptors(FileFieldsInterceptor([
  { name: 'avatar', maxCount: 1 },
  { name: 'background', maxCount: 1 },
]))
uploadFile(@UploadedFiles() files) {
  console.log(files);
```

Default options

To customize multer behavior, you can register the MulterModule. We support all options listed here.

```
MulterModule.register({
  dest: '/upload',
});
```

Async configuration

Quite often you might want to asynchronously pass your module options instead of passing them beforehand. In such case, use registerAsync() method, that provides a couple of various ways to deal with async data.

...., ..., ..., ..., ..., ..., ..., ...

First possible approach is to use a factory function:

```
MulterModule.registerAsync({
   useFactory: () => ({
     dest: '/upload',
   }),
});
```

Obviously, our factory behaves like every other one (might be async and is able to inject dependencies through inject).

```
MulterModule.registerAsync({
   imports: [ConfigModule],
   useFactory: async (configService: ConfigService) => ({
     dest: configService.getString('MULTER_DEST'),
   }),
   inject: [ConfigService],
});
```

Alternatively, you are able to use class instead of a factory.

```
MulterModule.registerAsync({
   useClass: MulterConfigService,
});
```

Above construction will instantiate MulterConfigService inside MulterModule and will leverage it to create options object. The MulterConfigService has to implement MulterOptionsFactory interface.

```
@Injectable()
class MulterConfigService implements MulterOptionsFactory {
  createMulterOptions(): MulterModuleOptions {
    return {
      dest: '/upload',
      };
  }
}
```

In order to prevent the creation of MulterConfigService inside MulterModule and use a provider imported from a different module, you can use the useExisting syntax.

```
MulterModule.registerAsync({
   imports: [ConfigModule],
   useExisting: ConfigService,
});
```

It works the same as useClass with one critical difference - MulterModule will lookup imported modules to reuse already created ConfigService , instead of instantiating it on its own.

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