MIFOS PLATFORM 23.12.31 RELEASE - MARIADB

Docker Compose on Linux Ubuntu 22.04 Installation Instructions

Version 1.0

13-february-2024

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1. Objective

Provide clear instructions in order to Install the Docker Compose on a Linux Ubuntu 22.04 Operating System, these instructions should ideally be executed by users with basic technical skills.

2. Target Audience

Username	User description
General Public	User should have basic knowledge about Linux commands.

3. System requirements

Hardware:

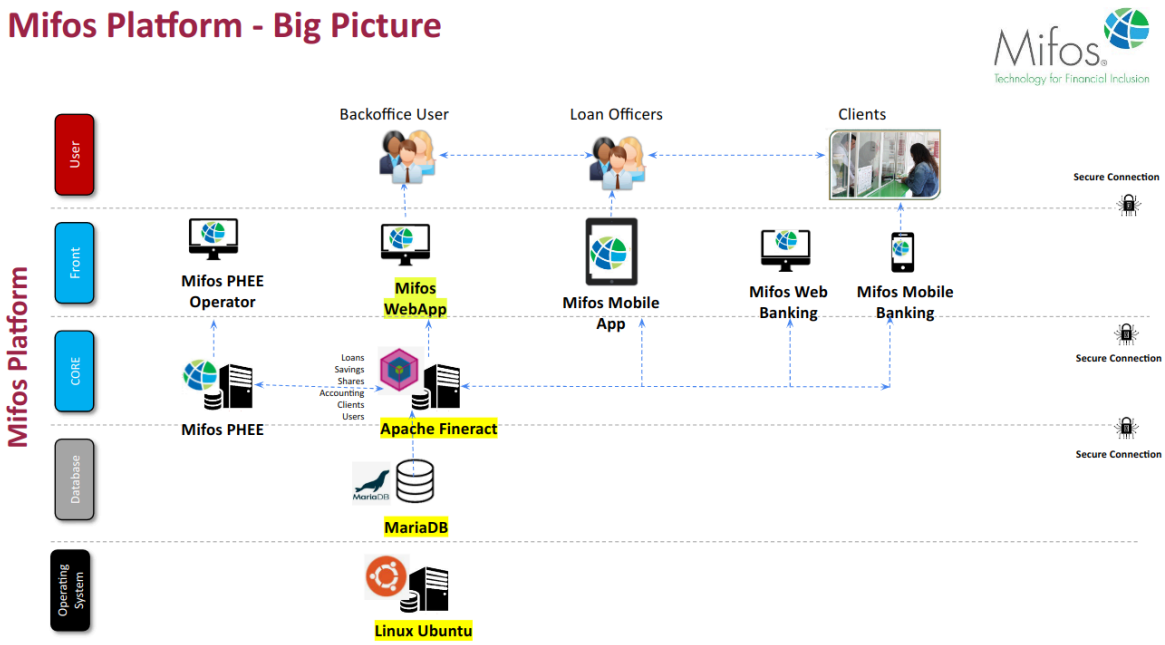
- 8Gb RAM
- 2 vCPUs (Intel x86 64bits or AMD x86 64bits)
- 32Gb Storage

Software:

