

Setup Guide for Visual Studio Code, React, Node.js, and InfluxDB

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1 System Requirements

For Windows:

- Windows 10 or later
- Minimum 4GB RAM (8GB recommended)
- 10GB of free disk space
- Stable internet connection

For Mac:

- macOS Catalina (10.15) or later
- Minimum 4GB RAM (8GB recommended)
- 10GB of free disk space
- Stable internet connection

2 Installing Visual Studio Code

1. Visit [Visual Studio Code Official Website](#).
2. Download the installer for your operating system (Windows or macOS).
3. Run the installer and follow the on-screen instructions.
4. Install recommended extensions:
 - ESLint
 - Prettier - Code Formatter
 - Material Icon Theme

3 Installing Node.js

1. Visit [Node.js Official Website](#).
2. Download the LTS version for your operating system.
3. Run the installer and follow the on-screen instructions.
4. Verify the installation:

```
node -v  
npm -v
```

4 Setting Up Create-React-App

1. Open a terminal or command prompt.
2. Run the following command:

```
npx create-react-app my-app
```

3. Navigate to the project directory:

```
cd my-app
```

4. Start the development server:

```
npm start
```

5 Installing InfluxDB

1. Visit [InfluxDB Official Website](#).
2. Download and install InfluxDB for your operating system.
3. Start InfluxDB using the provided instructions.
4. Access the InfluxDB UI at <http://localhost:8086>.
5. Create a new bucket.

6 Cloning a GitHub Project

1. Ensure `git` is installed. Verify with:

```
git --version
```

2. Clone the repository:

```
git clone <repository-url>
```

3. Navigate to the main directory:

```
cd <project-directory>
```

7 Installing Dependencies

1. Install main project dependencies:

```
npm install
```

2. Navigate to the backend folder and install dependencies:

```
cd backend  
npm install
```

3. Navigate to the frontend folder and install dependencies:

```
cd ../frontend  
npm install
```

8 Setting Up Environment Variables

1. In the root of the project, create a `.env` file.
2. Add necessary variables. Example:

```
REACT_APP_API_URL=http://localhost:8080  
INFLUXDB_TOKEN=your-token
```

9 Creating a Bucket in InfluxDB

1. Open the InfluxDB UI at `http://localhost:8086`.
2. Navigate to **Data > Buckets**.
3. Click **Create Bucket** and provide a name.
4. Adjust retention policies as needed.

10 Final Steps

1. Start the backend server:

```
cd backend  
npm start
```

2. Start the frontend server:

```
cd ../frontend  
npm start
```

You are now ready to start working on your project!