





# MIFOS PLATFORM 23.12.31 RELEASE - MARIADB

## Docker Compose on Windows 11 Home x86\_64 Installation Instructions



Version 1.0

12-february-2024

	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	Windows 11 Home x86_64	

Index

1. Objective	3
2. Target Audience	3
3. System requirements	3
4. Deployment Architecture	4
<b>5. Instructions</b>	<b>5</b>
6. Document versions	31

	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	Windows 11 Home x86_64	

## 1. Objective

Provide clear instructions in order to Install the Docker Compose on a Windows 11 Home x86\_64 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 Software Installation on Windows.

## 3. System requirements

<b>Hardware:</b> <ul style="list-style-type: none"> <li>• 8Gb RAM</li> <li>• 2 vCPUs (Intel x86 64bits or AMD x86 64bits)</li> <li>• 32Gb Storage</li> </ul>
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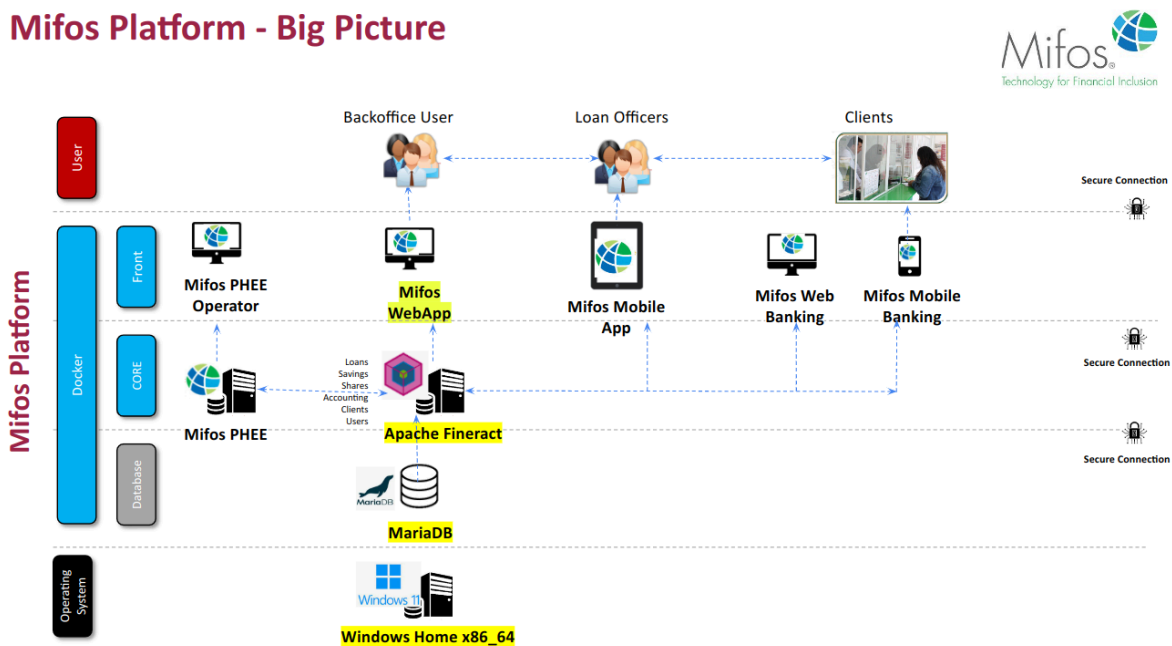
<b>Software:</b> <ul style="list-style-type: none"> <li>• Windows 11 Home x86_64 Operating System</li> <li>• Docker 25.03</li> <li>• Powershell</li> </ul>
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	Windows 11 Home x86_64	

## 4. Deployment Architecture


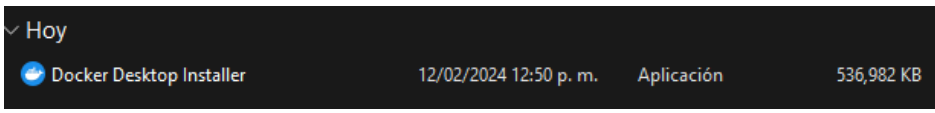
This is a graphical representation of the components that will be installed, they are highlighted in yellow, and the others put in the graphic as a reference and they can be used for extending the functionality.



