

# T02.01\_vidal\_miguéns

---

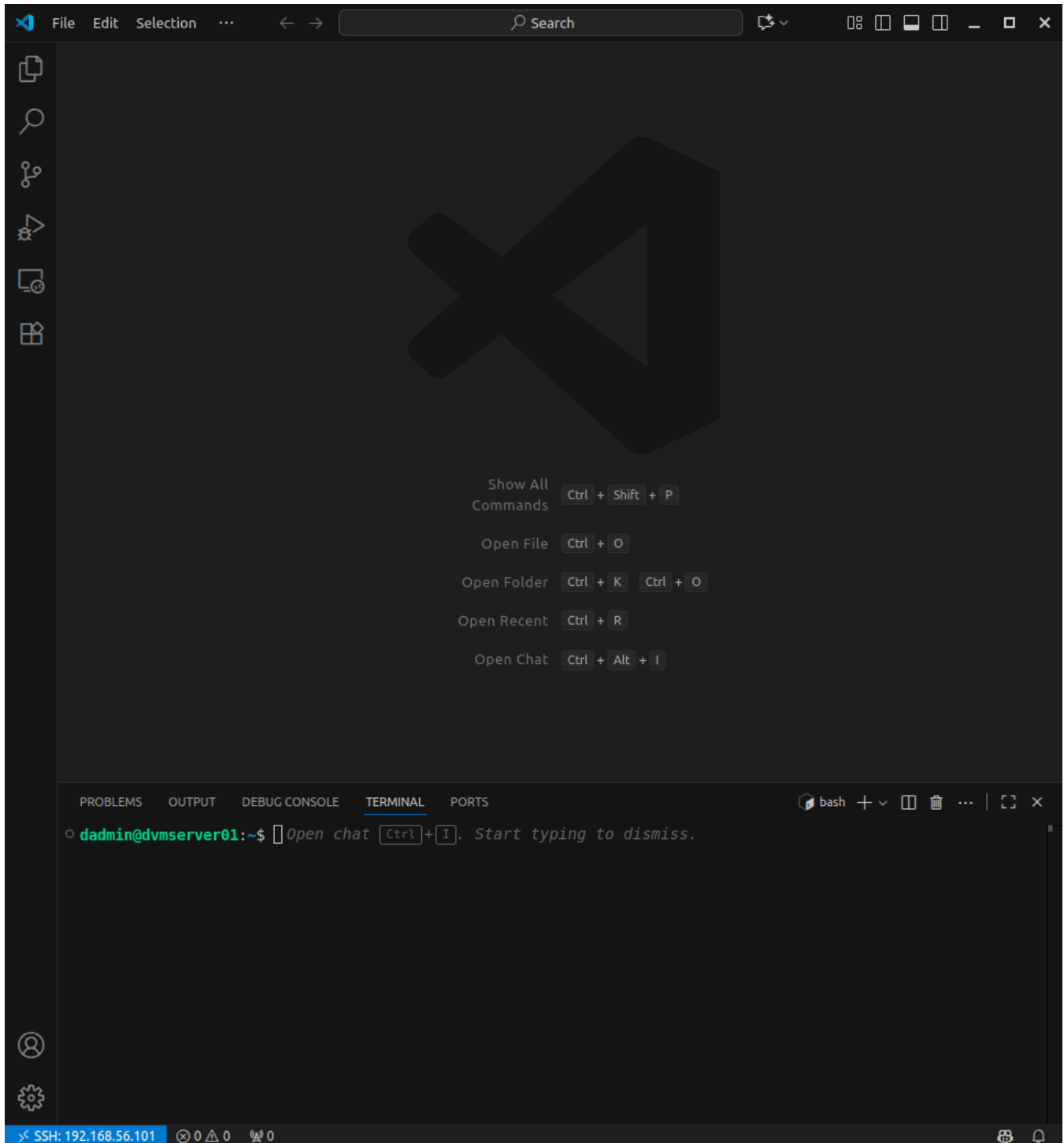
## Exercicio 1

---

7Arranca a máquina e inicia sesión co usuario `dadmin`. Executa o comando `ip a` para consultar a IP. **Realiza unha captura desta IP.** É importante que anotes esta IP porque a necesitaremos para acceder por SSH dende o equipo anfitrión.

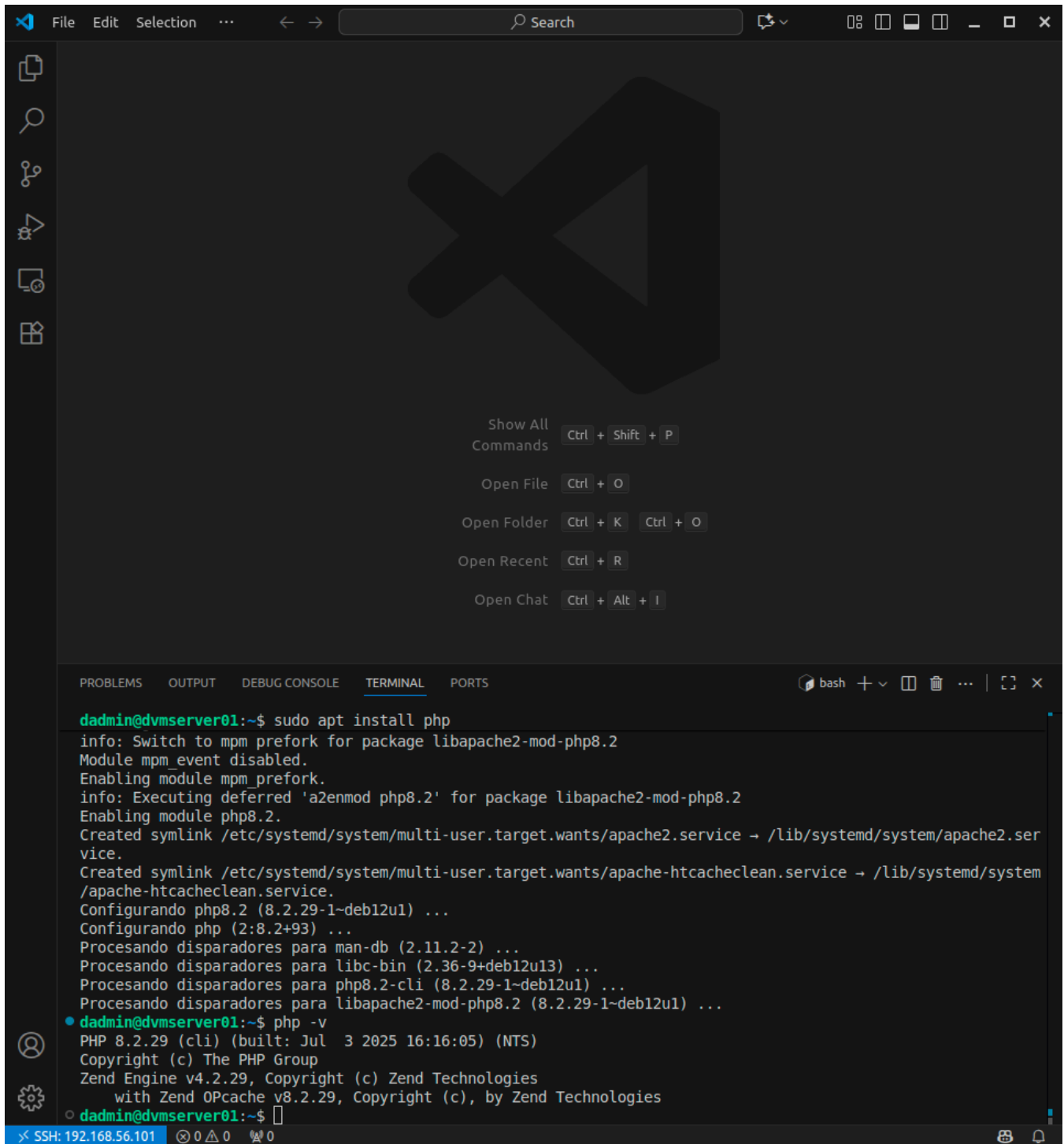
```
dadmin@dvmserver01:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:68:94:f2 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 84763sec preferred_lft 84763sec
    inet6 fd17:625c:f037:2:a00:27ff:fe68:94f2/64 scope global dynamic mngtmpaddr
        valid_lft 86248sec preferred_lft 14248sec
    inet6 fe80::a00:27ff:fe68:94f2/64 scope link
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:2e:fa:25 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.101/24 brd 192.168.56.255 scope global dynamic enp0s8
        valid_lft 521sec preferred_lft 521sec
    inet6 fe80::a00:27ff:fe2e:fa25/64 scope link
        valid_lft forever preferred_lft forever
dadmin@dvmserver01:~$
```