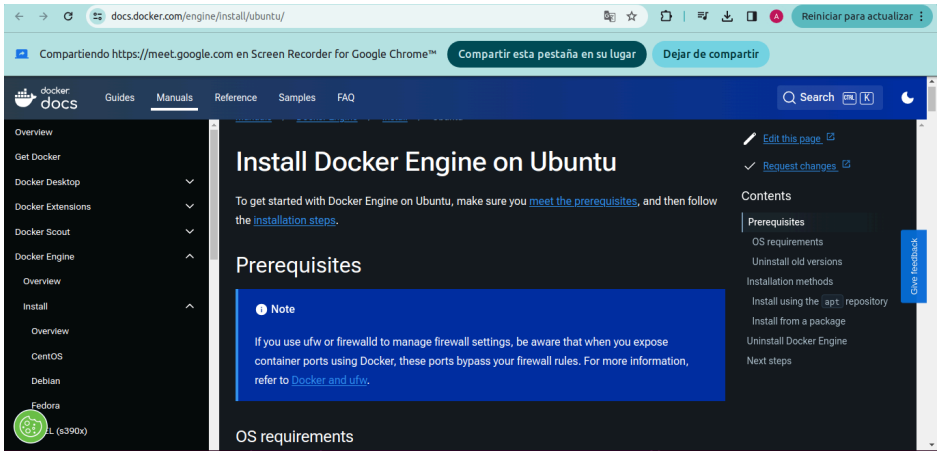
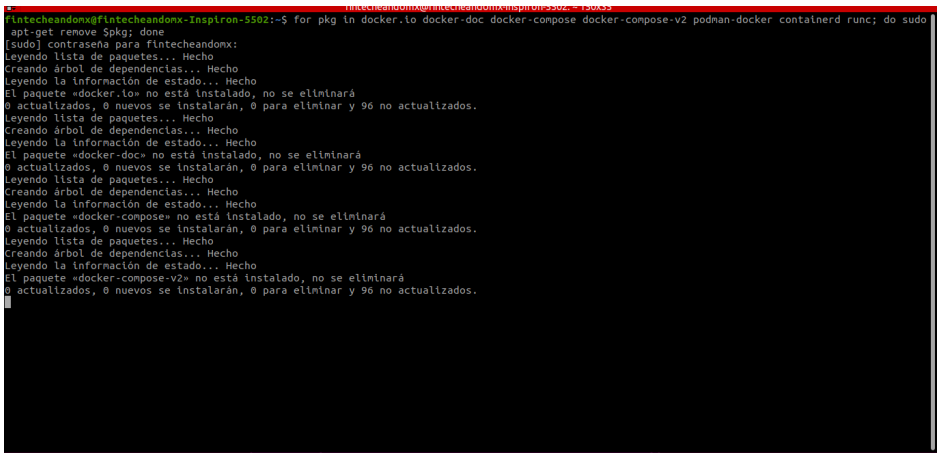
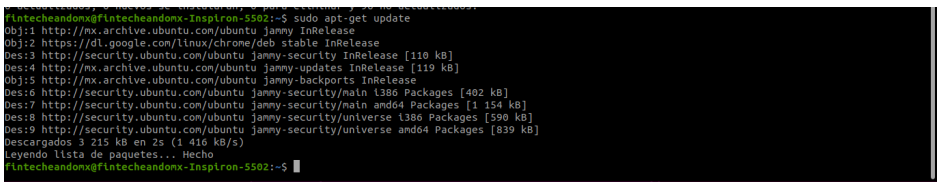
- Linux Ubuntu 22.04 LTS 64 bits Operating System
- Docker 25.03

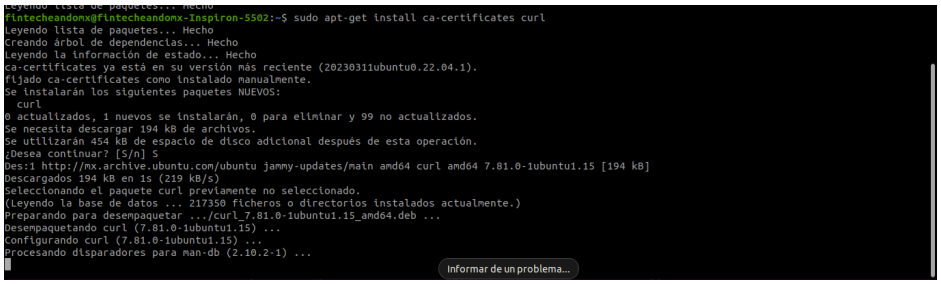
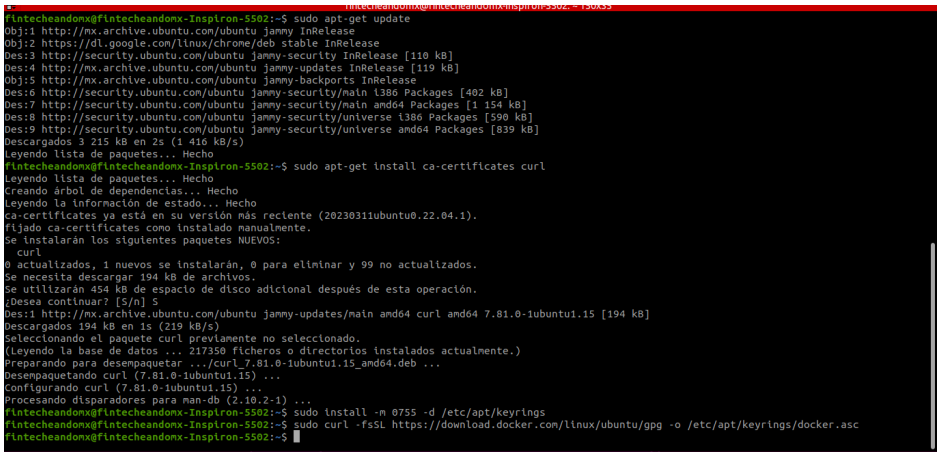
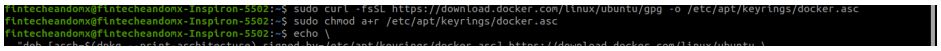
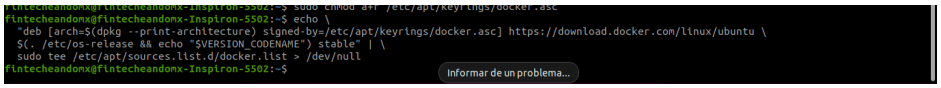
4. Deployment Architecture