### Mifos Platform - Big Picture

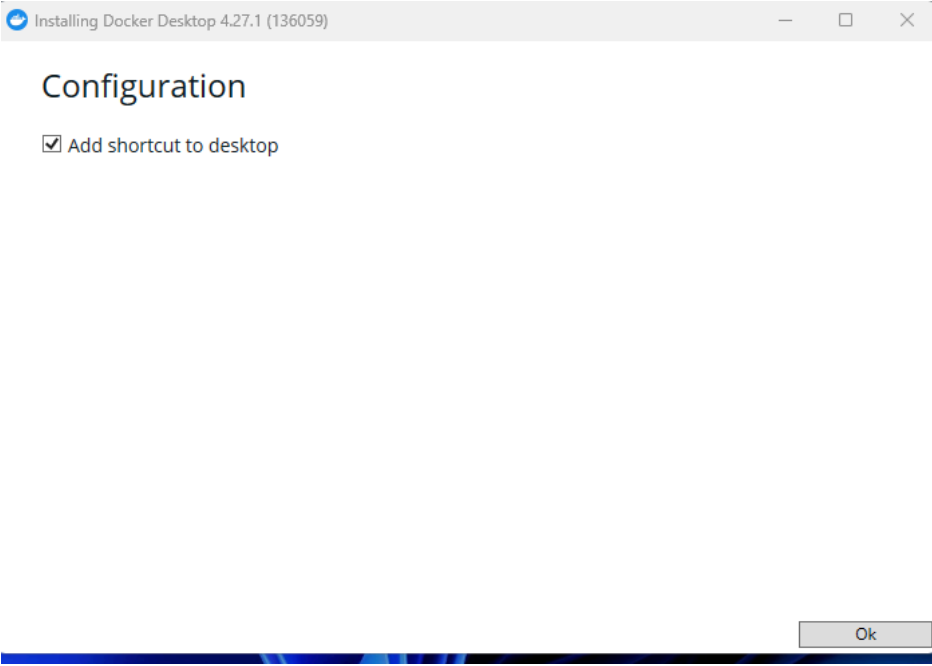
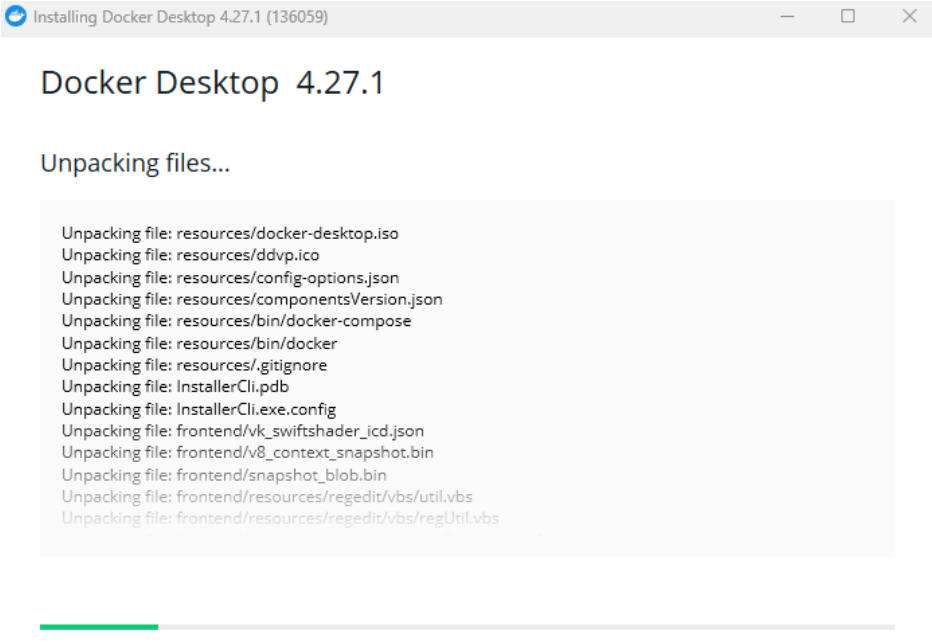




	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	Windows 11 Home x86_64	

### 5. Instructions

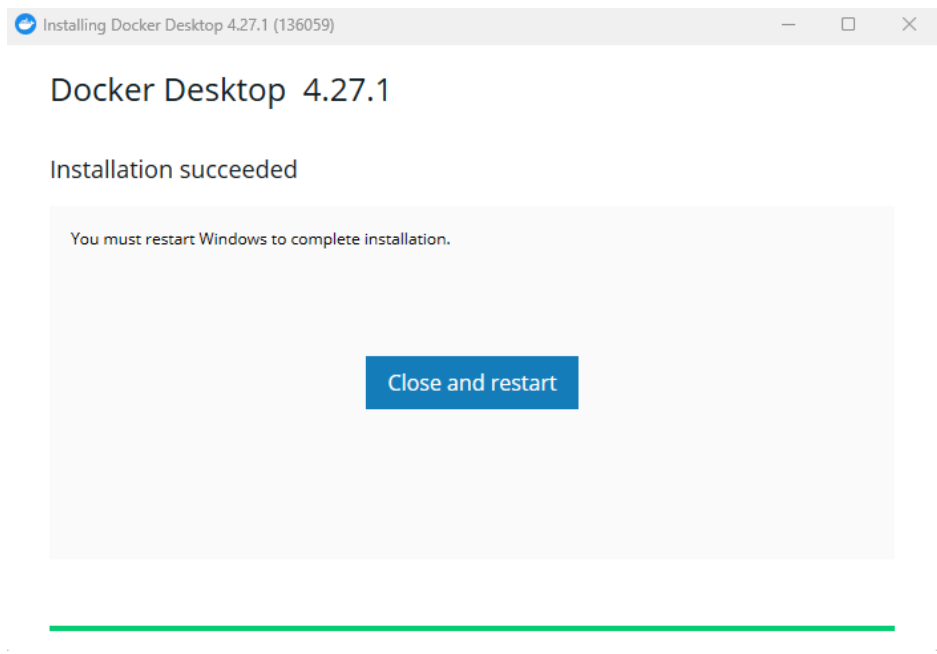
a. Install Docker desktop	
Go to Docker Download Web Page and select the version for Windows.	<a href="https://docs.docker.com/desktop/install/windows-install/">https://docs.docker.com/desktop/install/windows-install/</a>
Wait for the download file.	
Double click on the file that was downloaded	

	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	<p><b>Windows 11 Home x86_64</b></p>	