13 Abre un novo terminal. Verás que o terminal (Terminal > Nuevo Terminal) se inicia na máquina virtual (fíxate no nome da máquina). **Realiza unha captura.**



## Exercicio 2

3 Instala PHP. **Realiza unha captura da versión instalada.**



4 instala `Composer`. Realiza unha captura da versión instalada.

```
dadmin@dvmserver01:~$ composer --version
Composer version 2.8.12 2025-09-19 13:41:59
PHP version 8.2.29 (/usr/bin/php8.2)
Run the "diagnose" command to get more detailed diagnostics output.
```

7 Crea un novo proxecto (en GitLab chámanlle proxectos ao repositorios) de nome `iniciaist0201_1` con ficheiro `Readme.md`. Realiza unha captura da interface web co proxecto en GitLab

README.md · main · d25vm-group / dvmt0201\_1 · GitLab — Mozilla Firefox

Avisos alumnos - Guía ×T02.01 Creando co ×README.md · mai ×Confirm your ema ×3.4.3. Variables de ×+ ✓

← → ↺https://gitlab.com/d25vm-group/d25vm-project/-/blob/main/README ☆

✚

📄

🕒

☆

d25vm-group / dvmt0201\_1 / Repository

📘 Your [changes](#) have been committed successfully.

×

main ▾

d25vm-project / README.md

🔗

M+ README.md

Find file

Blame

Edit ▾

⋮

🔗 Edit README.md

2f3728bf

🔗

History

david vidal authored just now

M+ README.md 14 B

Code

Preview

🔗

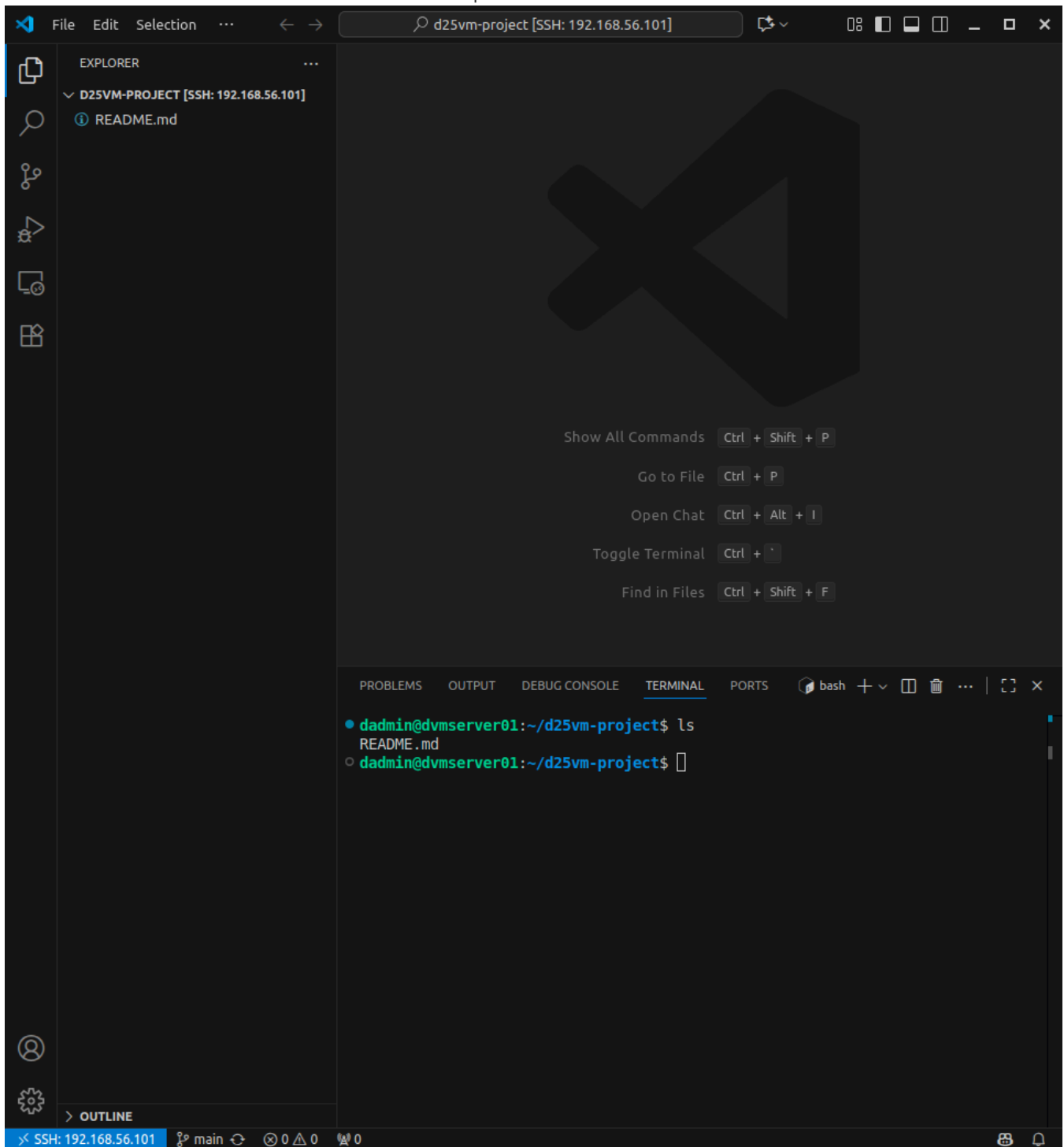
📄

⬇

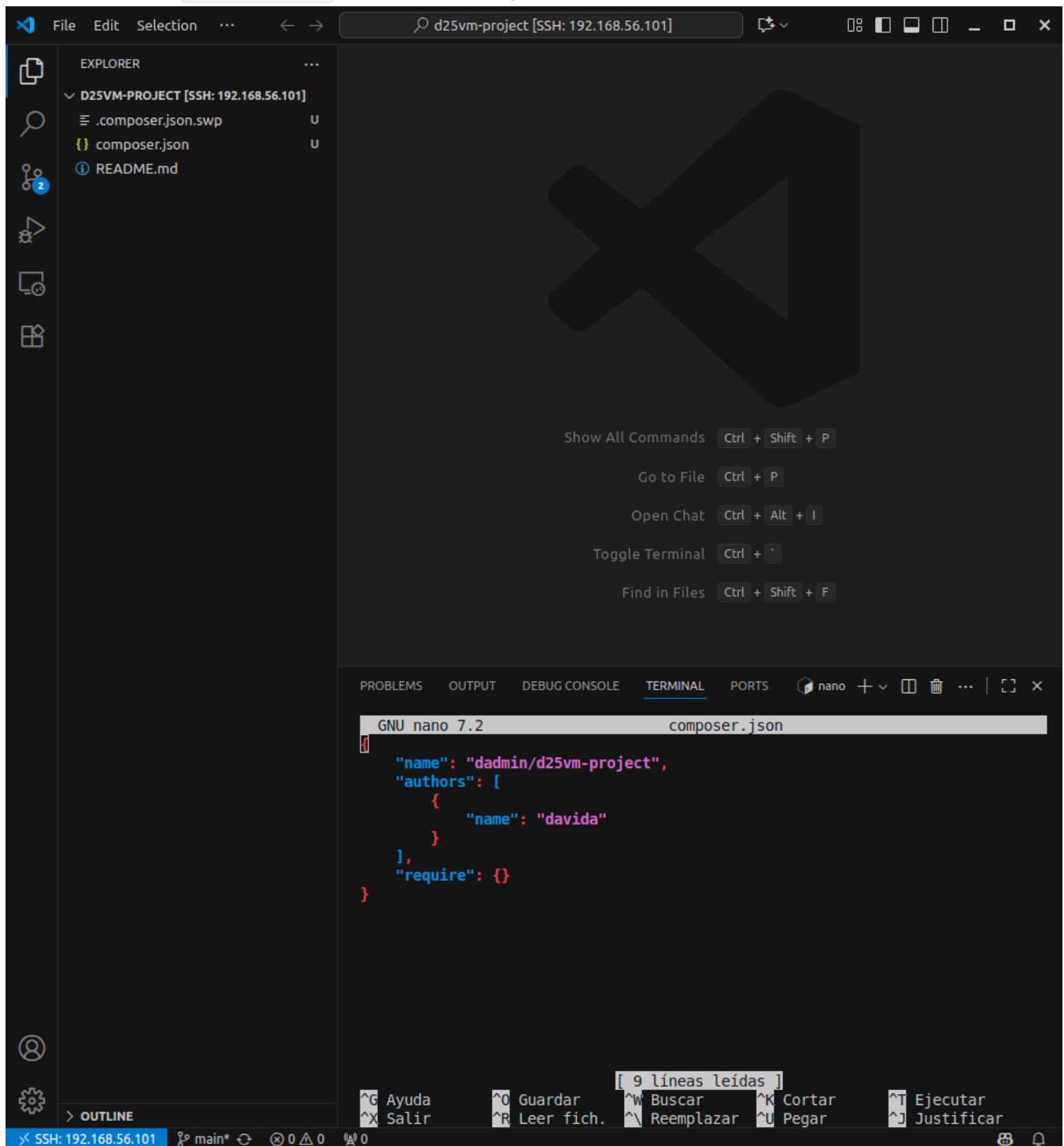
Readme editado

⚙

9 Preme na icona de ficheiros do menú da esquerda de Visual Studio Code. Preme en **Abrir Carpeta**. Selecciona o directorio onde clonaches o repositorio. Acepta tódalas mensaxes. **Realiza unha captura** da interface de VSC onde se vexan os ficheiros do repositorio e a terminal.



