

Tutoriel de déploiement du back sur proxmox

1. Mettre à jour votre Ubuntu.

sudo apt update

```
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@G9-back:~# apt update
Get:1 http://security.debian.org bookworm-security InRelease [48.0 kB]
Get:2 http://security.debian.org bookworm-security/main amd64 Packages [146 kB]
Get:3 http://security.debian.org bookworm-security/main Translation-en [87.7 kB]
Get:4 http://security.debian.org bookworm-security/contrib amd64 Packages [644 B]
Get:5 http://security.debian.org bookworm-security/contrib Translation-en [372 B]
Get:6 http://deb.debian.org/debian bookworm InRelease [151 kB]
Get:7 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Get:8 http://deb.debian.org/debian bookworm/main amd64 Packages [8786 kB]
Get:9 http://deb.debian.org/debian bookworm/main Translation-en [6109 kB]
Get:10 http://deb.debian.org/debian bookworm/contrib amd64 Packages [54.1 kB]
Get:11 http://deb.debian.org/debian bookworm/contrib Translation-en [48.7 kB]
Get:12 http://deb.debian.org/debian bookworm-updates/main amd64 Packages.diff/Index [9483 B]
Get:13 http://deb.debian.org/debian bookworm-updates/contrib amd64 Packages.diff/Index [1591 B]
Get:14 http://deb.debian.org/debian bookworm-updates/main amd64 Packages T-2023-12-29-1403.39-F-2023-11-06-2008.27.pdiff [7638 B]
Get:14 http://deb.debian.org/debian bookworm-updates/main amd64 Packages T-2023-12-29-1403.39-F-2023-11-06-2008.27.pdiff [7638 B]
Get:15 http://deb.debian.org/debian bookworm-updates/contrib amd64 Packages T-2024-02-16-2007.16-F-2024-02-16-2007.16.pdiff [682 B]
Get:15 http://deb.debian.org/debian bookworm-updates/contrib amd64 Packages T-2024-02-16-2007.16-F-2024-02-16-2007.16.pdiff [682 B]
Get:16 http://deb.debian.org/debian bookworm-updates/main Translation-en [13.8 kB]
Get:17 http://deb.debian.org/debian bookworm-updates/contrib Translation-en [408 B]
Fetched 15.5 MB in 7s (2208 kB/s)
Reading package lists... Done
Building dependency tree... Done
37 packages can be upgraded. Run 'apt list --upgradable' to see them.
N: Repository 'http://deb.debian.org/debian bookworm InRelease' changed its 'Version' value from '12.2' to '12.5'
root@G9-back:~#
```

2. Installer Git, NodeJS, npm et mariadb-server

sudo apt install git nodejs npm mariadb-server

```

37 packages can be upgraded. Run 'apt list --upgradable' to see them.
N: Repository 'http://deb.debian.org/debian bookworm InRelease' changed its 'Version' value fr
root@G9-back:~# apt install git nodejs mariadb-server
Reading package lists... Done
Building dependency tree... Done
The following additional packages will be installed:
  galera-4 gawk git-man libc-ares2 libcgi-fast-perl libcgi-pm-perl libclone-perl
  libconfig-inifiles-perl libdaxctl1 libdbd-mariadb-perl libdbi-perl
  libencode-locale-perl liberror-perl libfcgi-bin libfcgi-perl libfcgi0ldb1 libgpm2
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl liblzo2-2 libmariadb3
  libmpfr6 libncurses6 libndctl6 libnode108 libnuma1 libpmmem1 libregex-ipv6-perl
  libsigsegv2 libsnappy1v5 libterm-readkey-perl libtimedate-perl liburi-perl
  liburing2 mariadb-client mariadb-client-core mariadb-common
  mariadb-plugin-provider-bzip2 mariadb-plugin-provider-lz4
  mariadb-plugin-provider-lzma mariadb-plugin-provider-lzo
  mariadb-plugin-provider-snappy mariadb-server-core mysql-common node-acorn
  node-busboy node-cjs-module-lexer node-undici node-xtend nodejs-doc patch psmisc
  pv rsync socat
Suggested packages:
  gawk-doc git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk
  gitweb git-cvs git-mediawiki git-svn libmldbm-perl libnet-daemon-perl
  libsql-statement-perl gpm libdata-dump-perl libipc-sharedcache-perl
  libbusiness-isbn-perl libwww-perl mailx mariadb-test netcat-openbsd npm ed
  diffutils-doc doc-base python3-braceexpand
The following NEW packages will be installed:
  galera-4 gawk git git-man libc-ares2 libcgi-fast-perl libcgi-pm-perl libclone-perl
  libconfig-inifiles-perl libdaxctl1 libdbd-mariadb-perl libdbi-perl
  libencode-locale-perl liberror-perl libfcgi-bin libfcgi-perl libfcgi0ldb1 libgpm2
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl liblzo2-2 libmariadb3
  libmpfr6 libncurses6 libndctl6 libnode108 libnuma1 libpmmem1 libregex-ipv6-perl
  libsigsegv2 libsnappy1v5 libterm-readkey-perl libtimedate-perl liburi-perl

