

Servicio nacional de aprendizaje SENA



Programa
Análisis y desarrollo de software

Archivos cargados en la plataforma de producción

GA10-220501097-AA6-EV01

Instructor
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Regional Bogotá
Junio 2024

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1-INTRODUCCION

El objetivo de este documento es proporcionar una guía completa y detallada para la instalación y despliegue de una aplicación web para el mantenimiento y reparación de equipos de cómputo, desarrollada en JavaScript.

Esta guía está destinada a técnicos y usuarios finales que necesiten configurar y ejecutar la aplicación en un entorno local diferente al entorno de desarrollo original.

La instalación abarca desde la configuración del entorno de desarrollo hasta la instalación de todas las dependencias necesarias, incluyendo Node.js, npm, Git, y la base de datos.

Se proporcionan instrucciones paso a paso, acompañadas de capturas de pantalla, para asegurar que incluso aquellos con conocimientos técnicos limitados puedan seguir el proceso sin dificultades.

La aplicación web tiene como objetivo mejorar la gestión y seguimiento de las tareas de mantenimiento y reparación de equipos de cómputo.

A través de una interfaz web, los usuarios pueden registrar, actualizar y consultar el estado de las reparaciones, así como generar informes y estadísticas sobre las actividades realizadas.

Esta solución es especialmente útil para empresas de servicios técnicos, departamentos de IT, y cualquier organización que requiera un seguimiento detallado de sus equipos de cómputo.

2-OBJETIVOS

1. Proporcionar una guía detallada para la instalación completa del entorno de desarrollo necesario:

Asegurar que todos los componentes y herramientas necesarias para el funcionamiento de la aplicación estén correctamente instalados y configurados en el equipo del cliente.

2. Facilitar la configuración y despliegue de la aplicación web:

Instruir a los usuarios sobre cómo clonar el repositorio del proyecto, instalar dependencias y configurar la base de datos para que la aplicación funcione correctamente en un nuevo dispositivo.

3. Incluir instrucciones claras y capturas de pantalla:

Proporcionar imágenes descriptivas y pasos detallados que faciliten el proceso de instalación, haciendo que el documento sea accesible incluso para aquellos con conocimientos técnicos básicos.

4. Asegurar la replicabilidad del entorno de desarrollo:

Garantizar que la aplicación pueda ser desplegada en múltiples dispositivos siguiendo un proceso estandarizado, minimizando la posibilidad de errores o configuraciones incorrectas.

3-REQUERIMIENTOS DE INSTALACION

Selección de la Plataforma de Desarrollo

Para este proyecto, utilizaremos las siguientes herramientas y plataformas:

1-Node.js: Entorno de ejecución para JavaScript.

2-npm (Node Package Manager): Administrador de paquetes para Node.js.

3-Git: Sistema de control de versiones.

4-Base de datos: MySQL Workbench.

5-Navegador web: Para visualizar la aplicación (Google Chrome, Firefox, etc.).

Paso a Paso para la Instalación

1. Instalación de Node.js y npm

Paso 1: Descargar Node.js desde la página oficial.

Selecciona la versión recomendada para la mayoría de los usuarios.

Sigue las instrucciones de instalación según tu sistema operativo (Windows, macOS, Linux).

Captura de pantalla:

The screenshot shows a browser window with the Node.js website (nodejs.org/en) open. The main content area features the Node.js logo and the tagline "Run JavaScript Everywhere". It describes Node.js as a free, open-source, cross-platform JavaScript runtime environment. A prominent green button labeled "Download Node.js (LTS)" is visible. To the right, a "Node.js Setup" wizard window is displayed, titled "Welcome to the Node.js Setup Wizard". The wizard explains that it will install Node.js on the computer. Below the wizard, a snippet of JavaScript code is shown, starting with "node:http";. A "Copy to clipboard" button is present. At the bottom of the page, there's a note about getting Node.js v22.2.0 instead of v20.14.0, and a link to "Learning materials". The browser's navigation bar and various icons are visible at the top and bottom of the screen.

The screenshot shows the Node.js website with the main heading "Run JavaScript Everywhere". Below it, a section describes Node.js as a free, open-source, cross-platform JavaScript runtime environment. A green button labeled "Download Node.js (LTS)" is visible. To the right, a "Node.js Setup" window titled "End-User License Agreement" is displayed, prompting the user to read the license agreement. A code editor window on the right shows a snippet of Node.js code related to an HTTP server. At the bottom, there's a "Copy to clipboard" button.

This screenshot is identical to the one above, but the "Node.js Setup" window has changed to the "Custom Setup" screen. It allows the user to select specific features to install, such as the Node.js runtime, corepack manager, npm package manager, online documentation shortcuts, and adding to the PATH. The rest of the page, including the main content, the download button, and the code editor, remains the same.

The screenshot shows the final step of the setup process, likely "Ready to Install". The "Node.js Setup" window displays a summary of the selected features and provides a "Install" button. The rest of the page, including the main content, the download button, and the code editor, remains consistent with the previous screenshots.

The screenshot shows the official Node.js website at nodejs.org/en. The main page features a large heading "Run JavaScript Everywhere" and a brief description of what Node.js is. Below the description is a green "Download Node.js (LTS)" button. To the right of the download button is a "Node.js Setup" window titled "Destination Folder". The window shows the path "C:\Program Files\nodejs\" selected in a dropdown menu. A "Change..." button is also visible. At the bottom of the window are "Back", "Next", and "Cancel" buttons. To the right of the setup window is a code editor window displaying a snippet of JavaScript code related to a "node:http" module. The code includes logic for handling requests and responding with plain text. A "Copy to clipboard" button is located at the bottom right of the code editor.

This screenshot shows a Windows desktop environment. The taskbar at the bottom of the screen has several pinned icons, including File Explorer, Task View, Edge browser, Mail, Photos, and others. Overlaid on the taskbar is the "Node.js Setup" window from the previous screenshot, specifically the "Custom Setup" step. This window allows users to select which features of Node.js to install, such as the core runtime, corepack manager, npm package manager, and online documentation shortcuts. A note indicates that selecting these features frees up 738KB of hard drive space. The "Next" button is highlighted in blue. The rest of the screen shows the Node.js website content, including the "Run JavaScript Everywhere" page and the code editor window.

This screenshot is similar to the one above, but it focuses more on the "Custom Setup" dialog of the Node.js Setup application. The dialog lists several feature options under a tree view, with "Node.js runtime" being the only item currently selected. A note next to the list says "This feature frees up 738KB on your hard drive." Below the list are "Reset", "Disk Usage", "Back", "Next", and "Cancel" buttons. The "Next" button is highlighted. The background shows the Node.js website and a code editor window, identical to the previous screenshots.

This final screenshot shows the Windows taskbar again, with its pinned icons. Overlaid is the "Node.js Setup" window, specifically the "Custom Setup" step. The "Node.js runtime" feature is selected. A note states "This feature frees up 738KB on your hard drive." Below the list are "Reset", "Disk Usage", "Back", "Next", and "Cancel" buttons. The "Next" button is highlighted. The background shows the Node.js website and a code editor window, consistent with the previous screenshots.

The screenshot shows the official Node.js website at nodejs.org/en. The main content features a large heading "Run JavaScript Everywhere". Below it, a green button says "Download Node.js (LTS)". A note below the button states: "Downloads Node.js v20.14.0¹ with long-term support. Node.js can also be installed via package managers." Another note says: "Want new features sooner? Get Node.js v22.2.0¹ instead." To the right, a modal window titled "Node.js Setup" is open, showing the "Tools for Native Modules" step. It includes instructions about installing tools for native modules and a checkbox for automatic installation. A code editor window on the right displays a snippet of JavaScript code related to HTTP requests.

This screenshot shows the same Node.js website as above, but with a different browser interface. The top navigation bar includes links for Trademark Policy, Privacy Policy, Code of Conduct, and Security Policy. The main content area is identical to the first screenshot, featuring the "Run JavaScript Everywhere" heading and the "Download Node.js (LTS)" button. The "Node.js Setup" modal is also present, showing the "Ready to install Node.js" step with an "Install" button. The code editor window on the right continues to show the same JavaScript code snippet.

nodejs.org/en

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node Learn About Download Blog Docs Certification

Start typing... Ctrl K

Run JavaScript Everywhere

Node.js® is a free, open-source, cross-platform JavaScript runtime environment that lets developers create servers, web apps, command line tools and scripts.

[Download Node.js \(LTS\)](#)

Downloads Node.js v20.14.0¹ with long-term support. Node.js can also be installed via package managers.

Want new features sooner? Get [Node.js v22.2.0](#) instead.

Please wait while the Setup Wizard installs Node.js.

Status: Validating install

Read and Hash a File Streams Pipeline Work with Threads

```
const http = require('node:http');
((req, res) => {
  res.setHeader('Content-Type', 'text/plain');
})()
  .listen(3000)
  .on('listening', () => {
    console.log(`Server locally on port 3000
0.1', () => {
  127.0.0.1:3000');
});
```

Cancel

Back Next

JavaScript

Copy to clipboard

Learn more what Node.js is able to offer with our Learning materials.

Trademark Policy Privacy Policy Code of Conduct Security Policy © OpenJS Foundation

Buscar 16°C Mayorm. nubl... 7:10 p.m. 30/05/2024

nodejs.org/en

Gmail YouTube Maps Señal fuera de rango... gustavo camacho C... como activo mi tarj... TABLAS NORMAS A... Convierte Excel en u... Como programar e... Crea tu PAGINA WE... Todos los marcadores

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Start typing... Ctrl K

Run JavaScript Everywhere

Node.js® is a free, open-source, cross-platform JavaScript runtime environment that lets developers create servers, web apps, command line tools and scripts.

[Download Node.js \(LTS\)](#)

Downloads Node.js v20.14.0¹ with long-term support. Node.js can also be installed via package managers.

Want new features sooner? Get [Node.js v22.2.0](#) instead.

Completed the Node.js Setup Wizard

Click the Finish button to exit the Setup Wizard.

Node.js has been successfully installed.

Read and Hash a File Streams Pipeline Work with Threads

```
const http = require('node:http');
((req, res) => {
  res.setHeader('Content-Type', 'text/plain');
})()
  .listen(3000)
  .on('listening', () => {
    console.log(`Server locally on port 3000
0.1', () => {
  127.0.0.1:3000');
});
```

Finish

Back Cancel

JavaScript

Copy to clipboard

Learn more what Node.js is able to offer with our Learning materials.