11 Abre o ficheiro `composer.json` e **realiza unha captura** do contido deste.

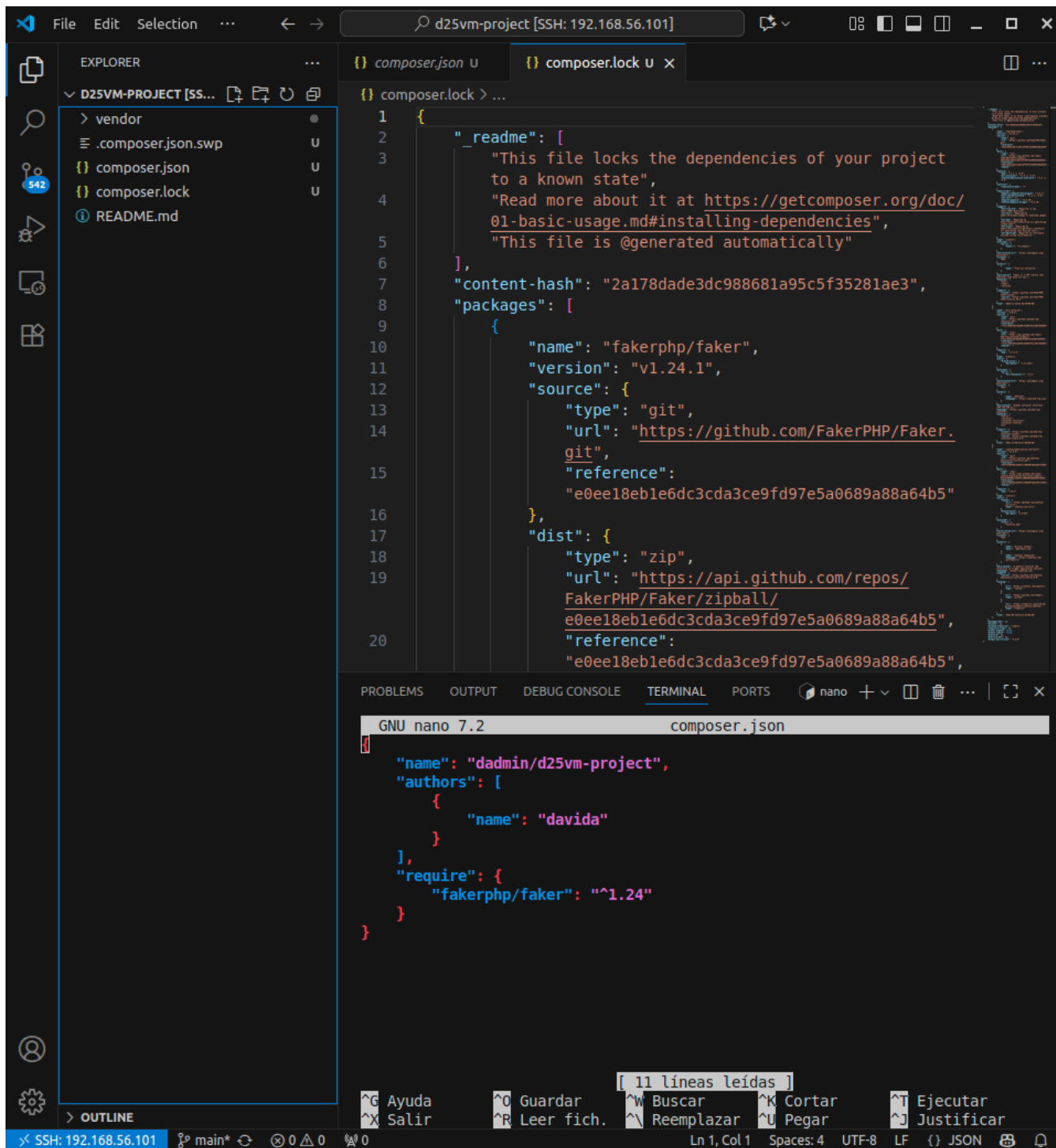


The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal is running the GNU nano 7.2 editor, editing the `composer.json` file. The file content is as follows:

```
"name": "dadmin/d25vm-project",
"authors": [
    {
        "name": "dávda"
    }
],
"require": {}
```

The terminal window also displays a status bar at the bottom with the following text: `[ 9 líneas leídas ]`. The status bar also includes a set of keyboard shortcuts: `^G Ayuda`, `^O Guardar`, `^W Buscar`, `^K Cortar`, `^T Ejecutar`, `^X Salir`, `^R Leer fich.`, `^W Reemplazar`, `^U Pegar`, and `^J Justificar`.

13 Abre o ficheiro `composer.json` e `composer.lock` e **realiza capturas** do contido destes ficheiros.



The screenshot shows a VS Code editor interface with a project named 'd2svm-project' connected via SSH to the IP 192.168.56.101. The Explorer sidebar on the left shows the project structure, including a 'vendor' directory. The main editor area displays the 'composer.lock' file, which contains the following JSON content:

```
{
  "_readme": [
    "This file locks the dependencies of your project to a known state",
    "Read more about it at https://getcomposer.org/doc/01-basic-usage.md#installing-dependencies",
    "This file is @generated automatically"
  ],
  "content-hash": "2a178dade3dc988681a95c5f35281ae3",
  "packages": [
    {
      "name": "fakerphp/faker",
      "version": "v1.24.1",
      "source": {
        "type": "git",
        "url": "https://github.com/FakerPHP/Faker.git",
        "reference": "e0ee18e6dc3cda3ce9fd97e5a0689a88a64b5"
      },
      "dist": {
        "type": "zip",
        "url": "https://api.github.com/repos/FakerPHP/Faker/zipball/e0ee18e6dc3cda3ce9fd97e5a0689a88a64b5",
        "reference": "e0ee18e6dc3cda3ce9fd97e5a0689a88a64b5"
      }
    }
  ]
}
```

The terminal at the bottom shows the 'composer.json' file content:

```
{
  "name": "dadmin/d2svm-project",
  "authors": [
    {
      "name": "david"
    }
  ],
  "require": {
    "fakerphp/faker": "^1.24"
  }
}
```

The terminal also shows the command 'composer.lock' and the output 'GNU nano 7.2 composer.lock'. The status bar at the bottom indicates the file is 'composer.lock' and the editor is in 'main\*' mode.

14 Realiza unha captura do contido do directorio `vendor`

```
File Edit Selection ... d2svm-project [SSH: 192.168.56.101]

EXPLORER
D2svm-project [SSH: 192.168.56.101]
└─ vendor
   ├── composer
   ├── fakerphp
   ├── psr
   ├── symfony
   ├── autoload.php
   ├── composer.json
   ├── composer.lock
   └── README.md

composer.lock
{
  "_readme": [
    "This file locks the dependencies of your project",
    "to a known state",
    "Read more about it at https://getcomposer.org/doc/01-basic-usage.md#installing-dependencies",
    "This file is @generated automatically"
  ],
  "content-hash": "2a178dade3dc988681a95c5f35281ae3",
  "packages": [
    {
      "name": "fakerphp/faker",
      "version": "v1.24.1",
      "source": {
        "type": "git",
        "url": "https://github.com/FakerPHP/Faker.git",
        "reference": "e0ee18e61e6dc3cda3ce9fd97e5a0689a88a64b5"
      },
      "dist": {
        "type": "zip",
        "url": "https://api.github.com/repos/FakerPHP/Faker/zipball/e0ee18e61e6dc3cda3ce9fd97e5a0689a88a64b5",
        "reference": "e0ee18e61e6dc3cda3ce9fd97e5a0689a88a64b5"
      }
    }
  ]
}

TERMINAL
- Installing fakerphp/faker (v1.24.1): Extracting archive
1 package suggestions were added by new dependencies, use `composer suggest` to see details.
Generating autoload files
1 package you are using is looking for funding.
Use the `composer fund` command to find out more!
No security vulnerability advisories found.
Using version ^1.24 for fakerphp/faker
dadmin@dvmserver01:~/d2svm-project$ ls
composer.json  composer.lock  README.md  vendor
• dadmin@dvmserver01:~/d2svm-project$ nano composer.json
• dadmin@dvmserver01:~/d2svm-project$ cd vendor/
• dadmin@dvmserver01:~/d2svm-project/vendor$ ls
autoload.php  composer  fakerphp  psr  symfony
• dadmin@dvmserver01:~/d2svm-project/vendor$ ls -l
total 20
-rw-r--r-- 1 dadmin dadmin 748 sep 26 14:16 autoload.php
drwxr-xr-x 2 dadmin dadmin 4096 sep 26 14:16 composer
drwxr-xr-x 3 dadmin dadmin 4096 sep 26 14:16 fakerphp
drwxr-xr-x 3 dadmin dadmin 4096 sep 26 14:16 psr
drwxr-xr-x 3 dadmin dadmin 4096 sep 26 14:16 symfony
dadmin@dvmserver01:~/d2svm-project/vendor$
```

