



FX-PROJECT®
OPEN SOURCE

Version 24

fx-project Open Source - VMware INSTALLATION



Table of contents

1	General.....	4
1.1	Brief Description	4
1.2	Imprint.....	4
2	VMware Workstation Pro	5
2.1	Download.....	5
2.2	Installation	9
3	fx-project Open Source - VMware (DESKTOP).....	15
3.1	Download fx-project VMware (DESKTOP)	15
3.2	Unpack fx-project VMware (Desktop)	17
3.3	Start VMware	18
3.4	Integrate fx-project VMware (Desktop)	21
3.5	Start fx-project VMware (Desktop)	27
3.6	Update Ubuntu (DESKTOP)	30
3.7	Start fx-project Open Source.....	32
3.8	Install fx-project Open Source	35
3.9	Shut Down the Virtual Computer (DESKTOP)	35
4	fx-project Open Source - VMware (SERVER)	36
4.1	Download fx-project VMware (SERVER).....	36
4.2	Unpack fx-project VMware (SERVER).....	38
4.3	Start VMware	39
4.4	Integrate fx-project VMware (SERVER).....	42
4.5	Start fx-project VMware (SERVER)	48



4.6	Update Ubuntu (SERVER).....	51
4.7	Start fx-project Open Source.....	52
4.8	Install fx-project Open Source	55
4.9	Reboot / Shut Down the Virtual Computer (SERVER)	55
5	Troubleshooting.....	56
5.1	User password in Ubuntu is not accepted	56
6	Acknowledgement	57
7	Third-Party Software Notice	58



1 General

fx-project version 24, as of October 2024

1.1 Brief Description

This tutorial explains step-by-step how to install and prepare VMware and mount virtual machines to be able to install fx-project.

Unless otherwise described, instructions always refer to the Ultimate version of fx-project, as it includes all functionalities.

1.2 Imprint

FeRox Management Consulting GmbH & Co KG

Adolf Langer Way 11a
94036 Passau
Germany

Phone: +49-851-96671-0
Fax: +49-851-96671-10

Email: info@fx-project.de
Web: <https://www.fx-project.org>

Personally liable shareholder
FeRox Management Consulting Verwaltungs-GmbH
Passau Local Court, HRA Passau 13154

Managing Director
Walter Binder
Passau Local Court, HRB Passau 10384

© FeRox Management Consulting GmbH & Co. KG



2 VMware Workstation Pro



Notice:

The documentation for windows was originally made in a german windows version and therefore the screenshots are sometimes in german.

Nevertheless the texts have been translated by an AI and checked manually for your convinience and the links and actions have been adjusted accordingly.

Thank you for your understanding.

2.1 Download

If you have not yet installed the virtualization software product VMware on your system, you can download the free **VMware Workstation Pro** from the website:

<https://support.broadcom.com/group/ecx/downloads>



This product enables you to run a second operating system securely on your PC as a virtual machine - in this case a virtual Ubuntu system with fx-project Open Source. This requires free registration on the above website if you do not already have access.

A screenshot of a web browser showing the Broadcom customer sign-in page. The browser's address bar shows 'https://access.broadcom.com/default/ui/v1/signin/'. The page has a red header with the Broadcom logo and navigation links: PRODUCTS, SOLUTIONS, SUPPORT, COMPANY, HOW TO BUY. A 'LOGIN' dropdown menu is visible in the top right. Below the header, there's a message: 'Having trouble logging in? [Click here](#) to use our Chat Bot for assistance.' and 'Connecting to Support Portal ECX'. The main content area features the Broadcom logo and the text 'Broadcom Inc. Customer sign-in'. There is a 'Username' field with the placeholder 'Enter your username', a 'Remember me' checkbox, and a 'Next' button. A 'myBroadcom Account:' box in the top right contains 'LOGIN' and 'REGISTER' buttons, and a link for 'Forgot Username/Password?'.

(Figure 1: The screenshot may differ depending on language/version)

Click on **LOGIN > REGISTER** in the top right-hand corner and enter your details.



If you have an account or have successfully created one, simply call up the following link in your browser

<https://support.broadcom.com/group/ecx/productdownloads?subfamily=VMware%20Workstation%20Pro>

After you have logged in with your access data, you will see a list of all available VMware products.

Release	Release Level Info	Language
17.6.1	524563	English
17.6	522390	English
17.5.2	520448	English

(Figure 2: The screenshot may differ depending on language/version)

The free version is only available for personal use, i.e. it is the version "**VMware Workstation Pro 17 for Personal Use**", either for Windows or Linux. To select, click on the version number on the top line for the latest version, here **17.6.1**.



This will take you to the actual download page.

VMware Workstation Pro for Personal Use (For Windows) 17.6.1

Primary Downloads Open Source

Search 17.6.1 524563 English

☒ I agree to [Terms and Conditions](#) ☒ Expand All

File Name	Last Updated	SHA2	MD5
VMware Workstation Pro for Personal Use (For Windows)			
VMware-workstation-full-17.6.1-24319023.exe(447.93 MB) Build Number: 24319023	Oct 08, 2024 07:33AM	f95429e395a583eb5ba91f09b040e2f8 c53a5e7aa37c4c6bfca82115a8d3fa4	6896ebcad85daa19c90c044a7200d1 b5

(Figure 3: The screenshot may differ depending on language/version)

Now agree to the terms and conditions by checking the box **"I agree to Terms and Conditions"** and download VMware Workstation Pro by clicking on the corresponding download icon

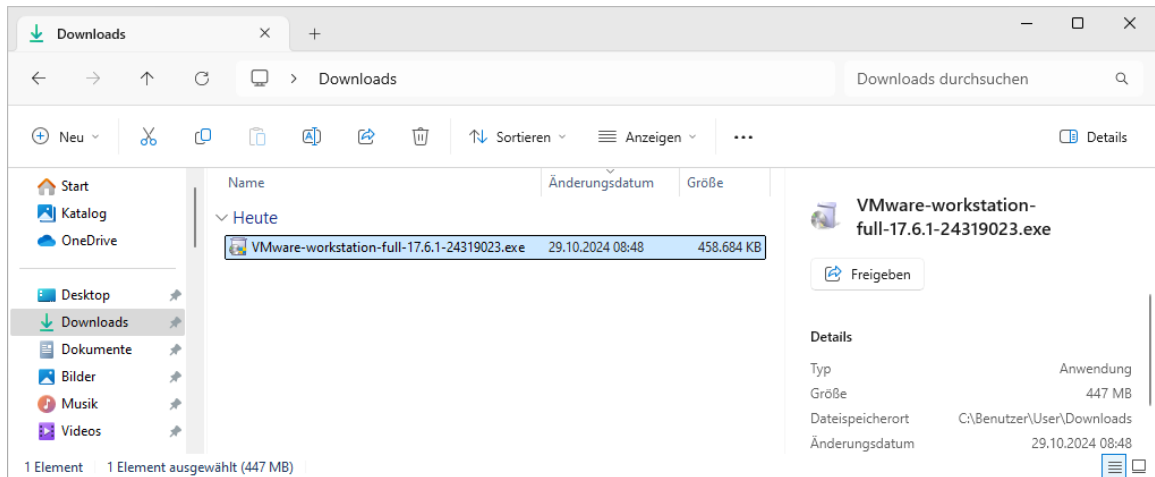


After an additional verification procedure where you have to enter your address data, the download will actually start by clicking on the icon again.