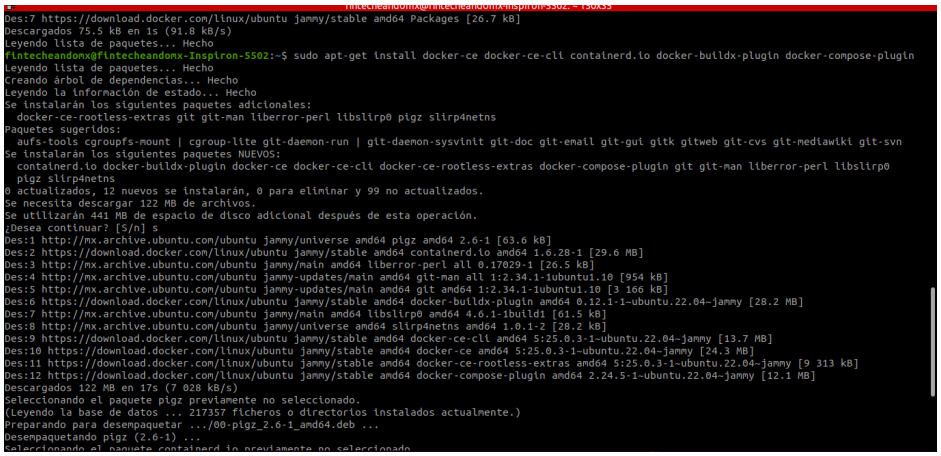
This is a graphical representation of the components that will be installed, they are highlighted in yellow, and the others put in the graphic as a reference and they can be used for extending the functionality.

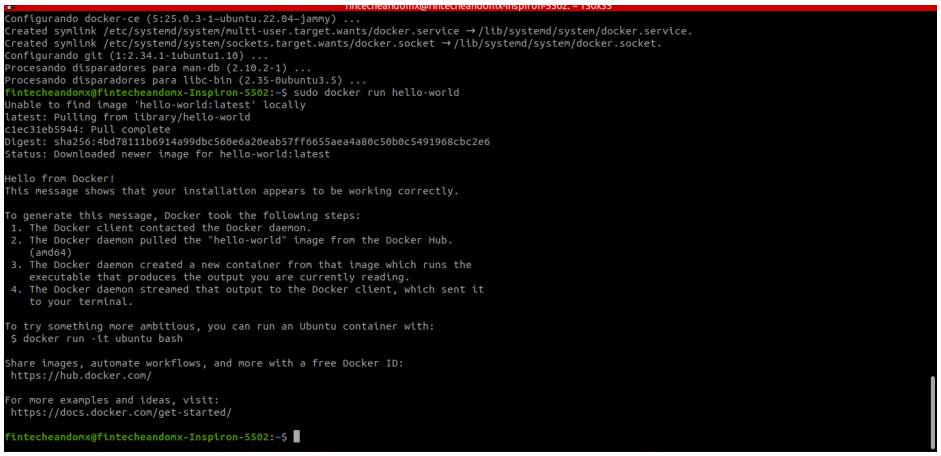
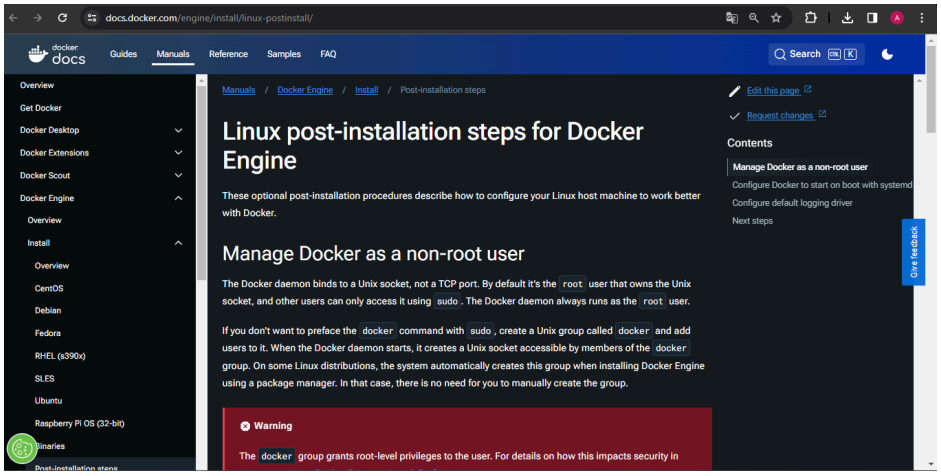