15 Cria o ficheiro `.gitignore` e engade o directorio `vendor` para que nos se inclúa no repositorio. **Realiza unha captura** do contido deste ficheiro.



File Edit Selection ...

d2svm-project [SSH: 192.168.56.101]

EXPLORER

D25VM-PROJECT [SS...]

vendor

composer

fakerphp

psr

symfony

autoload.php

composer.json

composer.lock

README.md

composer.lock

```
1 {
2     "_readme": [
3         "This file locks the dependencies of your project
4         to a known state",
5         "Read more about it at https://getcomposer.org/doc/
6         01-basic-usage.md#installing-dependencies",
7         "This file is @generated automatically"
8     ],
9     "content-hash": "2a178dade3dc988681a95c5f35281ae3",
10    "packages": [
11        {
12            "name": "fakerphp/faker",
13            "version": "v1.24.1",
14            "source": {
15                "type": "git",
16                "url": "https://github.com/FakerPHP/Faker.
17                git",
18                "reference":
19                "e0ee18eb1e6dc3cda3ce9fd97e5a0689a88a64b5"
20            },
21            "dist": {
22                "type": "zip",
23                "url": "https://api.github.com/repos/
24                FakerPHP/Faker/zipball/
25                e0ee18eb1e6dc3cda3ce9fd97e5a0689a88a64b5",
26                "reference":
27                "e0ee18eb1e6dc3cda3ce9fd97e5a0689a88a64b5",
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

bash - vendor

```
- Installing fakerphp/faker (v1.24.1): Extracting archive
1 package suggestions were added by new dependencies, use `composer suggest` to
o see details.
Generating autoload files
1 package you are using is looking for funding.
Use the `composer fund` command to find out more!
No security vulnerability advisories found.
Using version ^1.24 for fakerphp/faker
dadmin@dvmserver01:~/d2svm-project$ ls
composer.json  composer.lock  README.md  vendor
• dadmin@dvmserver01:~/d2svm-project$ nano composer.json
• dadmin@dvmserver01:~/d2svm-project$ cd vendor/
• dadmin@dvmserver01:~/d2svm-project/vendor$ ls
autoload.php  composer  fakerphp  psr  symfony
• dadmin@dvmserver01:~/d2svm-project/vendor$ ls -l
total 20
-rw-r--r-- 1 dadmin dadmin 748 sep 26 14:16 autoload.php
drwxr-xr-x 2 dadmin dadmin 4096 sep 26 14:16 composer
drwxr-xr-x 3 dadmin dadmin 4096 sep 26 14:16 fakerphp
drwxr-xr-x 3 dadmin dadmin 4096 sep 26 14:16 psr
drwxr-xr-x 3 dadmin dadmin 4096 sep 26 14:16 symfony
o dadmin@dvmserver01:~/d2svm-project/vendor$
```

SSH: 192.168.56.101

main\*

0 0 0

Ln 1, Col 1

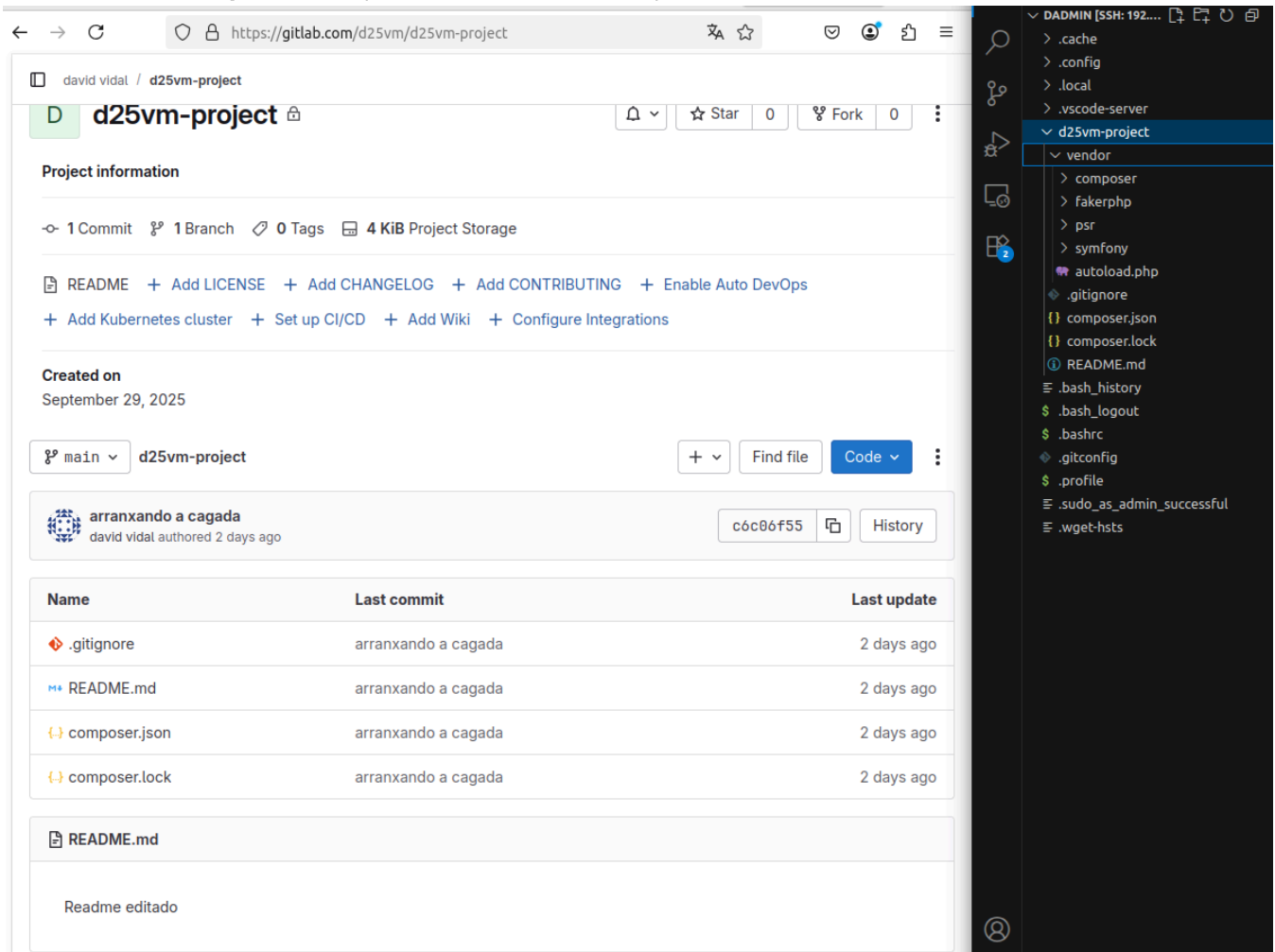
Spaces: 4

UTF-8

LF

{ } JSON

18 **Realiza unha captura** do repositorio en GitLab.com que se vexa o contido deste.



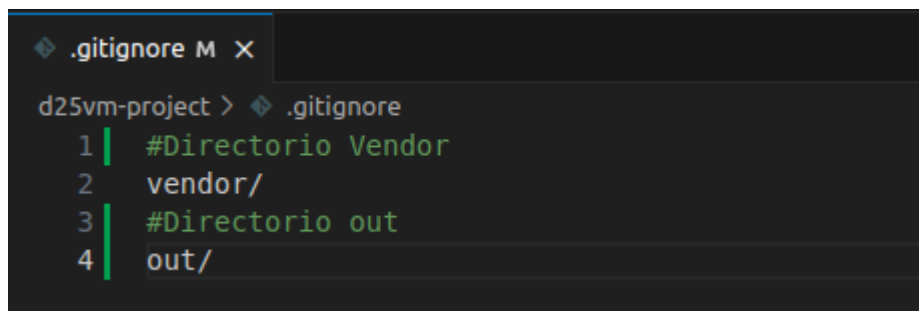
The screenshot shows the GitLab web interface for the repository 'd25vm-project' by user 'david vidal'. The project information section indicates 1 commit, 1 branch, 0 tags, and 4 KiB of project storage. It lists actions like 'Add LICENSE', 'Add CHANGELOG', 'Add CONTRIBUTING', 'Enable Auto DevOps', 'Add Kubernetes cluster', 'Set up CI/CD', 'Add Wiki', and 'Configure Integrations'. The repository was created on September 29, 2025. Below this, a commit by 'arranxando a cagada' is shown with a commit hash of 'c6c86f55'. A table lists the files in the repository:

Name	Last commit	Last update
.gitignore	arranxando a cagada	2 days ago
README.md	arranxando a cagada	2 days ago
composer.json	arranxando a cagada	2 days ago
composer.lock	arranxando a cagada	2 days ago

Below the table, the 'README.md' file is shown with the content 'Readme editado'. On the right side, a file explorer shows the project structure:

- vendor
  - composer
  - fakerphp
  - psr
  - symfony
  - autoload.php
- .gitignore
- composer.json
- composer.lock
- README.md
- .bash\_history
- .bash\_logout
- .bashrc
- .gitconfig
- .profile
- .sudo\_as\_admin\_successful
- .wget-hsts

20 Inclúe o directorio `out` no `.gitignore`. **Realiza capturas** do contido de `.gitignore`.



