

Practica N° 3

Clonar proyecto ejecutando según instrucciones de clases

Backend

Verificando instalaciones: node, npm, yarn, nvm y git



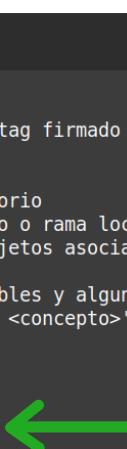
```
Archivo Editar Ver Buscar Terminal Ayuda
oem@Giovanna:~$ node --version
v20.18.1
oem@Giovanna:~$ npm --version
10.8.2
oem@Giovanna:~$ yarn --version
1.22.22
oem@Giovanna:~$ nvm

Node Version Manager (v0.40.1)

Note: <version> refers to any version-like string nvm understands. This includes:
- full or partial version numbers, starting with an optional "v" (0.10, v0.1.2, v1)
- default (built-in) aliases: node, stable, unstable, iojs, system
- custom aliases you define with `nvm alias foo`'

Any options that produce colorized output should respect the `--no-colors` option.

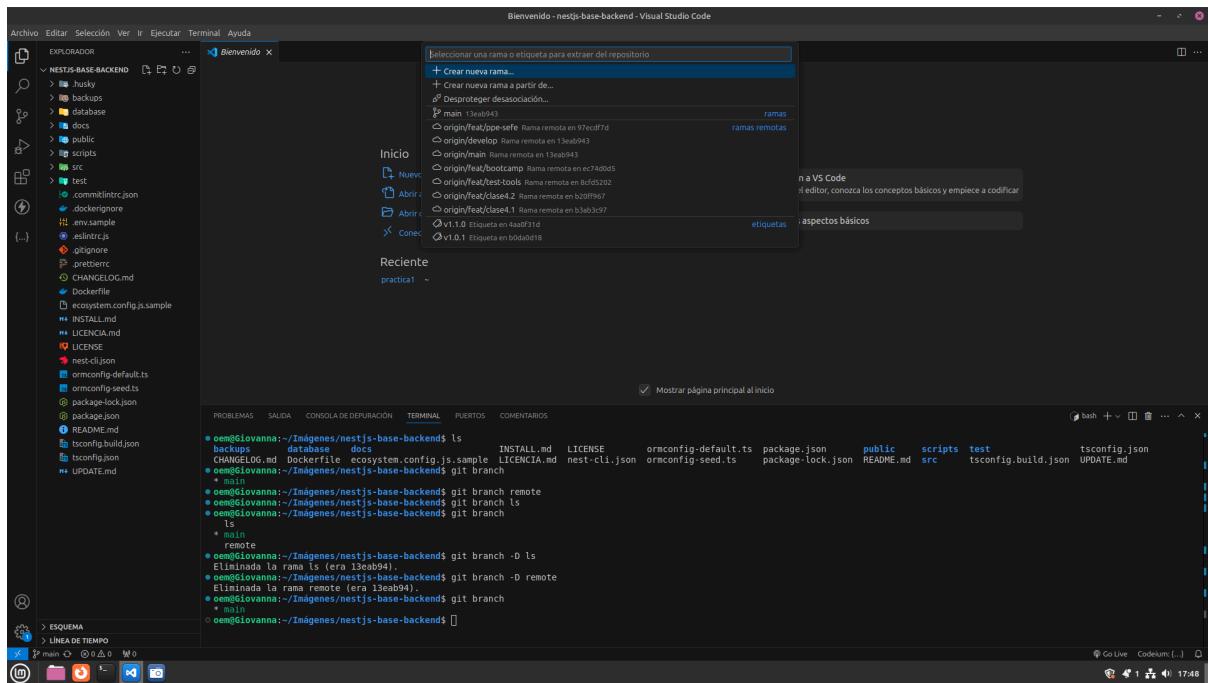
Usage:
```



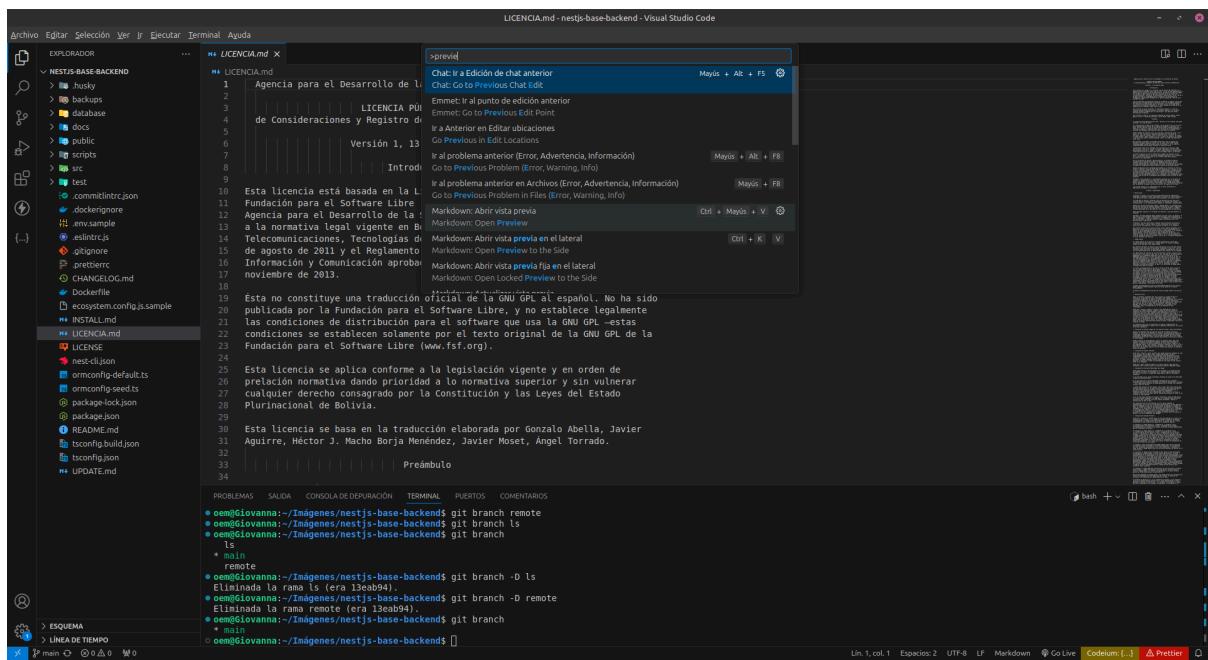
```
Archivo Editar Ver Buscar Terminal Ayuda
oem@Giovanna:~$ git --version
git version 2.43.0
oem@Giovanna:~$ docker --version
Docker version 27.4.0, build bde2b89
oem@Giovanna:~$
```

Levantando Nestjs base

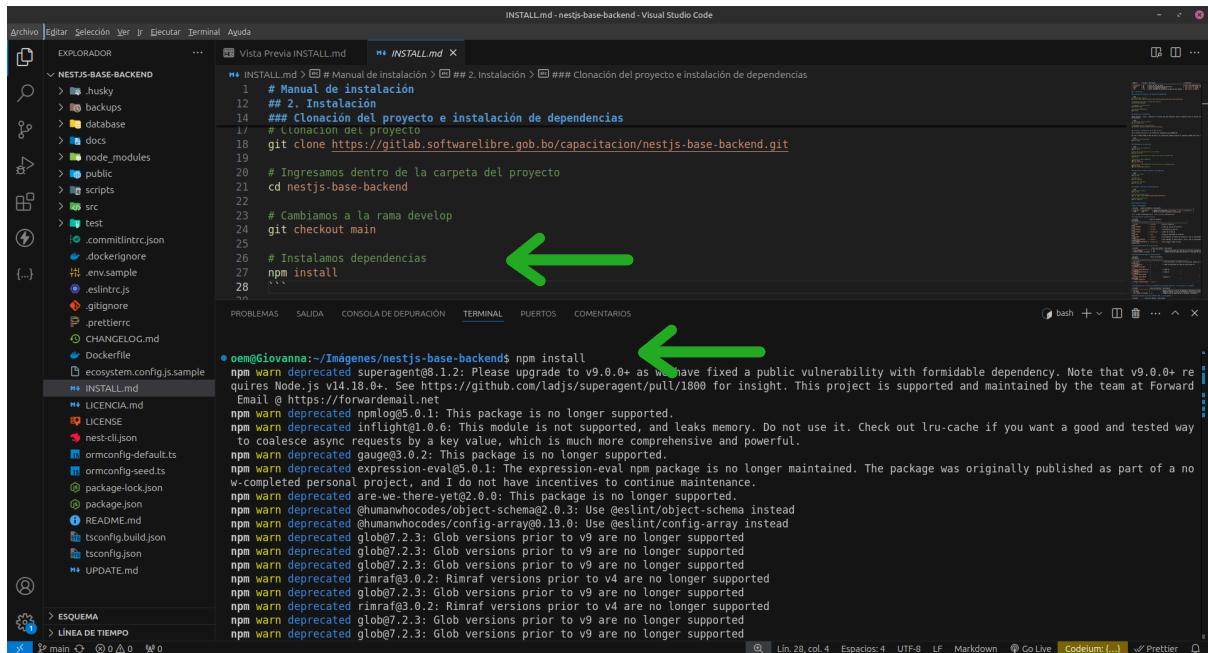
Ramas enlistadas:



abriendo en Vista previa:



Instalamos dependencias:



```
1 # Manual de instalación
2 ## 2. Instalación
3 ### Clonación del proyecto e instalación de dependencias
4 / # Clonación del proyecto
5 git clone https://gitlab.softwarelibre.gob.bo/capacitacion/nestjs-base-backend.git
6 # Ingresamos dentro de la carpeta del proyecto
7 cd nestjs-base-backend
8
9 # Cambiamos a la rama develop
10 git checkout main
11
12 # Instalamos dependencias
13 npm install
14
15
16
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```

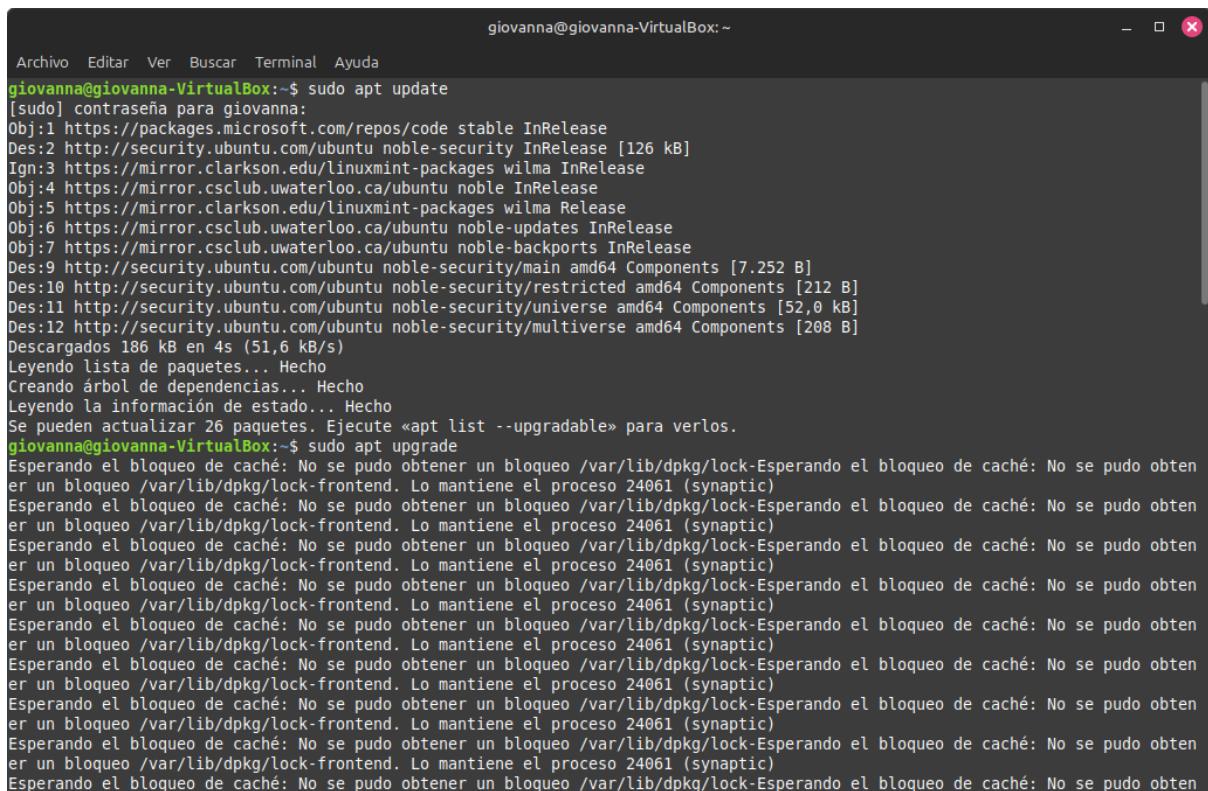
PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS COMENTARIOS

```
● oem@Giovanna:~/Imágenes/nestjs-base-backend$ npm install
npm warn deprecated superagent@0.1.2: Please upgrade to v9.0.0+ as we have fixed a public vulnerability with formidable dependency. Note that v9.0.0+ requires Node.js v14.18.0+. See https://github.com/ladjs/superagent/pull/1800 for insight. This project is supported and maintained by the team at Forward Email @ https://forwardemail.net
npm warn deprecated npmlog@5.0.1: This package is no longer supported.
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated gauge@3.0.2: This package is no longer supported.
npm warn deprecated expression-eval@5.0.1: The expression-eval npm package is no longer maintained. The package was originally published as part of a now-completed personal project, and I do not have incentives to continue maintenance.
npm warn deprecated are-we-there-yet@2.0.0: This package is no longer supported.
npm warn deprecated @humanwhocodes/object-schema@2.0.3: Use @eslint/object-schema instead
npm warn deprecated @humanwhocodes/config-array@0.13.0: Use @eslint/config-array instead
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
```

Lín. 28, col. 4 Espacios: 4 UTF-8 LF Markdown Go Live Codetools: [...] ✓ Prettier

Proceso de instalación de Docker:

En esta parte hice algunas modificaciones yvolví a configurar Linux MInt.



```
giovanna@giovanna-VirtualBox:~$ sudo apt update
[sudo] contraseña para giovanna:
[Obj:1 http://packages.microsoft.com/repos/code stable InRelease
Des:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Ign:3 https://mirror.clarkson.edu/linuxmint-packages wilma InRelease
Obj:4 https://mirror.csclub.uwaterloo.ca/ubuntu noble InRelease
Obj:5 https://mirror.clarkson.edu/linuxmint-packages wilma Release
Obj:6 https://mirror.csclub.uwaterloo.ca/ubuntu noble-updates InRelease
Obj:7 https://mirror.csclub.uwaterloo.ca/ubuntu noble-backports InRelease
Des:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [7.252 B]
Des:10 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Des:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52,0 kB]
Des:12 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Descargados 186 kB en 4s (51,6 kB/s)
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se pueden actualizar 26 paquetes. Ejecute «apt list --upgradable» para verlos.
giovanna@giovanna-VirtualBox:~$ sudo apt upgrade
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-Esperando el bloqueo de caché: No se pudo obtener un bloqueo /var/lib/dpkg/lock-frontend. Lo mantiene el proceso 24061 (synaptic)
```

Verificando instalación de Docker:

Iniciando nuevamente instalación de Docker Desktop:

Aquí nuevamente configuré.

```
giovanna@modulo3:~$ sudo apt update
[sudo] contraseña para giovanna:
Obj:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Obj:2 https://packages.microsoft.com/repos/code stable InRelease
Ign:3 https://mirror.clarkson.edu/linuxmint-packages wilma InRelease
Obj:4 https://mirror.clarkson.edu/linuxmint-packages wilma Release
Obj:6 https://mirror.csclub.uwaterloo.ca/ubuntu noble InRelease
Obj:7 https://mirror.csclub.uwaterloo.ca/ubuntu noble-updates InRelease
Obj:8 https://mirror.csclub.uwaterloo.ca/ubuntu noble-backports InRelease
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Todos los paquetes están actualizados.
giovanna@modulo3:~$ sudo apt-get install ca-certificates curl
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
ca-certificates ya está en su versión más reciente (20240203).
curl ya está en su versión más reciente (8.5.0-2ubuntu10.6).
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 0 no actualizados.
giovanna@modulo3:~$ sudo install -m 0755 -d /etc/apt/keyrings
giovanna@modulo3:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg
-o /etc/apt/keyrings/docker.asc
giovanna@modulo3:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc
giovanna@modulo3:~$
```

Instalando docker desktop:

```
giovanna@modulo3:~$ echo \
    "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
    $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
    sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
giovanna@modulo3:~$ echo \
    "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
    $(. /etc/os-release && echo "$UBUNTU_CODENAME") stable" | \
    sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
giovanna@modulo3:~$ sudo apt-get update
Des:1 https://download.docker.com/linux/ubuntu noble InRelease [48,8 kB]
Des:2 https://download.docker.com/linux/ubuntu/noble/stable amd64 Packages [17,2 kB]
Obj:3 https://packages.microsoft.com/repos/code stable InRelease
Ign:4 https://mirror.clarkson.edu/linuxmint-packages wilma InRelease
Obj:5 https://mirror.csclub.uwaterloo.ca/ubuntu noble InRelease
Obj:6 https://mirror.clarkson.edu/linuxmint-packages wilma Release
Obj:7 https://mirror.csclub.uwaterloo.ca/ubuntu noble-updates InRelease
Obj:8 https://mirror.csclub.uwaterloo.ca/ubuntu noble-backports InRelease
Obj:10 http://security.ubuntu.com/ubuntu noble-security InRelease
Descargados 66,1 kB en 11s (6.089 B/s)
Leyendo lista de paquetes... Hecho
giovanna@modulo3:~$ wget https://desktop.docker.com/linux/main/amd64/docker-desktop-amd64.deb?utm_source=docker&utm_medium=webreferral&utm_campaign=docs-driven-download-linux-amd64&gl=1*dvl57m*gcl*au*MTc4NDYxODk1MS4xNzM0OTEwNDU2*_ga*MTQyMTQ1MTQ3NS4xNzM0OTEwMzU0*_ga_XJWPQMjYHQ*MTczNDkxNTAZ0C4yLjEuMTczNDkxNjAxNS44LjAuMA..
[1] 4993
[2] 4994
[3] 4995
giovanna@modulo3:~$ 
Redirigiendo la salida a 'wget-log'.
[2]- Hecho          utm_medium=webreferral
[3]+ Hecho          utm_campaign=docs-driven-download-linux-amd64
giovanna@modulo3:~$ wget https://desktop.docker.com/linux/main/amd64/docker-desktop-amd64.deb --2024-12-22 21:12:39-- https://desktop.docker.com/linux/main/amd64/docker-desktop-amd64.deb
Resolviendo desktop.docker.com (desktop.docker.com)... 2600:9000:27a7:200:1c:aabc:1300:93a1, 2600:9000:27a7:6400:1c:aabc:1300:93a1, 2600:9000:27a7:9a00:1c:aabc:1300:93a1, ...
Conectando con desktop.docker.com (desktop.docker.com)[2600:9000:27a7:200:1c:aabc:1300:93a1]:443...
... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 364074836 (347M)
Guardando como: 'docker-desktop-amd64.deb'

docker-desktop-amd64.de 39%[=====] 136,54M 3,51MB/s eta 62s
```

Seguimos:

```
giovanna@modulo3:~$ wget https://desktop.docker.com/linux/main/amd64/docker-desktop-amd64.deb --2024-12-22 21:12:39-- https://desktop.docker.com/linux/main/amd64/docker-desktop-amd64.deb
Resolviendo desktop.docker.com (desktop.docker.com)... 2600:9000:27a7:200:1c:aabc:1300:93a1, 2600:9000:27a7:6400:1c:aabc:1300:93a1, 2600:9000:27a7:9a00:1c:aabc:1300:93a1, ...
Conectando con desktop.docker.com (desktop.docker.com)[2600:9000:27a7:200:1c:aabc:1300:93a1]:443...
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 364074836 (347M)
Guardando como: 'docker-desktop-amd64.deb'