Trademark Policy Privacy Policy Code of Conduct Security Policy © OpenJS Foundation

Buscar 37 min de retraso en... 7:10 p.m. 30/05/2024

Paso 2: Verificar la instalación.

Abre PowerShell (en Windows) o la terminal de comandos (en macOS o Linux) y ejecuta:

```
node -v  
npm -v
```

Captura de pantalla:

 Administrador: Windows PowerShell

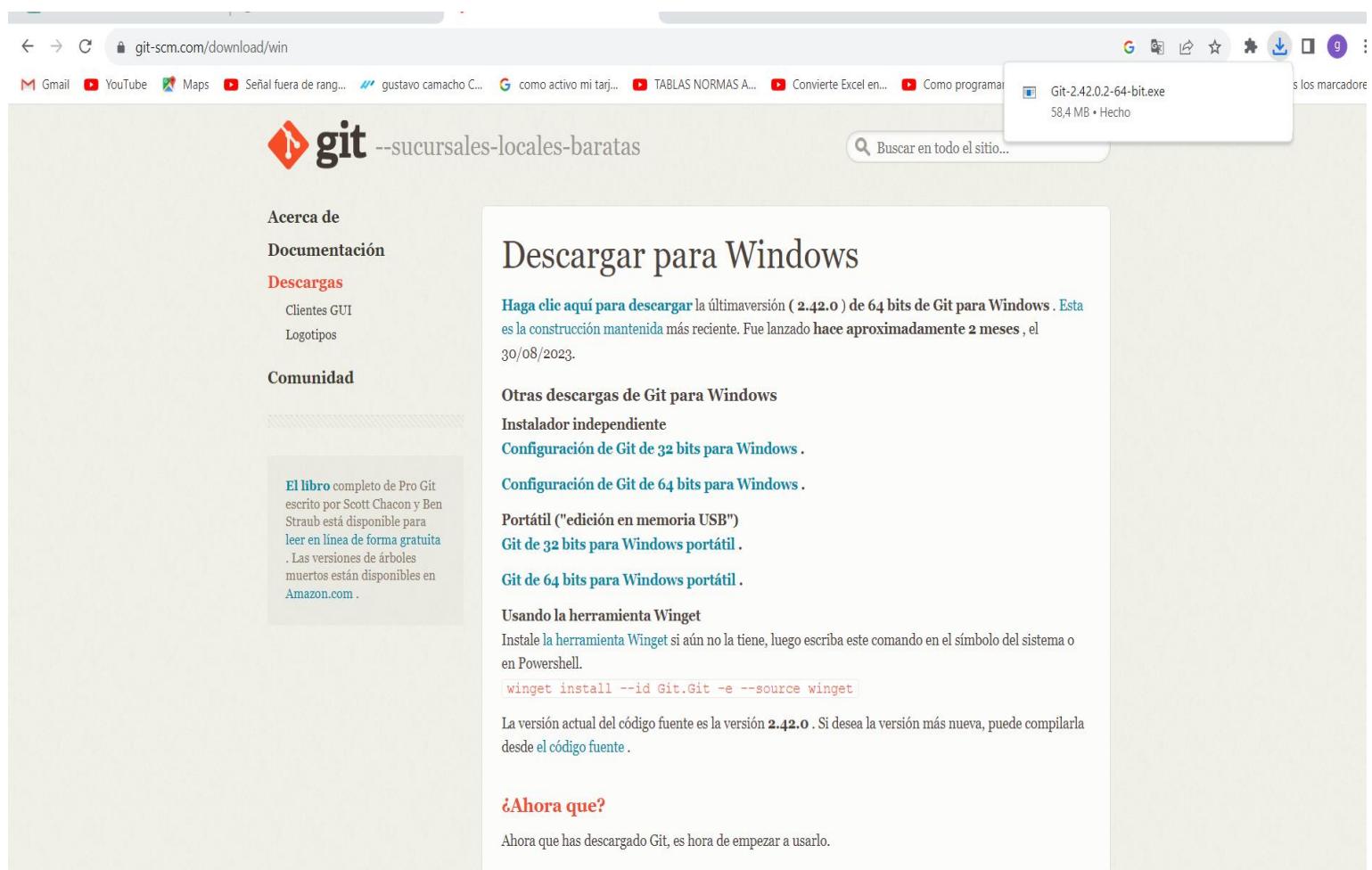
```
Windows PowerShell  
Copyright (C) Microsoft Corporation. Todos los derechos reservados.  
  
Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6  
  
PS C:\Windows\system32> node -v  
>> npm -v  
>>  
v20.11.1  
10.5.0  
PS C:\Windows\system32>
```

3. Instalación de Git

Paso 3: Descargar Git desde la página oficial de Git.

Sigue las instrucciones de instalación según tu sistema operativo.

Captura de pantalla:

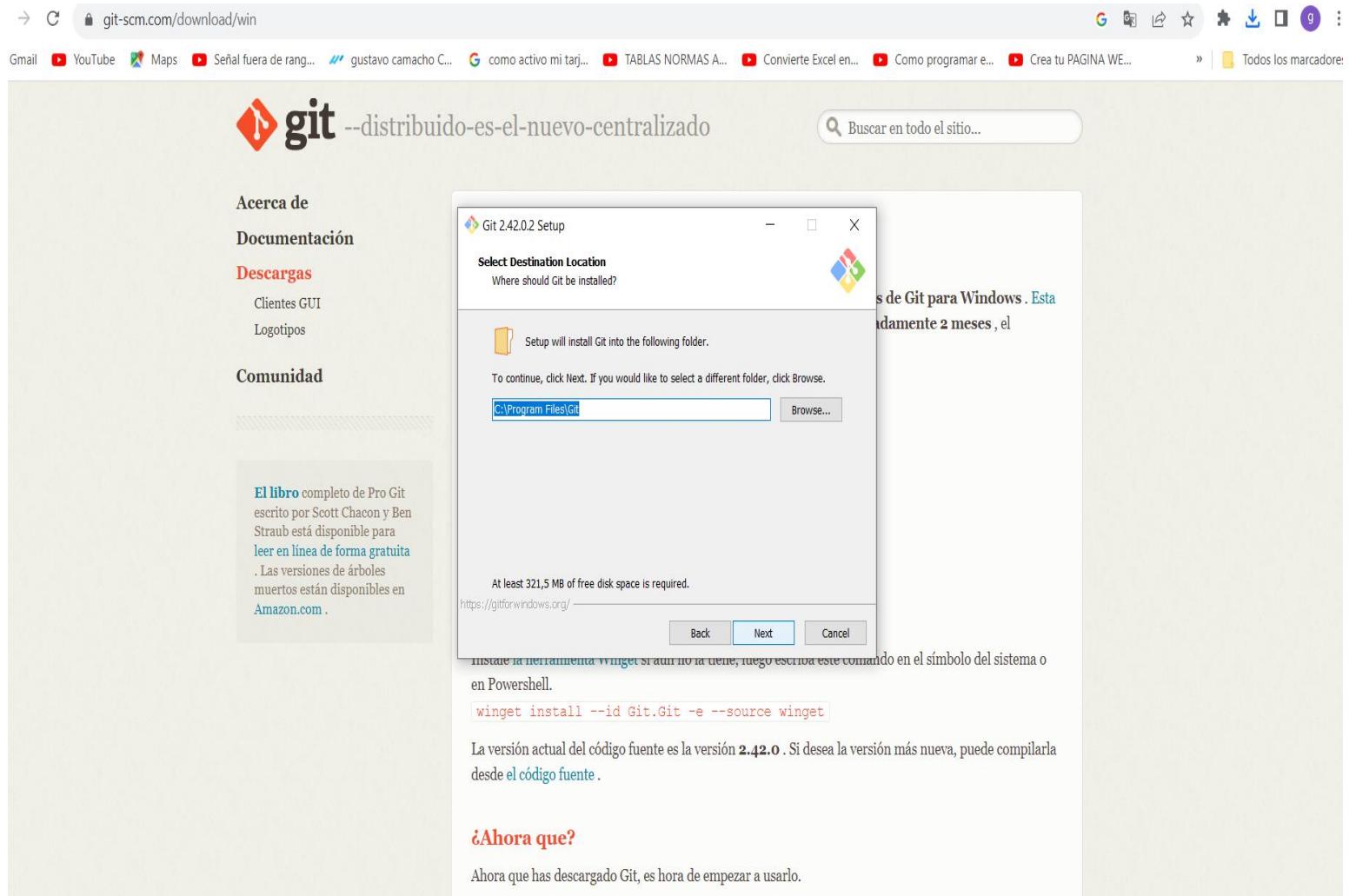


Ingresamos a cualquier navegador y escribimos git, y nos lleva a la página de descarga y escogemos la configuración que mas nos convenga ya sea de 32 o 64 bits.

Nos descarga un ejecutable .exe le damos clic y empieza la descarga.

The screenshot shows a web browser window with the URL git-scm.com/download/win. The page displays the official Git logo and navigation links for 'Acerca de', 'Documentación', 'Descargas', and 'Comunidad'. A sidebar on the left provides information about the 'El libro' (The Book) and links to 'Clientes GUI' and 'Logotipos'. The main content area features a large image of the 'Git 2.42.0.2 Setup' window. This window has a title bar 'Git 2.42.0.2 Setup' and a header 'Information' with the sub-instruction 'Please read the following important information before continuing.' It includes a 'Next' button at the bottom right. Below the setup window, there is a note about installing the 'winget' tool if it's not available, followed by a command line snippet: 'winget install --id Git.Git -e --source winget'. Further down, it states that the current version is 2.42.0 and provides a link to the source code. At the bottom, a section titled '¿Ahora que?' (What now?) encourages users to start using Git.

Acá comienza la descarga y le damos next.



Nos muestra esta, pantalla y damos clic en next.

→ C git-scm.com/download/win

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git --distribuido-es-el-nuevo-centralizado

Buscar en todo el sitio...

Acerca de

Documentación

Descargas

Creadores GUI

Logotipos

Comunidad

El libro completo de Pro Git escrito por Scott Chacon y Ben Straub está disponible para leer en línea de forma gratuita. Las versiones de árboles muertos están disponibles en Amazon.com .

Git 2.42.0.2 Setup

Select Components

Which components should be installed?

Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

Additional Icons
 On the Desktop
 Windows Explorer integration
 Open Git Bash here
 Open Git GUI here
 Git LFS (Large File Support)
 Associate .git* configuration files with the default text editor
 Associate .sh files to be run with Bash
 Check daily for Git for Windows updates
 (NEW!) Add a Git Bash Profile to Windows Terminal

Current selection requires at least 321,5 MB of disk space.
https://gitforwindows.org/

Back Next Cancel

Instale la herramienta winget si aún no la tiene, luego escriba este comando en el símbolo del sistema o en Powershell.

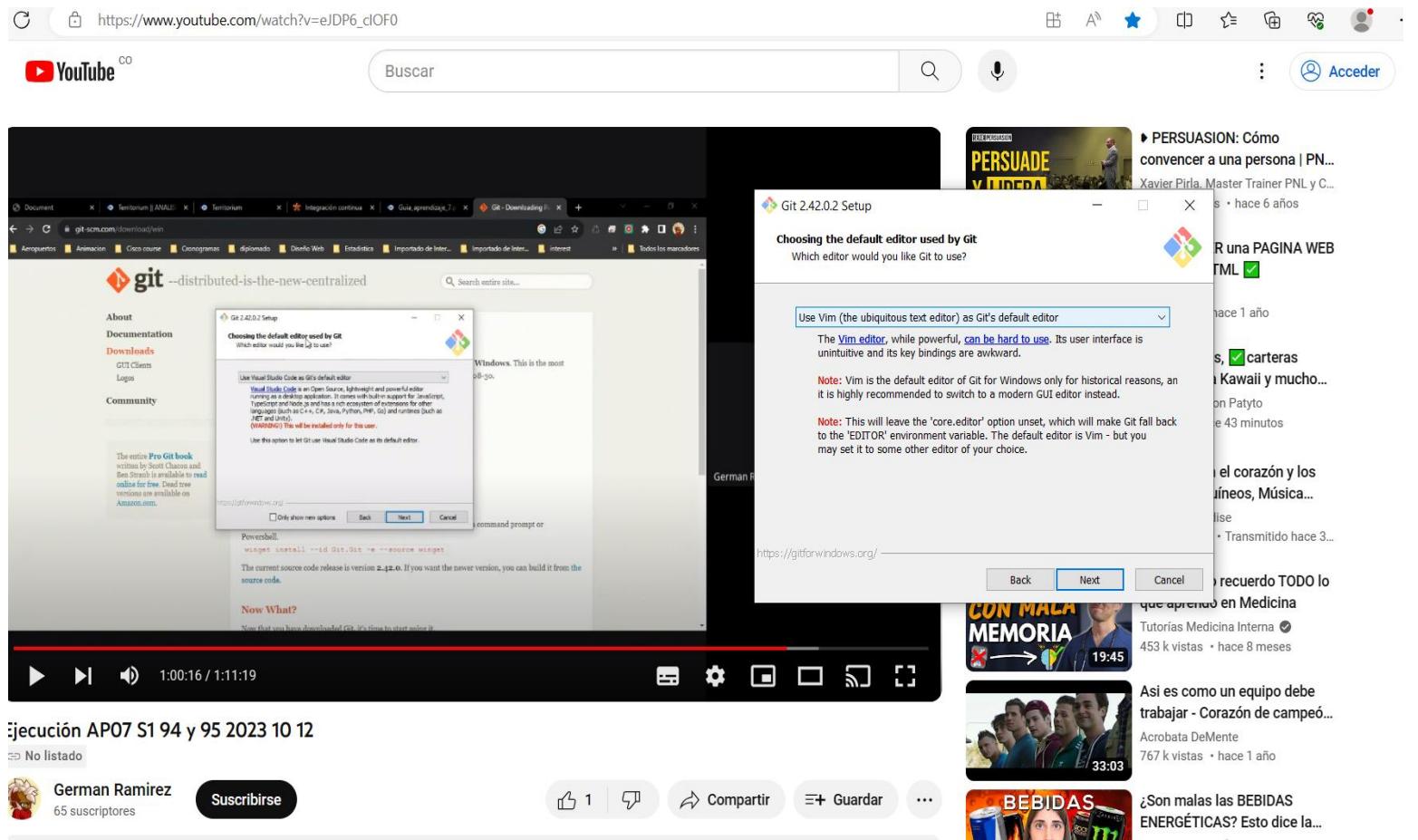
winget install --id Git.Git -e --source winget

La versión actual del código fuente es la versión 2.42.0 . Si desea la versión más nueva, puede compilarla desde el código fuente .

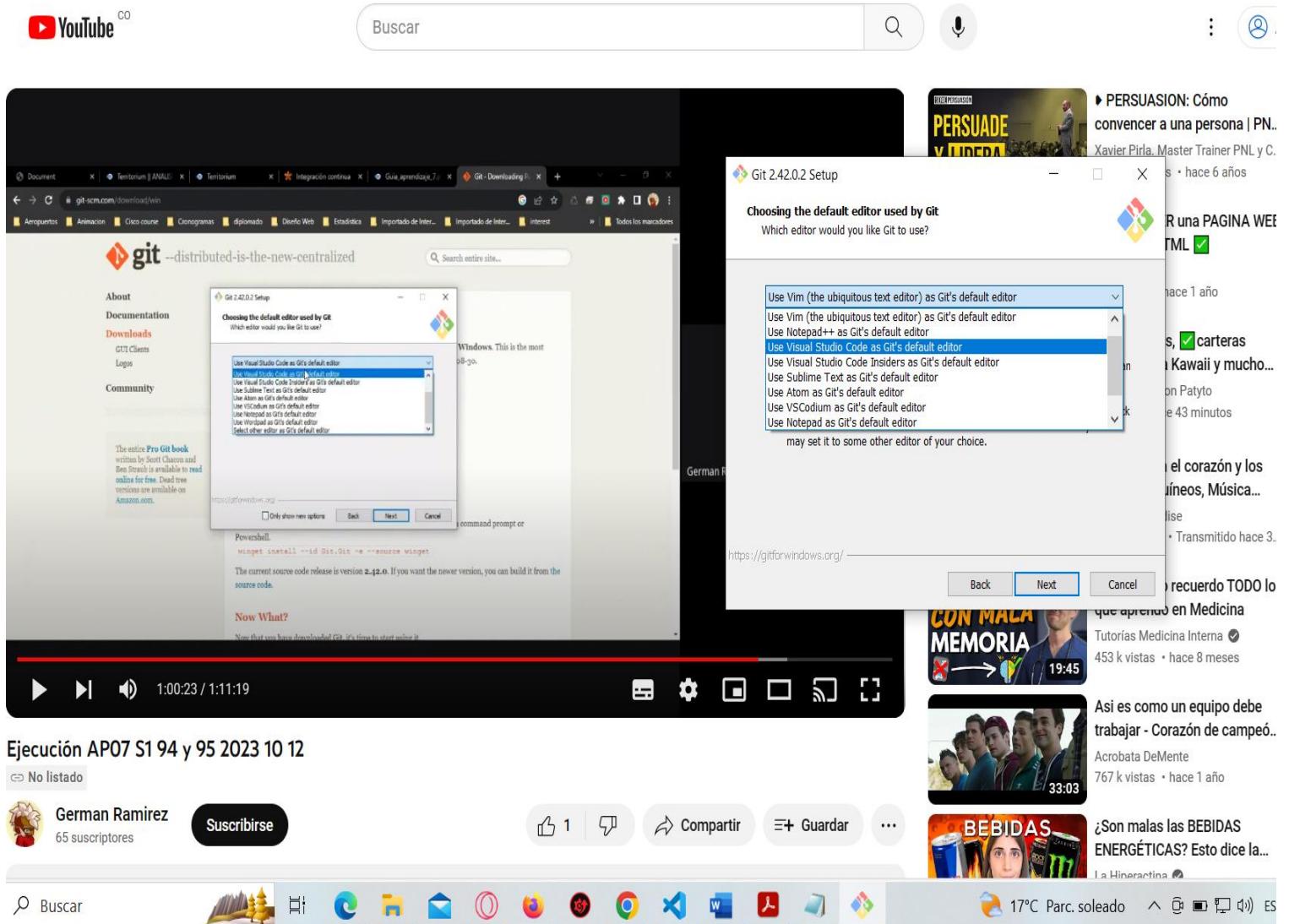
¿Ahora qué?

Ahora que has descargado Git, es hora de empezar a usarlo.

En esta pantalla, dejamos por defecto como nos aparece y le damos clic en next.



En esta pantalla, nos muestra que editor de texto deseamos escoger, damos clic en la pestaña.



En esta pantalla, seleccionamos Visual Studio Code y damos clic en next.

YouTube CO

Buscar

Acceder

Document x • Territorium || ANALIS x • Territorium x • Integración continua x • Guia_aprendizaje_7.x • Git - Downloading x

git-scm.com/download/win

Aeropuertos Animacion Cisco course Cronogramas diplomado Diseño Web Estadística Importado de Inter... Importado de Inter... interest Todos los marcadores

git -distributed-is-the-new-centralized

About Documentation Downloads GCI Clients Logos Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read online at gitforwindows.org/. Download versions are available on Amazon.com.

Choosing the default editor used by Git Which editor would you like Git to use?

Windows. This is the most popular.

Use Visual Studio Code as Git's default editor

Visual Studio Code is an Open Source, lightweight and powerful editor running as a desktop application. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages (such as C++, C#, Java, Python, PHP, Go) and runtimes (such as .NET and Unity). **(WARNING!) This will be installed only for this user.**

Use this option to let Git use Visual Studio Code as its default editor.

Back Next Cancel

Ejecución AP07 S1 94 y 95 2023 10 12

No listado

German Ramirez 65 suscriptores Suscribirse

Untitled-html2.html - Untitled... html clientes - Visual...

Ya seleccionado Visual Studio Code, le damos clic en next.



Buscar



The screenshot shows a YouTube video player with a video titled "jecución AP07 S1 94 y 95 2023 10 12" playing at 1:01:03 / 1:11:19. The video content is a screenshot of a computer screen displaying the "Git 2.42.0.2 Setup" window. The window is titled "Choosing the default editor used by Git" and asks, "Which editor would you like Git to use?" It provides two options: "Use Visual Studio Code as Git's default editor" (selected) and "Use the system's command prompt or Powershell". Below these options, there is a note about using wmgit. The video player has a standard control bar with play/pause, volume, and progress indicators.