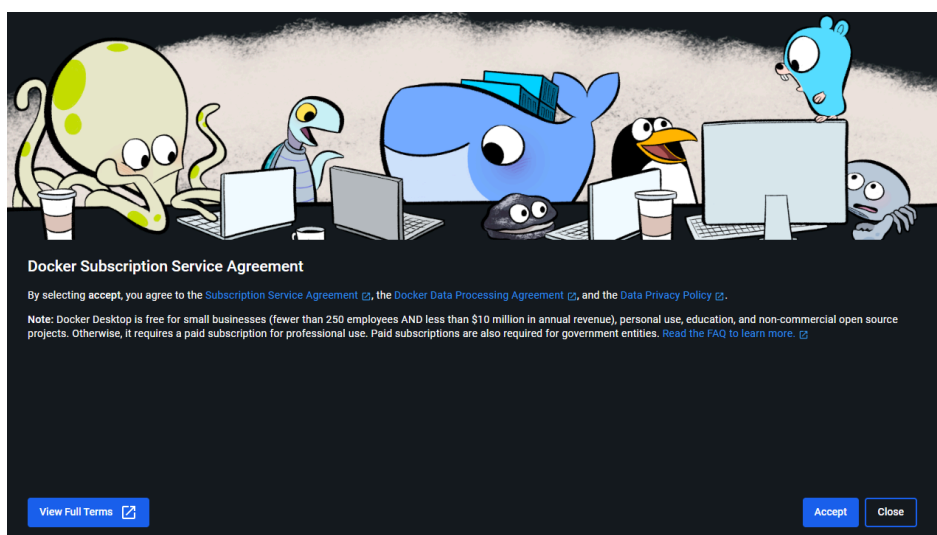
<p>The Installation Wizard will help us to have a graphical UI for the Docker Installation process. Click on the “Ok” button.</p>	
<p>The wizard will unpack the files</p>	



	<b>INSTALLATION INSTRUCTIONS</b>	 <b>FINTECHeando</b>
	<b>Windows 11 Home x86_64</b>	

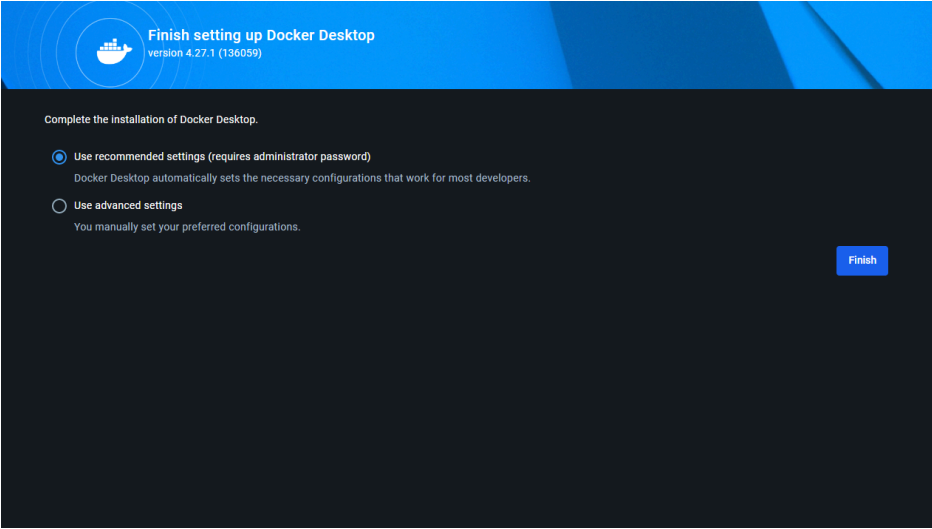
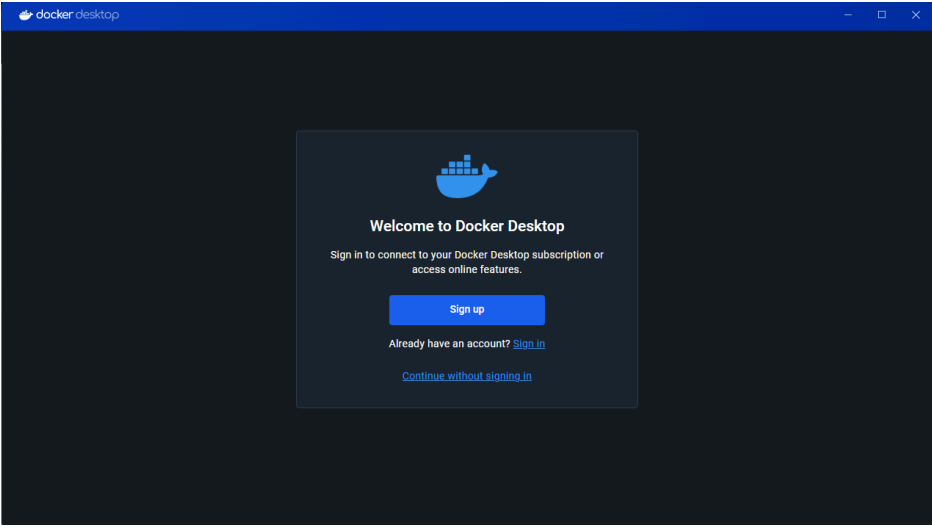
Once the process is completed click on the “Close and restart” button and the computer will restart.