```

```

Get:31 http://deb.debian.org/debian bookworm/main amd64 libregex-ipv6-perl all 0.03-3 [5212 B]
Get:32 http://deb.debian.org/debian bookworm/main amd64 liburi-perl all 5.17-1 [90.4 kB]
Get:33 http://deb.debian.org/debian bookworm/main amd64 libhtml-parser-perl amd64 3.81-1 [101 kB]
Get:34 http://deb.debian.org/debian bookworm/main amd64 libcgi-pm-perl all 4.55-1 [220 kB]
Get:35 http://deb.debian.org/debian bookworm/main amd64 libfcgi0ldb1 amd64 2.4.2-2 [26.1 kB]
Get:36 http://deb.debian.org/debian bookworm/main amd64 libfcgi-perl amd64 0.82+ds-2 [25.2 kB]
Get:37 http://deb.debian.org/debian bookworm/main amd64 libcgi-fast-perl all 1:2.15-1 [12.1 kB]
Get:38 http://deb.debian.org/debian bookworm/main amd64 libclone-perl amd64 0.46-1 [13.7 kB]
Get:39 http://deb.debian.org/debian bookworm/main amd64 libdbd-mariadb-perl amd64 1.22-1+b1 [93.8 kB]
Get:40 http://deb.debian.org/debian bookworm/main amd64 libencode-locale-perl all 1.05-3 [12.9 kB]
Get:41 http://deb.debian.org/debian bookworm/main amd64 libfcgi-bin amd64 2.4.2-2 [12.9 kB]
Get:42 http://deb.debian.org/debian bookworm/main amd64 libgpm2 amd64 1.20.7-10+b1 [14.2 kB]
Get:43 http://deb.debian.org/debian bookworm/main amd64 libhtml-template-perl all 2.97-2 [66.5 kB]
Get:44 http://deb.debian.org/debian bookworm/main amd64 libtimedate-perl all 2.3300-2 [39.3 kB]
Get:45 http://deb.debian.org/debian bookworm/main amd64 libhttp-date-perl all 6.05-2 [10.5 kB]
Get:46 http://deb.debian.org/debian bookworm/main amd64 libio-html-perl all 1.004-3 [16.2 kB]
Get:47 http://deb.debian.org/debian bookworm/main amd64 libhttp-message-perl all 6.44-1 [81.7 kB]
Get:48 http://deb.debian.org/debian bookworm/main amd64 liblzo2-2 amd64 2.10-2 [56.9 kB]
Get:49 http://deb.debian.org/debian bookworm/main amd64 node-xtend all 4.0.2-3 [3932 B]
Get:50 http://deb.debian.org/debian bookworm/main amd64 node-acorn all 8.8.1+ds+~cs25.17.7-2 [128 kB]
Get:51 http://deb.debian.org/debian bookworm/main amd64 node-cjs-module-lexer all 1.2.2+dfsg-5 [30.1 kB]
Get:52 http://deb.debian.org/debian bookworm/main amd64 node-busboy all 1.6.0+~cs2.6.0-2 [16.9 kB]
Get:53 http://deb.debian.org/debian bookworm/main amd64 node-undici all 5.15.0+dfsg1+~cs20.10.9.3-1+deb12u3 [284 kB]
Get:54 http://deb.debian.org/debian bookworm/main amd64 libsnappy1v5 amd64 1.1.9-3 [26.0 kB]
Get:55 http://deb.debian.org/debian bookworm/main amd64 libterm-readkey-perl amd64 2.38-2+b1 [24.5 kB]
Get:56 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-bzip2 amd64 1:10.11.6-0+deb12u1 [24.8 kB]
Get:57 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-lz4 amd64 1:10.11.6-0+deb12u1 [24.7 kB]
Get:58 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-lzma amd64 1:10.11.6-0+deb12u1 [24.8 kB]
Get:59 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-lzo amd64 1:10.11.6-0+deb12u1 [24.7 kB]
Get:60 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-snappy amd64 1:10.11.6-0+deb12u1 [24.8 kB]
Get:61 http://deb.debian.org/debian bookworm/main amd64 patch amd64 2.7.6-7 [128 kB]
Get:62 http://deb.debian.org/debian bookworm/main amd64 pv amd64 1.6.20-1 [53.5 kB]
Fetched 44.9 MB in 5s (8381 kB/s)
Extracting templates from packages: 100%
Preconfiguring packages ...
root@G9-back:~#

