
Práctica 3.2

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Instalación de Node.js

Comandos de instalación de NodeJS y NPM.

```
sudo apt install nodejs  
sudo apt install npm
```

```
mpozo@mpozo:~$ node --version  
v18.13.0  
mpozo@mpozo:~$ npm --version  
9.2.0  
mpozo@mpozo:~$
```

Instalación de ExpressJS

Comandos de instalación de ExpressJS.

```
sudo npm install -g express
```

```
mpozo@mpozo:~$ sudo npm install -g express  
  
added 62 packages in 4s  
  
11 packages are looking for funding  
  run `npm fund` for details
```

Primero aplicación

Lo primero que tendremos que hacer sera inicializar el proyecto en el directorio principal

```
mpozo@mpozo:~/Documentos/project$ npm init -y  
Wrote to /home/mpozo/Documentos/project/package.json:  
  
{  
  "name": "project",  
  "version": "1.0.0",  
  "description": "",  
  "main": "index.js",  
  "scripts": {  
    "test": "echo \"Error: no test specified\" && exit 1"  
  },  
  "keywords": [],  
  "author": "",  
  "license": "ISC"  
}
```

A continuación instalamos Express de forma local en el directorio.

```
mpozo@mpozo:~/Documentos/project$ sudo npm install express
added 62 packages, and audited 63 packages in 1s

11 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

Para finalizar creamos el fichero app.js y añadimos el siguiente contenido.

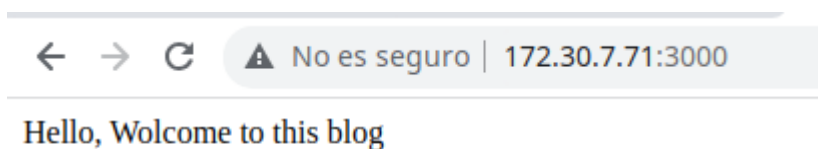
```
GNU nano 7.2 app.js
const express = require('express')
const app = express()
const port = 3000

app.get('/', (req, res) => {
  res.send("Hello, Wolcome to this blog")
})

app.listen(port, () => {
  console.log("Example app listening at https://localhost:${port}")
})
```

Para mostrar el contenido iniciamos el proyecto con el siguiente comando y en el puerto 3000 de nuestro localhost tendremos el resultado final.

```
mpozo@mpozo:~/Documentos/project$ node app.js
Example app listening at https://localhost:${port}
```



Segunda aplicación

Ahora en la siguiente aplicación nos bajamos el repositorio y en el directorio instalamos las librerías que vamos a utilizar.

```
mpozo@mpozo:~/Documentos/Shopping-Cart-Application$ npm install
npm WARN old lockfile
npm WARN old lockfile The package-lock.json file was created with an old version of n
pm,
npm WARN old lockfile so supplemental metadata must be fetched from the registry.
npm WARN old lockfile
npm WARN old lockfile This is a one-time fix-up, please be patient...
npm WARN old lockfile
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: 'Shopping-Cart-Application@1.0.0',
npm WARN EBADENGINE   required: { node: 'v14.15.3' },
npm WARN EBADENGINE   current: { node: 'v18.13.0', npm: '9.2.0' }
npm WARN EBADENGINE }

added 67 packages, and audited 68 packages in 5s

5 vulnerabilities (4 high, 1 critical)

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
mpozo@mpozo:~/Documentos/Shopping-Cart-Application$
```

A continuación si iniciamos la aplicación nos saltara un error.

```
mpozo@mpozo:~/Documentos/Shopping-Cart-Application$ npm run start

> Shopping-Cart-Application@1.0.0 start
> nodemon src/index.js

sh: 1: nodemon: not found
```

Para solucionar el problema tenemos que instalar nodemon con el siguiente comando.

Este comando agrega una dependencia en package.json.

```
mpozo@mpozo:~/Documentos/Shopping-Cart-Application$ npm i nodemon
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: 'Shopping-Cart-Application@1.0.0',
npm WARN EBADENGINE   required: { node: 'v14.15.3' },
npm WARN EBADENGINE   current: { node: 'v18.13.0', npm: '9.2.0' }
npm WARN EBADENGINE }

added 27 packages, changed 1 package, and audited 95 packages in 3s

3 packages are looking for funding
  run `npm fund` for details

4 vulnerabilities (3 high, 1 critical)

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
mpozo@mpozo:~/Documentos/Shopping-Cart-Application$
```

Después de solucionar el problema iniciamos la aplicación y vemos el resultado.

```
mpozo@mpozo:~/Documentos/Shopping-Cart-Application$ npm run start
> Shopping-Cart-Application@1.0.0 start
> nodemon src/index.js

[nodemon] 3.0.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node src/index.js`
server is running on PORT: 3000
```

← → ↻ ⚠ No es seguro | 172.30.7.71:3000

Hello World

[https://raul-](https://raul-...)

Cuestiones

¿Donde podemos ver que script se está ejecutando?

En package.json

¿Qué comando está ejecutando?

nodemon src/index.js

```
mpozo@mpozo:~/Documentos/Shopping-Cart-Application$ cat package.json
{
  "name": "Shopping-Cart-Application",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "nodemon src/index.js"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/MehedilslamRipon/Shopping-Cart-Application.git"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/MehedilslamRipon/Shopping-Cart-Application/issues"
  },
  "homepage": "https://github.com/MehedilslamRipon/Shopping-Cart-Application#readme"
,
  "dependencies": {
    "cors": "^2.8.5",
    "ejs": "^3.1.5",
    "express": "^4.17.1",
    "nodemon": "^3.0.1"
  },
  "engines": {
    "node": "v14.15.3"
  }
}
```