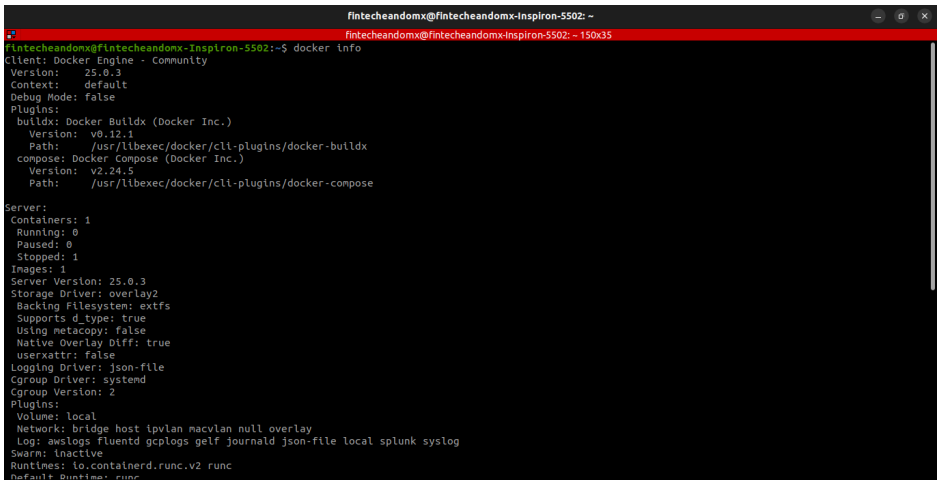
5. Instructions

a. Install Docker	
Go to Docker Download Web Page and select the version for Ubuntu.	https://docs.docker.com/engine/install/ubuntu/
	
Run the following command to uninstall all conflicting packages	
We update the package list sudo apt-get update	

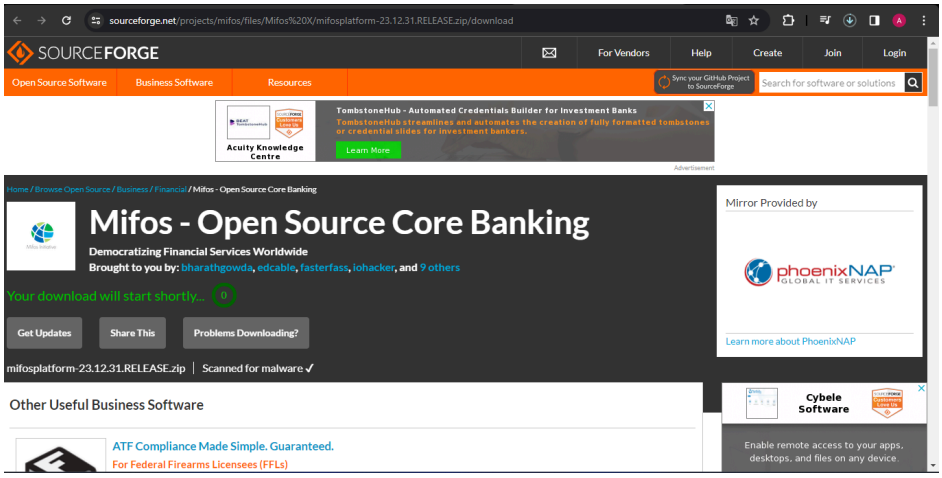
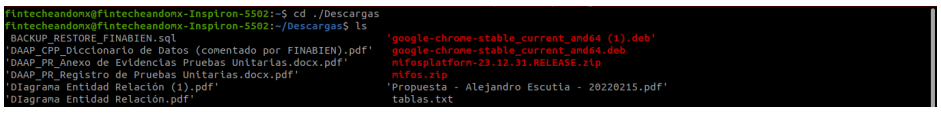
We install the certificates sudo apt-get install ca-certificates curl	
We enter the keys. sudo install -m 0755 -d /etc/apt/keyrings sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc	
Entering the command grants read, write, and execute permissions to the owner, and read and execute permissions to the group and others. sudo chmod a+r /etc/apt/keyrings/docker.asc	
Add the repository to Apt sources echo \ "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]	