```

3. Configurer votre mariadb-server avec la commande 'mysql_secure_installation'

sudo mysql_secure_installation

```

Get:59 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-lzma amd64 1:10.11.
Get:60 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-lzo amd64 1:10.11.
Get:61 http://deb.debian.org/debian bookworm/main amd64 mariadb-plugin-provider-snappy amd64 1:10.11.
Get:62 http://deb.debian.org/debian bookworm/main amd64 patch amd64 2.7.6-7 [128 kB]
Get:63 http://deb.debian.org/debian bookworm/main amd64 pv amd64 1.6.20-1 [53.5 kB]
Fetched 44.9 MB in 5s (8381 kB/s)
Extracting templates from packages: 100%
Preconfiguring packages ...
root@G9-back:~# my sql_secure_installation
root@G9-back:~# [MariaDB]e secure. of the above steps, your MariaDB far.e'.

```

4. Avec Git, récupérer votre backend se trouvant sur GitLab ou GitHub et mettez le dans le dossier /opt.

```

cd /opt/
sudo git clone votreRepo

```

```

root@G9-back:~# cd /opt
root@G9-back:/opt# git clone https://github.com/zaavali/BackM2LFinal.git

```

```

root@G9-back:~# cd/opt/git clonehttps://github.com/zaavali/BackM2LFinal.git
-bash: cd/opt/git: No such file or directory
root@G9-back:~# cd /opt
root@G9-back:/opt# git clone https://github.com/zaavali/BackM2LFinal.git
Cloning into 'BackM2LFinal'...
remote: Enumerating objects: 5905, done.
remote: Counting objects: 100% (5905/5905), done.
remote: Compressing objects: 100% (4483/4483), done.
remote: Total 5905 (delta 1169), reused 5905 (delta 1169), pack-reused 0
Receiving objects: 100% (5905/5905), 16.05 MiB | 11.95 MiB/s, done.
Resolving deltas: 100% (1169/1169), done.
root@G9-back:/opt#

```

Problème d'internet

```

root@G9-back:/opt/BackM2LFinal# dhclient -v
Internet Systems Consortium DHCP Client 4.4.3-P1
Copyright 2004-2022 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/eth0/2a:9c:5c:0e:7f:60
Sending on   LPF/eth0/2a:9c:5c:0e:7f:60
Sending on   Socket/fallback
DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 6
DHCPOFFER of 192.168.1.42 from 192.168.1.1
DHCPREQUEST for 192.168.1.42 on eth0 to 255.255.255.255 port 67