The screenshot shows a YouTube video player with a video titled "Git 2.42.0.2 Setup" playing at 1:45 / 1:45. The video content is a screenshot of a computer screen displaying the "Git 2.42.0.2 Setup" window. The window is titled "Adjusting the name of the initial branch in new repositories" and asks, "What would you like Git to name the initial branch after "git init"?" It provides two options: "Let Git decide" (selected) and "Override the default branch name for new repositories". Below these options, there is a note about teams renaming their default branches and a text input field with "main". The video player has a standard control bar with play/pause, volume, and progress indicators.

jecución AP07 S1 94 y 95 2023 10 12

No listado

 German Ramirez
65 suscriptores

Suscribirse

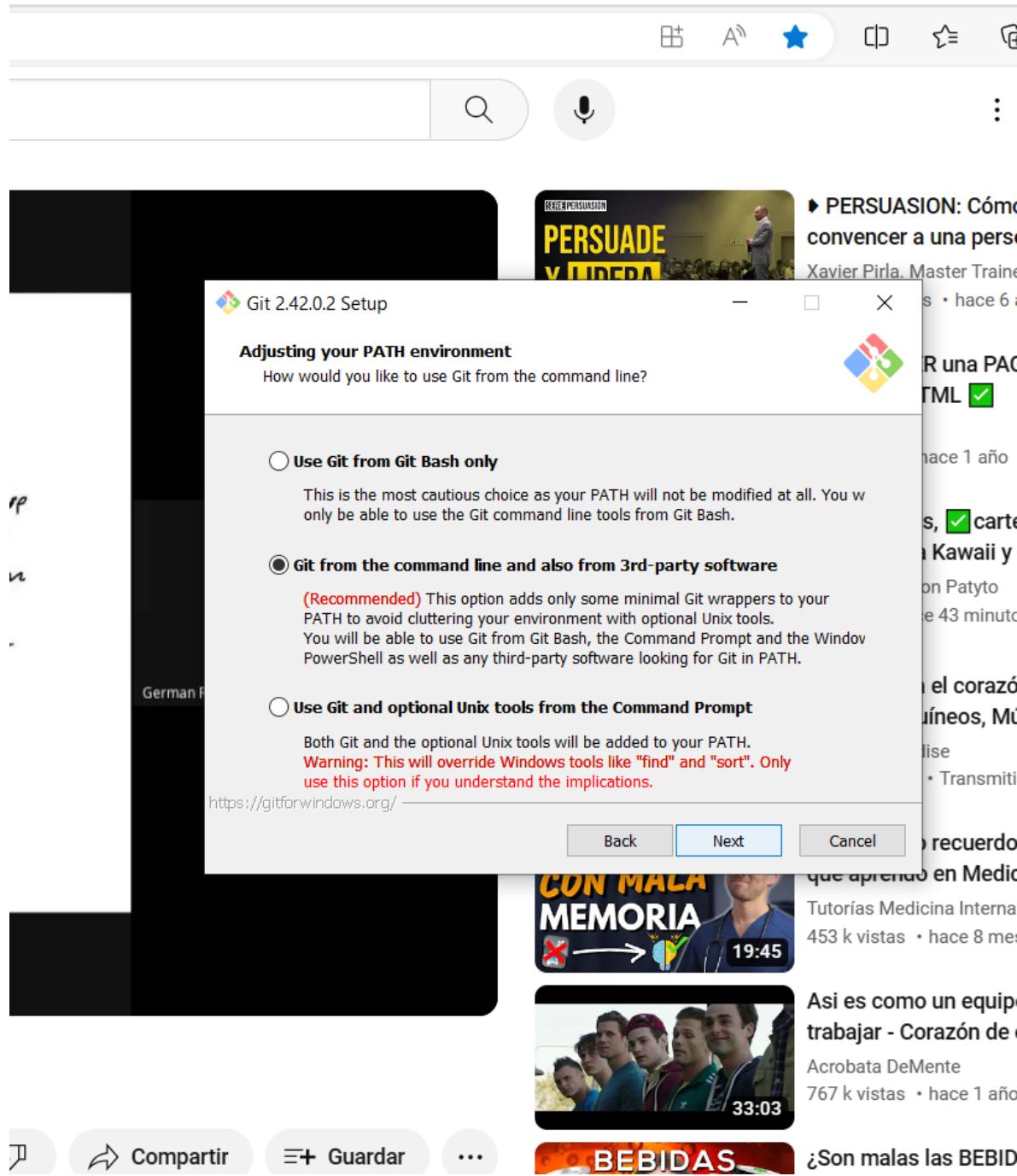
1

Compartir

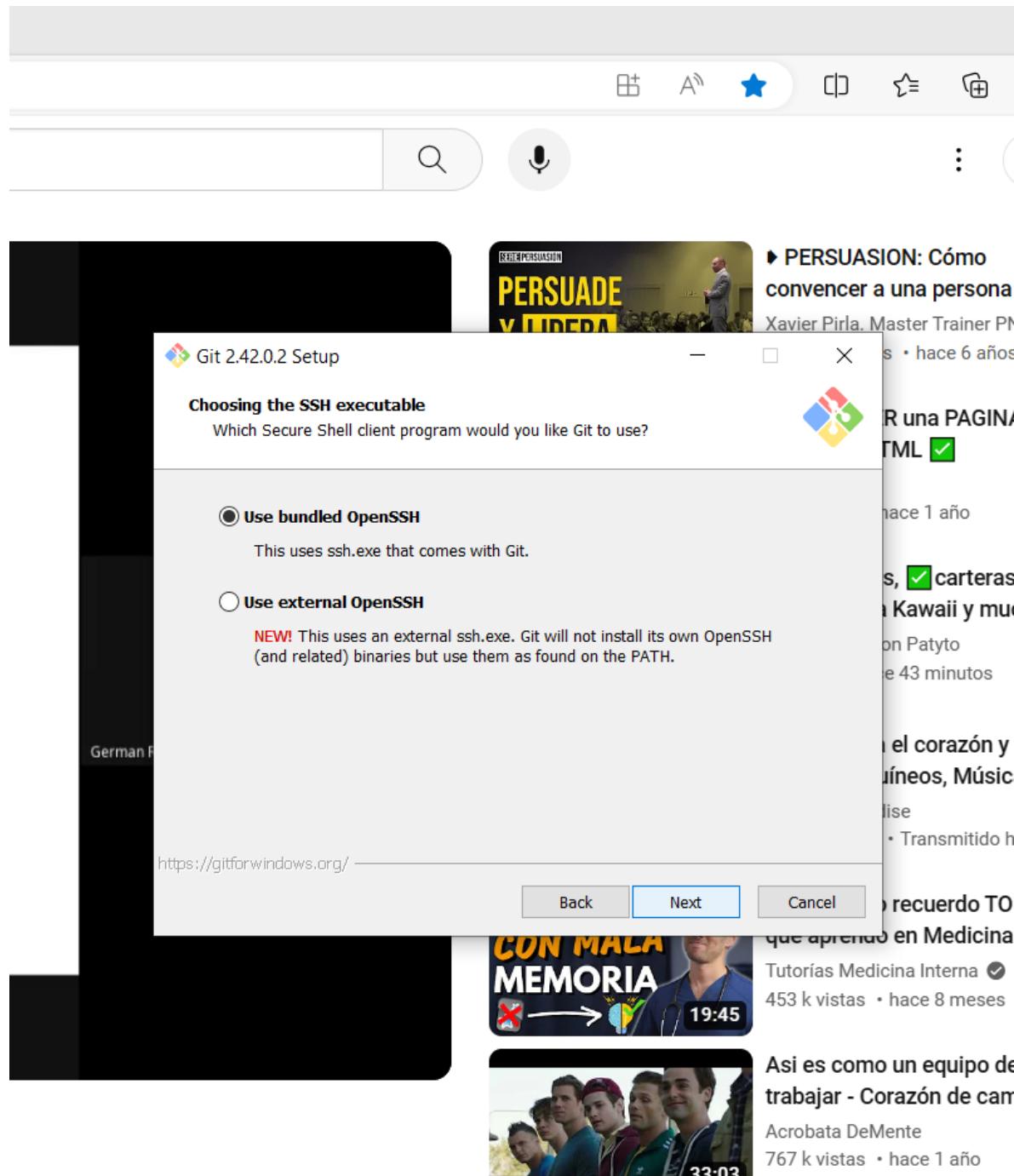
Guardar

...

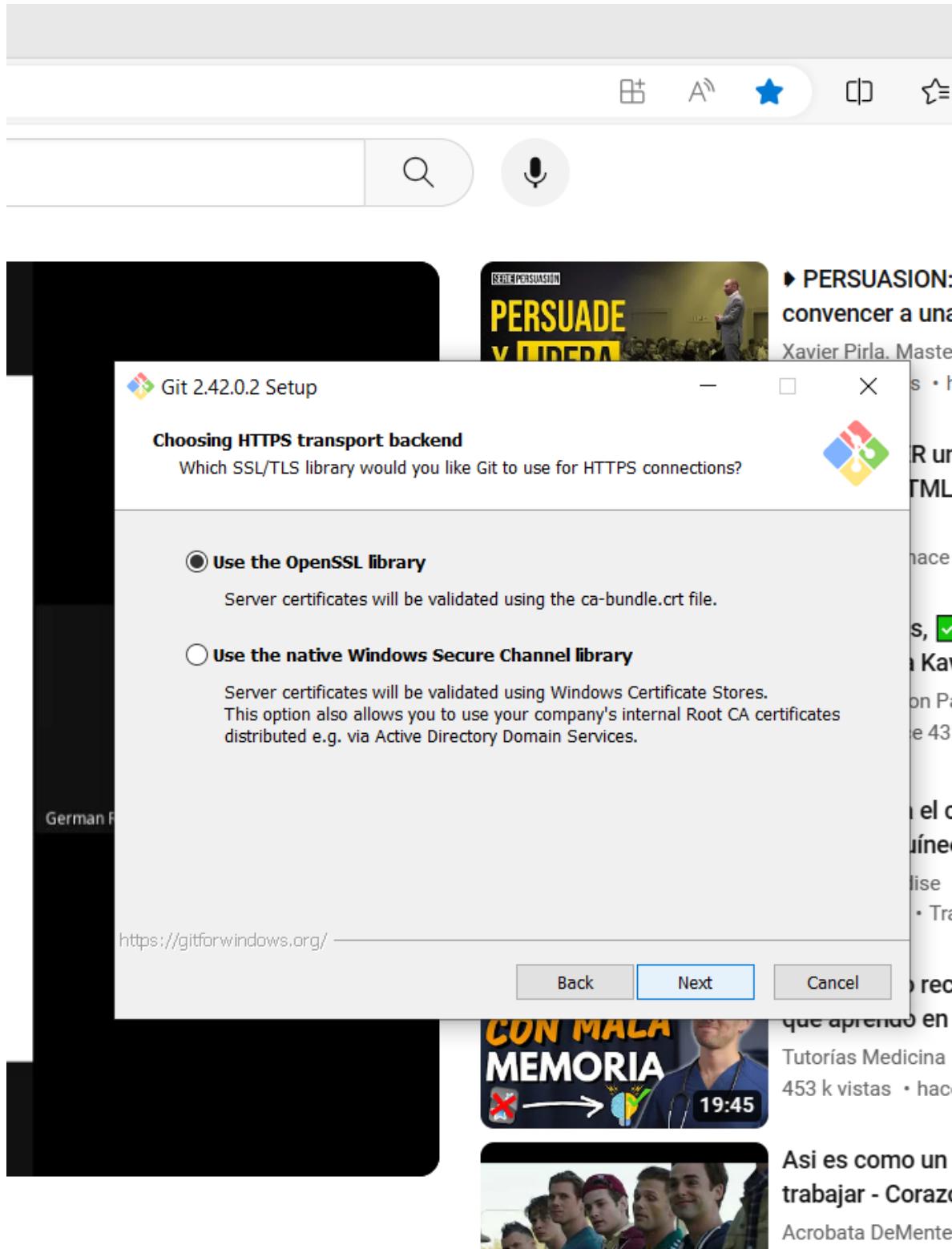
Acá de nuevo, damos clic en next.