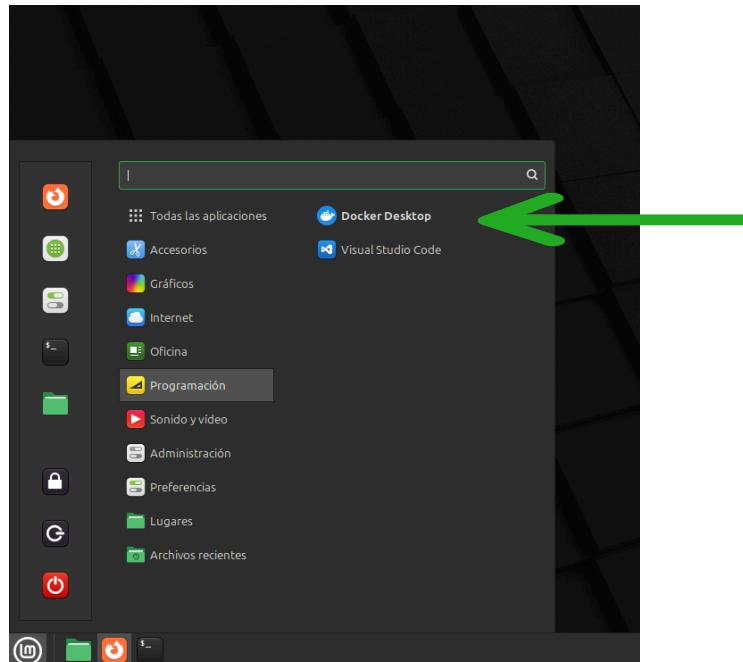
docker-desktop-amd64.de 100%[=====] 347,21M 3,43MB/s en 1m 42s
2024-12-22 21:14:21 (3,42 MB/s) - 'docker-desktop-amd64.deb' guardado [364074836/364074836]

[1]+  Hecho          wget https://desktop.docker.com/linux/main/amd64/docker-desktop-amd64.deb?utm_source=docker
giovanna@modulo3:~$ sudo apt install ./docker-desktop-amd64.deb
[sudo] contraseña para giovanna:
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Nota, seleccionando «docker-desktop» en lugar de «./docker-desktop-amd64.deb»
Se instalarán los siguientes paquetes adicionales:
  cpu-checker ipxe-qemu ipxe-qemu-256k-compat-efi-roms libcacard0 libdaxctl libfdt libiscsi7 libndctl6
  libpmem1 libpmemobj1 librbd1 librdmacm1t64 libspice-server1 libsubvid4 libusbredirparser1t64
  libvirglrenderer1 msr-tools ovmf pass qemu-block-extra qemu-system-common qemu-system-data
  qemu-system-gui qemu-system-modules-opengl qemu-system-modules-spice qemu-system-x86 qemu-utils qrencode
  seabios tree uidmap wl-clipboard xclip
Paquetes sugeridos:
  libxml-simple-perl python ruby vde2
Se instalarán los siguientes paquetes NUEVOS:
  cpu-checker docker-desktop ipxe-qemu ipxe-qemu-256k-compat-efi-roms libcacard0 libdaxctl libfdt
  libiscsi7 libndctl6 libpmem1 libpmemobj1 librbd1 librdmacm1t64 libspice-server1 libsubvid4
  libusbredirparser1t64 libvirglrenderer1 msr-tools ovmf pass qemu-block-extra qemu-system-common
  qemu-system-data qemu-gui qemu-system-modules-opengl qemu-system-modules-spice qemu-system-x86
  qemu-utils qrencode seabios tree uidmap wl-clipboard xclip
0 actualizados, 35 nuevos se instalarán, 0 para eliminar y 5 no actualizados.
Se necesita descargar 32,6 MB/397 MB de archivos.
Se utilizarán 146 MB de espacio de disco adicional después de esta operación.
Desea continuar? [S/n] s
Des:1 https://mirror.csclub.uwaterloo.ca/ubuntu/noble/main amd64 libfdt1 amd64 1.7.0-2build1 [20,1 kB]
Des:2 https://mirror.csclub.uwaterloo.ca/ubuntu/noble/main amd64 libdaxctl1 amd64 77-2ubuntu2 [21,4 kB]
Des:3 https://mirror.csclub.uwaterloo.ca/ubuntu/noble/main amd64 libndctl6 amd64 77-2ubuntu2 [62,8 kB]
Des:4 https://mirror.csclub.uwaterloo.ca/ubuntu/noble/main amd64 libpmem1 amd64 1.13.1-1.lubuntu2 [84,8 kB]
Des:5 https://mirror.csclub.uwaterloo.ca/ubuntu/noble/main amd64 librdmacm1t64 amd64 50.0-2build2 [70,7 kB]
Des:6 https://mirror.csclub.uwaterloo.ca/ubuntu/noble/main amd64 libcacard0 amd64 1:2.8.0-3build4 [36,5 kB]
Des:7 https://mirror.csclub.uwaterloo.ca/ubuntu/noble/main amd64 libusbredirparser1t64 amd64 0.13.0-2.lbuild1 [16,5 kB]
Des:8 https://mirror.csclub.uwaterloo.ca/ubuntu/noble-updates/main amd64 qemu-system-common amd64 1:8.2.2+ds-0ubuntu1.4 [1.252 kB]
Des:9 /home/giovanna/docker-desktop-amd64.deb docker-desktop amd64 4.36.0-175267 [364 MB]
Des:10 https://mirror.csclub.uwaterloo.ca/ubuntu/noble-updates/main amd64 qemu-system-data all 1:8.2.2+ds-0ubu
```

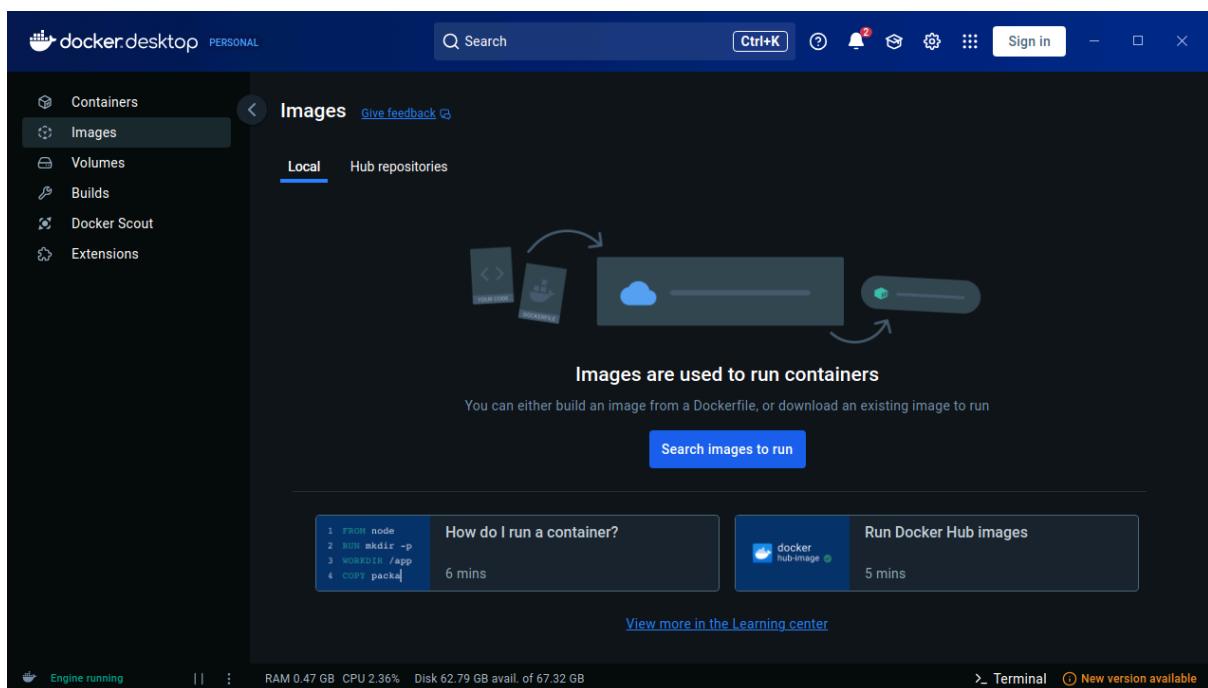
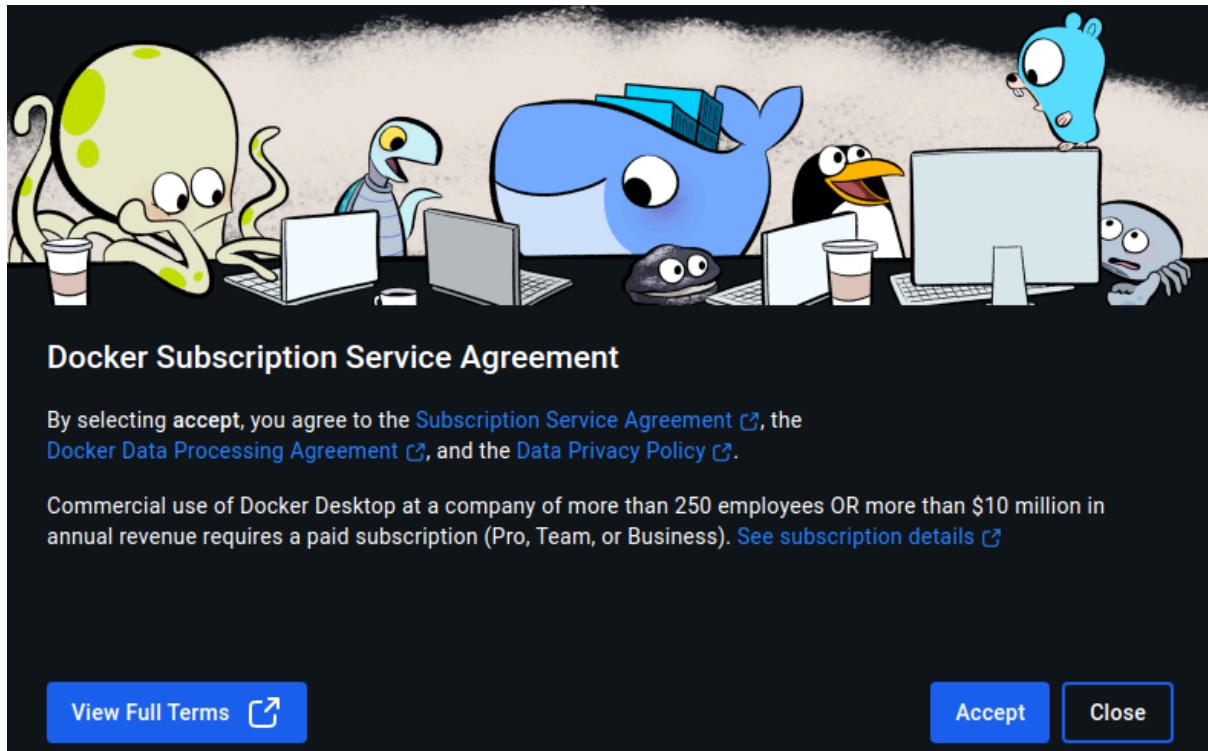
Culminando la instalación de docker desktop:

```
giovanna@modulo3:~  
Archivo Editar Ver Buscar Terminal Ayuda  
Configurando libspice-server1:amd64 (0.15.1-1build2) ...  
Configurando msr-tools (1.3-5build1) ...  
Configurando libfdt1:amd64 (1.7.0-2build1) ...  
Configurando libccard0:amd64 (1:2.8.0-3build4) ...  
Configurando ovmf (2024.02-2ubuntu0.1) ...  
Configurando libsubid4:amd64 (1:4.13+dfsg1-4ubuntu3.2) ...  
Configurando libvirglrenderer1:amd64 (1.0.0-1ubuntu2) ...  
Configurando tree (2.1.1-2ubuntu3) ...  
Configurando xclip (0.13-3) ...  
Configurando libdaxctl1:amd64 (77-2ubuntu2) ...  
Configurando pass (1.7.4-6) ...  
Configurando qemu-system-data (1:8.2.2+ds-0ubuntu1.4) ...  
Configurando seabios (1.16.3-2) ...  
Configurando cpu-checker (0.7-1.3build2) ...  
Configurando libusbredirparser1t64:amd64 (0.13.0-2.1build1) ...  
Configurando ipxe-qemu (1.21.1+git-20220113.fbcdc3926-0ubuntu2) ...  
Configurando libndctl6:amd64 (77-2ubuntu2) ...  
Configurando librdmacm1t64:amd64 (50.0-2build2) ...  
Configurando ipxe-qemu-256k-kcompat-efi-roms (1.0.0+git-20150424.a25a16d-0ubuntu5) ...  
Configurando qemu-system (1:8.2.2+ds-0ubuntu1.4) ...  
Configurando libiscsi1:amd64 (1.19.0-3build4) ...  
Configurando libpmem1:amd64 (1.13.1-1.1ubuntu2) ...  
Configurando librados2 (19.2.0-0ubuntu0.24.04.1) ...  
Configurando qemu-system-common (1:8.2.2+ds-0ubuntu1.4) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/qemu-kvm.service → /usr/lib/systemd/system/qemu-kvm.service.  
Configurando uidmap (1:4.13+dfsg1-0ubuntu3.2) ...  
Configurando qemu-system-x86 (1:8.2.2+ds-0ubuntu1.4) ...  
Configurando docker-desktop (4.36.0-175267) ...  
Enabling use of privileged ports by Docker Desktop  
kubernetes.docker.internal added to /etc/hosts  
Reloading systemd daemon for logged in users  
Done reloading systemd daemon for logged in users  
Configurando libpmemobj1:amd64 (1.13.1-1.1ubuntu2) ...  
Configurando librbd1 (19.2.0-0ubuntu0.24.04.1) ...  
Configurando qemu-block-extra (1:8.2.2+ds-0ubuntu1.4) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/run-qemu.mount → /usr/lib/systemd/system/run-qemu.mount.  
Configurando qemu-system-modules-opengl (1:8.2.2+ds-0ubuntu1.4) ...  
Configurando qemu-system-gui (1:8.2.2+ds-0ubuntu1.4) ...  
Configurando qemu-system-modules-spice (1:8.2.2+ds-0ubuntu1.4) ...  
Procesando disparadores para desktop-file-utils (0.27-2build1) ...  
Procesando disparadores para hicolor-icon-theme (0.17-2) ...  
Procesando disparadores para gnome-menus (3.36.0-1.1ubuntu3) ...  
Procesando disparadores para mate-menus (1.26.1+mint1) ...  
Procesando disparadores para libc-bin (2.39-0ubuntu8.3) ...  
Procesando disparadores para man-db (2.12.0-4build2) ...  
Procesando disparadores para mailcap (3.70+nmu1ubuntu1) ...  
N: La descarga está siendo realizada en un sandbox como superusuario, ya que el archivo «/home/giovanna/docker-desktop-amd64.deb» no es accesible por el usuario «_apt». - pkgAcquire::Run (13: Permiso denegado)  
giovanna@modulo3:~$ exit
```

Docker Desktop



Después de habilitar virtualización en Linux Mint se instaló correctamente Docker Desktop:



Instalando nuevamente npm:

```
## INSTALL.md x Vista Previa INSTALL.md
## INSTALL.md > # Manual de instalación > ## 2. Instalación > ### Clonación del proyecto e instalación de dependencias
  # Manual de instalación
  ## 1. Requerimientos
    | Nombre | Versión | Descripción | Instalación
    | PostgreSQL | ^16 | Gestor de base de datos | https://www.postgresql.org/download/linux/debian
    | NodeJS | ^20 | Entorno de programación de Javascript. | nvm install >0 https://github.com/nvm-sh/nvm
    | NPM | ^10 | Gestor de paquetes de NodeJS. | npm install -g npm@10
    | PM2 | ^5.3 | Gestor avanzado de procesos de producción para NodeJS. | npm install -g pm2@5.3
  ## 2. Instalación
  ### Clonación del proyecto e instalación de dependencias
    ````bash
 # Clonación del proyecto
 git clone https://gitlab.softwarelibre.gob.bo/capacitacion/nestjs-base-backend.git
 # Entramos dentro de la carpeta del proyecto
 cd nestjs-base-backend
 # Cambiamos a la rama develop
 git checkout main
 # Instalamos dependencias
 npm install
    ````

  ## Archivos de configuración.
  PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS GITLENS COMENTARIOS
  Desempaquetando node-source-list-map (2.0.1+dfsg=0.1.2-1) ...
  Seleccionando el paquete node-webpack-sources previamente no seleccionado.
  Preparando para desempaquetar .../340-node-webpack-sources_3.2.3+3-3.2.0-2_all.deb ...
  Desempaquetando node-webpack-sources (3.2.3+3-3.2.0-2) ...
  Seleccionando el paquete node-terseer previamente no seleccionado.
  Preparando para desempaquetar .../341-node-terseer_5.19.2-1_all.deb ...
  Desempaquetando node-terseer (5.19.2-1) ...
  Seleccionando el paquete terseer previamente no seleccionado.
  Preparando para desempaquetar .../342-terseer_5.19.2-1_all.deb ...
  Desempaquetando terseer (5.19.2-1) ...
  Seleccionando el paquete webpack previamente no seleccionado.
  Preparando para desempaquetar .../343-webpack_5.76.1+dfsg1+c517.16.16-1_all.deb ...
  Desempaquetando webpack (5.76.1+dfsg1+c517.16.16-1) ...
  Progreso: [43%] #####
  Alex Quispe, hace 4 meses Lin. 23, col. 30 Espacios:4 UTF-8 LF Markdown Codeium: [...] A Prettier
```

Nuevas versiones, solo que me aparece error al instalar

```
## INSTALL.md x Vista Previa INSTALL.md
## INSTALL.md > # Manual de instalación > ## 2. Instalación > ### Clonación del proyecto e instalación de dependencias
  # Manual de instalación
  ## 1. Requerimientos
    | `NPM` | ^10 | Gestor de paquetes de NodeJS. | `npm install -g npm@10`
    | `PM2` | ^5.3 | Gestor avanzado de procesos de producción para NodeJS. | `npm install -g pm2@5.3`
  ## 2. Instalación
  ### Clonación del proyecto e instalación de dependencias
    ````bash
 # Clonación del proyecto
 git clone https://gitlab.softwarelibre.gob.bo/capacitacion/nestjs-base-backend.git
 # Ingresamos dentro de la carpeta del proyecto
 cd nestjs-base-backend
    ````

  PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS GITLENS COMENTARIOS
  ● giovanna@modulo3:~/Imágenes/nestjs-base-backend$ node --version
  v22.12.0
  ● giovanna@modulo3:~/Imágenes/nestjs-base-backend$ npm --version
  10.9.0
  ● giovanna@modulo3:~/Imágenes/nestjs-base-backend$ yarn --version
  1.22.22
  ● giovanna@modulo3:~/Imágenes/nestjs-base-backend$ nvm --version
  0.39.5
  ● giovanna@modulo3:~/Imágenes/nestjs-base-backend$ git --version
  git version 2.43.0
  ● giovanna@modulo3:~/Imágenes/nestjs-base-backend$ docker --version
  Docker version 27.4.1, build b9d17ea
  ○ giovanna@modulo3:~/Imágenes/nestjs-base-backend$
```

Volví a las versiones iniciales

The screenshot shows the Visual Studio Code interface. On the left, the file tree displays 'INSTALL.md' as the active file. The main editor area shows the content of the 'INSTALL.md' file, which includes instructions for cloning the project and installing dependencies using npm and PM2. Below the editor is a terminal window showing the command-line history of the user's session. The terminal output includes commands like 'git clone', 'cd', and various npm and nvm commands related to setting up the Node.js environment.