```

```

root@G9-back:/opt/BackM2LFinal# ping google.fr
PING google.fr (172.217.18.195) 56(84) bytes of data.
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=1 ttl=113 time=2.20 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=2 ttl=113 time=1.89 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=3 ttl=113 time=11.6 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=4 ttl=113 time=7.54 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=5 ttl=113 time=4.69 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=6 ttl=113 time=10.4 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=7 ttl=113 time=4.60 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=8 ttl=113 time=1.94 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=9 ttl=113 time=2.99 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=10 ttl=113 time=2.58 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=11 ttl=113 time=2.54 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=12 ttl=113 time=8.86 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=13 ttl=113 time=2.46 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=14 ttl=113 time=3.13 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=15 ttl=113 time=6.52 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=16 ttl=113 time=4.66 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=17 ttl=113 time=6.53 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=18 ttl=113 time=2.52 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=19 ttl=113 time=3.22 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=20 ttl=113 time=5.61 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=21 ttl=113 time=4.71 ms
64 bytes from parl0s38-in-f3.1e100.net (172.217.18.195): icmp_seq=22 ttl=113 time=5.97 ms

```

Nous pouvons maintenant re pinguer google

```

root@G9-back:/opt/BackM2LFinal# git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 3.60 KiB | 283.00 KiB/s, done.
From https://github.com/zaavali/BackM2LFinal
 76b2084..c762add main    -> origin/main
Updating 76b2084..c762add
Fast-forward
 m2l.sql | 79 +++++
 1 file changed, 79 insertions(+)
 create mode 100644 m2l.sql
root@G9-back:/opt/BackM2LFinal#

```

Git pull effectué afin de récupérer la base de données.



5. Déployer votre BDD sur le serveur mysql d'ubuntu, puis créer un utilisateur qui aura accès à votre Base de données.

- `sudo mysql -u root -p`
- `CREATE DATABASE nomDatabase ;`
- `use nomDatabase ;`
- `sudo mysql -u root -p nomDatabase < chemin/votreDatabase.sql`
(modifiable en fonction des commandes situés dans le fichier .sql).
- `GRANT ALL PRIVILEGES ON votreDatabase.* TO user@localhost`
identified by «votreMotDePasse» ;
- `FLUSH PRIVILEGES ;`

```

google:12 ping 800100100
44 packets transmitted, 44 received, 0% packet loss, time 43061ms
rtt min/avg/max/mdev = 1.890/5.262/16.352/3.633 ms
root@G9-back:/opt/BackM2LFinal# git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 3.60 KiB | 283.00 KiB/s, done.
From https://github.com/zaavali/BackM2LFinal
   76b2084..c762add  main       -> origin/main
Updating 76b2084..c762add
Fast-forward
 m21.sql | 79 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 1 file changed, 79 insertions(+)
 create mode 100644 m21.sql
root@G9-back:/opt/BackM2LFinal# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> 

```

Ajout de la base de donnée via le repo git hub

```

root@G9-back:/opt/BackM2LFinal# mysql -u root -p m21 < /opt/BackM2LFinal/m21.sql
Enter password:
root@G9-back:/opt/BackM2LFinal# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 33
Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use m21
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [m21]> msq1 -u root -p m21 < /opt/BackM2LFinal/m21.sql
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'msq1 -u root -p m21 < /opt/BackM2LFinal/m21.sql' at line 1
MariaDB [m21]> SHOW TABLES;
+-----+
| Tables_in_m21 |
+-----+
| commandes     |
| produit       |
| user          |
+-----+
3 rows in set (0.001 sec)

MariaDB [m21]> 

```

Ici nous retrouvons bien la base de données

```

MariaDB [m21]> GRANT ALL PRIVILEGES ON m21.* TO 'root'@'localhost' IDENTIFIED BY '';
Query OK, 0 rows affected (0.001 sec)

MariaDB [m21]> 