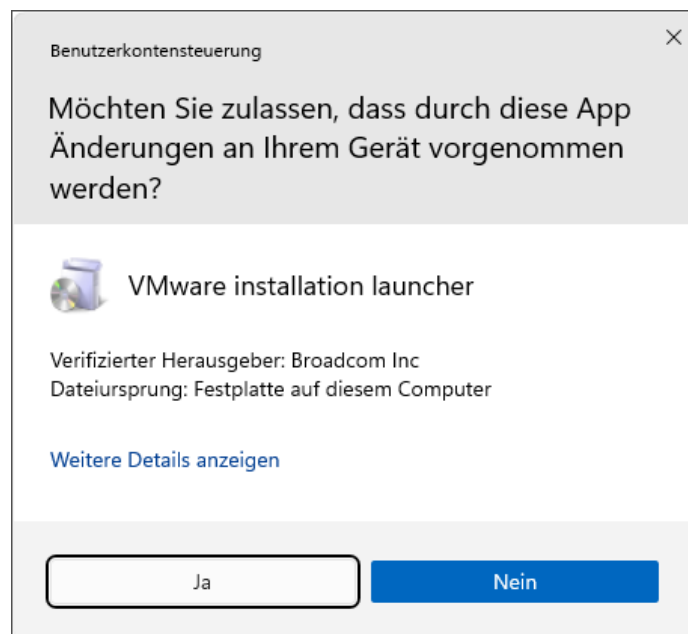
2.2 Installation

To install VMware Workstation Pro, double-click on the previously downloaded executable EXE file "**VMware-workstation-full-17.6.1-24319023.exe**".



(Figure 4: The screenshot may differ depending on language/version)

If a security message appears when you run programs ...



(Figure 5: The screenshot may differ depending on language/version)

... confirm this by clicking on the button **Yes / Ja**.

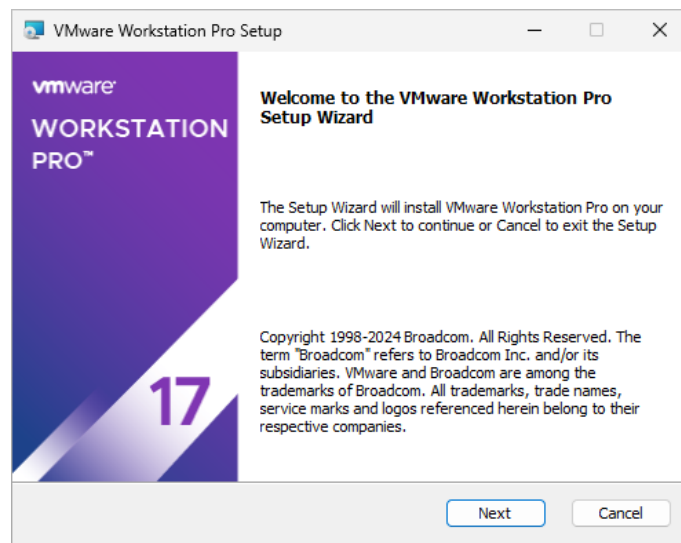


While the installation is being prepared you will see this VMware Workstation Pro image.



(Figure 6: The screenshot may differ depending on language/version)

Once the preparation is complete, the welcome window appears.

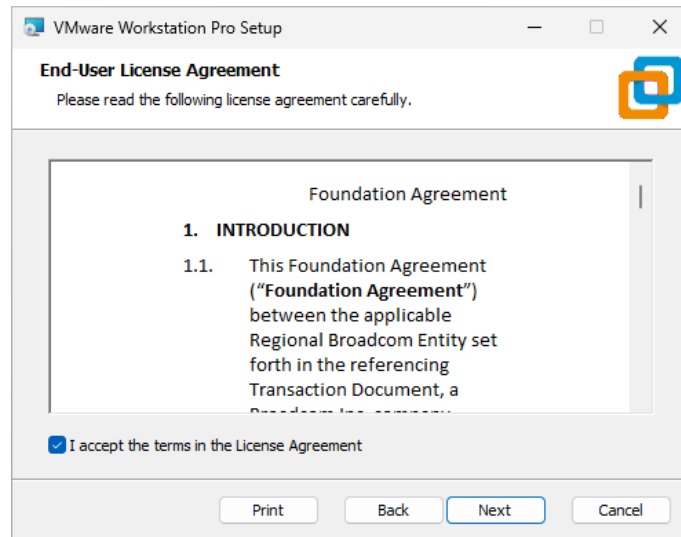


(Figure 7: The screenshot may differ depending on language/version)

To continue, click on the button **Next**.



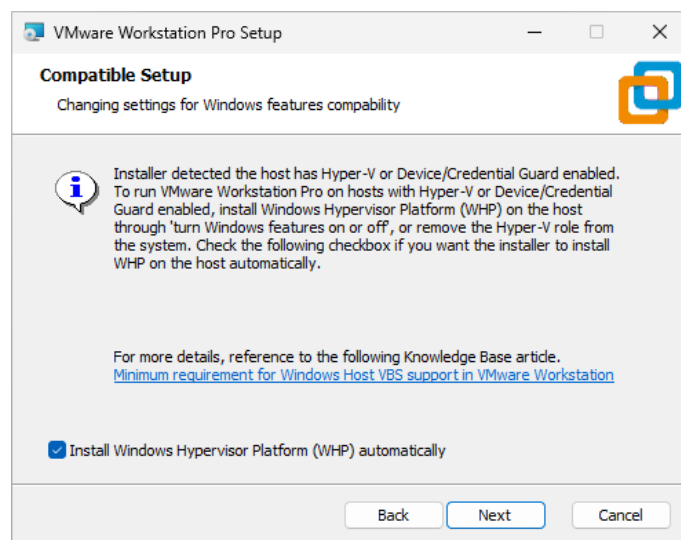
Read through the license agreement and agree to it by checking the corresponding checkbox **"I accept the terms in the License Agreement"** ...



(Figure 8: The screenshot may differ depending on language/version)

... and then click on the button **Next**.

If "Hyper-V" or "Device/Credential Guard" is installed on your system, the following **"Compatible Setup"** appears, e.g. on Windows 11 Enterprise systems. Select the corresponding checkbox, here **"Install Windows Hypervisor Platform (WHP) automatically"** and ...

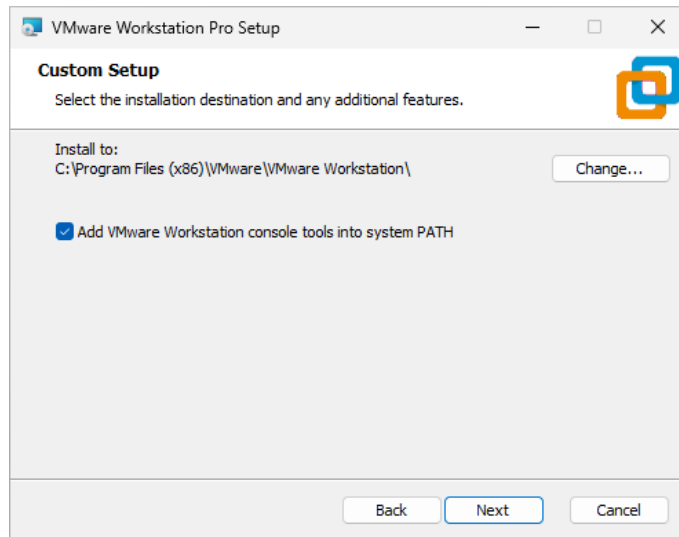


(Figure 9: The screenshot may differ depending on language/version)

... click on the button **Next**.



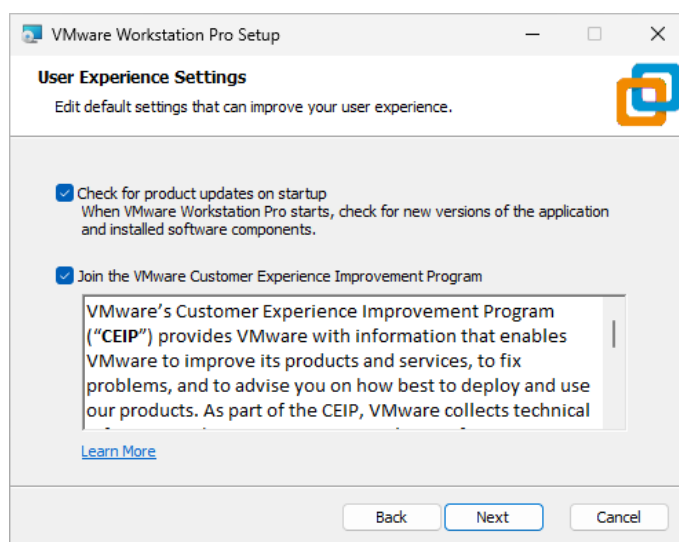
In the "**Custom Setup**" you can customize the installation path and/or add it to the system path - the default settings are sufficient here.



