

# HELMET JS



# What is Helmet.js?



Helmet.js is a Node.js middleware that secures your Express apps by setting various HTTP headers.

It helps prevent well-known web vulnerabilities by configuring HTTP headers appropriately.

```
const helmet = require('helmet');
const express = require('express');
const app = express();

app.use(helmet());
```

# Key Features of Helmet.js



- **DNS Prefetching Control:** Disables browser DNS prefetching for security.
- **HSTS:** Enforces secure (HTTPS) connections to the server.
- **XSS Filter:** Enables Cross-Site Scripting (XSS) filter in browsers.
- **Content Security Policy:** Prevents cross-site scripting attacks by controlling resources the client can load.

```
app.use(helmet.hsts());  
app.use(helmet.noSniff());  
app.use(helmet.xssFilter());
```



# How to Use Helmet.js in Your App



Install Helmet.js via npm. Step 2: Use it in your Express app by calling `app.use(helmet())`.

```
const express = require('express');
const helmet = require('helmet');
const app = express();

app.use(helmet());
```

Helmet.js is easy to integrate and requires minimal configuration.

# Configuring Helmet.js for Specific Needs

Customization: Helmet.js allows you to configure each security middleware according to your app's needs.

```
app.use(helmet({
  contentSecurityPolicy: {
    directives: {
      defaultSrc: ["'self'"],
      scriptSrc: ["'self'", "'trusted-cdn.com'"]
    }
  },
  hsts: false, // Disable HSTS
}));
```

Customization gives you flexibility in applying security headers based on

# Common Use Cases for Helmet.js

- **Preventing Clickjacking:** Helmet's frameguard middleware helps prevent clickjacking attacks.
- **Securing Sensitive Information:** noSniff helps prevent browsers from trying to guess (sniff) the MIME type.
- **Improving HTTPS Security:** Enforce HTTPS connections using HSTS with Helmet.

```
app.use(helmet.frameguard({ action: 'deny' }));  
app.use(helmet.noSniff());  
app.use(helmet.hsts({ maxAge: 31536000 }));
```