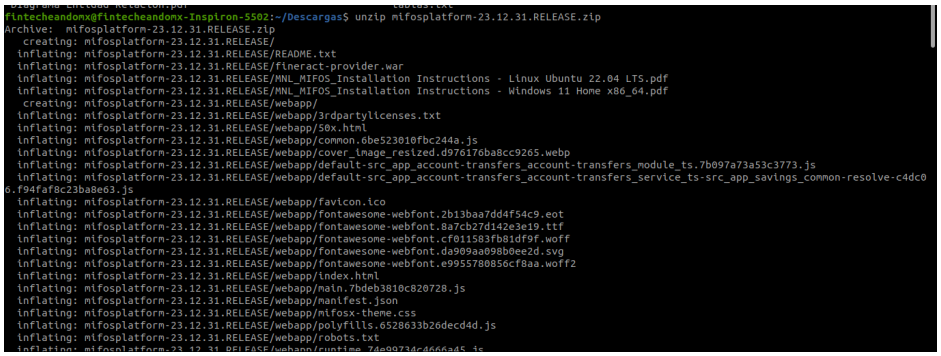
https://download.docker.com/linux/ubuntu \ $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \ sudo tee /etc/apt/sources.list.d/docker.list > /dev/null	
Update the package list again	
Install the Docker packages. To install the latest version, run: sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin	

Verify that the Docker Engine installation is successful by running the hello-world image. sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin	
Linux post-installation steps for Docker Engine	https://docs.docker.com/engine/install/linux-postinstall/
	
Create the docker group.	
Add your user to the docker group.	

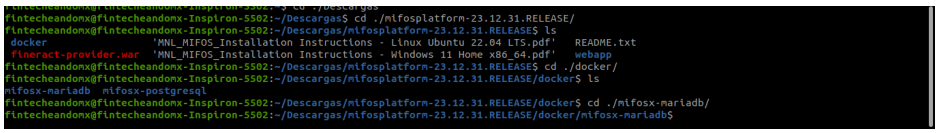
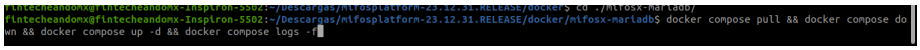
Validate that docker is installed. **docker info** *Note: if the docker information is not displayed, log out and validate again*	