(Figure 10: The screenshot may differ depending on language/version)

Click on the button **Next**.

In the "**User Experience Settings**" you can mark whether you want to search for "**Product Updates**" and/or whether you want to participate in the "**Improvement Program**".

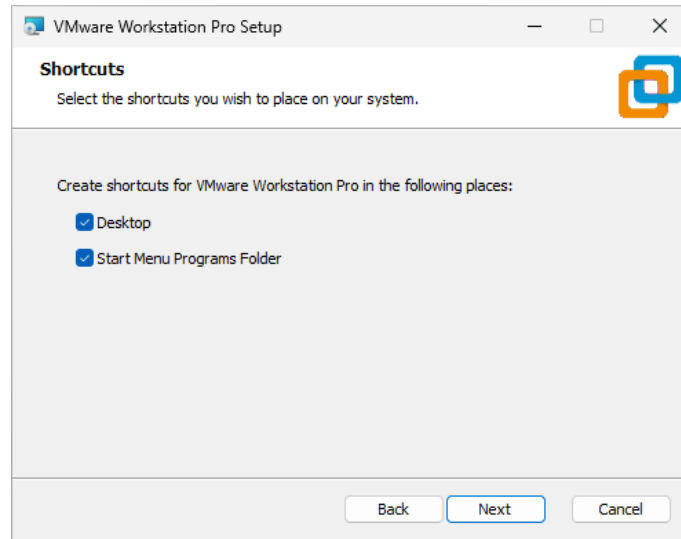


(Figure 11: The screenshot may differ depending on language/version)

Click on the button **Next**.



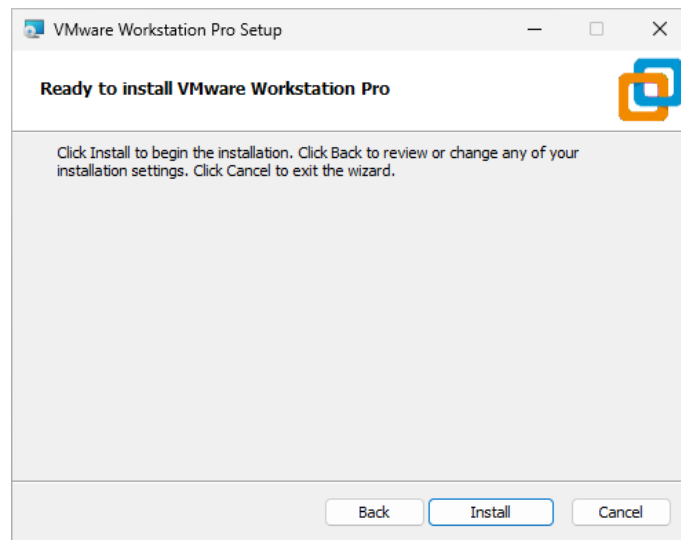
Now define the "**Shortcuts**", i.e. where shortcuts should be created. Select both checkboxes to create shortcuts both on the "**Desktop**" and in the "**Start menu**".



(Figure 12: The screenshot may differ depending on language/version)

Click on the button **Next**.

This completes the preparations. To install VMware Workstation Pro ...

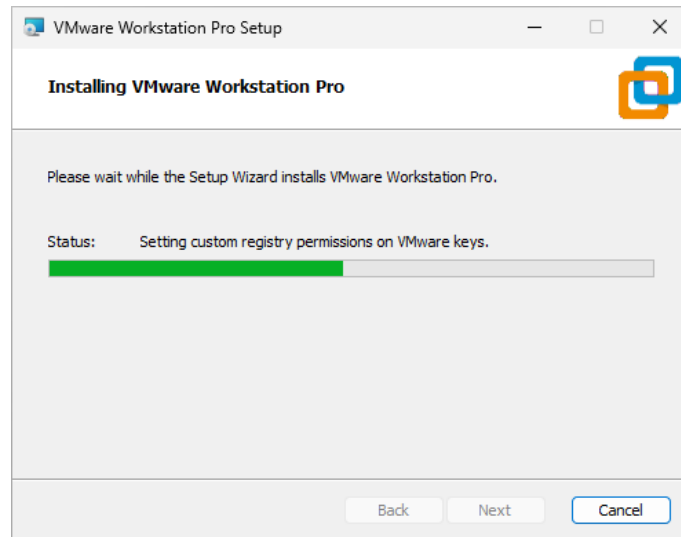


(Figure 13: The screenshot may differ depending on language/version)

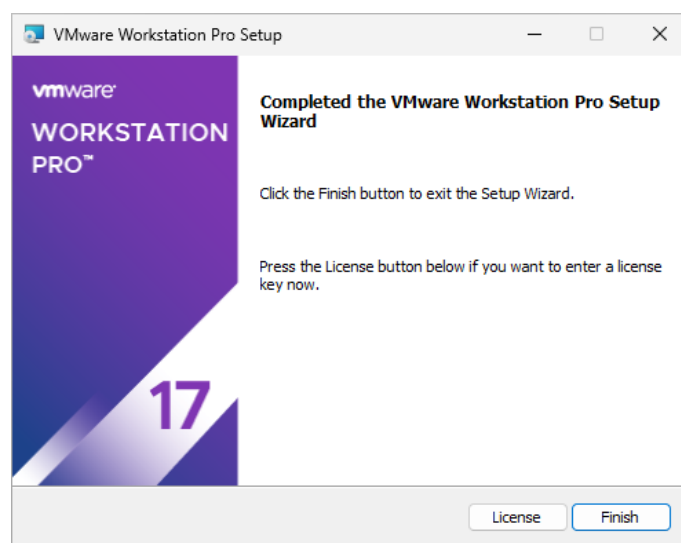
... Click on the button **Install**.



Now wait until the installation is complete ...



(Figure 14: The screenshot may differ depending on language/version)



(Figure 15: The screenshot may differ depending on language/version)

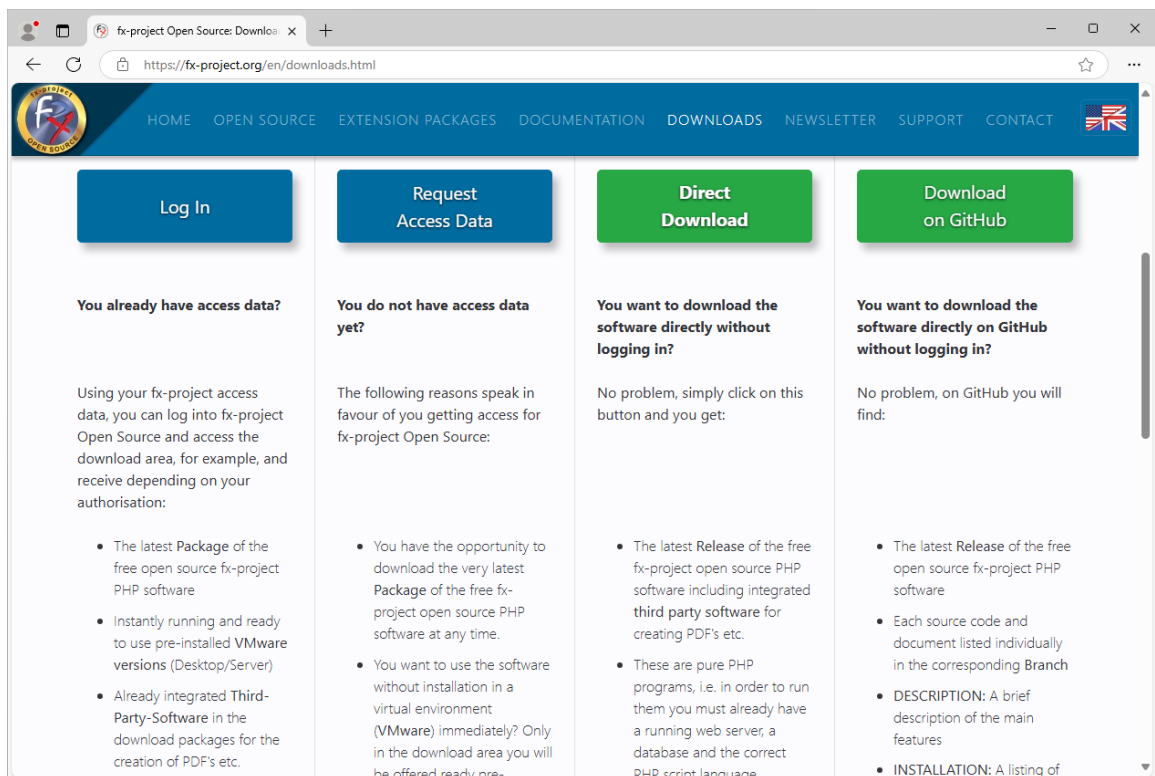
... and at the end click on the button **Finish**.