```
.gitignore M X
d25vm-project > .gitignore
1 | #Directorio Vendor
2 | vendor/
3 | #Directorio out
4 | out/
```

21 Executa o *script* co seguinte comando `php xerar_alumnos.php`. **Realiza unha captura** do ficheiro creado por este *script*.

The screenshot shows a VS Code editor interface. On the left, the Explorer sidebar displays the project structure for 'D25VM-PROJECT [SSH: 192.168.56.101]'. The files listed are: 'out' (expanded), 'alumnos.csv', 'vendor', '.gitignore', 'composer.json', 'composer.lock', 'README.md', and 'xerar\_alumnos.php'. The main editor area shows the content of 'alumnos.csv', which contains a table with 3 columns: 'Nome,Apellido','Data de Nascimento'. The data rows are: Lucas,Verduzco,1983-01-26; Nayara,Ocampo,2006-11-07; Victoria,Millán,1977-10-30; Jordi,Delagarza,1970-10-06; Alexia,Cuesta,1977-05-15; Adam,Feliciano,2001-05-02; Arnau,"De Jesús",1978-03-20; Josefa,Posada,1984-05-02; "Rosa María",Corral,2007-03-05; and Carlos,Paz,1978-04-16.

23 **Realiza unha captura** do repositorio en GitLab.com que se vexa o contido deste.


main

d25vm-project


+

Find file






Code


 **xerar alumnos**  
david vidal authored 1 day ago

12d4d265



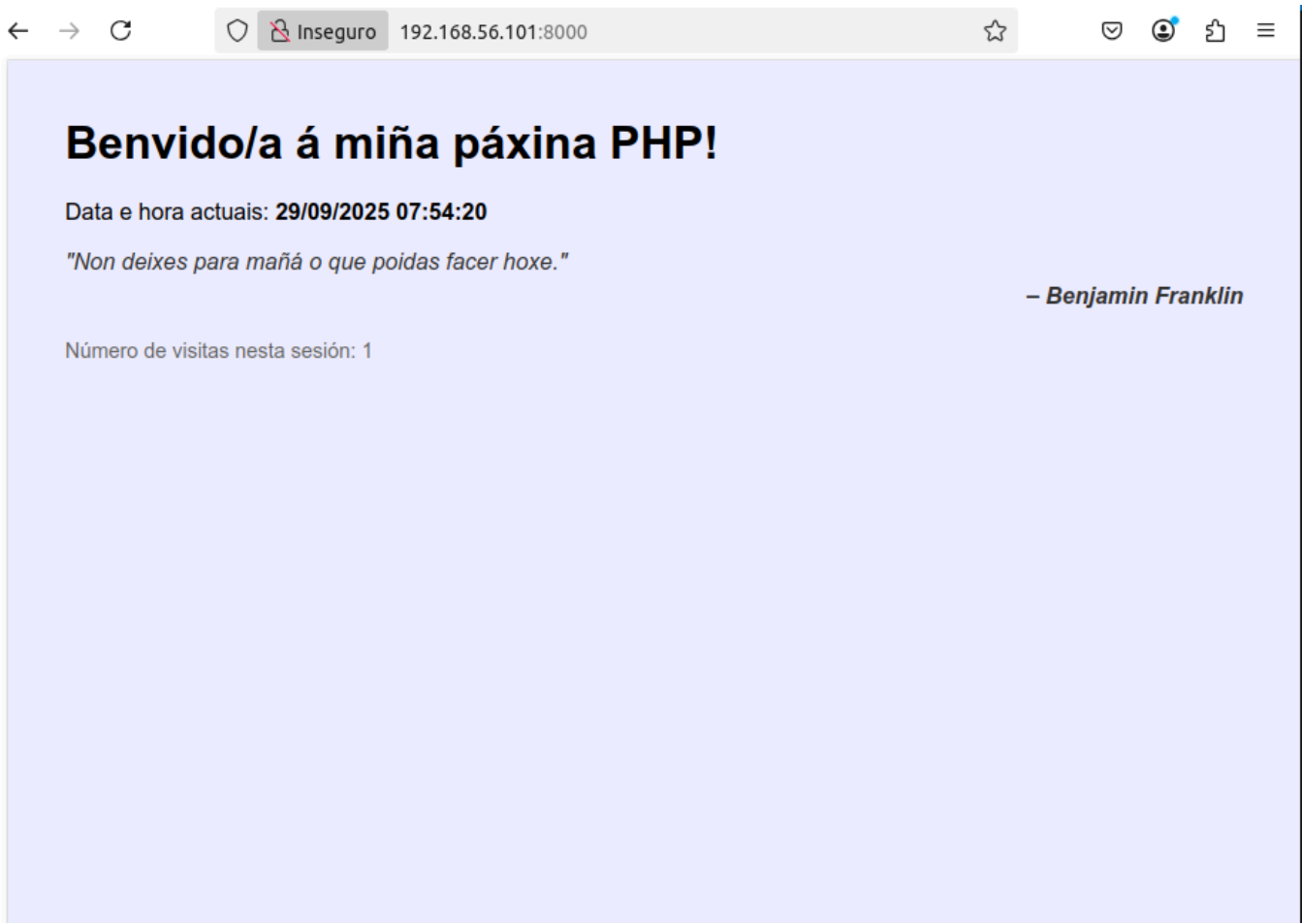
History

Name	Last commit	Last update
 .gitignore	xerar alumnos	1 day ago
 README.md	arranxando a cagada	3 days ago
 composer.json	arranxando a cagada	3 days ago
 composer.lock	arranxando a cagada	3 days ago
 xerar_alumnos.php	xerar alumnos	1 day ago

 README.md

Readme editado

26 No teu equipo, abre un navegador e escribe a seguinte URL: `IP_MÁQUINA_VIRTUAL:8000`. **Realiza capturas** da web que se mostra



29 **Realiza unha captura** do repositorio en GitLab.com que se vexa o contido deste.

Created on

September 29, 2025


main

d25vm-project

+







Find file


Code

 **index.php**  
david vidal authored 1 day ago

92f3967b

History

Name	Last commit	Last update
 .gitignore	xerar alumnos	1 day ago
 README.md	arranxando a cagada	3 days ago
 composer.json	arranxando a cagada	3 days ago
 composer.lock	arranxando a cagada	3 days ago
 index.php	index.php	1 day ago
 xerar_alumnos.php	xerar alumnos	1 day ago

 README.md

Readme editado

## EXERCICIO 3

3 **Realiza unha captura** coas versión de `Node.js` e `npm`.