```
## Manual de instalación
## 1. Requerimientos
1 | `NPM` | ^10 | Gestor de paquetes de NodeJS. | `npm install -g npm@10` |
2 | `PM2` | ^5.3 | Gestor avanzado de procesos de producción para NodeJS. | `npm install -g pm2@5.3` |
3 |
4 ## 2. Instalación
5 |
6 ### Clonación del proyecto e instalación de dependencias
7 |
8 {...}
9 |
10 ````bash
11 # Clonación del proyecto
12 git clone https://gitlab.softwarelibre.gob.bo/capacitacion/nestjs-base-backend.git
13 |
14 # Ingresamos dentro de la carpeta del proyecto
15 cd nestjs-base-backend
16 |
17 ````

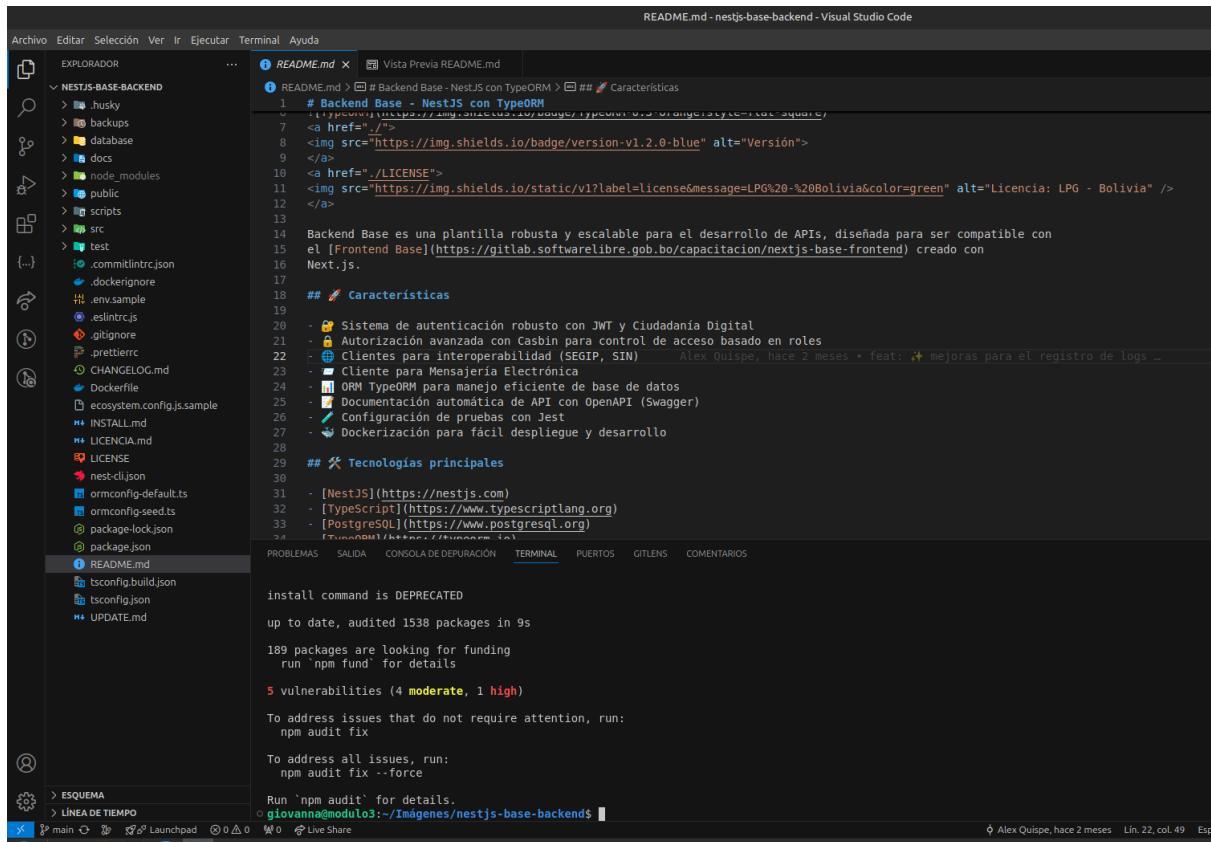
PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS GITLENS COMENTARIOS bash + ×
```

```
.sh | bash
% Total    % Received % Xferd  Average Speed   Time   Time     Time Current
          Dload  Upload Total   Spent   Left  Speed
100 16563  100 16563    0      0  42252      0 --::-- --::-- --::-- 42360
=> nvm is already installed in /home/giovanna/.nvm, trying to update using git
=> => Compressing and cleaning up git repository

=> nvm source string already in /home/giovanna/.bashrc
=> bash_completion source string already in /home/giovanna/.bashrc
=> Close and reopen your terminal to start using nvm or run the following to use it now:

export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && . "$NVM_DIR/nvm.sh" # This loads nvm
[ -s "$NVM_DIR/bash_completion" ] && . "$NVM_DIR/bash_completion" # This loads nvm bash_completion
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ sourcे ~/.bashrc
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ nvm --version
0.40.1
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ node -v
v20.18.1
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ npm -v
10.8.2
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ yarn -v
1.22.22
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ nvm -v
0.40.1
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ git -v
git version 2.43.0
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$ docker -v
Docker version 27.4.1, build b9d17ea
• giovanna@modulo3:~/Imágenes/nestjs-base-backend$
```

Result:



```
README.md - nestjs-base-backend - Visual Studio Code

ARCHIVO EDITAR SELECCIÓN VER IR EJECUTAR TERMINAL AYUDA

EXPLORADOR ... README.md x Vista Previa README.md
NESTJS-BASE-BACKEND
  > .husky
  > backups
  > database
  > docs
  > node_modules
  > public
  > scripts
  > src
  > test
  > .commitlintrc.json
  > .dockerignore
  > .env.sample
  > .eslintrc.js
  > .gitignore
  > .prettierrc
  > CHANGELOG.md
  > Dockerfile
  > ecosystem.config.js.sample
  >> INSTALL.md
  >> LICENSE.md
  > nest-clisjon
  > ormconfig-default.ts
  > ormconfig-seedts
  > package-lock.json
  > package.json
  > README.md
  > tsconfig.build.json
  > tsconfig.json
  >> UPDATE.md

  README.md x Vista Previa README.md
  README.md > # Backend Base - NestJS con TypeORM > ## Características
  1 # Backend Base - NestJS con TypeORM
  2 
  3 <a href="/">
  4 
  5 </a>
  6 <a href=".LICENSE">
  7 
  8 </a>
  9
  10
  11
  12
  13
  14 Backend Base es una plantilla robusta y escalable para el desarrollo de APIs, diseñada para ser compatible con
  15 el [Frontend Base](https://gitlab.softwarelibre.gob.bo/capacitacion/nextjs-base-frontend) creado con
  16 Next.js.
  17
  18 ## Características
  19
  20 - Sistema de autenticación robusto con JWT y Ciudadania Digital
  21 - Autorización avanzada con Casbin para control de acceso basado en roles
  22 - Clientes para interoperabilidad (SEGP, SIN) Alex Quispe, hace 2 meses + feat: mejoras para el registro de logs ...
  23 - Cliente para Mensajería Electrónica
  24 - ORM TypeORM para manejo eficiente de base de datos
  25 - Documentación automática de API con OpenAPI (Swagger)
  26 - Configuración de pruebas con Jest
  27 - Dockerización para fácil despliegue y desarrollo
  28
  29 ## Tecnologías principales
  30
  31 - [NestJS](https://nestjs.com)
  32 - [TypeScript](https://www.typescriptlang.org)
  33 - [PostgreSQL](https://www.postgresql.org)
  34 - [EcoSystem](https://github.com/)

PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS GITLENS COMENTARIOS

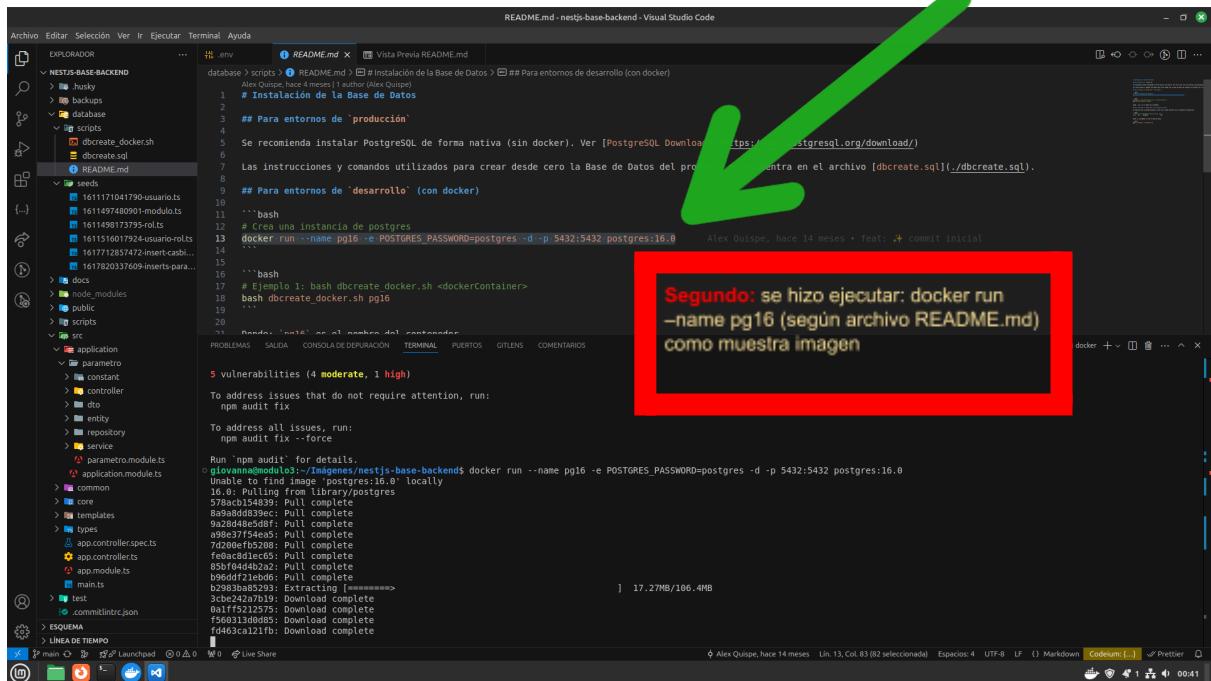
install command is DEPRECATED
up to date, audited 1538 packages in 9s
189 packages are looking for funding
  run 'npm fund' for details
  5 vulnerabilities (4 moderate, 1 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues, run:
  npm audit fix --force

Run `npm audit` for details.
giovanna@modulo3:~/Imágenes/nestjs-base-backend$
```

Creando una instancia de postgres.



