

## 27. Mount any directory of host system to the container.

### Folder Structure

```
file-upload-api/  
├── Dockerfile  
├── docker-compose.yml  
├── package.json  
└── src/  
    └── server.js
```

### 1. Create a Folder

```
mkdir file-upload-api  
cd file-upload-api
```

### 2. create a Package.json

```
npm init -y  
npm install express
```

### 3. Create **src/server.js**:

```
// src/server.js
```

```
const express = require('express');  
const fs = require('fs');  
const path = require('path');
```

```
const app = express();  
const PORT = process.env.PORT || 3000;  
const HOST_DIR = process.env.HOST_DIR || '/mounted';
```

```
// Endpoint to list files
app.get('/files', (req, res) => {
  fs.readdir(HOST_DIR, (err, files) => {
    if (err) {
      return res.status(500).json({ error: 'Unable to read directory'
    });
    }
    res.json(files);
  });
});
```

```
// Endpoint to get a specific file's contents
app.get('/files/:filename', (req, res) => {
  const filePath = path.join(HOST_DIR, req.params.filename);
  fs.readFile(filePath, 'utf8', (err, data) => {
    if (err) {
      return res.status(404).json({ error: 'File not found' });
    }
    res.send(data);
  });
});
```

```
app.listen(PORT, () => {
  console.log(`File Viewer API running on
http://localhost:${PORT}`);
  console.log(`Serving files from ${HOST_DIR}`);
});
```

## 4. Create Dockerfile

```
# Use an official Node.js image as the base
FROM node:18
```

```
# Set the working directory
WORKDIR /app
```

```
# Copy package.json and install dependencies
COPY package.json ./
RUN npm install
```

```
# Copy the rest of the application code
COPY src ./src
```

```
# Expose the application port
EXPOSE 3000
```

```
# Run the app
CMD ["node", "src/server.js"]
```

## 5. Create **docker-compose.yml**

```
version: '3'
services:
  file-upload:
    build: .
    ports:
      - '3000:3000'
    volumes:
      - ./uploads:/app/uploads
```

```
environment:  
  - PORT=3000
```

## 6.Command

```
docker-compose up --build
```

For testing use a postman or thunder

To list files in the mounted directory:

`http://localhost:3000/files`

To view a specific file's content:

<http://localhost:3000/files/<filename>>

Use a get request and send any text file and show result

New directory is form

`/host-directory/`

├─ file1.txt

├─ file2.txt

└─ file3.txt

