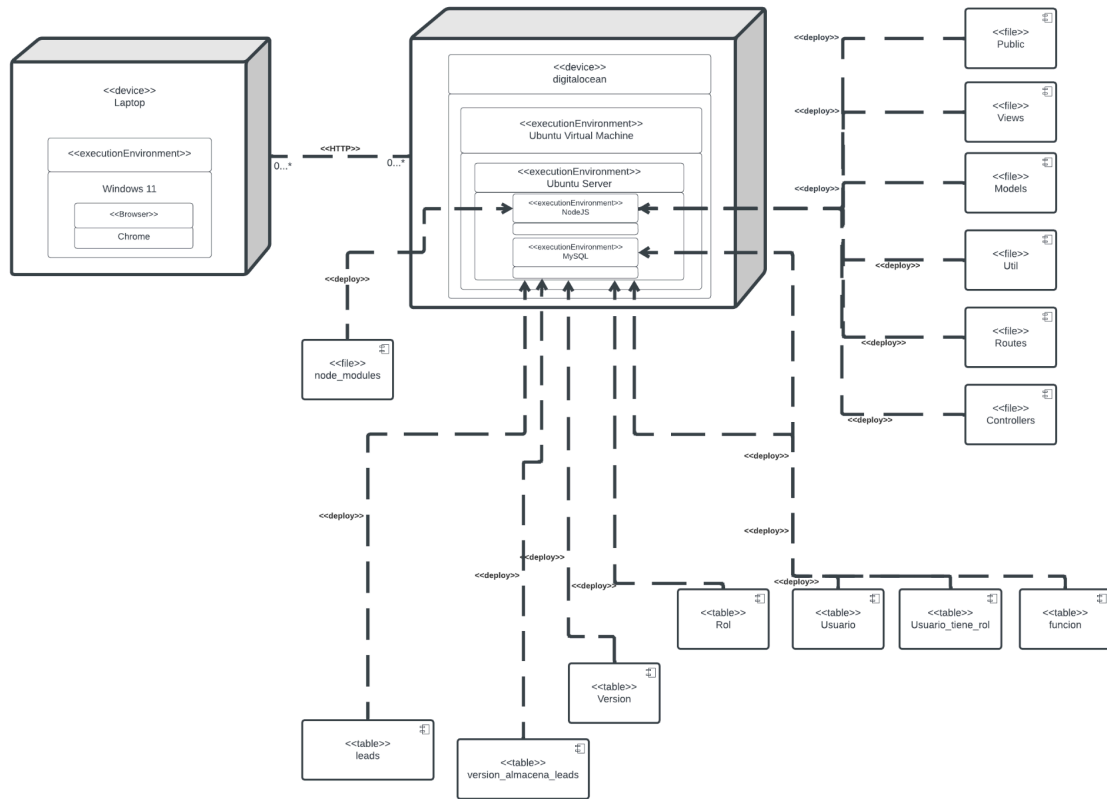


Manual de Instalación

Diagrama de Despliegue

Que es:



1. ssh root@64.23.141.18
password: Ngd_2024*Tec

```
majos@DESKTOP-S7256EJ: ~  
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.146.1-microsoft-standard-WSL2 x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s  
  just raised the bar for easy, resilient and secure K8s cluster deployment.  
  
https://ubuntu.com/engage/secure-kubernetes-at-the-edge  
  
This message is shown once a day. To disable it please create the  
/home/majos/.hushlogin file.  
majos@DESKTOP-S7256EJ: $ ssh root@64.23.141.18  
root@64.23.141.18's password: 
```

```

See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
*****

Welcome to DigitalOcean's 1-Click Node.js Droplet.
To keep this Droplet secure, the UFW firewall is enabled.
All ports are BLOCKED except 22 (SSH), 80 (HTTP), and 443 (HTTPS).

Use these SFTP credentials to upload files with FileZilla/WinSCP/rsync:
Host: 64.23.141.18
User: nodejs
Pass: 2dc15b04774578fd9f556726a5758e6c

In a web browser, you can view the Node site at: http://64.23.141.18

On the server:
* The Node.js application is served from /var/www/html
* The Node.js passwords and keys are saved in /root/.digitalocean_passwords

For help and more information, visit https://do.co/313ycRT

*****
To delete this message of the day: rm -rf /etc/update-motd.d/99-one-click
Last login: Fri Apr 26 01:48:31 2024 from 132.254.81.4
root@Tec-2:~# █

```

2. cd CCC_LeadSales/Avance_de_proyecto/LeadSales

```

root@Tec-2:~# cd CCC_LeadSales/Avance_de_proyecto/LeadSales/
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# █