```

Nous donnons les privilèges.

```

MariaDB [m21]> FLUSH PRIVILEGES
-> ;
Query OK, 0 rows affected (0.001 sec)

MariaDB [m21]> 

```


6. Créer le fichier .env dans le dossier de votre projet et donner la configuration nécessaire.

sudo nano /opt/votreServeurNode/.env

7. Essayer de lancer votre serveur et d'y accéder via votre ordinateur (en tapant quelque chose du genre :
`http://adresseIpVm:port/path`)

Pour voir l'adresse IP de la machine : (ip a). De + il faut s'être mis en connexion par pont sur la config de la VM.

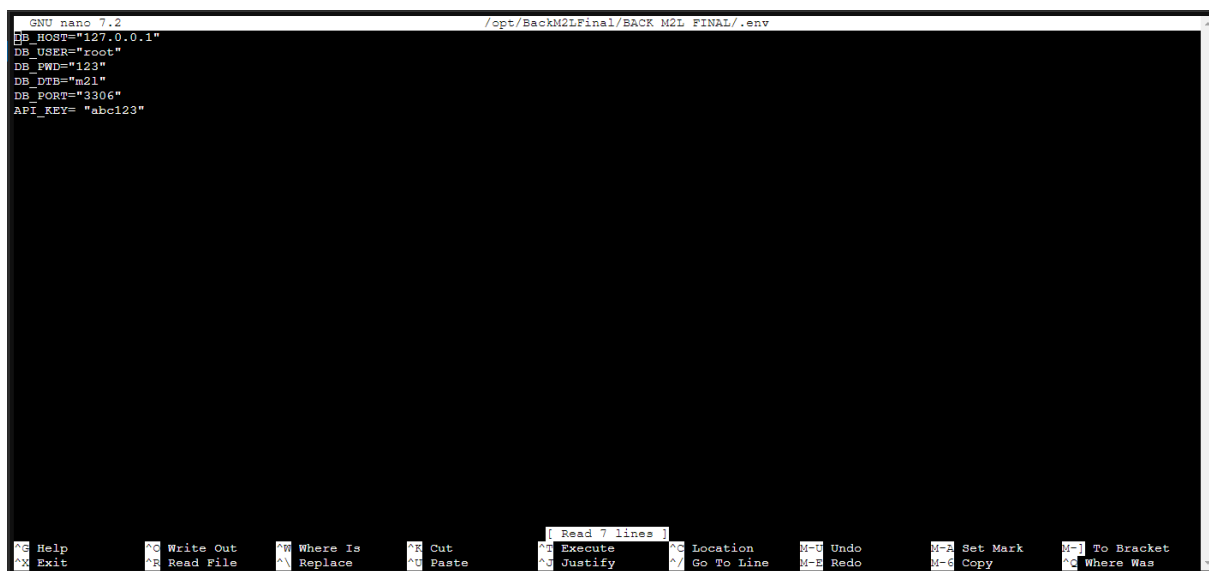
Pour lancer votre serveur : npm start à l'emplacement de votre server.js

8. Maintenant, il faut mettre en place le fichier permettant de lancer le serveur au démarrage. Créer un fichier `serveurnode.service` dans le dossier `etc/systemd/system/`

sudo nano /etc/systemd/system/serveurnode.service

Après avoir tapé

Nano /otp/BackM2LFinal/"BACKM2LFINAL/.env



```
GNU nano 7.2 /opt/BackM2LFinal/BACK M2L FINAL/.env
DB_HOST="127.0.0.1"
DB_USER="root"
DB_PWD="123"
DB_DTB="m21"
DB_PORT="3306"
API_KEY= "abc123"
```

The screenshot shows a terminal window with the nano text editor open. The editor is editing the file `/opt/BackM2LFinal/BACK M2L FINAL/.env`. The file contains the following content:

```
DB_HOST="127.0.0.1"
DB_USER="root"
DB_PWD="123"
DB_DTB="m21"
DB_PORT="3306"
API_KEY= "abc123"
```

