

Helmet

[Helmet](#) can help protect your app from some well-known web vulnerabilities by setting HTTP headers appropriately. Generally, Helmet is just a collection of smaller middleware functions that set security-related HTTP headers (read [more](#)).

info Hint Note that applying `helmet` as global or registering it must come before other calls to `app.use()` or setup functions that may call `app.use()`. This is due to the way the underlying platform (i.e., Express or Fastify) works, where the order that middleware/routes are defined matters. If you use middleware like `helmet` or `cors` after you define a route, then that middleware will not apply to that route, it will only apply to routes defined after the middleware.

Use with Express (default)

Start by installing the required package.

```
$ npm i --save helmet
```

Once the installation is complete, apply it as a global middleware.

```
import helmet from 'helmet';  
// somewhere in your initialization file  
app.use(helmet());
```

warning Warning When using `helmet`, `@apollo/server` (4.x), and the [Apollo Sandbox](#), there may be a problem with [CSP](#) on the Apollo Sandbox. To solve this issue configure the CSP as shown below:

```
app.use(helmet({  
  crossOriginEmbedderPolicy: false,  
  contentSecurityPolicy: {  
    directives: {  
      imgSrc: ['self', 'data:', 'apollo-server-landing-  
page.cdn.apollographql.com'],  
      scriptSrc: ['self', 'https: unsafe-inline'],  
      manifestSrc: ['self', 'apollo-server-landing-  
page.cdn.apollographql.com'],  
      frameSrc: ['self', 'sandbox.embed.apollographql.com'],  
    },  
  },  
}));
```

Use with Fastify

If you are using the `FastifyAdapter`, install the `@fastify/helmet` package:

```
$ npm i --save @fastify/helmet
```

`fastify-helmet` should not be used as a middleware, but as a `Fastify plugin`, i.e., by using `app.register()`:

```
import helmet from '@fastify/helmet'
// somewhere in your initialization file
await app.register(helmet)
```

Warning When using `apollo-server-fastify` and `@fastify/helmet`, there may be a problem with `CSP` on the GraphQL playground, to solve this collision, configure the CSP as shown below:

```
await app.register(fastifyHelmet, {
  contentSecurityPolicy: {
    directives: {
      defaultSrc: ['self', 'unpkg.com'],
      styleSrc: [
        'self',
        'unsafe-inline',
        'cdn.jsdelivr.net',
        'fonts.googleapis.com',
        'unpkg.com',
      ],
      fontSrc: ['self', 'fonts.gstatic.com', 'data:'],
      imgSrc: ['self', 'data:', 'cdn.jsdelivr.net'],
      scriptSrc: [
        'self',
        'https: unsafe-inline',
        'cdn.jsdelivr.net',
        'unsafe-eval',
      ],
    },
  },
});

// If you are not going to use CSP at all, you can use this:
await app.register(fastifyHelmet, {
  contentSecurityPolicy: false,
});
```