

Performance (Fastify)

By default, Nest makes use of the Express framework. As mentioned earlier, Nest also provides compatibility with other libraries such as, for example, Fastify. Nest achieves this framework independence by implementing a framework adapter whose primary function is to proxy middleware and handlers to appropriate library-specific implementations.

HINT

Note that in order for a framework adapter to be implemented, the target library has to provide similar request/response pipeline processing as found in Express.

Fastify provides a good alternative framework for Nest because it solves design issues in a similar manner to Express. However, fastify is much faster than Express, achieving almost two times better benchmarks results. A fair question is why does Nest use Express as the default HTTP provider? The reason is that Express is widely-used, well-known, and has an enormous set of compatible middleware, which is available to Nest users out-of-the-box.

But since Nest provides framework-independence, you can easily migrate between them. Fastify can be a better choice when you place high value on very fast performance. To utilize Fastify, simply choose the built-in FastifyAdapter as shown in this chapter.

Installation

First, we need to install the required package:

```
$ npm i --save @nestjs/platform-fastify
```

Adapter

Once the Fastify platform is installed, we can use the $\mbox{{\tt FastifyAdapter}}$.

```
// src/main.ts
import { NestFactory } from '@nestjs/core';
import {
   FastifyAdapter,
   NestFastifyApplication,
} from '@nestjs/platform-fastify';
import { ApplicationModule } from './app.module';

async function bootstrap() {
   const_app = await NestFactory creates/NestFastifyApplication>(
```

```
ApplicationModule,
   new FastifyAdapter()
   );
   await app.listen(3000);
}
bootstrap();
```

By default, Fastify listens only on the localhost 127.0.0.1 interface (read more). If you want to accept connections on other hosts, you should specify '0.0.0.0' in the listen() call:

```
async function bootstrap() {
  const app = await NestFactory.create<NestFastifyApplication>(
    ApplicationModule,
    new FastifyAdapter()
  );
  await app.listen(3000, '0.0.0.0');
}
```

Platform specific packages

Keep in mind that when you use the FastifyAdapter, Nest uses Fastify as the HTTP provider. This means that each recipe that relies on Express may no longer work. You should, instead, use Fastify equivalent packages.

Fastify options

You can pass options into the Fastify constructor through the FastifyAdapter constructor. For example:

```
new FastifyAdapter({ logger: true });
```

Example

A working example is available here.

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