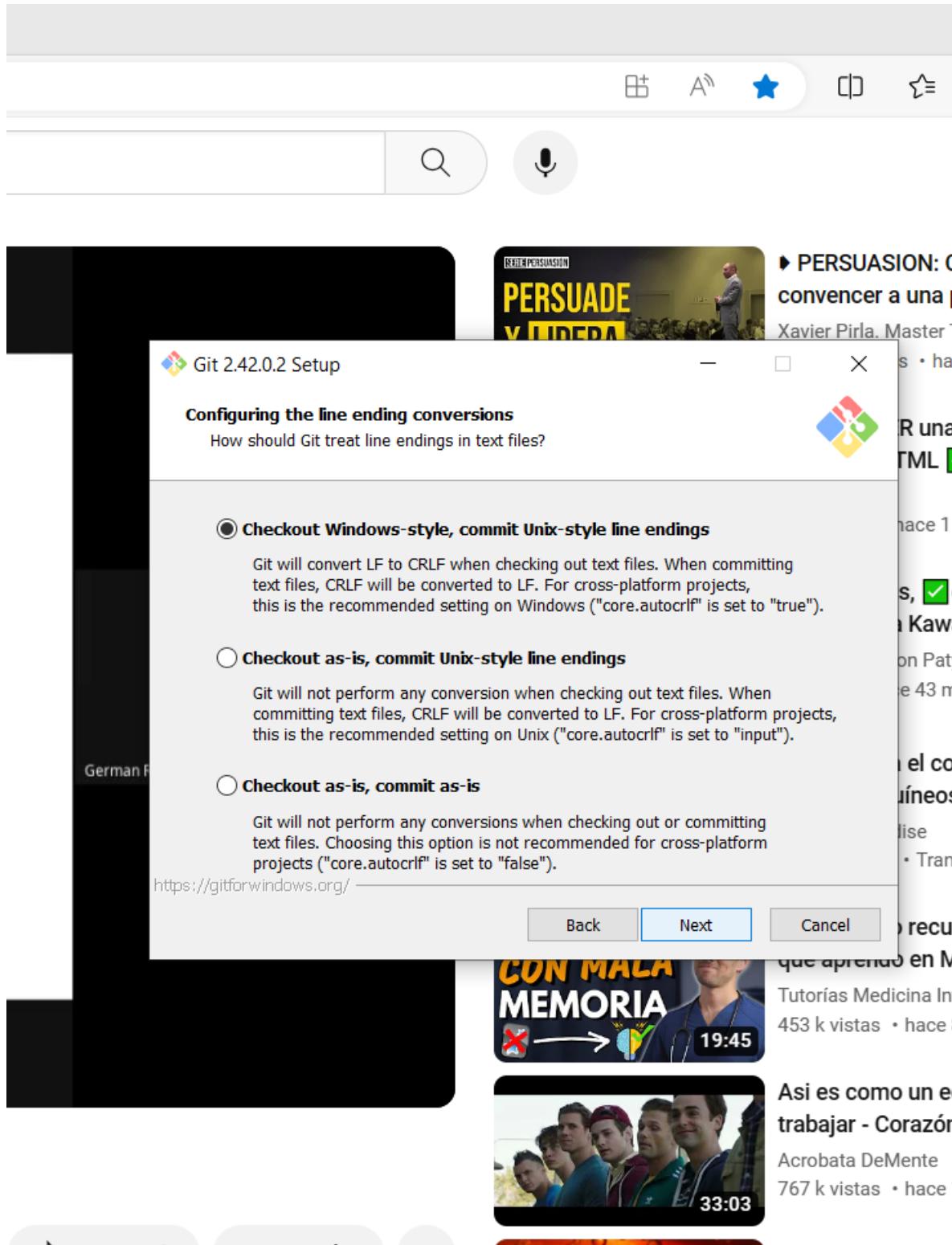
En esta pantalla, de nuevo damos clic en next.



De nuevo, damos clic en next.



Damos clic en next.



De nuevo, damos clic en next.

Git 2.42.0.2 Setup

Configuring the terminal emulator to use with Git Bash

Which terminal emulator do you want to use with your Git Bash?

Use MinTTY (the default terminal of MSYS2)

Git Bash will use MinTTY as terminal emulator, which sports a resizable window, non-rectangular selections and a Unicode font. Windows console programs (such as interactive Python) must be launched via `winpty` to work in MinTTY.

Use Windows' default console window

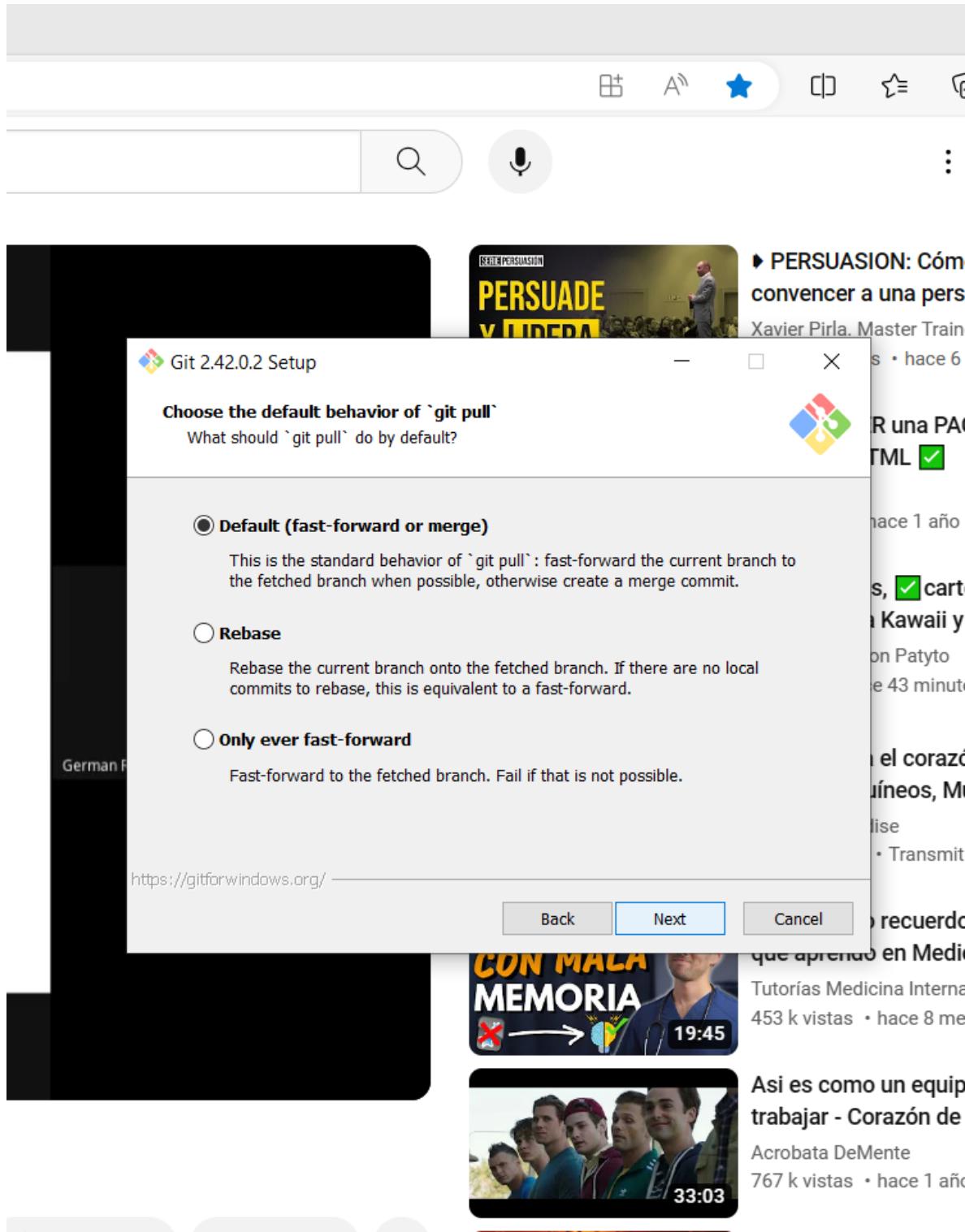
Git will use the default console window of Windows ("cmd.exe"), which works very well with Win32 console programs such as interactive Python or node.js, but has a very limited default scroll-back, needs to be configured to use a Unicode font in order to display non-ASCII characters correctly, and prior to Windows 10 its window was not freely resizable and it only allowed rectangular text selections.