```

3.1 git checkout develop

3.2 git pull

```

root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# git checkout develop
error: Your local changes to the following files would be overwritten by checkout:
    Avance_de_proyecto/LeadSales/app.js
    Avance_de_proyecto/LeadSales/controllers/leads.controller.js
    Avance_de_proyecto/LeadSales/util/database.js
    Avance_de_proyecto/LeadSales/views/Analitica.ejs
Please commit your changes or stash them before you switch branches.
Aborting
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# git pull
Already up to date.
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# █

```

3. npm install

```
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# npm install
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: 'parser@0.1.4',
npm WARN EBADENGINE   required: { node: '0.4-0.9' },
npm WARN EBADENGINE   current: { node: 'v18.17.1', npm: '9.6.7' }
npm WARN EBADENGINE }
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: 'tokenizer@1.1.2',
npm WARN EBADENGINE   required: { node: '0.10.x' },
npm WARN EBADENGINE   current: { node: 'v18.17.1', npm: '9.6.7' }
npm WARN EBADENGINE }

up to date, audited 372 packages in 2s

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

3 moderate severity vulnerabilities

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales#
```

Para checar la conexión con mysql

1. mysql
2. Dentro de la linea de comandos de mysql: status

```
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 56
Server version: 8.0.36-0ubuntu0.20.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> status
-----
mysql Ver 8.0.36-0ubuntu0.20.04.1 for Linux on x86_64 ((Ubuntu))

Connection id:          56
Current database:
Current user:           root@localhost
SSL:                    Not in use
Current pager:          stdout
Using outfile:          ''
Using delimiter:        ;
Server version:         8.0.36-0ubuntu0.20.04.1 (Ubuntu)
Protocol version:       10
Connection:             Localhost via UNIX socket
Server characterset:    utf8mb4
Db characterset:        utf8mb4
Client characterset:    utf8mb4
```

+ mysql> exit

* Buscar que mysql no lance un mensaje de error y tenga un connection id.

Verificar que el servidor de mysql tenga el mismo usuario que el sistema

4. cd util

5. nano database.js

- cambiar a:
const mysql = require("mysql2");
const pool = mysql.createPool({
 host: '127.0.0.1',
 user: 'majo',
 database: 'leadsalesdb3',
 password: 'oto',
});
module.exports = pool.promise();
- luego exit con control + X
- Confirmas cambios
- control + X

6. cd ..

7. nano app.js

- cambiar: app.listen(8081);
- luego exit con control + X
- Confirmas cambios
- control + X

Verificar que el servidor esté corriendo independientemente

1. pm2 status

```
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# pm2 status
```

id	name	mode	u	status	cpu	memory
0	app	fork	16	online	0%	42.4mb

```
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales#
```

* Buscar que el status sea online

2. sudo systemctl status pm2-root

```
ESCOD
● pm2-root.service - PM2 process manager
   Loaded: loaded (/etc/systemd/system/pm2-root.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2024-04-26 01:52:29 UTC; 3 days ago
     Docs: https://pm2.keymetrics.io/
  Main PID: 112718 (PM2 v5.3.1: God)
    Tasks: 0 (limit: 527)
   Memory: 240.0K
    CGroup: /system.slice/pm2-root.service
            └─ 112718 PM2 v5.3.1: God Daemon (/root/.pm2)

Apr 26 01:52:29 Tec-2 systemd[1]: Starting PM2 process manager...
Apr 26 01:52:29 Tec-2 pm2[113051]: [PM2] Resurrecting
Apr 26 01:52:29 Tec-2 pm2[113051]: [PM2] Restoring processes located in /root/.pm2/dump.pm2
Apr 26 01:52:29 Tec-2 pm2[113051]:
```

id	name	namespace	version	mode	pid	uptime	u	status
0	app	default	1.0.0	fork	0	0	16	errore

```
Apr 26 01:52:29 Tec-2 pm2[113051]:
Apr 26 01:52:29 Tec-2 systemd[1]: Started PM2 process manager.
~
~
~
```

*Buscar que pm2-root.service en el apartado de Active sea active (running)