Once the computer has restarted, the docker subscription screen will open, click the "Accept" button

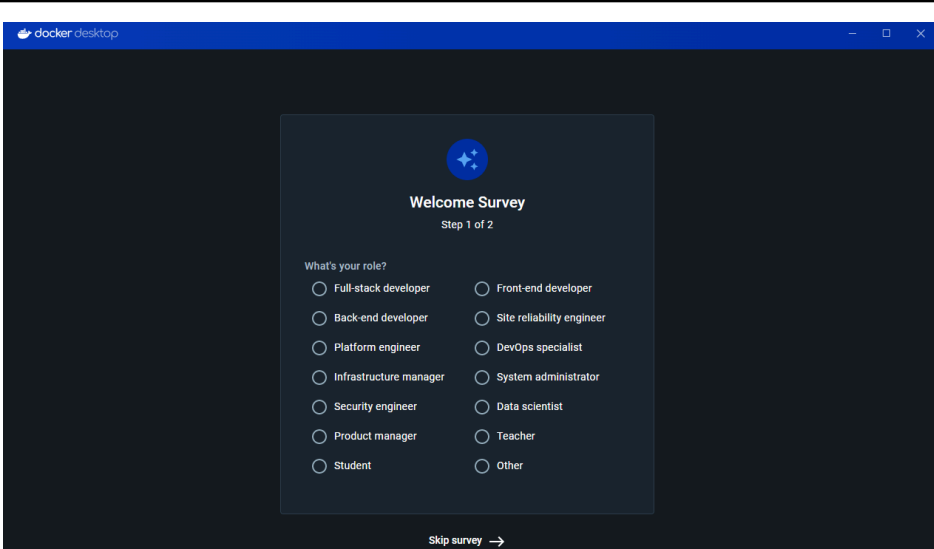
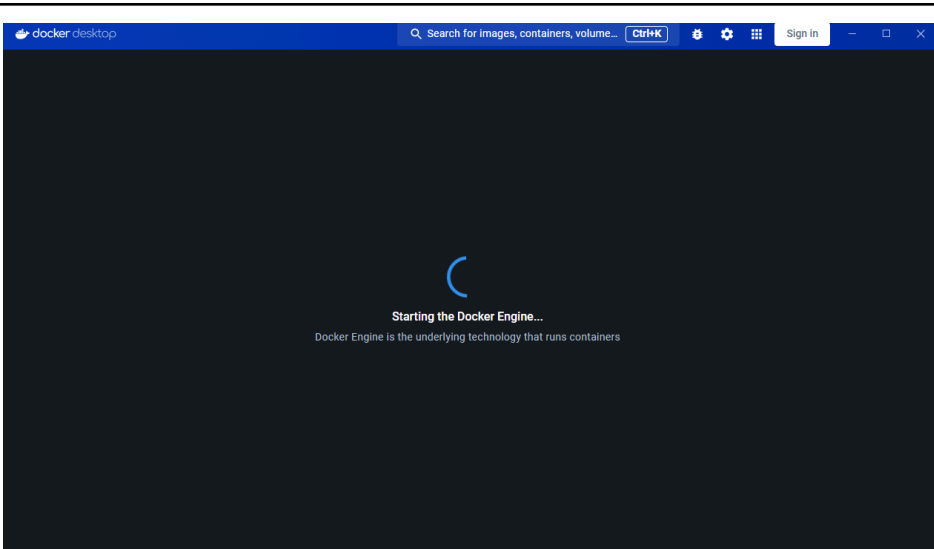




	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	<p><b>Windows 11 Home x86_64</b></p>	

<p>Select the recommended settings and click the "Finish" button</p>	
<p>click "Continue without signing in"</p>	

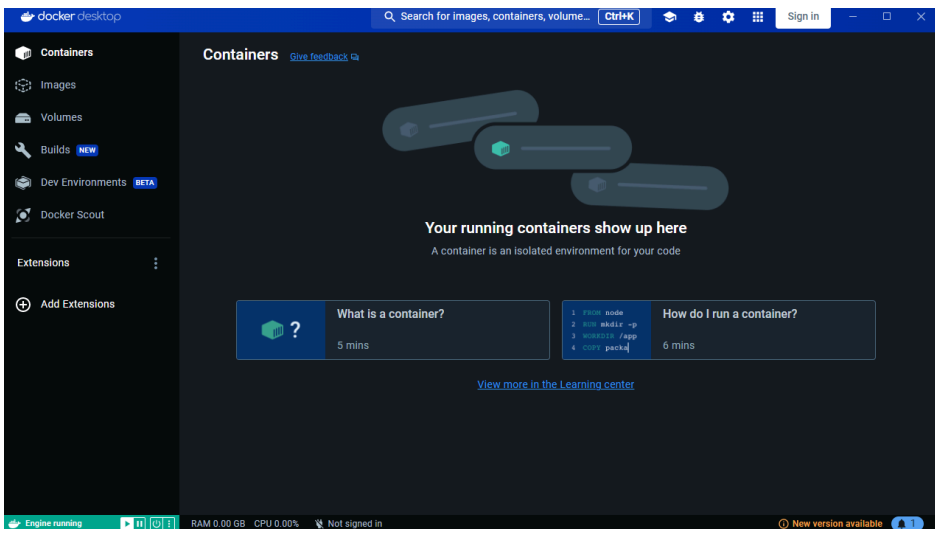


	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	<b>Windows 11 Home x86_64</b>	