3 fx-project Open Source - VMware (DESKTOP)

3.1 Download fx-project VMware (DESKTOP)

On our website <https://www.fx-project.org/en/> you will find the latest version of fx-project Open Source including documentation, manuals, patches and/or extension packages in the [Downloads] section.



(Figure 16: The screenshot may differ depending on language/version)

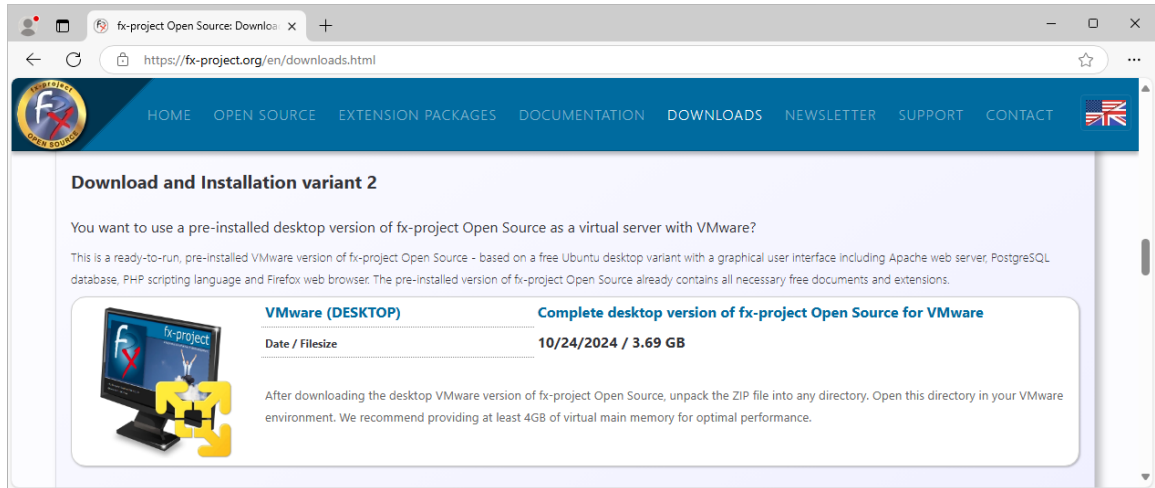


Hinweis:

To access the download area of fx-project you need valid access data. If you do not yet have access data, you can request new access data.



After logging in, you will see a list of all available downloads.



(Figure 17: The screenshot may differ depending on language/version)

Download the latest Desktop version for VMware.

VMware (DESKTOP):

This is a ready-to-run, pre-installed VMware version of fx-project Open Source - based on a free Ubuntu desktop version with a graphical user interface including Apache web server, PostgreSQL database, PHP scripting language and Firefox web browser. The pre-installed version of fx-project Open Source already contains all the necessary free documents and extensions.



Hinweis:

The desktop version is larger and more resource-hungry, as it contains a complete graphical user interface including mouse control. If you only want to test fx-project Open Source or have no server experience, this is the right version for you.



3.2 Unpack fx-project VMware (Desktop)

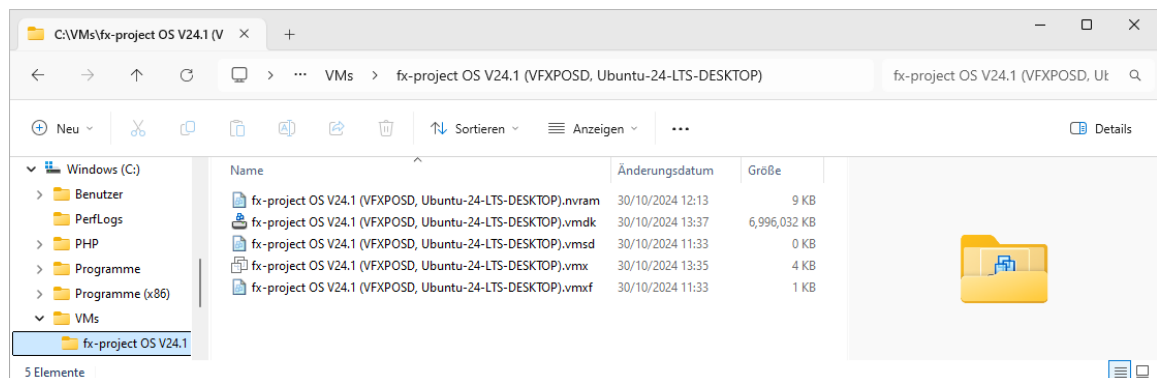
Unpack the downloaded ZIP file into an appropriate folder.

We recommend, for example, creating a new **"VMs"** folder directly on your fastest hard disk, preferably on an SSD or NVMe hard disk. There should be at least 32 GB free space on the hard disk, ideally 256 GB or more to prevent possible problems later when the amount of data in fx-project grows due to daily use.

To do this, right-click on the ZIP file and select **"Extract all..."**. Select your target folder as the folder, e.g. **"C:\VMs"**.

In our example, the folder structure after unpacking the ZIP file is as follows

- ▶ C:
 - ▶ VMs
 - ▶ fx-project OS V24.1 (VFXPOSD, Ubuntu-24-LTS-DESKTOP)



(Figure 18: The screenshot may differ depending on language/version)