```
README.md - nestjs-base-backend - Visual Studio Code

ARCHIVO EDITAR SELECCIÓN VER IR EJECUTAR TERMINAL AYUDA

EXPLORADOR ... README.md x Vista Previa README.md
NESTJS-BASE-BACKEND
  > .env
  > README.md x Vista Previa README.md
  README.md > # Instalación de la Base de Datos > ## Para entornos de desarrollo (con docker)
  1 # Instalación de la Base de Datos
  2
  3 ## Para entornos de 'producción'
  4
  5 Se recomienda instalar PostgreSQL de forma nativa (sin docker). Ver [PostgreSQL Download](https://www.postgresql.org/download/)
  6
  7 Las instrucciones y comandos utilizados para crear desde cero la Base de Datos del proyecto se encuentran en el archivo [dbcreate.sql](./dbcreate.sql).
  8
  9 ## Para entornos de 'desarrollo' (con docker)
  10
  11
  12 # crea una instancia de postgres
  13 docker run --name pg16 -e POSTGRES_PASSWORD=postgres -d -p 5432:5432 postgres:16.0 Alex Quispe, hace 14 meses + feat: commit inicial
  14
  15
  16
  17 # Ejemplo 1: bash dbcreate_docker.sh <dockerContainer>
  18 bash dbcreate_docker.sh pg16
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  23 Puedes 'entrar' en el nombre del contenedor
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  8088888824
  
```

Viendo los logs en Docker Desktop:

```

2024-12-23 08:41:52 syncing data to disk ... ok
2024-12-23 08:41:52
2024-12-23 08:41:52
2024-12-23 08:41:53 Success. You can now start the database server using:
2024-12-23 08:41:52 pg_ctl -D /var/lib/postgresql/data -l logfile start
2024-12-23 08:41:52 waiting for server to start...2024-12-23 08:41:53 891 UTC [47] LOG:  starting PostgreSQL 16.0 (Debian 16.0-1.pgdg128+1) on x86_64-pc-linux-gnu, compiled by gcc (Debian 12.2.0-14) 12.2.0, 64-bit
2024-12-23 08:41:53 2024-12-23 08:41:53.000 UTC [47] LOG:  listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
2024-12-23 08:41:53 2024-12-23 08:41:53.079 UTC [58] LOG:  database system was shut down at 2024-12-23 04:41:52
2024-12-23 08:41:53 2024-12-23 08:41:53.113 UTC [47] LOG:  database system is ready to accept connections
2024-12-23 08:41:53 done
2024-12-23 08:41:53 server started
2024-12-23 08:41:53
2024-12-23 08:41:53 /usr/local/bin/docker-entrypoint.sh: ignoring /docker-entrypoint-initdb.d/
2024-12-23 08:41:53
2024-12-23 08:41:53 waiting for server to shut down...2024-12-23 08:41:53.555 UTC [47] LOG:  received fast shutdown request
2024-12-23 08:41:53 2024-12-23 08:41:53.577 UTC [47] LOG:  aborting any active transactions
2024-12-23 08:41:53 2024-12-23 08:41:53.586 UTC [47] LOG:  background worker "logical replication launcher" (PID 53) exited with exit code 1
2024-12-23 08:41:53 2024-12-23 08:41:53.671 UTC [48] LOG:  shutting down
2024-12-23 08:41:53 2024-12-23 08:41:53.692 UTC [48] LOG:  checkpoint starting: shutdown incomplete
2024-12-23 08:41:53 2024-12-23 08:41:53.749 UTC [48] LOG:  checkpoint complete: wrote 3 buffers (0.0%) 0 WAL file(s) added, 0 removed, 0 recycled; write=0.015 s, sync=0.803 s, total=0.864 s; sync files=2, longest=0.002 s, average=0.001 s; distance=0 KB, estimated: 0 KB; lsn=0/14EA00B, redo lsn=0/14EA00B
2024-12-23 08:41:53 done
2024-12-23 08:41:53 server stopped
2024-12-23 08:41:53
2024-12-23 08:41:53 PostgreSQL init process complete; ready for start up.
2024-12-23 08:41:53
2024-12-23 08:41:53 initdb: warning: enabling "trust" authentication for local connections
2024-12-23 08:41:54 initdb: hint: You can change this by editing pg_hba.conf or using the option -A, or --auth-local and --auth-host, the next time you run initdb.
2024-12-23 08:41:54 2024-12-23 08:41:54.180 UTC [1] LOG:  starting PostgreSQL 16.0 (Debian 16.0-1.pgdg128+1) on x86_64-pc-linux-gnu, compiled by gcc (Debian 12.2.0-14) 12.2.0, 64-bit
2024-12-23 08:41:54 2024-12-23 08:41:54.180 UTC [1] LOG:  listening on IPv4 address "0.0.0.0", port 5432
2024-12-23 08:41:54 2024-12-23 08:41:54.180 UTC [1] LOG:  listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
2024-12-23 08:41:54 2024-12-23 08:41:54.229 UTC [6] LOG:  database system was shut down at 2024-12-23 04:41:53
2024-12-23 08:41:54 2024-12-23 08:41:54.287 UTC [1] LOG:  database system is ready to accept connections
2024-12-23 08:46:58 2024-12-23 08:46:54.266 UTC [59] LOG:  checkpoint starting: time
2024-12-23 08:46:58 2024-12-23 08:46:54.287 UTC [59] LOG:  checkpoint complete: wrote 44 buffers (0.0%) 0 WAL file(s) added, 0 removed, 0 recycled; write=4.349 s, sync=0.013 s, total=4.394 s; sync files=11, longest=0.009 s, average=0.002 s; distance=260 KB, estimated=0 KB; lsn=0/152BE04, redo lsn=0/152BE04

```

versión:

```

bash:bashrc default fstab gss issue libaudit.conf logrotate.d opt perl postgresql rc0.d rcS.d selinux ssl ucf.conf
coreutils debconf.conf gal.conf host.conf issue.net locate.alias mke2fs.conf os-release perl postgresql-common rc1.d resolv.conf shadow subuid X11
cron.d dpkg group hostname kernel locale.gen motd pan.conf
# cd postgresql
/bin/sh: 5: can't cd to postgresql
# ls
adduser.conf cron.daily e2scrub.conf groosel hosts ld.so.cache localtime ntp profile rc0.d rmt shadow systemd xattr.conf
alternatives debconf.conf environment gshadow init.d ld.so.conf locales logindefs nsswitch.conf passed profile.rc0.d rpc shells timezone
apt debian_version ethertypes gshadow-initrsrc ld.so.conf.d logindefs nsswitch.conf passed.profile.rc0.d rpc shells.timezone
bash:bashrc default fstab gss issue libaudit.conf logrotate.d opt perl postgresql rc0.d rcS.d selinux ssl ucf.conf
bindresport.blacklist debuser.conf gal.conf host.conf issue.net locate.alias mke2fs.conf os-release postgresql rc1.d rcS.d services subuid update-notd.d
cron.d dpkg group hostname kernel locale.gen motd pan.conf postgresql-common rc2.d resolv.conf shadow subuid X11
# cd ..
/bin/sh: 7: cd: not found
# cd postgresql
# ls
# cd ..
/bin/sh: 10: cd: not found
# cd ..
# cd ..
# ls
bin boot dev docker-entrypoint-initdb.d etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var
# uname -a
Linux 03da2f3a2388 6.10.14-linuxkit #1 SMP PREEMPT_DYNAMIC Thu Oct 24 19:30:56 UTC 2024 x86_64 GNU/Linux
# cat /etc/os-release
PRETTY_NAME="Debian GNU/Linux 12 (bookworm)"
NAME="Debian GNU/Linux"
VERSION_ID="12"
VERSION="12 (bookworm)"
VERSION_CODENAME=bookworm
ID=debian
HOME_URL="https://www.debian.org/"
SUPPORT_URL="https://www.debian.org/support"
BUG_REPORT_URL="https://bugs.debian.org/"
#

```

Base de datos creada en el contenedor pg16:

The screenshot shows the Visual Studio Code interface with two tabs open: 'README.md' and 'dbcreate_docker.sh'. The 'README.md' tab contains the following text:

```
database > scripts > README.md > # Instalación de la Base de Datos
1   # Instalación de la Base de Datos
2   # ## Para entornos de "desarrollo" (con docker)
3
4   ## bash
5   # Para una instancia de postgres
6   docker run --name pg16 -e POSTGRES_PASSWORD=postgres -d -p 5432:5432 postgres:16.0
7
8   ## bash
9   # Ejemplo 1: bash dbcreate_docker.sh <dockerContainer>
10  bash dbcreate_docker.sh pg16 Alex Quispe hace 4 meses +feat: +4 sincronizando con la última versión
11
12  ...
13
14  # Donde: 'pg16' es el nombre del contenedor.
15
16  ## Para entornos de "desarrollo" (con postgres nativo)
17
18  ...
19
20  Se requiere tener instalado postgres a nivel del sistema operativo con la siguiente configuración:
21
22  ## bash
23
24  # Archivo /etc/postgresql/16/main/pg_hba.conf
25
26
27
28  # Archivo /etc/postgresql/16/main/pg_hba.conf
```

The 'dbcreate_docker.sh' tab contains the following script:

```
parametro
CREATE DATABASE db ENCODING 'UTF-8';
-- configuramos la zona horaria (solo es necesario si utilizamos docker)
ALTER ROLE postgres SET TIMEZONE TO 'America/La_Paz';
-- nos conectamos a la nueva base
\c database_db;
-- creamos los esquemas correspondientes
CREATE SCHEMA proyecto;
CREATE SCHEMA usuarios;
CREATE SCHEMA parametricas;
-- ...
pgsql:/tmp/dbcreate.sql:2: NOTICE: database "database_db" does not exist, skipping
DROP DATABASE
CREATE DATABASE
ALTER ROLE
Total: 0 rows affected
CREATE SCHEMA
CREATE SCHEMA
CREATE SCHEMA
```

At the bottom of the code editor, there is a status bar with the message: 'Exito!: Base de datos creada en el contenedor pg16'.

Ejecutando [npm run setup](#):

Realiza las migraciones, esquema actual. Tablas, versiones.



Primero: se copio, pego y se renombró el archivo de acuerdo a instrucciones con anterioridad → .env

