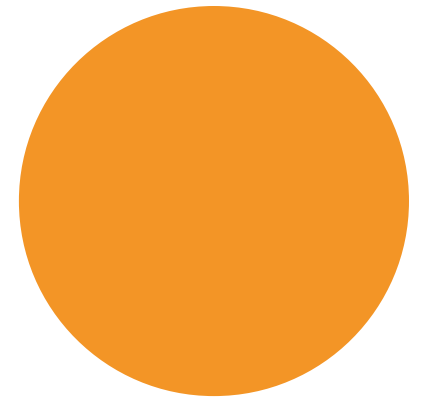# ! How to use Multer in Nodejs

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What is Multer?

Multer is a Node.js middleware designed to handle file uploads in forms. It's widely used with Express to upload files directly from clients to your server.

Install Multer via npm:

```
npm install multer
```

Setup Multer in Your Node.js Application

In your **app.js** or **server.js** file, configure Multer by creating a storage engine and defining file upload behavior.

```js
const multer = require('multer');
const path = require('path');

// Set up storage engine
const storage = multer.diskStorage({
  destination: './uploads/', // Folder where files will be stored
  filename: (req, file, cb) => {
    cb(null, file.fieldname + '-' + Date.now() + path.extname(file.originalname));
  }
});

// Initialize upload middleware
const upload = multer({
  storage: storage,
  limits: { fileSize: 1000000 }, // Limit file size to 1MB
}).single('myFile'); // 'myFile' is the name attribute from the form
```

Route to Handle Upload

Now, create a **route** in **Express** to handle file uploads:

```javascript
app.post('/upload', (req, res) => {
  upload(req, res, (err) => {
    if (err) {
      res.status(500).send('File upload failed');
    } else {
      res.send('File uploaded successfully!');
    }
  });
});
```

Serving Static Files

Ensure that your **server** can **serve static files** such as **uploaded images**:

```
app.use('/uploads', express.static('uploads'));
```

Key Features of Multer:

- **Custom File Storage:** Decide how and where to store files.

- **File Size Limits:** Protect your server from large uploads.

- **Single vs. Multiple Uploads:** Handle one file or multiple uploads with ease.