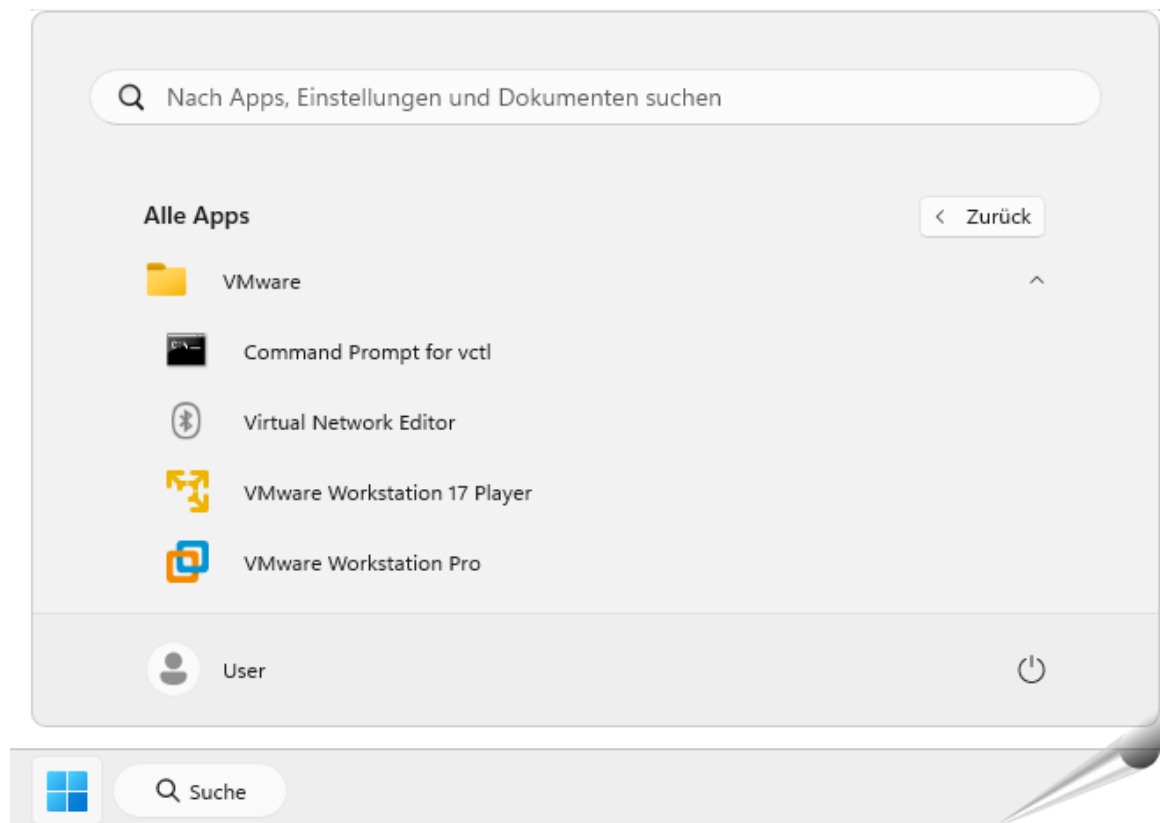
3.3 Start VMware

fx-project Open Source VMware (DESKTOP) is a virtual operating system with all required pre-installed components for the virtualization software product VMware.

These components are:

- ➔ **Operating system:** Ubuntu 24.04.1 LTS 64bit (*LTS = Long Term Support*)
- ➔ **Computer name:** vfxposd
- ➔ **Web server:** Apache 2.4.58
- ➔ **Database:** PostgreSQL 16.4
- ➔ **Script language:** PHP 8.3.6
- ➔ **Browser:** Firefox

To be able to use fx-project Open Source, you must start "**VMware Workstation Pro**" or another supported VMware program. To do this, open the Windows start menu, for example, and click on the corresponding entry ...



(Figure 19: The screenshot may differ depending on language/version)

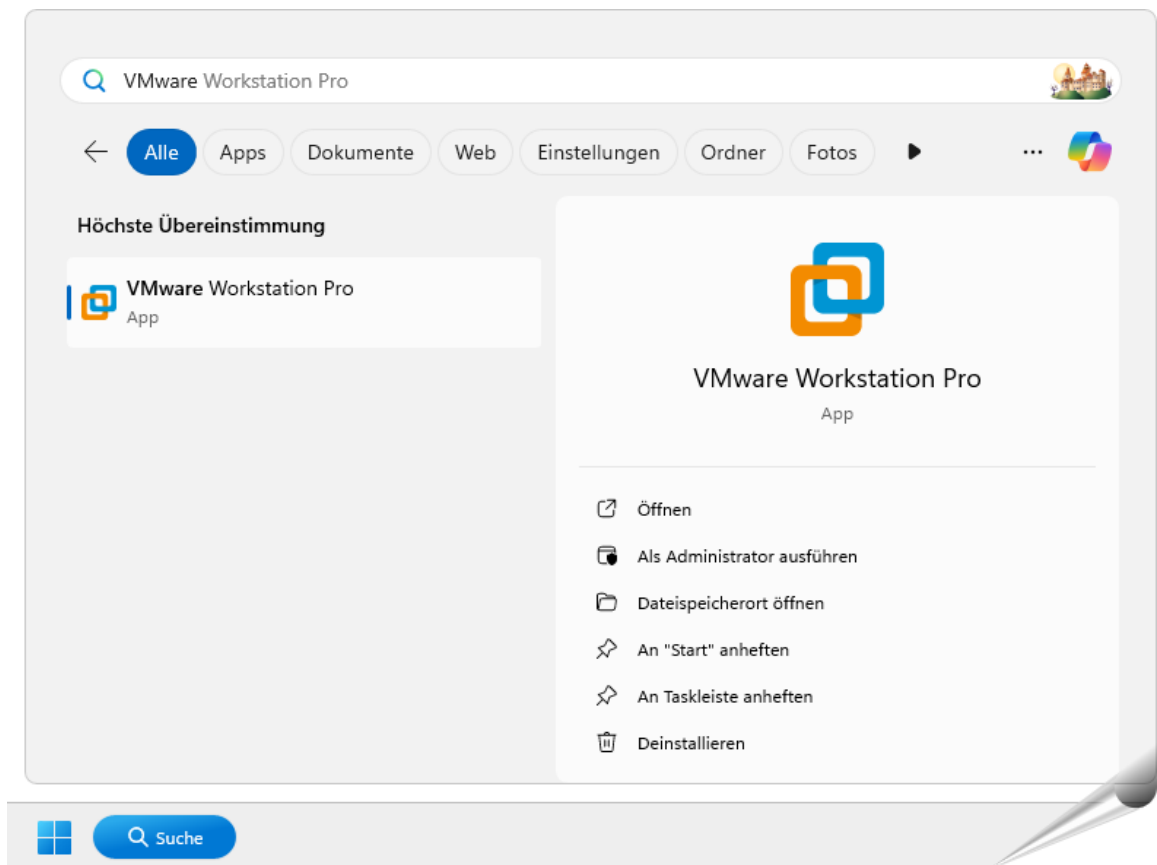


... or click on the corresponding icon on your desktop ...



(Figure 20: The screenshot may differ depending on language/version)

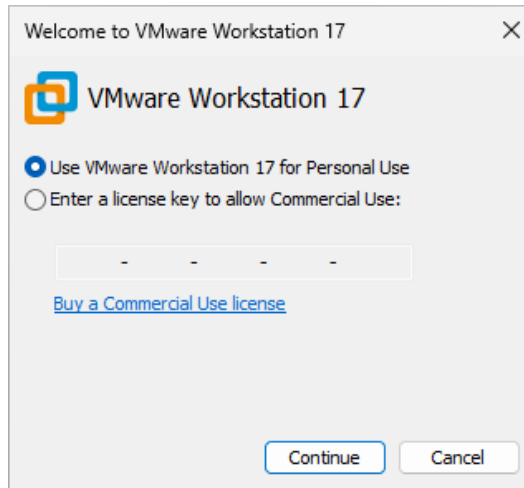
... or use the search function.



(Figure 21: The screenshot may differ depending on language/version)



When you start VMware Workstation Pro for the first time, you will be asked whether you want to use the free version for personal use or whether you already have a license key. If you have a license key, you can enter it here.



(Figure 22: The screenshot may differ depending on language/version)

Click on the button **Continue**.

You will see a small "Thank you" window before the actual start.