```
import { MigrationInterface, QueryRunner } from 'typeorm'
import { Parametro } from '../application/parametro/entity'
import { USUARIO_SISTEMA } from '../../common/constants'

export class InsertParametros1617820337609 implements MigrationInterface {
  public async up(queryRunner: QueryRunner): Promise<void> {
    // ...
    const ms = [
      {
        codigo: 'ID-CI',
        nombre: 'Cédula de identidad',
        grupo: 'TI',
        descripcion: 'Cédula de Identidad',
        transaccion: 'SEEDS',
      },
      {
        codigo: 'ID-CIE',
        nombre: 'Cédula de identidad de extranjero',
        grupo: 'TI',
        descripcion: 'Cédula de identidad de extranjero',
        transaccion: 'SEEDS',
      },
    ]
    await queryRunner.query(`TRUNCATE TABLE ${USUARIO_SISTEMA}.parametros`)
    await queryRunner.query(`INSERT INTO ${USUARIO_SISTEMA}.parametros (id, nombre, grupo, descripcion, transaccion) VALUES ${ms.map((m) => `('${m.codigo}', '${m.nombre}', '${m.grupo}', '${m.descripcion}', '${m.transaccion}')`).join(',')}`)
  }

  public async down(queryRunner: QueryRunner): Promise<void> {
    // ...
  }
}
```

Haciendo correr:

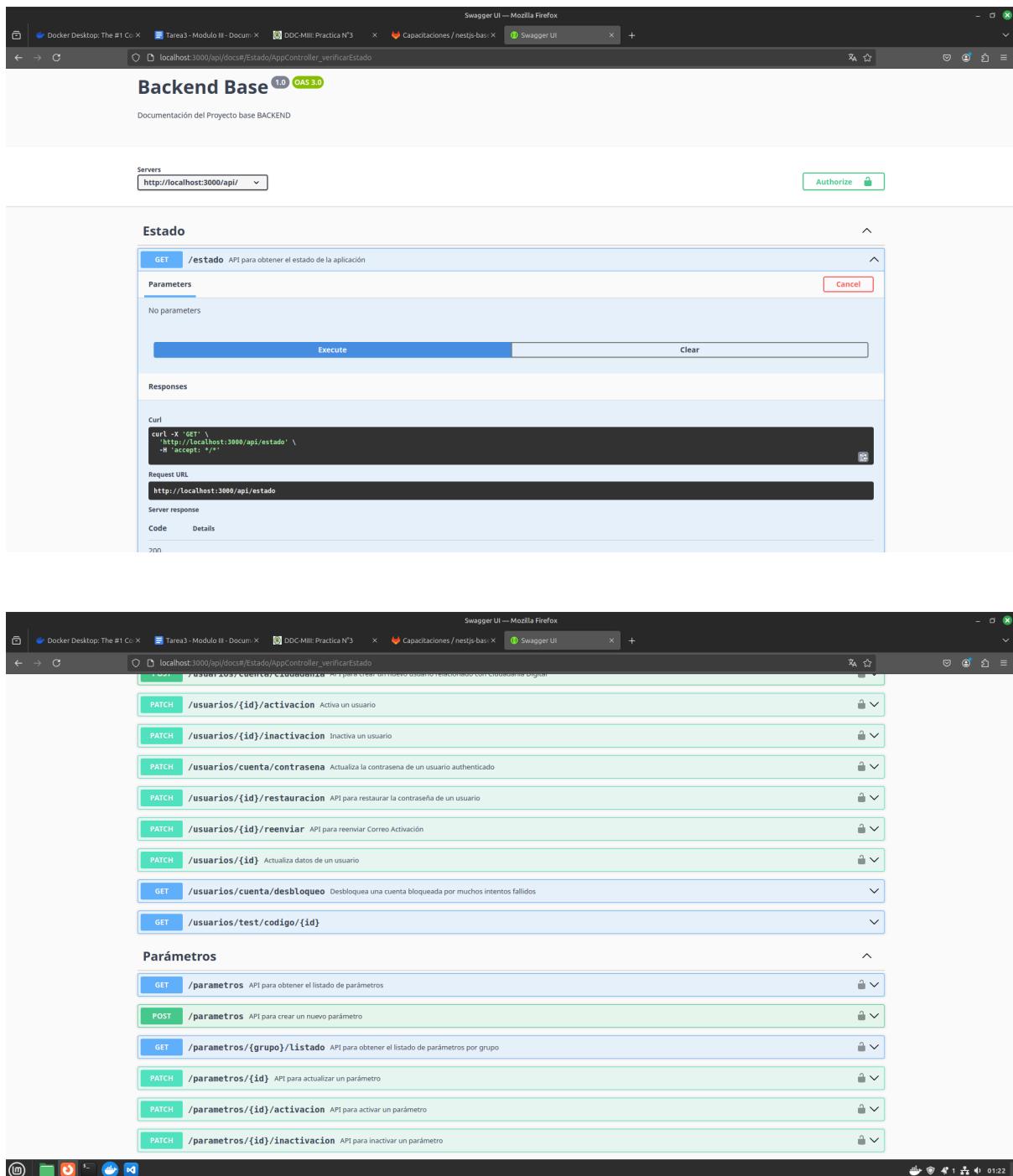
```
29 | "typeorm": "NODE_OPTIONS=-max_old_space_size=8192 ts-node -r tsconfig-paths/register ./node_modules/typeorm/cli.js",
30 |
PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS GITLENS COMENTARIOS

2024-12-23 01:15:35.377 [application] ✨ nestjs-backend-base v1.2.0
  - Proceso : 32791
  - Fecha   : 23/12/2024 01:15:35.376
  - Servicio : Activo
  - Entorno  : development
  - URL (Local) : http://localhost:3000
  - URL (red)  : http://192.168.1.9:3000

2024-12-23 01:15:35.022 [ERROR] Function.getInstancia (/home/giovanna/Imágenes/nestjs-base-backend/src/core/authentication/oidc.client.ts:22:35) CIUDADANIA:PROVEEDOR DE IDENTIDAD :: Error de conexión con ciudadanía
  - Causa   : TypeError: only valid absolute URLs
  - Código  : Error desconocido (E-500)
  - Origen  : at Function.getInstancia (/home/giovanna/Imágenes/nestjs-base-backend/src/core/authentication/oidc.client.ts:22:35)

  Metadata
  oidcIssuer=_OIDC_ISSUER
```

Swagger: Documentando las herramientas



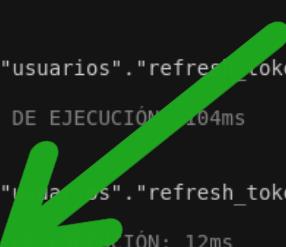
The screenshot shows the Swagger UI interface for a "Backend Base" project. At the top, there's a header with tabs for "Docker Desktop: The #1 Co...", "Tarea3 - Modulo III - Docum...", "DDC-MIIT: Practica N°3", "Capacitaciones / nestjs-basi...", and "Swagger UI". Below the header, the URL is set to "localhost:3000/api/docs#/Estado/AppController_verificarEstado". The main title is "Backend Base OAS 3.0" with a green "OAS 3.0" badge. A sub-header says "Documentación del Proyecto base BACKEND".

The "Servers" section shows "http://localhost:3000/api/" and an "Authorize" button. The "Estado" section contains a "GET /estado" endpoint for getting the application state. It includes sections for "Parameters" (none), "Responses" (curl command and request URL), and "Server response" (Code: 200). There are "Execute" and "Clear" buttons at the bottom.

The second part of the screenshot shows a list of endpoints under "Parámetros".

| Method | Endpoint | Description | Lock | Down Arrow |
|--------|-------------------------------|---|------|------------|
| POST | /parametros | API para obtener el listado de parámetros | 🔒 | ▼ |
| POST | /parametros | API para crear un nuevo parámetro | 🔒 | ▼ |
| GET | /parametros/{grupo}/listado | API para obtener el listado de parámetros por grupo | 🔒 | ▼ |
| PATCH | /parametros/{id} | API para actualizar un parámetro | 🔒 | ▼ |
| PATCH | /parametros/{id}/activacion | API para activar un parámetro | 🔒 | ▼ |
| PATCH | /parametros/{id}/inactivacion | API para inactivar un parámetro | 🔒 | ▼ |

Verificando que es mi cuenta: **giovanna@modulo3**



```
.env package.json X Vista Previa README.md
package.json > {} scripts > setup
  5   "author": "agetic@agetic.gob.bo",
  6   "private": true,
  7   "license": "LPG-Bolivia",
  8   "packageManager": "npm@10.8.2",
PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS GITLENS COMENTARIOS
at Function.getInstance (/home/giovanna/Imágenes/nestjs-base-backend/src/core/authentication.ts:10:1)
at process.processTicksAndRejections (node:internal/process/task_queues:95:5)
at async InstanceWrapper.useFactory (/home/giovanna/Imágenes/nestjs-base-backend/src/core/application.module:10:1)
at async Injector.instantiateClass (/home/giovanna/Imágenes/nestjs-base-backend/node_modules/@nestjs/core/injector/Injector.ts:10:1)
at async callback (/home/giovanna/Imágenes/nestjs-base-backend/node_modules/@nestjs/core/injector/Injector.ts:10:1)
at async Injector.resolveConstructorParams (/home/giovanna/Imágenes/nestjs-base-backend/node_modules/@nestjs/core/injector/Injector.ts:10:1)
at async Injector.loadInstance (/home/giovanna/Imágenes/nestjs-base-backend/node_modules/@nestjs/core/injector/Injector.ts:10:1)
at async Injector.loadProvider (/home/giovanna/Imágenes/nestjs-base-backend/node_modules/@nestjs/core/injector/Injector.ts:10:1)
at async /home/giovanna/Imágenes/nestjs-base-backend/node_modules/@nestjs/core/injector/injector.getInjectable (/home/giovanna/Imágenes/nestjs-base-backend/node_modules/@nestjs/core/injector/injector.getInjectable.ts:10:1)
2024-12-23 01:19:22.064 [request] GET /api/estado...
2024-12-23 01:19:22.353 [response] GET /api/estado status=200 elapsedTimeMs=313