The nano editor's status bar at the bottom shows various commands and their shortcuts, including Help, Write Out, Where Is, Cut, Read 7 lines, Execute, Location, Undo, Set Mark, To Bracket, Exit, Read File, Replace, Paste, Justify, Go To Line, Redo, Copy, and Where Was.

```

root@G9-back:/opt/BackM2LFinal# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: eth0@if334: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 2a:9c:5c:0e:7f:60 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 192.168.1.42/24 brd 192.168.1.255 scope global dynamic eth0
        valid_lft 81278sec preferred_lft 81278sec
    inet6 fe80::289c:5cff:fe0e:7f60/64 scope link
        valid_lft forever preferred_lft forever
root@G9-back:/opt/BackM2LFinal#

```

```

root@G9-back:/opt/BackM2LFinal# cd BACK\ M2L\ FINAL
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# npm start

> apsiteecommercebackend@1.0.0 start
> node server.js

node:internal/modules/cjs/loader:1452
    return process.dlopen(module, path.toNamespacedPath(filename));
    ^
Error: /opt/BackM2LFinal/BACK M2L FINAL/node_modules/bcrypt/lib/binding/napi-v3/bcrypt_lib.node: invalid ELF header
    at Module._extensions..node (node:internal/modules/cjs/loader:1452:18)
    at Module.load (node:internal/modules/cjs/loader:1197:32)
    at Module._load (node:internal/modules/cjs/loader:1013:12)
    at Module.require (node:internal/modules/cjs/loader:1225:19)
    at require (node:internal/modules/helpers:177:18)
    at Object.<anonymous> (/opt/BackM2LFinal/BACK M2L FINAL/node_modules/bcrypt/bcrypt.js:6:16)
    at Module._compile (node:internal/modules/cjs/loader:1356:14)
    at Module._extensions..js (node:internal/modules/cjs/loader:1414:10)
    at Module.load (node:internal/modules/cjs/loader:1197:32)
    at Module._load (node:internal/modules/cjs/loader:1013:12) {
  code: 'ERR_DLOPEN_FAILED'
}

Node.js v18.19.0
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# npm uninstall bcrypt