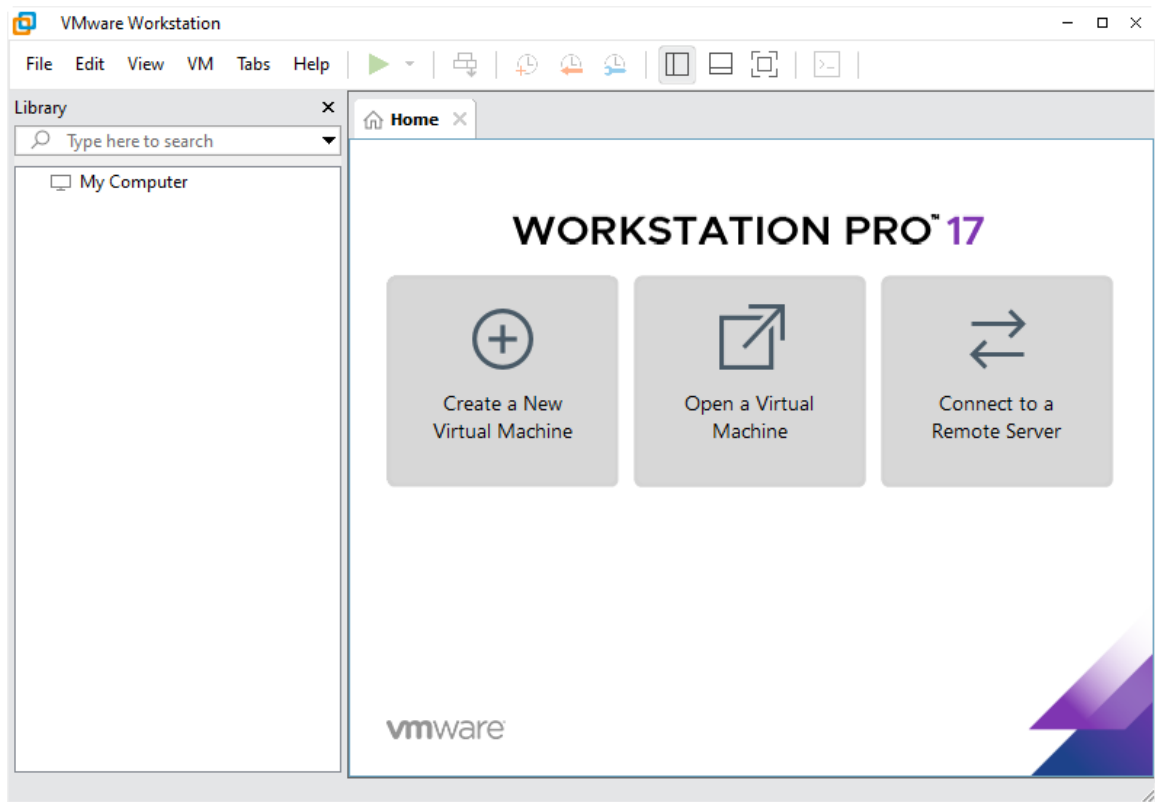
(Figure 23: The screenshot may differ depending on language/version)

Click on the button **Finish**.



3.4 Integrate fx-project VMware (Desktop)

This is now the actual start screen of VMware Workstation Pro, but it does not yet have any virtual machines to run.



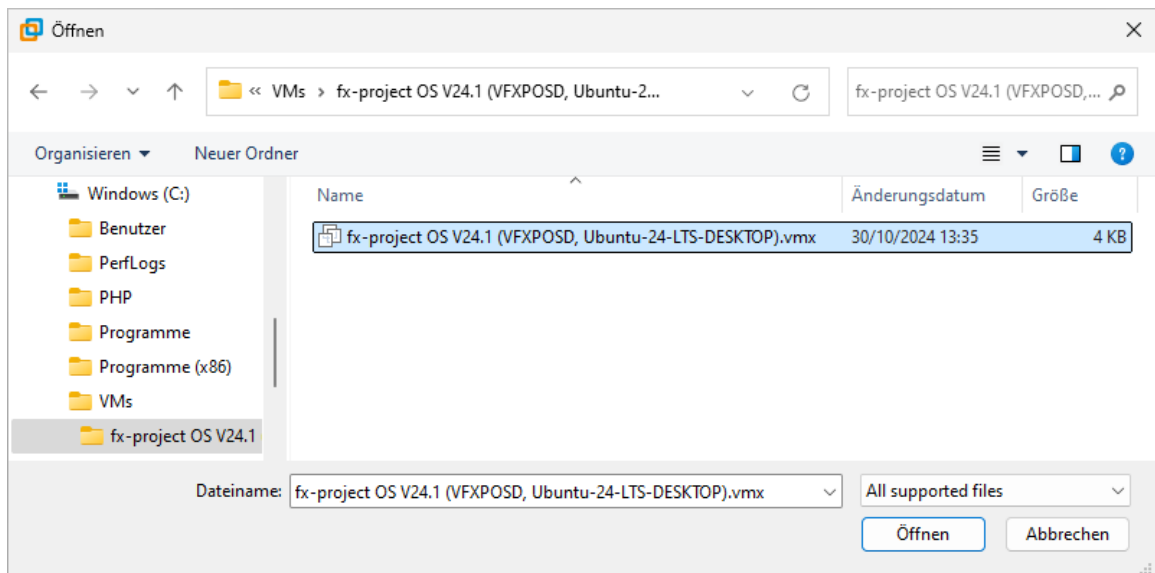
(Figure 24: The screenshot may differ depending on language/version)

To integrate the virtual "fx-project Open Source" machine, click on **Open a Virtual Machine**.



Select the following file from the folder into which you have unpacked fx-project (see point 3.2):

► **fx-project OS V24.1 (VFXPOSD, Ubuntu-24-LTS-DESKTOP).vmx**

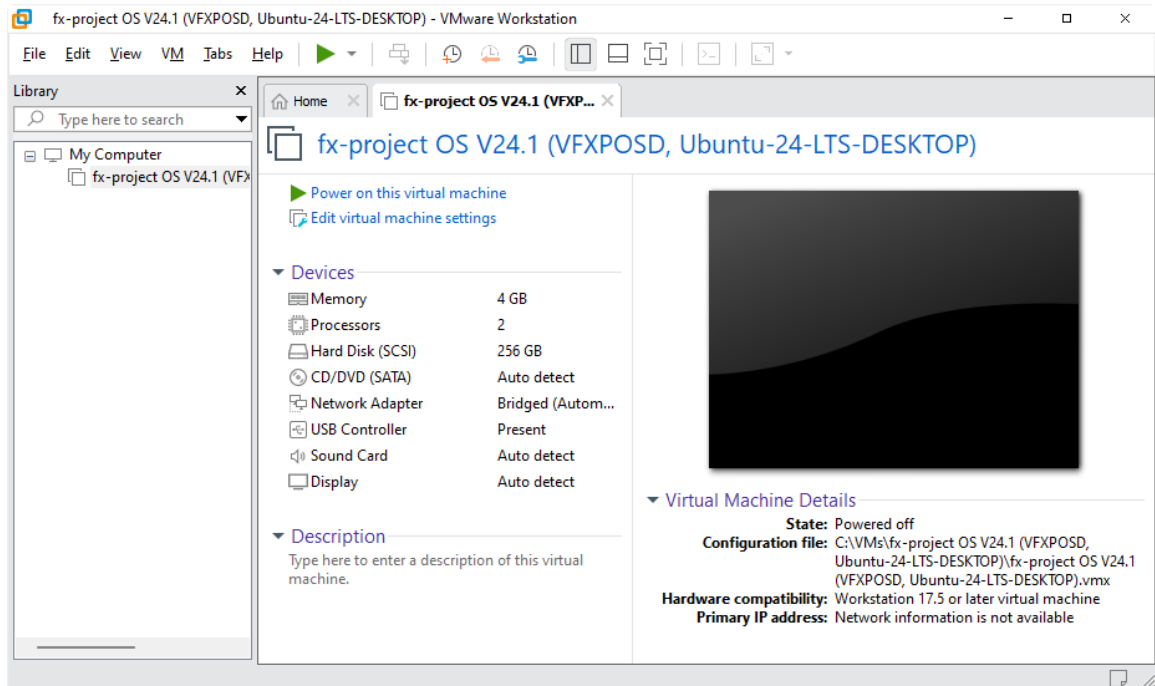


(Figure 25: The screenshot may differ depending on language/version)

Click on the button **Open / Öffnen**.



On the left-hand side (Library), select the now existing virtual machine "fx-project OS V24.1 (VFXPOSD, Ubuntu-24-LTS-DESKTOP)" ...



(Figure 26: The screenshot may differ depending on language/version)

... and click on **Edit virtual machine settings** at the top left to adjust certain settings to your system environment.



