

# Image-Upload

## S3 Multer Solutions

```
backend > src > Posts > ts posts.module.ts > PostsModule
  6 import { MulterModule } from '@nestjs/platform-express';
  7 import { ImageEntity } from 'src/Images/Images.entity';
  8 import { AwsService } from 'src/common/aws/aws.service';
  9 import { UserPostLikeEntity } from 'src/UserPostLikes/userPost
10
11 @Module({
12   imports: [
13     MulterModule.register({
14       dest: './upload',
15     }),
16     TypeOrmModule.forFeature([PostEntity, ImageEntity, UserPos
17   ],
18   controllers: [PostsController],
19   providers: [PostsService, AwsService],
20   exports: [PostsService],
21 })
22 export class PostsModule {}
```

```
posts.module.ts x
backend > src > Posts > ts posts.module.ts > ...
  6 import { MulterModule } from '@nestjs/platform-express';
  7 import { ImageEntity } from 'src/Images/Images.entity';
  8 import { AwsService } from 'src/common/aws/aws.service';
  9 import { UserPostLikeEntity } from 'src/UserPostLikes/userPost
10
11 @Module({
12   imports: [
13     MulterModule.register(),
14     TypeOrmModule.forFeature([PostEntity, ImageEntity, UserPos
15   ],
16   controllers: [PostsController],
17   providers: [PostsService, AwsService],
18   exports: [PostsService],
19 })
20 export class PostsModule {}
```

파일이 저장되는 엔드포인트를 수정

```
{
 fieldname: 'file',
originalname: '스크린샷 2023-01-16 오후 1.43.08.png',
encoding: '7bit',
mimetype: 'image/png',
destination: './upload',
filename: '225bbf342b5eaf82bfe968787eb89e9e',
path: 'upload/225bbf342b5eaf82bfe968787eb89e9e',
size: 26303
}
```

Path 라는곳에 먼저 저장이 되고  
주소가 담겨있는 모습

```
{
 fieldname: 'file',
originalname: '스크린샷 2023-01-16 오후 1.43.08.png',
encoding: '7bit',
mimetype: 'image/png',
buffer: <Buffer 89 50 4e 47 0d 0a 1a 0a 00 00 00 0d 49 48 44 52 00 00 00 90 00 00 00
3 43 50 49 43 43 20 50 72 6f 66 69 ... 26253 more bytes>,
size: 26303
}
```

# Heap Memory ? Trouble

컴파일 중 heap memory 부족으로 터져버린 서버

```
[12141:0x60c6900] 19041 ms: Mark-sweep (reduce) 482.2 (487.3) -> 481.4 (487.5) MB, 627.6 / 0.1 ms (+ 0.1
ms in 16 steps since start of marking, biggest step 0.0 ms, walltime since start of marking 644 ms) (average
mu = 0.102, current mu = 0.026) alloc

<-- JS stacktrace -->

FATAL ERROR: Ineffective mark-compacts near heap limit Allocation failed - JavaScript heap out of memory
1: 0xa3ac30 node::Abort() [node]
2: 0x970199 node::FatalError(char const*, char const*) [node]
3: 0xbba76e v8::Utils::ReportOOMFailure(v8::internal::Isolate*, char const*, bool) [node]
4: 0xbbaae7 v8::internal::V8::FatalProcessOutOfMemory(v8::internal::Isolate*, char const*, bool) [node]
5: 0xd76d05 [node]
6: 0xd7788f [node]
7: 0xd856cb v8::internal::Heap::CollectGarbage(v8::internal::AllocationSpace, v8::internal::GarbageCollectio
nReason, v8::GCCallbackFlags) [node]
8: 0xd8928c v8::internal::Heap::AllocateRawWithRetryOrFailSlowPath(int, v8::internal::AllocationType, v8::in
ternal::AllocationOrigin, v8::internal::AllocationAlignment) [node]
9: 0xd5796b v8::internal::Factory::NewFillerObject(int, bool, v8::internal::AllocationType, v8::internal::Al
locationOrigin) [node]
10: 0x109ffbf v8::internal::Runtime_AllocateInYoungGeneration(int, unsigned long*, v8::internal::Isolate*) [n
ode]
11: 0x14491d9 [node]
Aborted
[ec2-user@ip-172-30-0-233 backend]$
```