```
dadmin@dvmserver01:~$ node -v
v20.19.5
dadmin@dvmserver01:~$ npm -v
10.8.2
```

4 Crea un novo proxecto (en GitLab chámalle proxectos ao repositorios) de nome `iniciaist0201_2` con ficheiro `Readme.md`. **Realiza unha captura** da interface web co proxecto en GitLab

Project 'dvmt0201\_2' was successfully created.



**dvmt0201\_2**



☆ Star

0

Fork

0



### Project information

1 Commit 1 Branch 0 Tags 4 KiB Project Storage

README + Add LICENSE + Add CHANGELOG + Add CONTRIBUTING + Enable Auto DevOps  
+ Add Kubernetes cluster + Set up CI/CD + Add Wiki + Configure Integrations

### Created on

September 30, 2025

main dvmt0201\_2



Find file

Code



### Initial commit

david vidal authored just now

150a174a



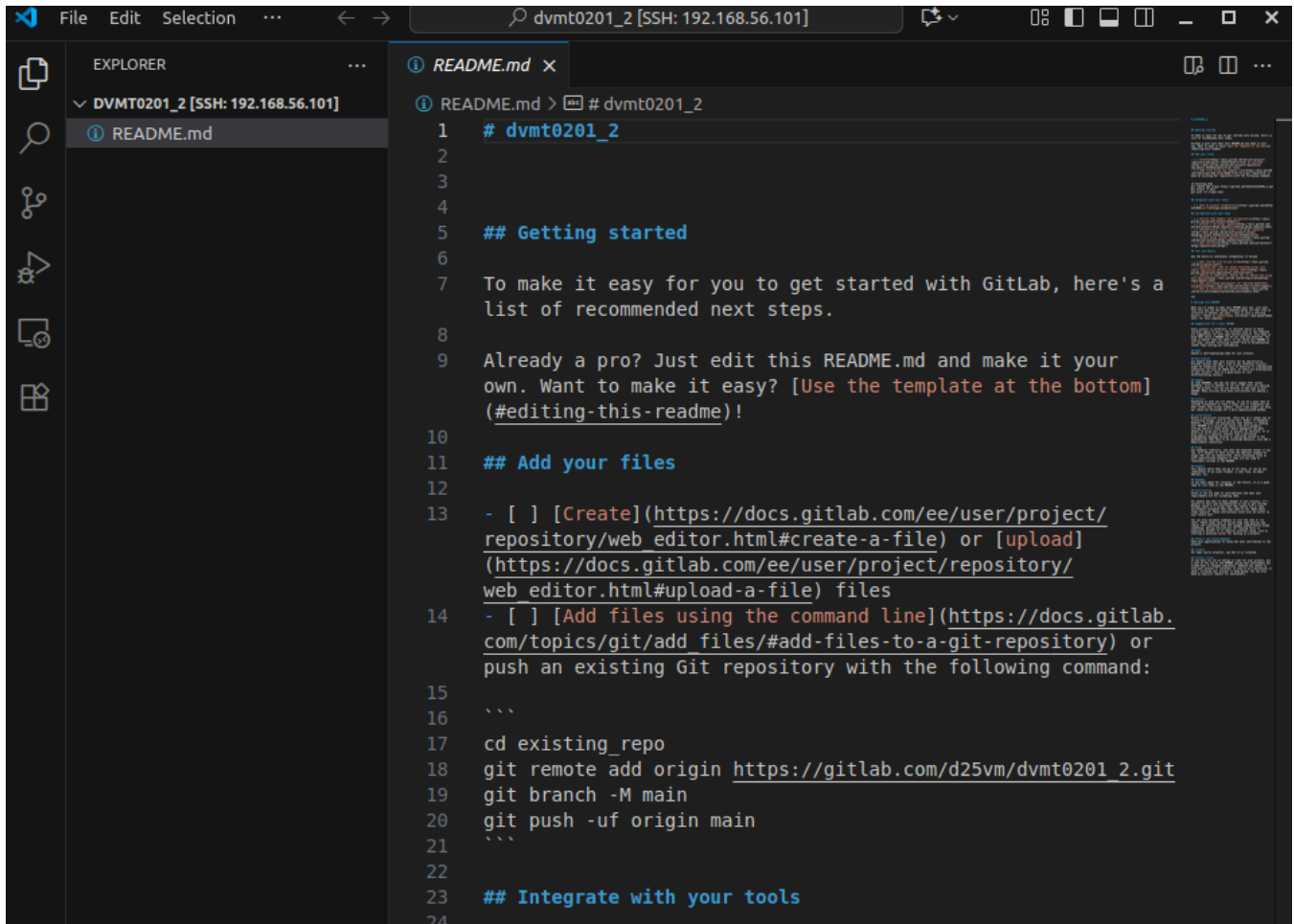
History

Name	Last commit	Last update
README.md	Initial commit	just now

README.md

**dvmt0201\_2**

6 Preme na icona de ficheiros do menú da esquerda de Visual Studio Code. Preme en **Abrir Carpeta**.  
Selecciona o directorio onde clonaches o repositorio. Acepta tódalas mensaxes. **Realiza unha captura** da  
interface de VSC onde se vexan os ficheiros do repositorio e a terminal.



The image shows a screenshot of the Visual Studio Code (VS Code) editor interface. The top bar displays the menu (File, Edit, Selection, ...), a search bar, and the current file path: `dvmt0201_2 [SSH: 192.168.56.101]`. The Explorer sidebar on the left shows the project structure with a folder named `DVMT0201_2 [SSH: 192.168.56.101]` containing a file named `README.md`. The main editor area displays the content of `README.md`, which is a template for a new project. The text includes a title `# dvmt0201_2`, a section `## Getting started` with instructions on how to get started with GitLab, and a section `## Add your files` with instructions on how to add files to a repository. The text also includes a section `## Integrate with your tools`. The editor has a dark theme and a sidebar on the left with icons for Explorer, Search, Source Control, Run and Debug, and Extensions.