Hinweis:

These settings can be changed at any time if the virtual machine is too slow, has no internet connection or similar. Feel free to experiment to find the best values for your system.

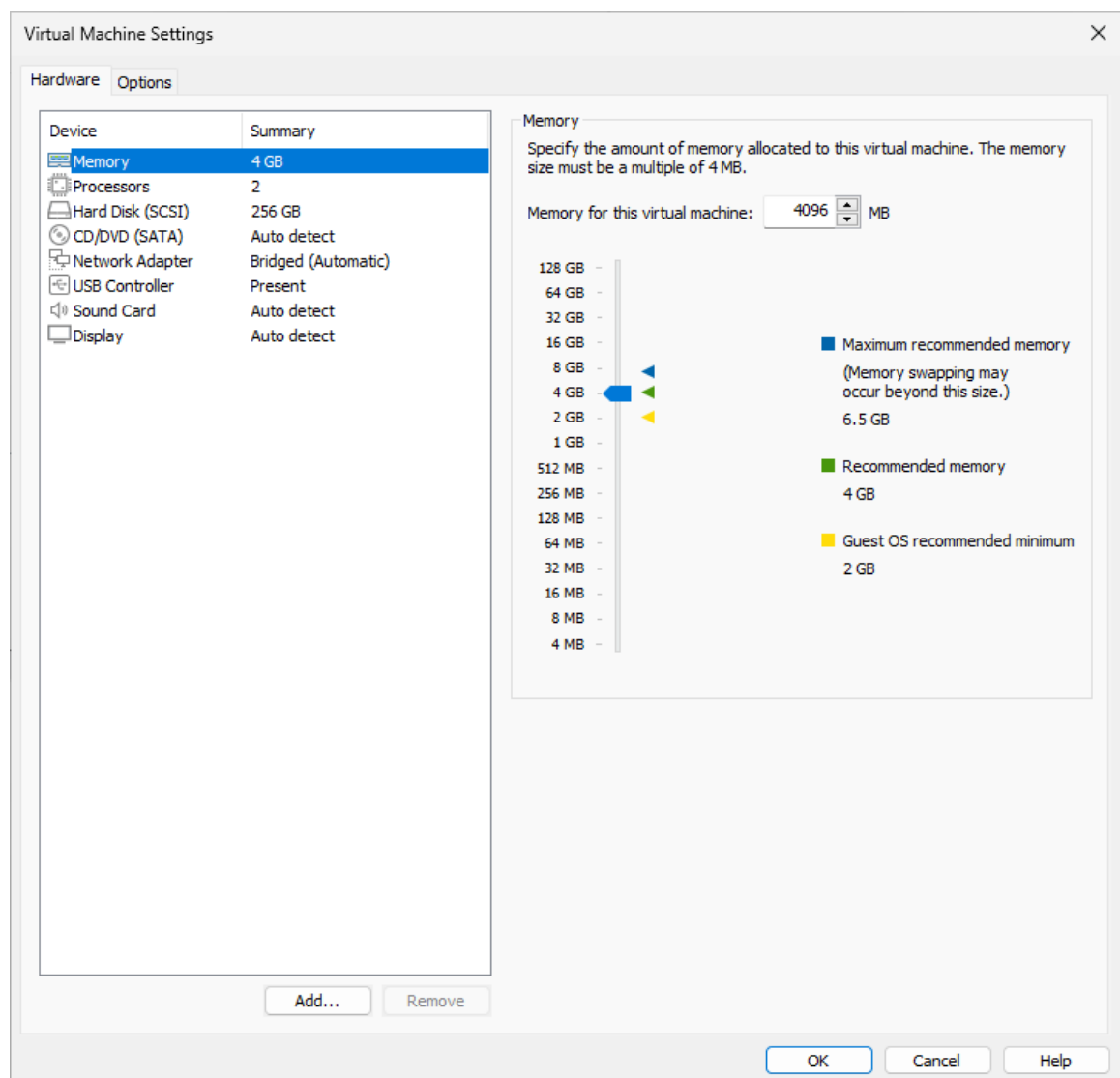
Important! Some values can only be changed when the virtual machine is shut down (State: Powered off).



On the left-hand side, you can see the simulated hardware components of this virtual machine. Here is a list of the three most important ones.

In the "**Memory**" setting for the virtual main memory, you can specify the available size.

At least 2 GB (= 2048 MB) should be made available here; 4 GB (= 4096 MB) or more is optimal if your system has sufficient free main memory.

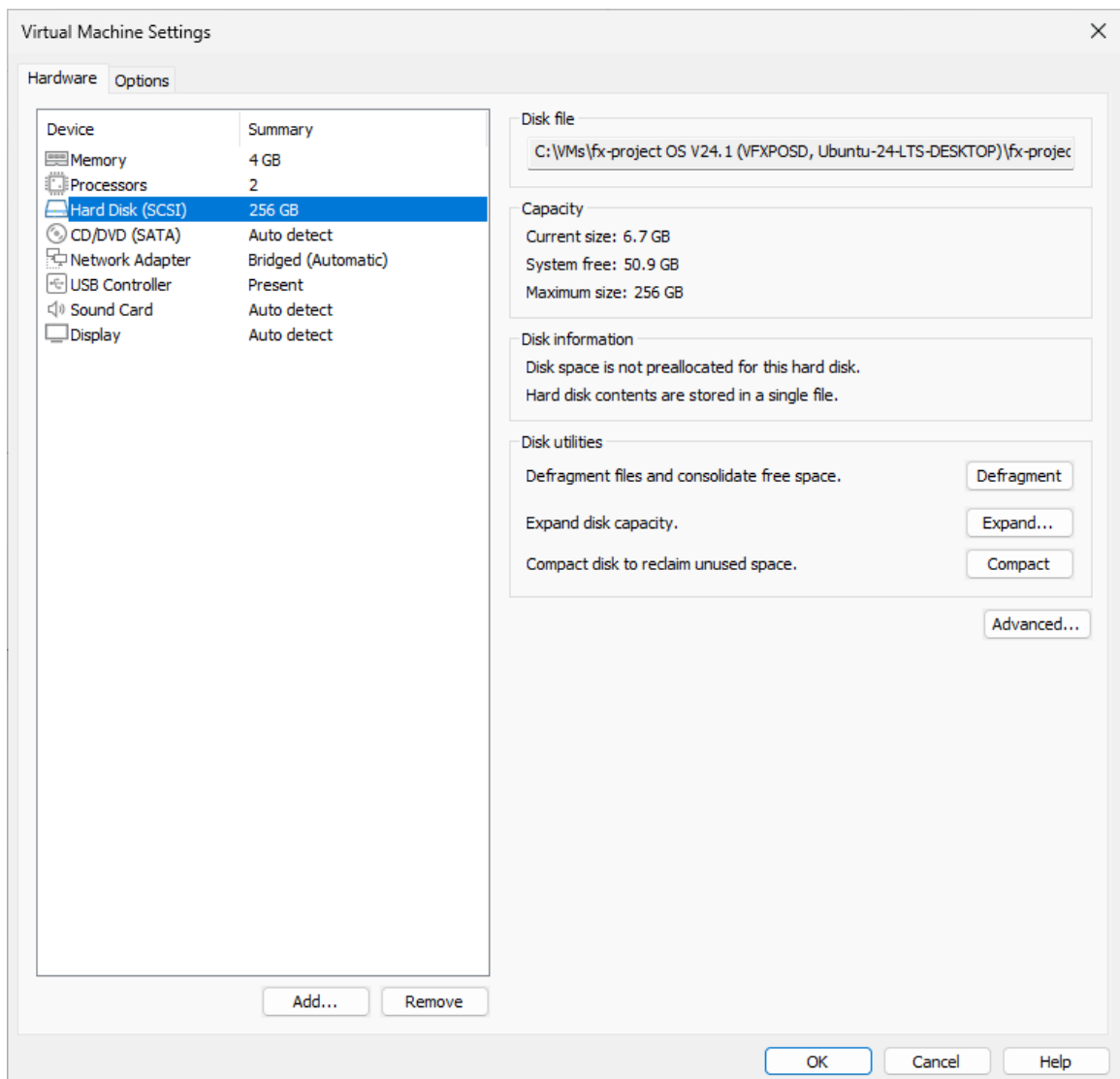


(Figure 27: The screenshot may differ depending on language/version)



In the setting for the virtual hard disk "**Hard Disk**" , you can expand the maximum size "**Expand**" and run various hard disk tools, such as defragmenting the hard disk "**Defragment**" or reducing the file size "**Compact**".