Verificar los logs del servidor por pm2

```
[1]+ Stopped                  sudo systemctl status pm2-root
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# pm2 logs
[TAILING] Tailing last 15 lines for [all] processes (change the value with --lines option)
/root/.pm2/pm2.log last 15 lines:
PM2      | 2024-04-26T01:49:28: PM2 log: App [app:0] starting in -fork mode-
PM2      | 2024-04-26T01:49:28: PM2 log: App [app:0] online
PM2      | 2024-04-26T01:49:29: PM2 log: App [app:0] exited with code [1] via signal [SIGINT]
PM2      | 2024-04-26T01:49:29: PM2 log: App [app:0] starting in -fork mode-
PM2      | 2024-04-26T01:49:29: PM2 log: App [app:0] online
PM2      | 2024-04-26T01:49:30: PM2 log: App [app:0] exited with code [1] via signal [SIGINT]
PM2      | 2024-04-26T01:49:30: PM2 log: App [app:0] starting in -fork mode-
PM2      | 2024-04-26T01:49:30: PM2 log: App [app:0] online
PM2      | 2024-04-26T01:49:30: PM2 log: App [app:0] exited with code [1] via signal [SIGINT]
PM2      | 2024-04-26T01:49:30: PM2 log: App [app:0] starting in -fork mode-
PM2      | 2024-04-26T01:49:30: PM2 log: App [app:0] online
PM2      | 2024-04-26T01:49:31: PM2 log: App [app:0] exited with code [1] via signal [SIGINT]
PM2      | 2024-04-26T01:49:31: PM2 log: Script /root/CCC_LeadSales/Avance_de_proyecto/LeadSales/app.js had too many
unstable restarts (16). Stopped. "errored"
PM2      | 2024-04-26T01:59:14: PM2 log: App [app:0] starting in -fork mode-
PM2      | 2024-04-26T01:59:14: PM2 log: App [app:0] online

/root/.pm2/logs/app-error.log last 15 lines:
0|app    | at Function.process_params (/root/CCC_LeadSales/Avance_de_proyecto/LeadSales/node_modules/express/lib/
router/index.js:346:12)
0|app    | at next (/root/CCC_LeadSales/Avance_de_proyecto/LeadSales/node_modules/express/lib/router/index.js:280
:10)
0|app    | at Function.handle (/root/CCC_LeadSales/Avance_de_proyecto/LeadSales/node_modules/express/lib/router/i
```

Para reiniciar y resetear el servidor web

pm2 kill

```
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# pm2 kill
[PM2] Applying action deleteProcessId on app [all](ids: [ 0 ])
[PM2] [app](0) ✓
[PM2] [v] All Applications Stopped
[PM2] [v] PM2 Daemon Stopped
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales#
```

pm2 startup systemd

- Con este comando sirve para arrancar automáticamente tus aplicaciones gestionadas por PM2 cuando tu sistema se inicia.

id	name	mode	↻	status	cpu	memory
0	app	fork	0	online	0%	33.5mb

```
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# pm2 startup systemd
[PM2] Init System found: systemd
Platform systemd
Template
[Unit]
Description=PM2 process manager
Documentation=https://pm2.keymetrics.io/
After=network.target

[Service]
Type=forking
User=root
LimitNOFILE=infinity
LimitNPROC=infinity
LimitCORE=infinity
Environment=PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin
Environment=PM2_HOME=/root/.pm2
PIDFile=/root/.pm2/pm2.pid
Restart=on-failure

ExecStart=/usr/lib/node_modules/pm2/bin/pm2 resurrect
ExecReload=/usr/lib/node_modules/pm2/bin/pm2 reload all
ExecStop=/usr/lib/node_modules/pm2/bin/pm2 kill
```

sudo systemctl start pm2-root

- Para iniciar independientemente el servidor, se utiliza este código. Es recomendable utilizar 'sudo systemctl status pm2-root' para comprobar que está activo en Active.

```
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# sudo systemctl start pm2-root
root@Tec-2:~/CCC_LeadSales/Avance_de_proyecto/LeadSales# sudo systemctl status pm2-root
● pm2-root.service - PM2 process manager
   Loaded: loaded (/etc/systemd/system/pm2-root.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2024-04-29 17:33:12 UTC; 2s ago
     Docs: https://pm2.keymetrics.io/
  Process: 157986 ExecStart=/usr/lib/node_modules/pm2/bin/pm2 resurrect (code=exited, status=0/SUCCESS)
 Main PID: 157910 (PM2 v5.3.1: God)
    Tasks: 0 (limit: 527)
   Memory: 840.0K
    CGroup: /system.slice/pm2-root.service
            └─ 157910 PM2 v5.3.1: God Daemon (/root/.pm2)

Apr 29 17:33:12 Tec-2 systemd[1]: Starting PM2 process manager...
Apr 29 17:33:12 Tec-2 pm2[157986]: [PM2] Resurrecting
Apr 29 17:33:12 Tec-2 pm2[157986]: [PM2] Restoring processes located in /root/.pm2/dump.pm2
Apr 29 17:33:12 Tec-2 pm2[157986]: 
Apr 29 17:33:12 Tec-2 pm2[157986]: 


| id | name | namespace | version | mode | pid    | uptime |
|----|------|-----------|---------|------|--------|--------|
| 0  | app  | default   | 1.0.0   | fork | 157921 | 74s    |


Apr 29 17:33:12 Tec-2 pm2[157986]: 
Apr 29 17:33:12 Tec-2 pm2[157986]: 
Apr 29 17:33:12 Tec-2 systemd[1]: Started PM2 process manager.
```