Click the “Skip survey” button.	
The Docker Engine will start	

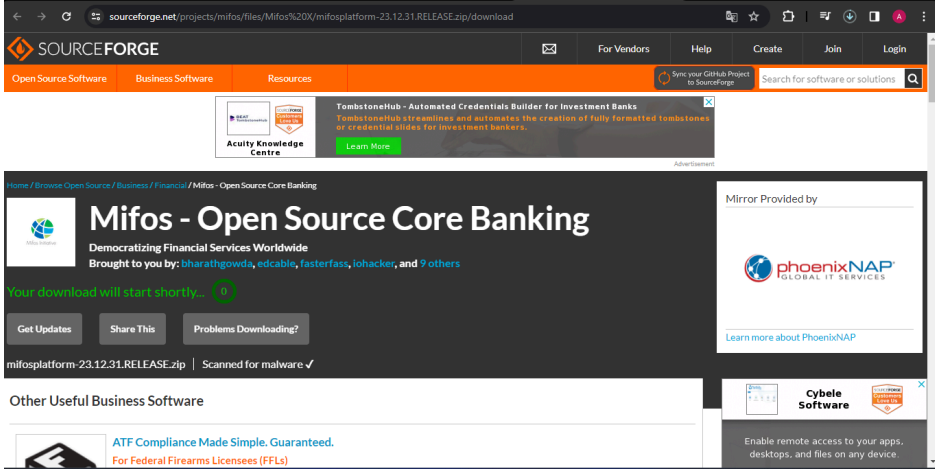
	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	Windows 11 Home x86_64	

In the launch bar, look for the “Docker Desktop” and start it.

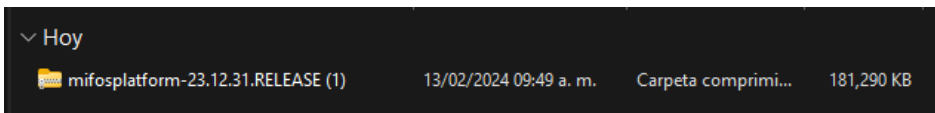




b. Download zip file from SourceForge  
<https://sourceforge.net/projects/mifos/files/Mifos%20X/mifosplatform-23.12.31.RELEASE.zip/download>

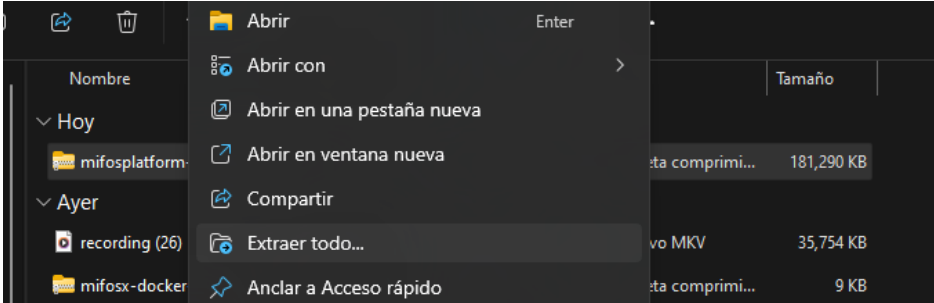
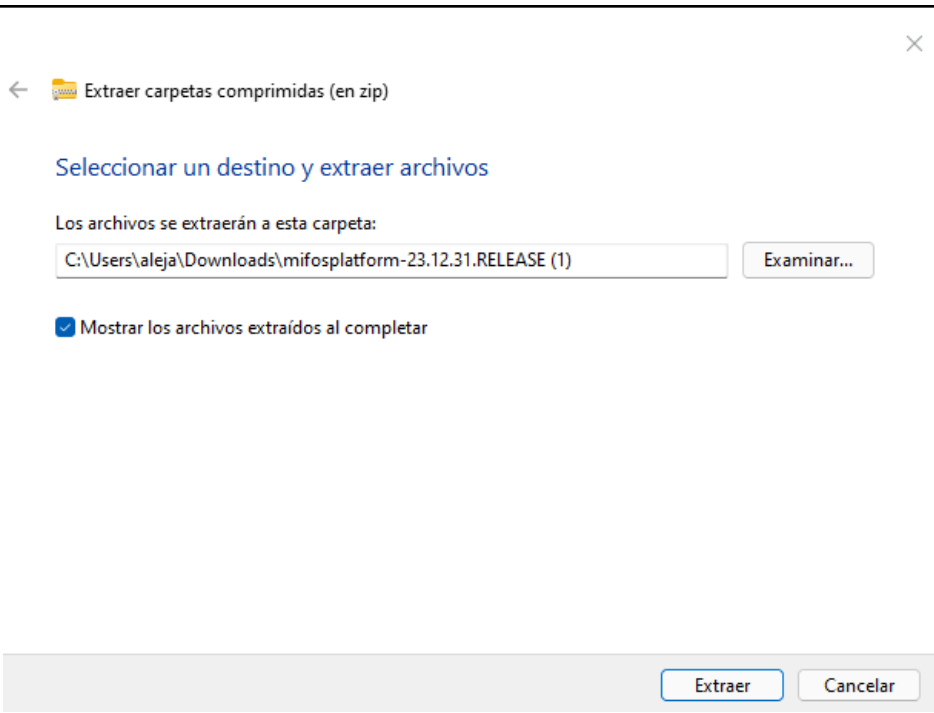
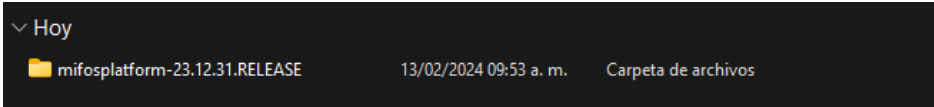
When you enter the download link, the file will automatically start downloading





