

# PROXY ENDPOINTS IN NODE.JS

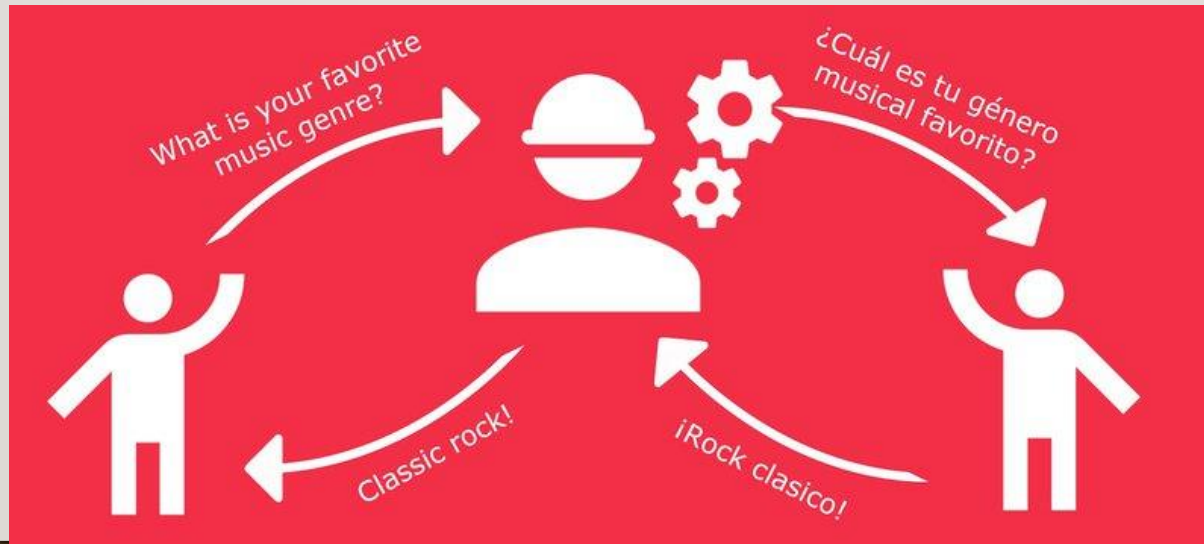
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# PROXY

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- A *proxy* may refer to a person who is authorized to act for another or it may designate the function or authority of serving in another's stead. A proxy server is a server application or appliance that acts as an intermediary for requests from clients seeking resources from servers that provide those resources.



# WEBPACK

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- Webpack is a build tool that makes working with static assets easier. Using Webpack, you can easily transform and optimize JavaScript, CSS, images and more from a single configuration.
- Angular CLI added the webpack-dev-server as the development server. The webpack-dev-server makes use of the http-proxy-middleware package, which allows us to send API requests on the same domain.
- GET <http://localhost:47598/api/books>
- GET <http://localhost:4200/api/books>

# WEBPACK-DEV-SERVER

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- The Angular CLI hides all that webpack complexity. However, that simplicity comes at the price of flexibility. By using the Angular CLI you lose the ability to configure and customize webpack.
- `webpack.config.js`



# PROXYING ALL URLS START WITH /API

- Create a json file: proxy.conf.json
- Add the Json Config for the proxy:
- Update the angular.json file in the serve option:
- (Optional) update the package.json script to grab the script start and perform the proxy config:

```
{
  "**/WeatherForecast": {
    "target": "https://localhost:44328/",
    "secure": false,
    "logLevel": "debug"
  }
}
```

```
"serve": {
  "builder": "@angular-devkit/build-angular:dev-server",
  "options": {
    "browserTarget": "ProxyTest:build",
    "proxyConfig": "src/proxy.conf.json"
  },
  "configurations": {
    "production": {
      "browserTarget": "ProxyTest:build:production"
    }
  }
},
```

```
"scripts": {
  "ng": "ng",
  "start": "ng serve --proxy-config src/proxy-multi.conf.json",
  "build": "ng build",
  "test": "ng test",
  "lint": "ng lint",
  "e2e": "ng e2e"
},
```

# MULTIPLE APP ENTRIES TO ONE API ENDPOINT

- Create a js file: proxy.conf.js
- Add the js Config for the proxy:
- Update the angular.json file in the serve option:
- (Optional) update the package.json script to grab the script start and perform the proxy config:

```
const PROXY_CONFIG = [  
  {  
    context: [  
      "/EMEX_RestApi/api/TipoCambio",  
      "/EMEX_RestApi/api/ClockServ",  
    ],  
    target: "http://192.168.1.2",  
    secure: false,  
    logLevel: "debug"  
  }  
]  
  
module.exports = PROXY_CONFIG;
```

```
"browserTarget": "ProxyTest:build",  
"proxyConfig": "src/proxy.conf.js"
```

```
"start": "ng serve --proxy-config src/proxy.conf.js",
```

# MULTIPLE APP ENTRIES WITH MULTIPLE ENDPOINTS

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- Create a js file: proxy.conf.json(it can be js)
- Add the json Config for the proxy:
- Update the angular.json file in the serve option:
- (Optional) update the package.json script to grab the script start and perform the proxy config:

```
{  
  "/WeatherForecast": {  
    "target": "https://localhost:44328/",  
    "secure": false,  
    "logLevel": "debug"  
  },  
  "/api/": {  
    "target": "http://192.168.1.2/EMEX_RestApi/",  
    "secure": false,  
    "logLevel": "debug"  
  }  
}
```

```
"browserTarget": "ProxyTest:build",  
"proxyConfig": "src/proxy.conf.js"
```

```
"start": "ng serve --proxy-config src/proxy.conf.js",
```

# THIS IS NOT FOR PRODUCTION

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- This configuration is **ONLY** for your development setup and should not be used in production, simply because it isn't made for that. There are other, much more sophisticated solutions for your production environment



# RESOURCES

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- <https://www.merriam-webster.com/dictionary/proxy#note-1>
- <https://www.etymonline.com/word/proxy>
- <https://blazingseolllc.com/blog/what-are-proxies/>
- <https://www.samjulien.com/proxy-angular-cli-cors>
- <https://ryanharrison.co.uk/2020/02/29/angular-proxy-api-requests.html>
- <https://www.twilio.com/blog/node-js-proxy-server>
- <https://webpack.js.org/>
- <https://webpack.js.org/configuration/dev-server/#devserverproxy>
- <https://hackernoon.com/webpack-for-angular-developers-c8584a60e627>