DELETE FROM "usuarios"."refresh_tokens" WHERE "expires_at" < '2024-12-23T05:20:00.086Z'
QUERY TIEMPO DE EJECUCIÓN: 97ms

DELETE FROM "usuarios"."refresh_tokens" WHERE "expires_at" < '2024-12-23T05:25:00.035Z'
QUERY TIEMPO DE EJECUCIÓN: 22ms

DELETE FROM "usuarios"."refresh_tokens" WHERE "expires_at" < '2024-12-23T05:30:00.045Z'
QUERY TIEMPO DE EJECUCIÓN: 88ms

^[
find
DELETE FROM "usuarios"."refresh_tokens" WHERE "expires_at" < '2024-12-23T05:35:00.102Z'
QUERY TIEMPO DE EJECUCIÓN: 104ms
DELETE FROM "usuarios"."refresh_tokens" WHERE "expires_at" < '2024-12-23T05:40:00.029Z'
QUERY TIEMPO DE EJECUCIÓN: 12ms
^C
giovanna@modulo3:~/Imágenes/nestjs-base-backend/database/scripts$
```

Docker ejecutándose:



```
Archivo Editar Ver Buscar Terminal Ayuda
giovanna@modulo3:~$ egrep -c '(vmx|svm)' /proc/cpuinfo
3
giovanna@modulo3:~$ docker --version
Docker version 27.4.1, build b9d17ea
giovanna@modulo3:~$ htop
giovanna@modulo3:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
03d2af3a2388 postgres:16.0 "docker-entrypoint.s..." About an hour ago Up 51 minutes 0.0.0.0:5432->5432/tcp pg16
giovanna@modulo3:~$
```

Docker images

```
giovanna@modulo3:~$ docker images
REPOSITORY      TAG          IMAGE ID      CREATED        SIZE
postgres        16.0         fbd1be2cbb1f    15 months ago  417MB
giovanna@modulo3:~$ █
```

Docker logs –follow pg16

```
giovanna@modulo3:~$ docker logs --follow pg16
The files belonging to this database system will be owned by user "postgres".
This user must also own the server process.

The database cluster will be initialized with locale "en_US.utf8".
The default database encoding has accordingly been set to "UTF8".
The default text search configuration will be set to "english".

Data page checksums are disabled.

fixing permissions on existing directory /var/lib/postgresql/data ... ok
creating subdirectories ... ok
selecting dynamic shared memory implementation ... posix
selecting default max_connections ... 100
selecting default shared_buffers ... 128MB
selecting default time zone ... Etc/UTC
creating configuration files ... ok
running bootstrap script ... ok
performing post-bootstrap initialization ... ok
initdb: warning: enabling "trust" authentication for local connections
initdb: hint: You can change this by editing pg_hba.conf or using the option -A, or --auth-local and --auth-host, the next time you run initdb.
syncing data to disk ... ok

Success. You can now start the database server using:

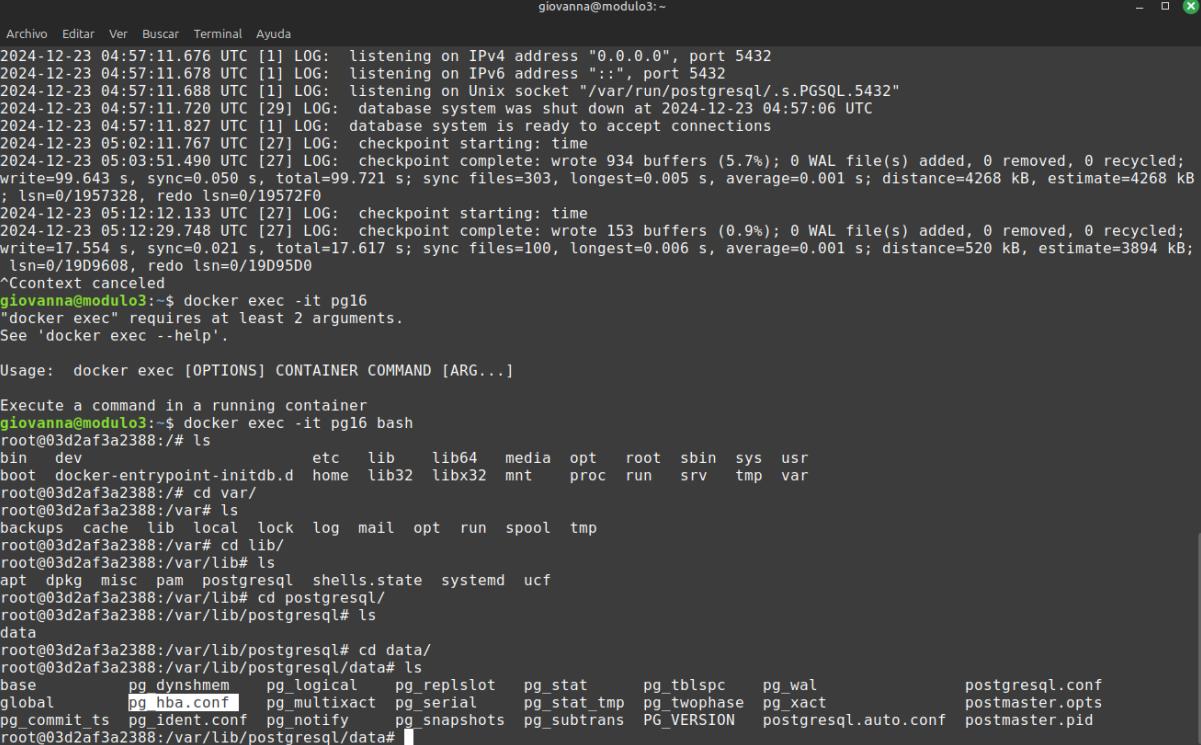
  pg_ctl -D /var/lib/postgresql/data -l logfile start

waiting for server to start....2024-12-23 04:41:53.001 UTC [47] LOG:  starting PostgreSQL 16.0 (Debian 16.0-1.pgdg120+1) on x86_64-pc-linux-gnu, compiled by gcc (Debian 12.2.0-14) 12.2.0, 64-bit
2024-12-23 04:41:53.008 UTC [47] LOG:  listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
2024-12-23 04:41:53.070 UTC [50] LOG:  database system was shut down at 2024-12-23 04:41:52 UTC
2024-12-23 04:41:53.113 UTC [47] LOG:  database system is ready to accept connections
done
server started

/usr/local/bin/docker-entrypoint.sh: ignoring /docker-entrypoint-initdb.d/*
waiting for server to shut down....2024-12-23 04:41:53.555 UTC [47] LOG:  received fast shutdown request
```

Revisando dentro:

Archivos importantes: pg_hba.conf y postgresql.conf



The screenshot shows a terminal window titled "giovanna@modulo3: ~". The window contains several lines of log output from PostgreSQL, followed by usage instructions for "docker exec", and then a detailed listing of files in the "/var/lib/postgresql/data" directory.

```
Archivo Editar Ver Buscar Terminal Ayuda
2024-12-23 04:57:11.676 UTC [1] LOG:  listening on IPv4 address "0.0.0.0", port 5432
2024-12-23 04:57:11.678 UTC [1] LOG:  listening on IPv6 address "::", port 5432
2024-12-23 04:57:11.688 UTC [1] LOG:  listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
2024-12-23 04:57:11.720 UTC [29] LOG:  database system was shut down at 2024-12-23 04:57:06 UTC
2024-12-23 04:57:11.827 UTC [1] LOG:  database system is ready to accept connections
2024-12-23 05:02:11.767 UTC [27] LOG:  checkpoint starting: time
2024-12-23 05:03:51.490 UTC [27] LOG:  checkpoint complete: wrote 934 buffers (5.7%); 0 WAL file(s) added, 0 removed, 0 recycled;
write=99.643 s, sync=0.050 s, total=99.721 s; sync files=303, longest=0.005 s, average=0.001 s; distance=4268 kB, estimate=4268 kB
; lsn=0/1957328, redo lsn=0/19572F0
2024-12-23 05:12:12.133 UTC [27] LOG:  checkpoint starting: time
2024-12-23 05:12:29.748 UTC [27] LOG:  checkpoint complete: wrote 153 buffers (0.9%); 0 WAL file(s) added, 0 removed, 0 recycled;
write=17.554 s, sync=0.021 s, total=17.617 s; sync files=100, longest=0.006 s, average=0.001 s; distance=520 kB, estimate=3894 kB;
lsn=0/19D9608, redo lsn=0/19D95D0
^Context canceled
giovanna@modulo3:~$ docker exec -it pg16 bash
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.
Usage: docker exec [OPTIONS] CONTAINER COMMAND [ARG...]
Execute a command in a running container
giovanna@modulo3:~$ docker exec -it pg16 bash
root@03d2af3a2388:/# ls
bin dev etc lib lib64 media opt root sbin sys usr
boot docker-entrypoint-initdb.d home lib32 libx32 mnt proc run srv tmp var
root@03d2af3a2388:/# cd var/
root@03d2af3a2388:/var# ls
backups cache lib local lock log mail opt run spool tmp
root@03d2af3a2388:/var# cd lib/
root@03d2af3a2388:/var/lib# ls
apt dpkg misc pam postgresql shells.state systemd ucf
root@03d2af3a2388:/var/lib# cd postgresql/
root@03d2af3a2388:/var/lib/postgresql# ls
data
root@03d2af3a2388:/var/lib/postgresql# cd data/
root@03d2af3a2388:/var/lib/postgresql/data# ls
base pg_dynshmem pg_logical pg_replslot pg_stat pg_tblspc pg_wal postgresql.conf
global pg_hba.conf pg_multixact pg_serial pg_stat_tmp pg_twophase pg_xact postmaster.opts
pg_commit_ts pg_ident.conf pg_notify pg_snapshots pg_subtrans PG_VERSION postgresql.auto.conf postmaster.pid
root@03d2af3a2388:/var/lib/postgresql/data#
```