We locate the downloaded zip file

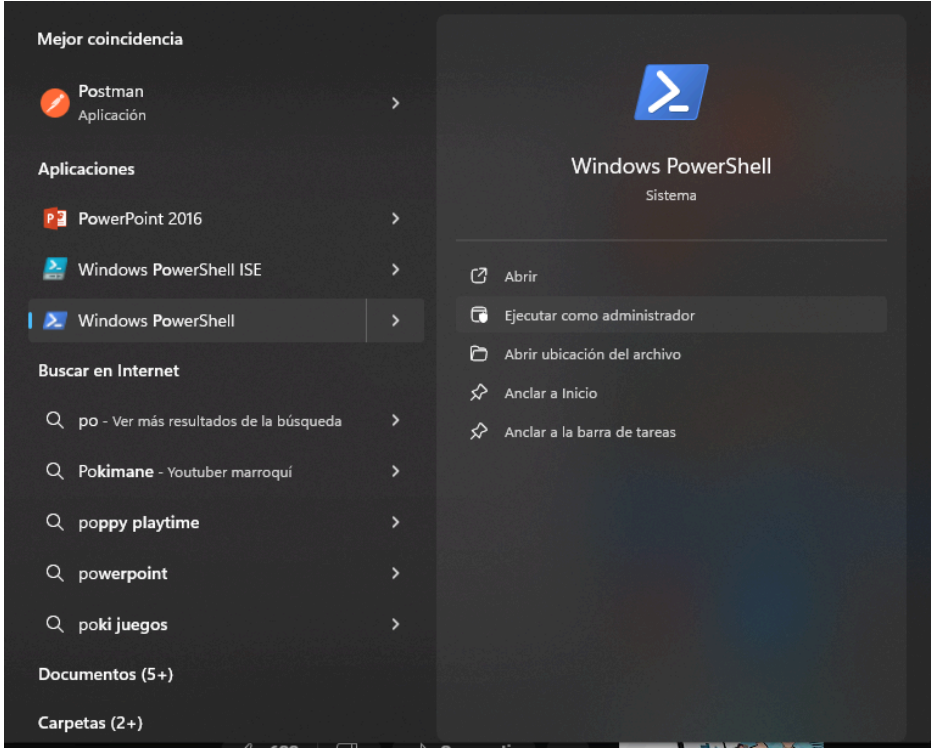
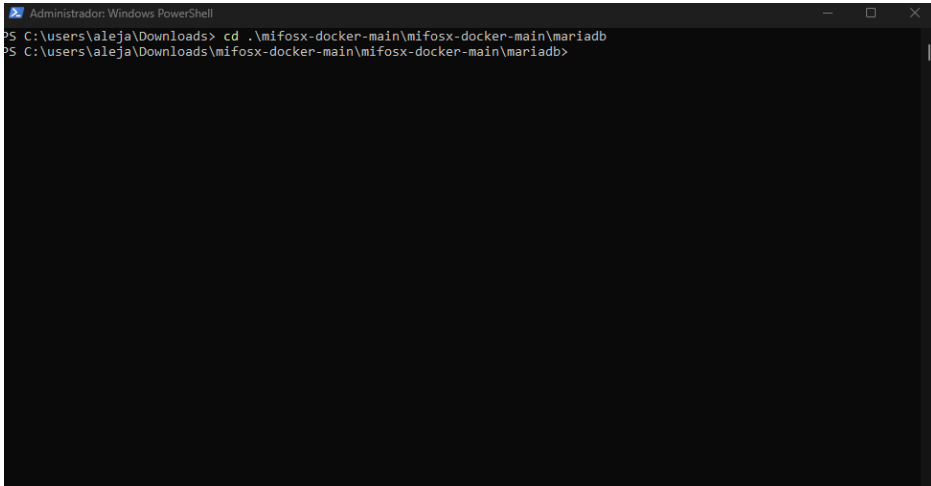




	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	Windows 11 Home x86_64	

We unzip the zip file	
We enter the path where the decompressed file is saved	
We locate the unzipped file	

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

	INSTALLATION INSTRUCTIONS	 <b>FINTECHeando</b>
	<p><b>Windows 11 Home x86_64</b></p>	

<p>Login to powershell as administrator</p>	
<p>Once on the powershell screen we go to the path where we have the unzipped docker compose file and to the mariadb folder</p>	

	<h2 style="text-align: center;">INSTALLATION INSTRUCTIONS</h2> <h3 style="text-align: center;">Windows 11 Home x86_64</h3>	 <p style="text-align: center;"><b>FINTECHeando</b></p>
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once in the path and in the folder, we raise the docker compose containers with the command, **docker compose up -d**

```

PS C:\Users\aleja\Downloads> cd .\mifosx-docker-main\mifosx-docker-main\mariadb
PS C:\Users\aleja\Downloads\mifosx-docker-main\mifosx-docker-main\mariadb> docker compose up -d
[+] Running 2/23
 - web-app 6 layers [.....] 11.99MB/53.58MB Pulling 4.0s
   - bb79b6b2107f Downloading [=====] 6.974MB/... 2.3s
   - 111447d5894d Downloading [=====] 5.012MB/... 2.3s
   - a95689b8e6cb Download complete 0.5s
   - 1a0022e444c2 Download complete 1.7s
   - 32b7488a3833 Pulling fs layer 2.3s
   - 2d6fec14bf8c Pulling fs layer 2.3s
 - fineract-server 6 layers [.....] 0B/0B Pulling 4.0s
   - 4abc2066143 Waiting 2.3s
   - 66ea90457a5d Waiting 2.3s
   - adce0d120f69 Waiting 2.3s
   - 4a8852481f98 Waiting 2.3s
   - 33c61011db7a Waiting 2.3s
   - 939a5b15fe6a Waiting 2.3s
 - fineractmysql 8 layers [.....] 0B/0B Pulling 4.0s
   - d1669123f281 Waiting 1.8s
   - 7942299fe584 Waiting 1.8s
   - ca116927bbe1 Waiting 1.8s
   - 9c0f0b5293ed Waiting 1.8s
   - ee0988afd61a Waiting 1.8s
   - 82d81fccd49d Waiting 1.8s
   - 7e361405ea73 Waiting 1.8s
   - be365127aa3f Waiting 1.8s