Back

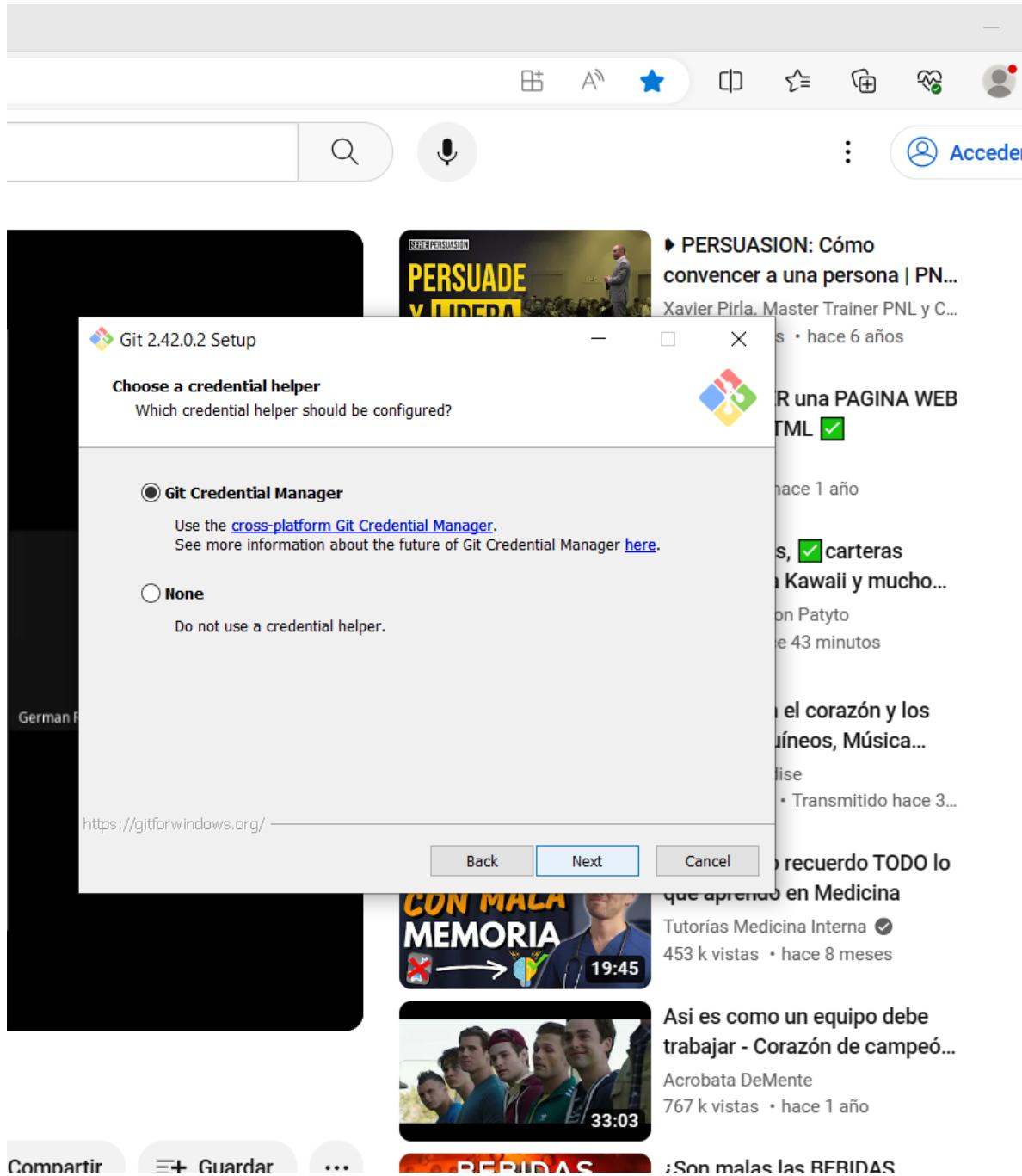
Next

Cancel

Clic en next.



De nuevo, clic en next.



Damos clic en next.

The screenshot shows a web browser window with a video player and a file setup window overlaid.

Video Player:

- Thumbnail: A man speaking at a podium with a yellow background.
- Text: "PERSUASION: Cómo convencer a una persona | F Xavier Pirla, Master Trainer PNL".
- Timestamp: hace 6 años.
- Controls: Minimize, Maximize, Close.

File Setup Window:

- Title: Git 2.42.0.2 Setup
- Section: Configuring extra options
- Text: Which features would you like to enable?
- Enable file system caching
- Description: File system data will be read in bulk and cached in memory for certain operations ("core.fscache" is set to "true"). This provides a significant performance boost.
- Enable symbolic links
- Description: Enable [symbolic links](#) (requires the SeCreateSymbolicLink permission). Please note that existing repositories are unaffected by this setting.
- Buttons: Back, Next, Cancel.

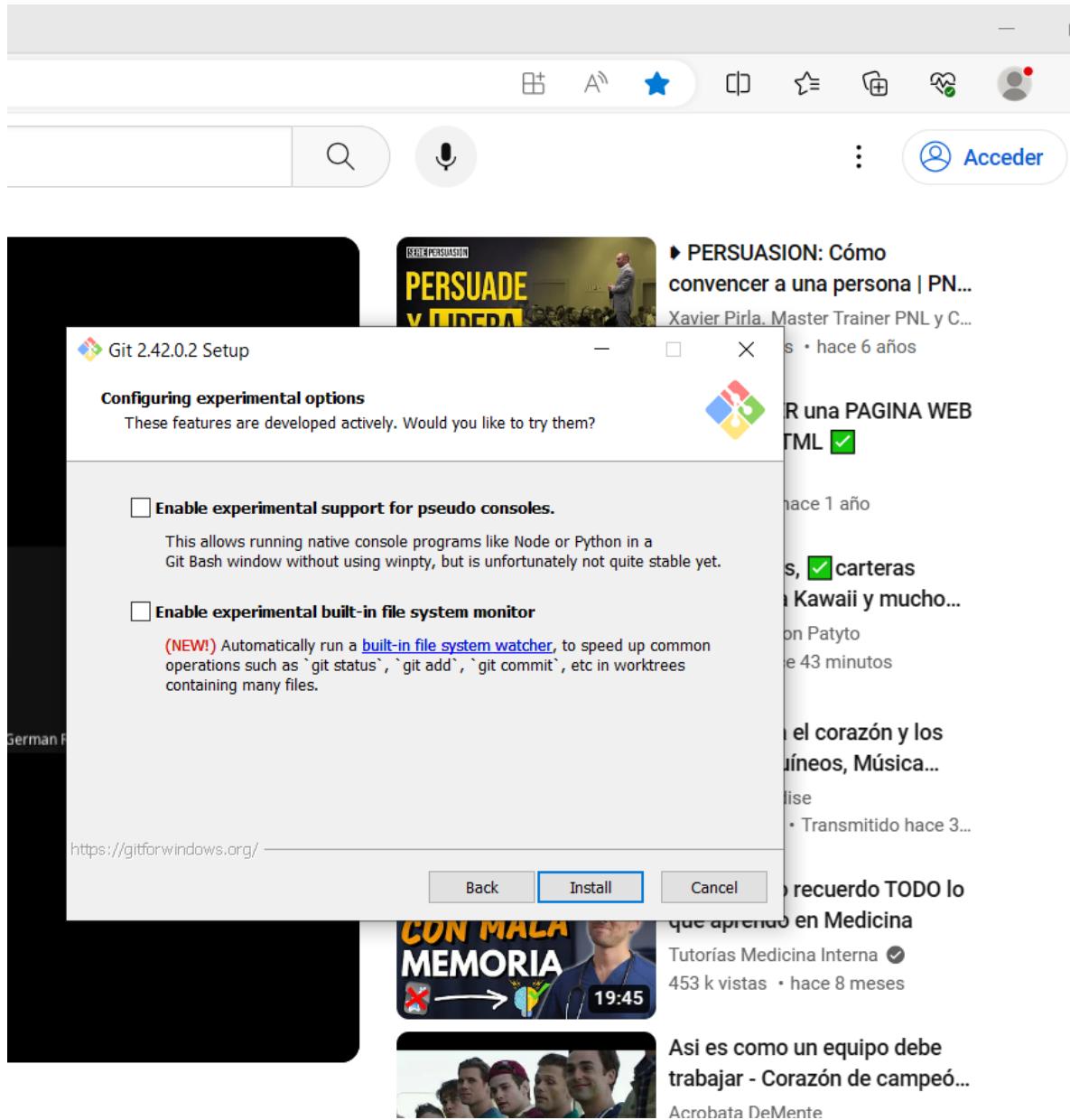
Bottom Navigation:

- Compartir
- Guardar
- ...

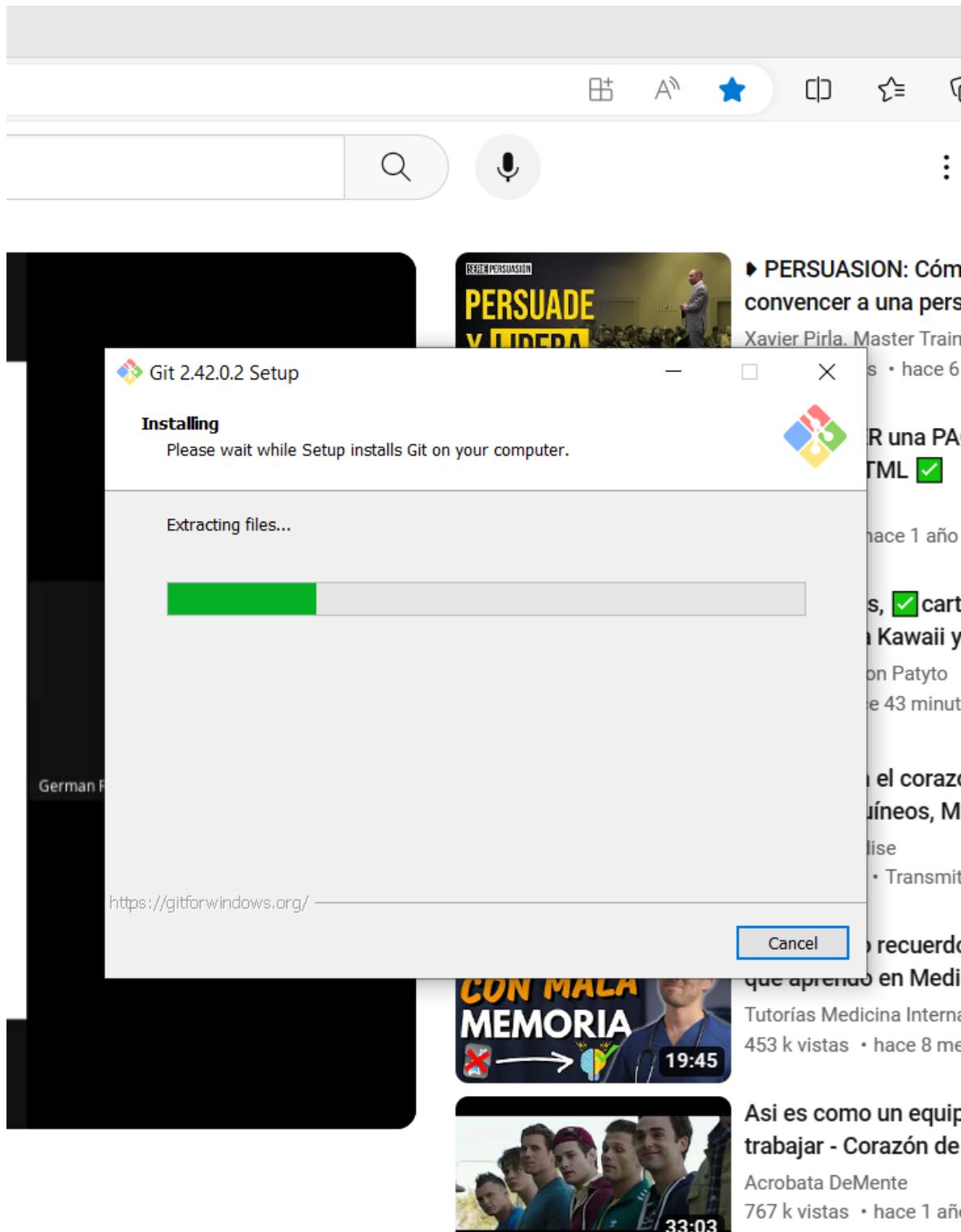
Video Thumbnails:

- CON MALA MEMORIA**
Tutorías Medicina Interna ✓
453 k vistas • hace 8 meses
- Así es como un equipo debe trabajar - Corazón de campeón**
Acrobata DeMente
767 k vistas • hace 1 año
- BEBIDAS**
¿Son malas las BEBIDAS ENERGÉTICAS? Esto dice la

Clic en next.



Nuevamente, clic en next.



Acá nos muestra cuando empieza la instalación.



Acceder

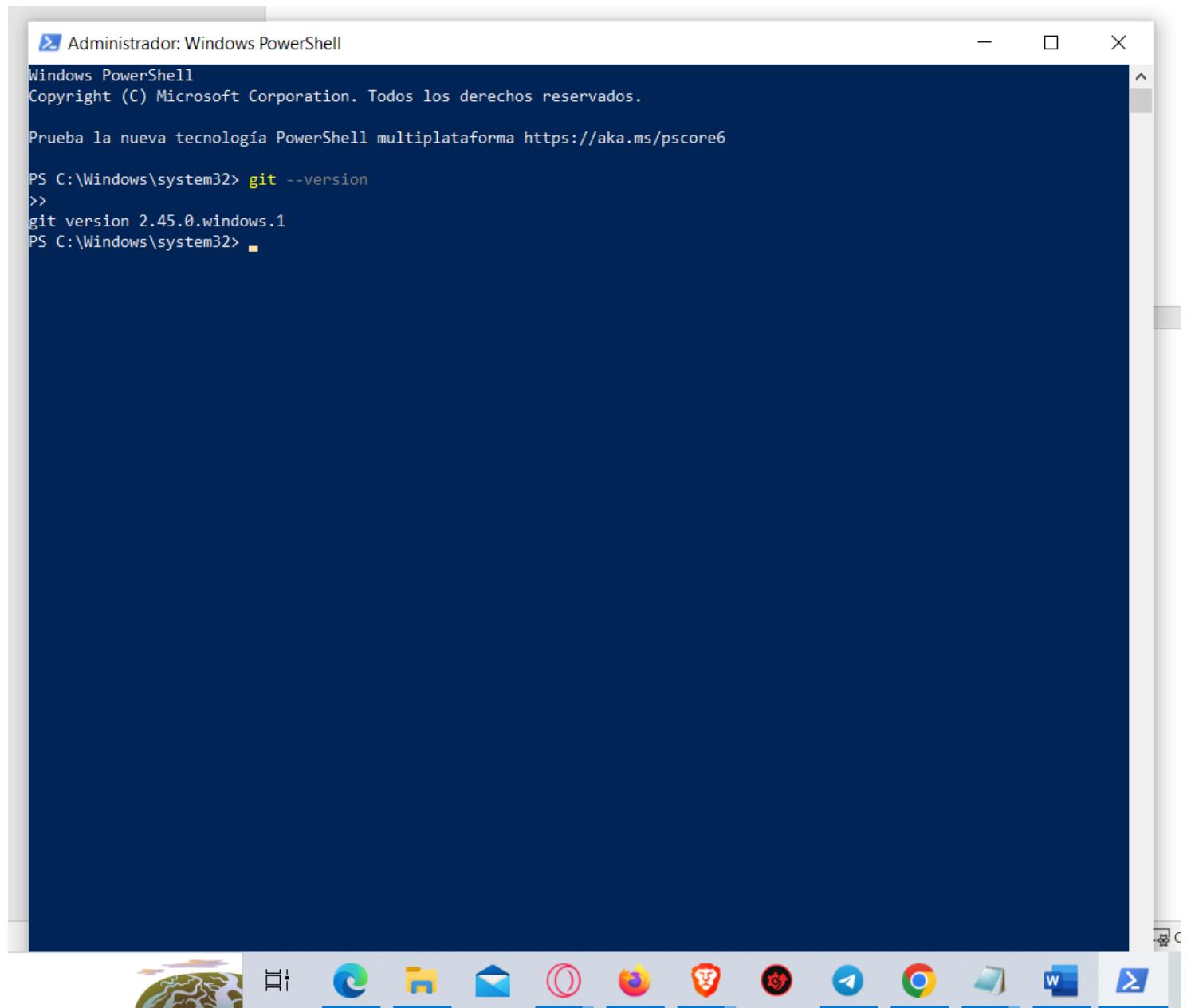
The screenshot shows a Windows desktop environment. In the foreground, a window titled "Git 2.42.0.2 Setup" is open, displaying the final step of the setup wizard: "Completing the Git Setup Wizard". The window includes a logo of four interlocking puzzle pieces in blue, red, green, and yellow. It contains text indicating that Git has been successfully installed and can be launched from the desktop. There are two checkboxes at the bottom: "Launch Git Bash" (unchecked) and "View Release Notes" (checked). A "Finish" button is visible at the bottom right of the window. In the background, a sidebar displays several video thumbnails. One thumbnail for a video titled "PERSUASION: Cómo convencer a una persona | PNL..." by Xavier Pirla is highlighted. Other visible thumbnails include "CON MALA MEMORIA" (19:45), "Así es como un equipo debe trabajar - Corazón de campeón..." (33:03), and a video about the dangers of sugary drinks. At the bottom of the screen, there are buttons for "Compartir", "Guardar", and "...".

En esta pantalla, nos muestra que finalizo con éxito la instalación y damos clic en finalizar.

Paso 4: Verificar la instalación.

```
git --version
```

Captura de pantalla:



The screenshot shows a Windows PowerShell window titled "Administrador: Windows PowerShell". The window displays the following text:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Windows\system32> git --version
>>
git version 2.45.0.windows.1
PS C:\Windows\system32> ■
```

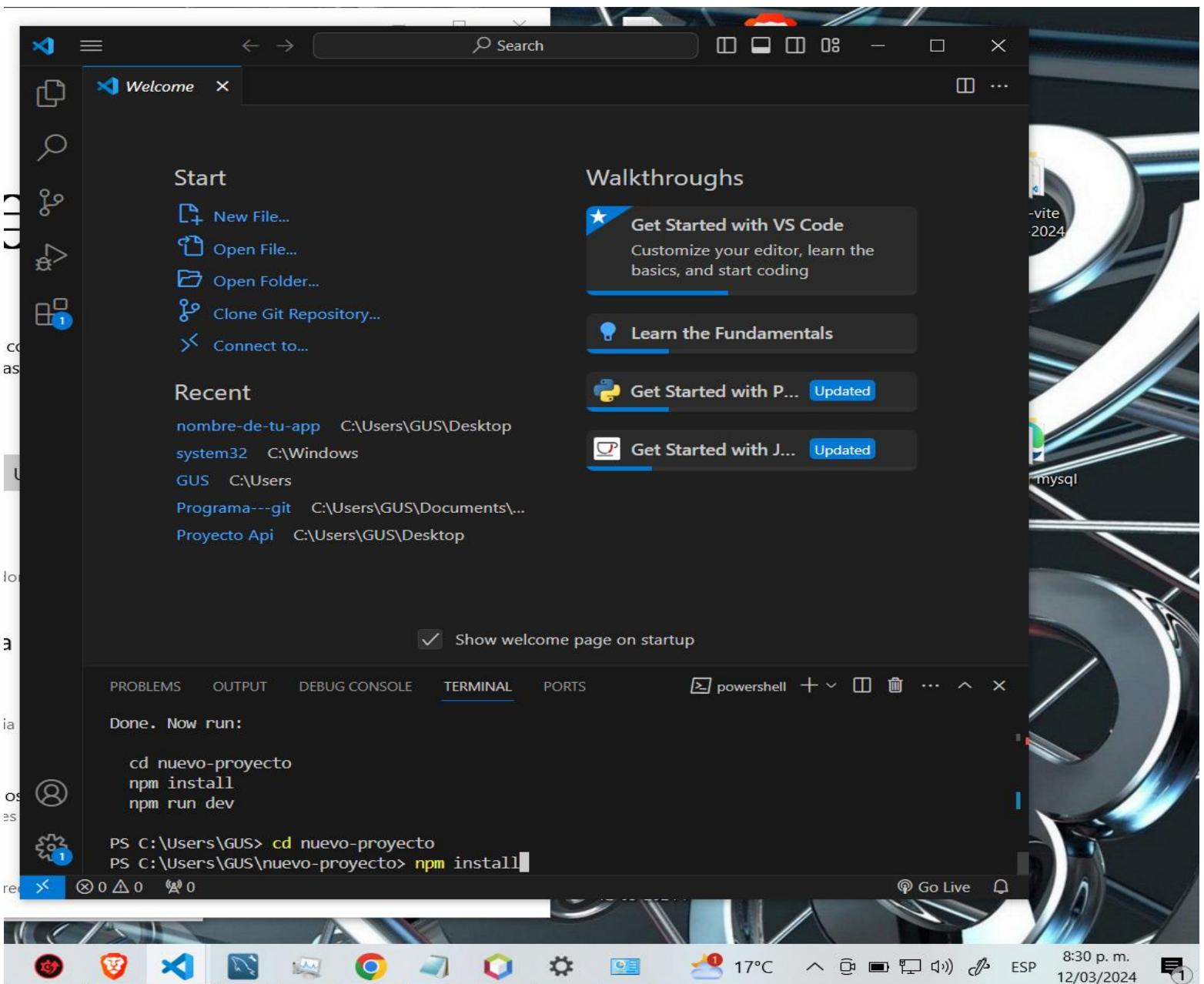
The taskbar at the bottom of the screen shows various pinned icons, including File Explorer, Edge, Mail, OneDrive, Firefox, Brave, OBS Studio, Telegram, Google Chrome, Microsoft Word, and Microsoft Excel.

4. Instalación de Dependencias

Paso 5: Instalar las dependencias del proyecto utilizando npm.

npm install

Captura de pantalla:



5. Instalación y Configuración de la Base de Datos

Paso 6: Instalar el sistema de gestión de bases de datos requerido (MySQL WorkBench.).

Descargar MySQL desde la página oficial.

Captura de pantalla:

The screenshot shows a web browser window with the URL dev.mysql.com/downloads/workbench/. The page title is "MySQL Community Downloads". A breadcrumb navigation shows "MySQL Workbench". The main content area is titled "MySQL Workbench 8.0.36". It includes a dropdown menu for "Select Operating System" set to "Microsoft Windows". Below it, a section titled "Recommended Download:" features an image of the "MySQL Installer for Windows" package, which is described as "All MySQL Products. For All Windows Platforms. In One Package." A link "Windows (x86, 32 & 64-bit), MySQL Installer MSI" and a button "Go to Download Page >" are present. At the bottom, there's a "Other Downloads:" section with several icons for different MySQL products. The browser's address bar and various status icons are visible at the top and bottom of the screen.

← → ⌂ dev.mysql.com/downloads/file/?id=525959

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MySQL Community Downloads

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- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

[Login »](#)

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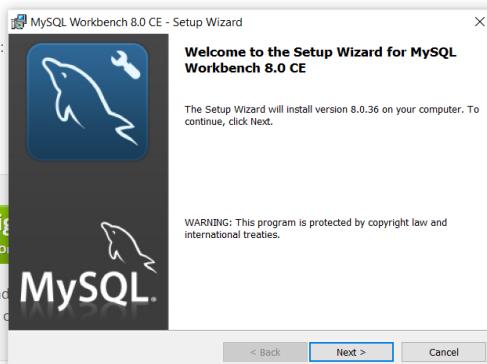
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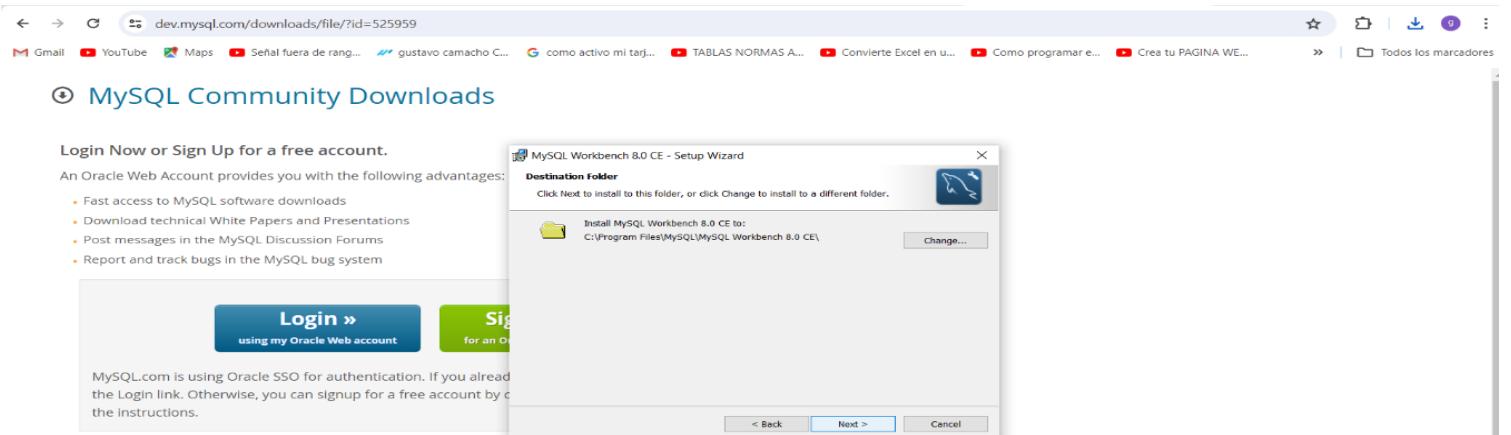
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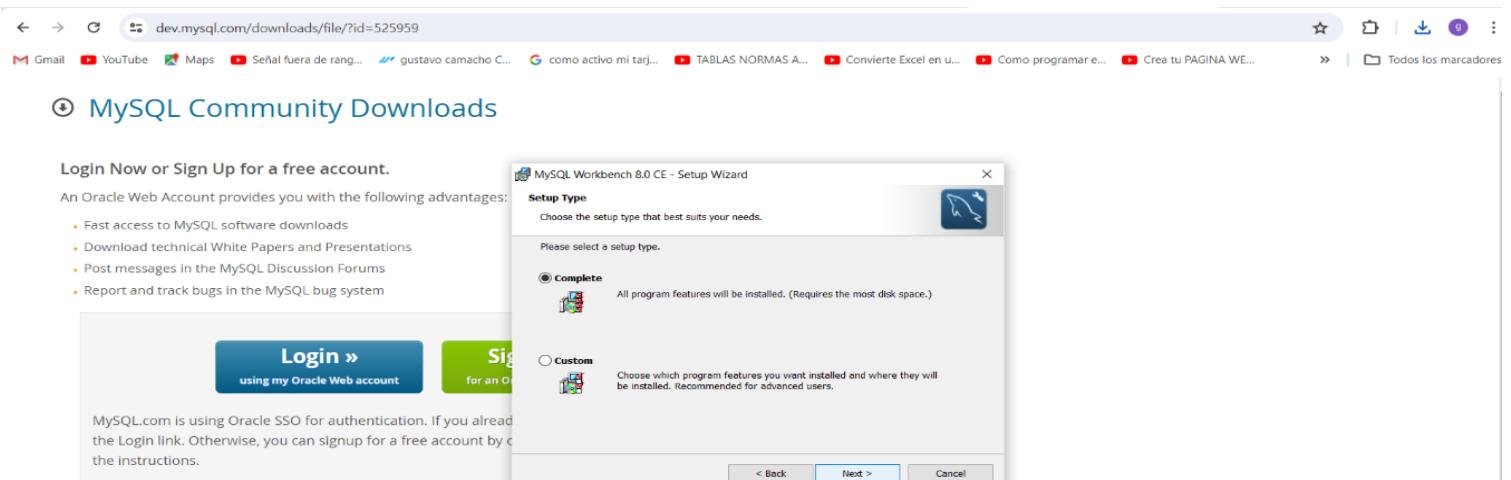
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MySQL Workbench 8.0 CE - Setup Wizard
Ready to Install the Program
The wizard is ready to begin installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Current Settings:
Setup Type: Complete
Destination Folder: C:\Program Files\MySQL\MySQL Workbench 8.0 CE

< Back **Install** Cancel

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MySQL Workbench 8.0 CE - Setup Wizard
Installing MySQL Workbench 8.0 CE
The program features you selected are being installed.
Please wait while the Setup Wizard installs MySQL Workbench 8.0 CE. This may take several minutes.
Status: Removing shortcuts

< Back Next > Cancel

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MySQL Workbench 8.0 CE - Setup Wizard

Wizard Completed

Setup has finished installing MySQL Workbench 8.0 CE.

Launch MySQL Workbench now < Back **Finish** Cancel

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Damos, click en finalizar.

MySQL Workbench

File Edit View Database Tools Scripting Help

Welcome to MySQL Workbench

MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.

Browse Documentation > Read the Blog > Discuss on the Forums >

MySQL Connections + ⚙

test3	nueva conexion
root localhost:3306	root 127.0.0.1:3306

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Y nos abre, la aplicación.

6-Configurar la base de datos.

Paso 7: Crear una nueva base de datos y un usuario con los permisos necesarios.

```
CREATE DATABASE mantenimiento_reparacion;  
CREATE USER 'usuario'@'localhost' IDENTIFIED BY 'contraseña';  
GRANT ALL PRIVILEGES ON mantenimiento_reparacion. TO 'usuario'@'localhost';  
FLUSH PRIVILEGES;
```

Paso 8: Importar el esquema de la base de datos.

```
mysql -u usuario -p mantenimiento_reparacion < schema.sql
```

7. Configuración del Entorno

Paso 9: Configurar variables de entorno.

Crear un archivo. env en la raíz del proyecto y agregar las variables necesarias (ejemplo: configuración de la base de datos).

Ejemplo de. env:

```
DB_HOST=localhost  
DB_USER=usuario  
DB_PASS=contraseña  
DB_NAME=mantenimiento_reparacion
```

8.Ejecución de la Aplicación

Paso 10: Iniciar la aplicación.

```
npm start
```

Paso 11: Acceder a la aplicación desde el navegador.

Abrir el navegador y dirigirse a <http://localhost:3000> (o el puerto configurado en la aplicación).

4-CONCLUSIÓN

Este documento proporciona una guía integral para la instalación y despliegue de una aplicación web de mantenimiento y reparación de equipos de cómputo en un entorno local.

Siguiendo estos pasos detallados, los usuarios pueden asegurarse de que la plataforma de desarrollo y todas las dependencias necesarias estén correctamente configuradas y operativas.

La inclusión de capturas de pantalla y explicaciones detalladas facilita el proceso de instalación, permitiendo que usuarios de todos los niveles de experiencia técnica puedan seguir la guía con éxito.

Al final del proceso, los usuarios tendrán una aplicación plenamente funcional, capaz de gestionar eficientemente las tareas de mantenimiento y reparación de equipos de cómputo, contribuyendo así a mejorar la operatividad y eficiencia de sus operaciones técnicas.

Esta guía no solo asegura una instalación exitosa, sino que también proporciona una base sólida para futuras actualizaciones y mantenimiento del sistema, permitiendo que la aplicación evolucione junto con las necesidades de la organización.

Con la correcta implementación de esta aplicación, se espera una mejora significativa en la gestión de equipos y una reducción en los tiempos de inactividad, contribuyendo así a un mejor servicio y satisfacción del cliente.