```

```

Node.js v18.19.0
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# npm uninstall bcrypt

removed 39 packages, and audited 406 packages in 1s

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

found 0 vulnerabilities
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# npm install bcrypt

added 39 packages, and audited 445 packages in 3s

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

found 0 vulnerabilities
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# npm install

up to date, audited 445 packages in 1s

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

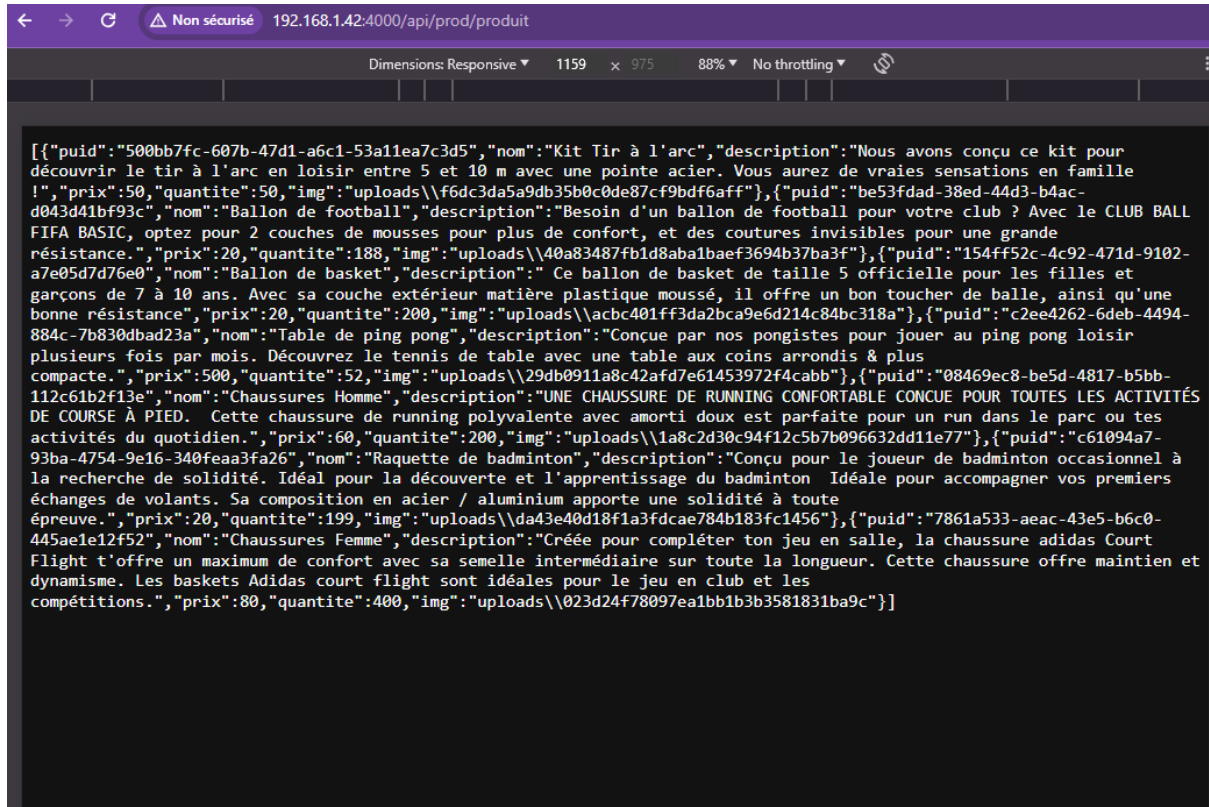
found 0 vulnerabilities
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# npm start

> apsiteecommercebackend@1.0.0 start
> node server.js

Le serveur fonctionne sur le port 4000

```

```
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# node server.js
Le serveur fonctionne sur le port 4000
getAllProduits
getAllProduits
█
```



Automatisation


```
GNU nano 2.7.2 /etc/systemd/system
[Unit]

Description=My Node.js App

After=network.target


[Service]

User=root

WorkingDirectory=/opt/BackM2LFinal/BACK M2L FINAL

ExecStart=/usr/bin/node/BackM2LFinal/'BACK M2L FINAL'/server.js

Restart=always

RestartSec=10


[Install]

WantedBy=multi-user.target


root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL#
```

```
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# systemctl daemon-reload
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# systemctl enable serveurnode.service
Created symlink /etc/systemd/system/multi-user.target.wants/serveurnode.service -> /etc/systemd/system/serveurnode.service.
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# systemctl start serveurnode.service
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL#
```

[Unit]

Description=My Node.js App

After=network.target

[Service]

User=root

WorkingDirectory=/opt/BackM2LFinal/BACK M2L FINAL

ExecStart=/usr/bin/node /opt/BackM2LFinal/'BACK M2L FINAL'/server.js

Restart=always

RestartSec=10

[Install]

WantedBy=multi-user.target

```
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# systemctl daemon-reload
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# systemctl enable serveurnode.service
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# systemctl status serveurnode.service
* serveurnode.service - My Node.js App
   Loaded: loaded (/etc/systemd/system/serveurnode.service; enabled; preset: enabled)
   Active: active (running) since Mon 2024-03-25 16:36:31 UTC; 14ms ago
     Main PID: 16120 (node)
       Tasks: 1 (limit: 154220)
      Memory: 540.0K
         CPU: 7ms
    CGroup: /system.slice/serveurnode.service
            └─16120 /usr/bin/node "/opt/BackM2LFinal/BACK M2L FINAL/server.js"
```

```
Mar 25 16:36:31 G9-back systemd[1]: Started serveurnode.service - My Node.js App.
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL# systemctl start serveurnode.service
root@G9-back:/opt/BackM2LFinal/BACK M2L FINAL#
```