```
1 # dvmt0201_2
2
3
4
5 ## Getting started
6
7 To make it easy for you to get started with GitLab, here's a
8 list of recommended next steps.
9
10 Already a pro? Just edit this README.md and make it your
11 own. Want to make it easy? [Use the template at the bottom]
12 (#editing-this-readme)!
13
14 ## Add your files
15
16 - [ ] [Create](https://docs.gitlab.com/ee/user/project/
17 repository/web_editor.html#create-a-file) or [upload]
18 (https://docs.gitlab.com/ee/user/project/repository/
19 web_editor.html#upload-a-file) files
20 - [ ] [Add files using the command line](https://docs.gitlab.
21 com/topics/git/add_files/#add-files-to-a-git-repository) or
22 push an existing Git repository with the following command:
23
24 ```
25 cd existing_repo
26 git remote add origin https://gitlab.com/d25vm/dvmt0201_2.git
27 git branch -M main
28 git push -uf origin main
29 ```
30
31 ## Integrate with your tools
```

8 Realiza capturas do contido do ficheiro `package.json`.

EXPLORER

✓ DVMT0201\_2 [SSH: 192.168.56.101]

node\_modules

- > async-function
- > async-generator-function
- > asynckit
- > axios
- > call-bind-apply-helpers
- > combined-stream
- > delayed-stream
- > dunder-proto
- > es-define-property
- > es-errors
- > es-object-atoms
- > es-set-tostringtag
- > follow-redirects
- > form-data
- > function-bind
- > generator-function
- > get-intrinsic
- > get-proto
- > gopd
- > has-symbols
- > has-tostringtag
- > hasown
- > math-intrinsics
- > mime-db
- > mime-types
- > proxy-from-env

{} .package-lock.json

.gitignore

package-lock.json

package.json

README.md

.gitignore U X

.gitignore

- 1 node\_modules/

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

dadmin@dvmserver01: ~/dvmt0201\_2\$ npm

}



14 **Realiza unha captura** do repositorio en GitLab.com que se vexa o contido deste.

main


dvmt0201\_2

+ ▾


Find file

Code ▾





⋮


 **node modules**  
david vidal authored 1 minute ago

cdf7c8e9



History

Name	Last commit	Last update
 .gitignore	node modules	1 minute ago
 README.md	Initial commit	14 minutes ago
 package-lock.json	node modules	1 minute ago
 package.json	node modules	1 minute ago

 README.md

# dvmt0201\_2

16 Executa o *script* anterior co comando `node index.js`. **Realiza capturas** da saída da execución do *script*.

```
dadmin@dvmserver01:~/dvmt0201_2$ node index.js
🌍 Cidade: Santiago de Compostela
🌡️ Temperatura: 21.9 °C
💨 Vento: 8 km/h
🌪️ Dirección do vento: 63°
🕒 Hora da medición: 2025-09-30T13:30
```

18 **Realiza unha captura** do repositorio en GitLab.com que se vexa o contido deste.

Created on

September 30, 2025

main


dvmt0201\_2

+ ▾


Find file

Code ▾






⋮


 **ventiño**  
david vidal authored 20 seconds ago

b6954294



History

Name	Last commit	Last update
 .gitignore	node modules	4 minutes ago
 README.md	Initial commit	17 minutes ago
 index.js	ventiño	20 seconds ago
 package-lock.json	node modules	4 minutes ago
 package.json	node modules	4 minutes ago

 README.md