```

The system sends us a message that if we allow public and private networks to access the application. Click the "Permit" button

```


PS C:\Users\aleja\Downloads\mifosx-docker-main\mifosx-docker-main\mariadb> docker compose up -d
[+] Running 23/23
 - web-app 6 layers [.....] 0B/0B Pull complete 13.6s
   - bb79b6b2107f Pull complete 7.0s
   - 111447d5894d Pull complete 9.0s
   - a95689b8e6cb Pull complete 0.5s
   - 1a0022e444c2 Pull complete 1.7s
   - 32b7488a3833 Pull complete 2.0s
   - 2d6fec14bf8c Pull complete 11.5s
 - fineract-server 6 layers [.....] 0B/0B Pull complete 69.1s
   - 4abc2066143 Pull complete 8.4s
   - 66ea90457a5d Pull complete 54.0s
   - adce0d120f69 Pull complete 60.1s
   - 4a8852481f98 Pull complete 15.6s
   - 33c61011db7a Pull complete 25.7s
   - 939a5b15fe6a Pull complete 27.2s
 - fineractmysql 8 layers [.....] 0B/0B Pull complete 88.0s
   - d1669123f281 Pull complete 45.2s
   - 7942299fe584 Pull complete 46.0s
   - ca116927bbe1 Pull complete 49.6s
   - 9c0f0b5293ed Pull complete 50.0s
   - ee0988afd61a Pull complete 50.1s
   - 82d81fccd49d Pull complete 69.2s
   - 7e361405ea73 Pull complete 85.6s
   - be365127aa3f Pull complete 52.4s
[+] Running 1/4
 - Network mariadb_default Created 11.0s
 - Container mariadb-fineractmysql-1 Waiting 1.8s
 - Container mariadb-web-app-1 Started 5.5s
 - Container mariadb-fineract-server-1 Created 10.6s

```



INSTALLATION INSTRUCTIONS

Windows 11 Home x86\_64



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Validate that the three containers are shown on the docker desktop

Web-App  
Fineract  
MariaDB

docker desktop

Q Search for images, containers, volume... Ctrl+K

Sign in

Containers

Give feedback

Container CPU usage 337.85% / 800% (8 CPUs available)

Container memory usage 920.62MB / 7.45GB

Show charts

Q Search

Only show running containers

	Name	Image	Status	CPU (%)	Port(s)	Last started	Actions
<input type="checkbox"/>	mariadb		Running (3/3)	337.85%		1 minute ago	
<input type="checkbox"/>	web-app-5303abef8	openmf/web-app-m	Running	0%	8080	2 minutes ago	
<input type="checkbox"/>	fineractm840f2c243	mariadb:10.8	Running	0.03%	3308,3306	2 minutes ago	
<input type="checkbox"/>	fineract-s7988dc002	openmf/fineract:1.5	Running	337.82%	8080,8080	1 minute ago	

Showing 4 items

Engine running RAM 4.93 GB CPU 1.75% Not signed in New version available

We review the Logs to validate that the containers were started correctly. Please be patient, it could take some minutes to complete.

docker desktop

Q Search for images, containers, volume... Ctrl+K

Sign in

Containers

Give feedback

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<input type="checkbox"/>	mariadb		Running (3/3)	337.85%		1 minute ago	
<input type="checkbox"/>	web-app-5303abef8	openmf/web-app-m	Running	0%	8080	2 minutes ago	
<input type="checkbox"/>	fineractm840f2c243	mariadb:10.8	Running	0.03%	3308,3306	2 minutes ago	
<input type="checkbox"/>	fineract-s7988dc002	openmf/fineract:1.5	Running	337.82%	8080,8080	1 minute ago	