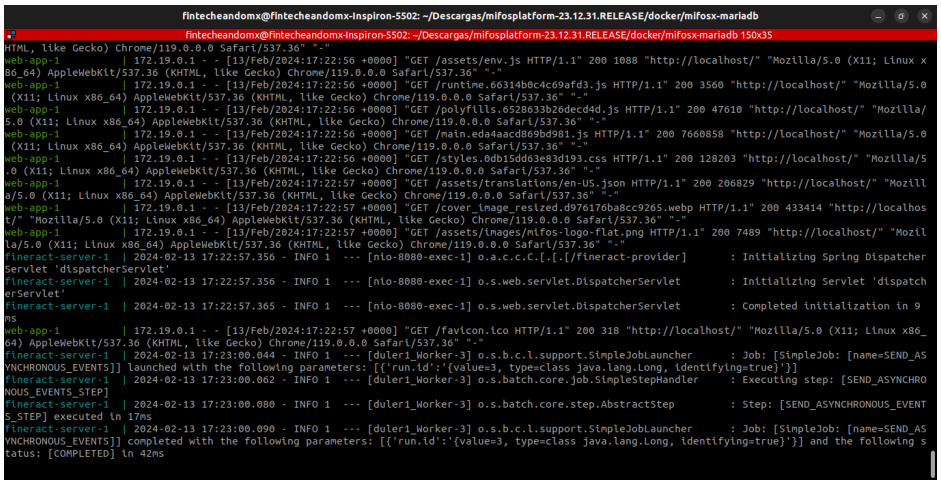
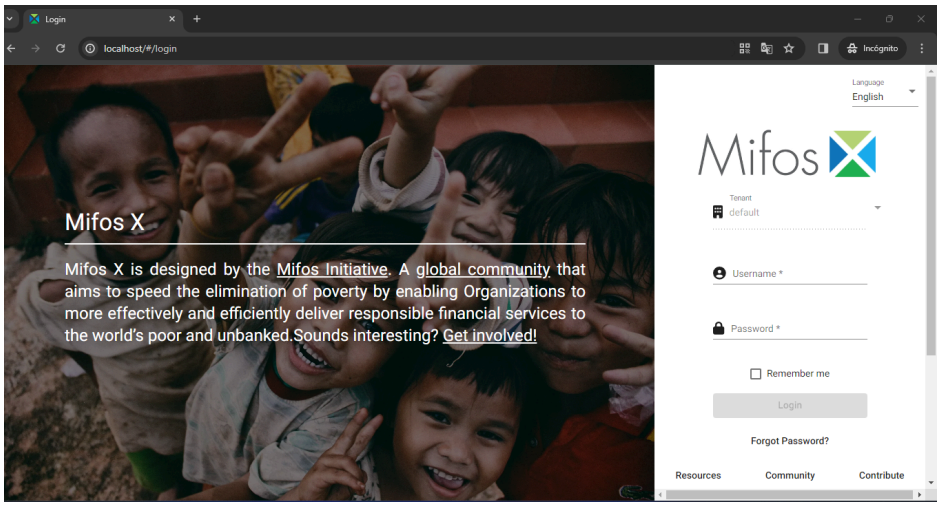
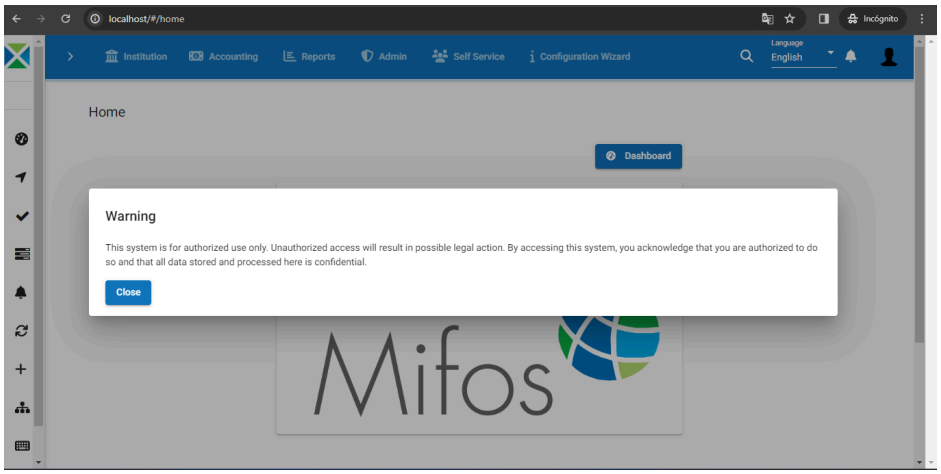
b. Download zip file from SourceForge https://sourceforge.net/projects/mifos/files/Mifos%20X/mifosplatform-23.12.31.RELEASE.zip/download

When you enter the download link, the file will automatically start downloading	
We locate the downloaded zip file	
Enter the path where the Zip file is located	

We unzip the downloaded zip file. **unzip mifosplatform-23.12.31.RELEASE.zip**	

c. We start the configuration to start the containers in docker.

Enter the mariadb folder **cd ./mifosplatform-23.12.31.RELEASE/docker/mifosx-mariadb**	
once in the path and in the folder, we raise the docker compose containers with the command, **docker compose pull && docker compose down && docker compose up -d && docker compose logs -f**	

Validate that containers are lifted correctly:	
Validate that Mifos X Release 23.12 is up and running entering the following url http://localhost in a Web Browser	
Sign in with the default credentials: **User: mifos** **Password: password**	

6. Document versions

Version	Date	Subject	Author	Reviewer
1.0	13th February 2024	Document creation	Alejandro Escutia	