Showing 4 items

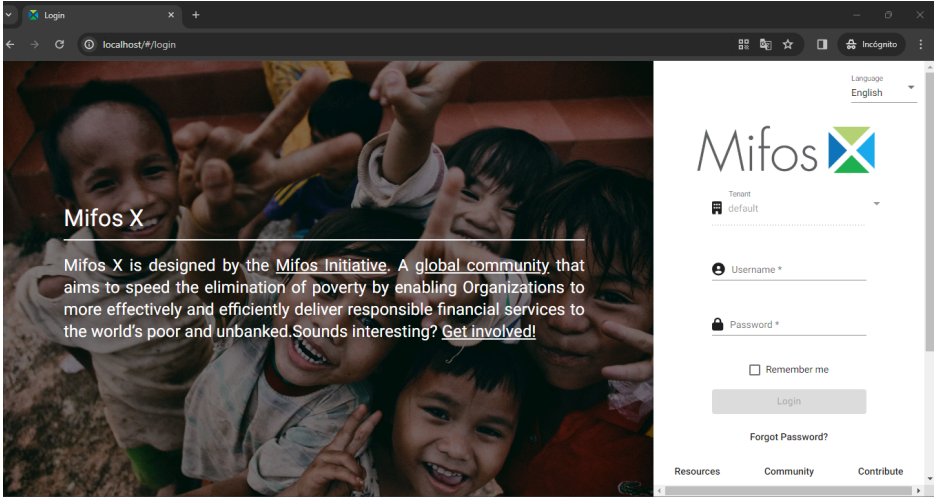
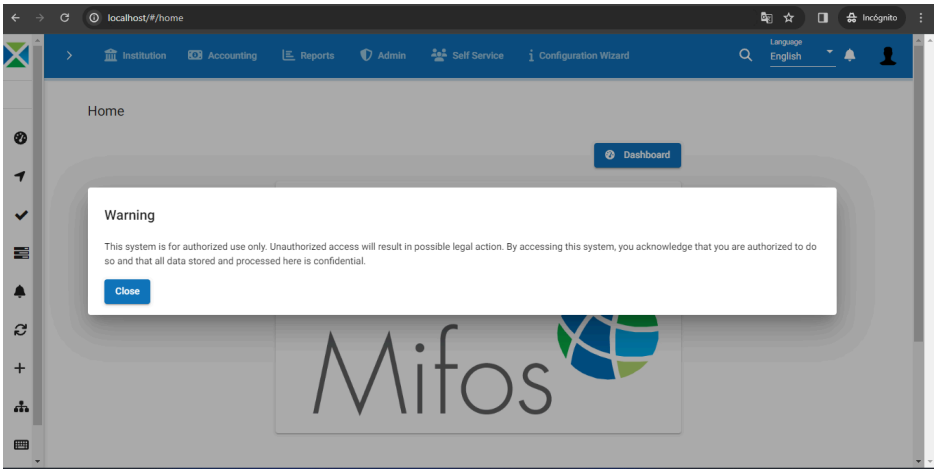
Engine running RAM 4.93 GB CPU 1.75% Not signed in New version available

Open

Logs

2024-02-12 13:21:28 fineract-server-1 | 2024-02-12 19:21:28.661 - INFO 1 --- [TaskEx  
ecutor-9] org.quartz.impl.StdSchedulerFactory : Quartz scheduler 'SchedulerGroup4'  
' initialized from an externally provided properties instance.  
2024-02-12 13:21:28 fineract-server-1 | 2024-02-12 19:21:28.661 - INFO 1 --- [TaskEx  
ecutor-9] org.quartz.impl.StdSchedulerFactory : Quartz scheduler version: 2.3.2  
2024-02-12 13:21:28 fineract-server-1 | 2024-02-12 19:21:28.661 - INFO 1 --- [TaskEx  
ecutor-9] org.quartz.core.QuartzScheduler : JobFactory set to: org.springframework  
work.scheduling.quartz.AdaptableJobFactory@4e1884c9  
2024-02-12 13:21:28 fineract-server-1 | 2024-02-12 19:21:28.661 - INFO 1 --- [TaskEx  
ecutor-9] o.s.s.quartz.SchedulerFactoryBean : Starting Quartz Scheduler now  
2024-02-12 13:21:28 fineract-server-1 | 2024-02-12 19:21:28.661 - INFO 1 --- [TaskEx  
ecutor-9] org.quartz.core.QuartzScheduler : Scheduler SchedulerGroup4\_\$\_NON\_C  
LUSTERED started.  
2024-02-12 13:21:28 fineract-server-1 | 2024-02-12 19:21:28.844 - INFO 1 --- [TaskEx  
ecutor-9] o.a.f.i.s.job.SchedulerServiceImpl : Scheduling batch jobs has finished  
2024-02-12 13:22:00 fineract-server-1 | 2024-02-12 19:22:00.107 - INFO 1 --- [duler1\_  
Worker-1] o.s.b.c.l.support.SimpleJobLauncher : Job: [SimpleJob: {name=SEND\_ASYNC  
RONOUS\_EVENTS}] launched with the following parameters: [{"run.id":1,"value=1, type=cla  
ss java.lang.Long, identifying=true"}]  
2024-02-12 13:22:00 fineract-server-1 | 2024-02-12 19:22:00.147 - INFO 1 --- [duler1\_  
Worker-1] o.s.batch.core.job.SimpleStepHandler : Executing step: [SEND\_ASYNCRONOUS  
\_EVENTS\_STEP]  
2024-02-12 13:22:00 fineract-server-1 | 2024-02-12 19:22:00.175 - INFO 1 --- [duler1\_  
Worker-1] o.s.batch.core.step.AbstractStep : Step: [SEND\_ASYNCRONOUS\_EVENTS\_ST  
EP] executed in 28ms  
2024-02-12 13:22:00 fineract-server-1 | 2024-02-12 19:22:00.193 - INFO 1 --- [duler1\_  
Worker-1] o.s.b.c.l.support.SimpleJobLauncher : Job: [SimpleJob: {name=SEND\_ASYNC  
RONOUS\_EVENTS}] completed with the following parameters: [{"run.id":1,"value=1, type=cla  
ss java.lang.Long, identifying=true"}] and the following status: [COMPLETED] in 64ms

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	Windows 11 Home x86_64	

<p>Validate that Mifos X Release 23.12 is up and running entering the following url <a href="http://localhost">http://localhost</a> in a Web Browser</p>	
<p>Sign in with the default credentials:</p> <p><b>User: mifos</b></p> <p><b>Password: password</b></p>	

## 6. Document versions

Version	Date	Subject	Author	Reviewer
1.0	12th February 2024	Document creation	Alejandro Escutia	