For speed reasons, you should perform a "**Defragment**" and "**Compact**" approximately every two weeks. Of course, it is also advisable to perform these actions before backing up the virtual machine.



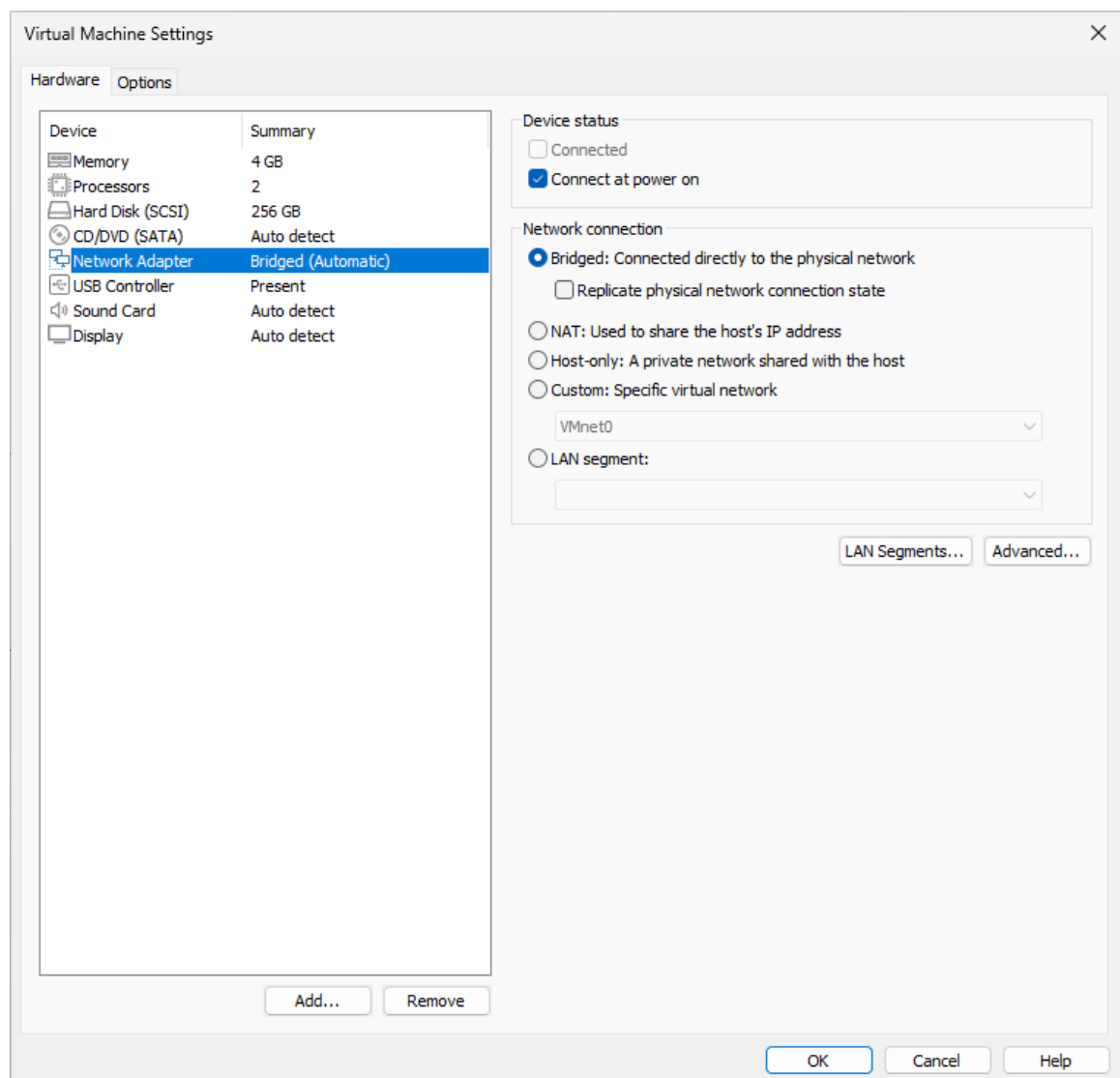
(Figure 28: The screenshot may differ depending on language/version)



The setting that can cause the most problems is the one for the virtual network card "**Network Adapter**", as this is used differently on every system.

Unfortunately, only trial and error will help here.

In our experience, "**Bridged**" is the most promising option. If you have several network cards in your system, you can use "**Configure Adapters**" to select the one that the virtual machine should use.



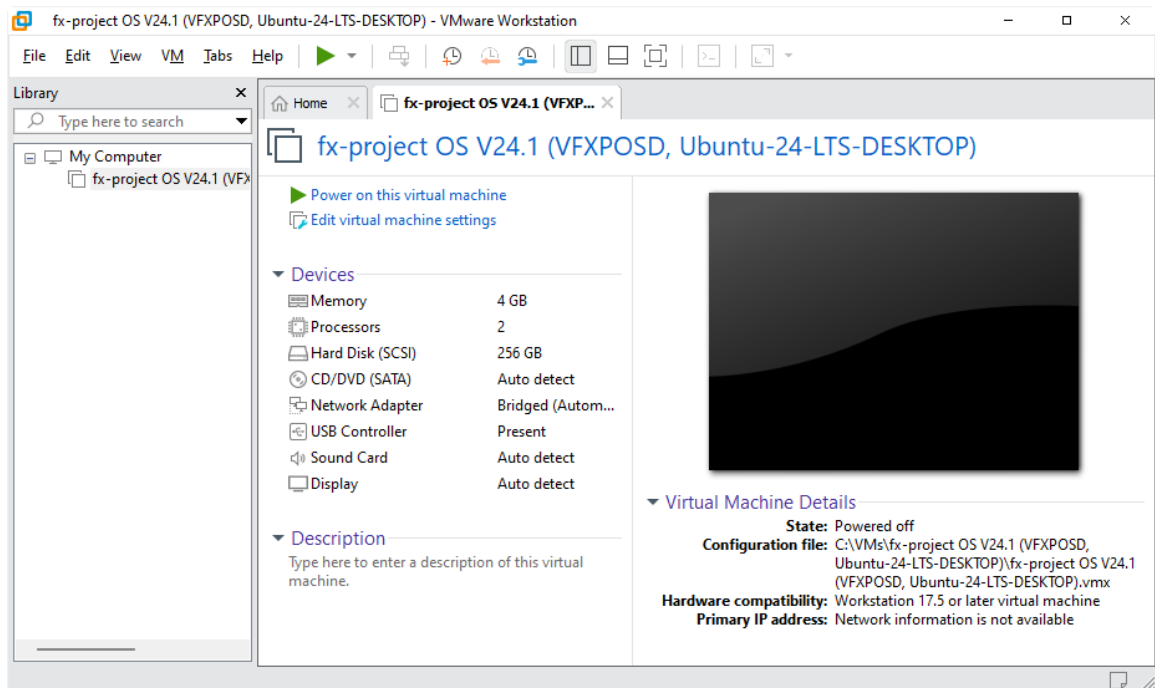
(Figure 29: The screenshot may differ depending on language/version)

Once all settings have been completed, click on the bottom right on **OK**.



3.5 Start fx-project VMware (Desktop)

Back on the start window, select the customized virtual "**fx-project OS V24.1 (VFXPOSD, Ubuntu-24-LTS-DESKTOP)**" machine on the left-hand side ...



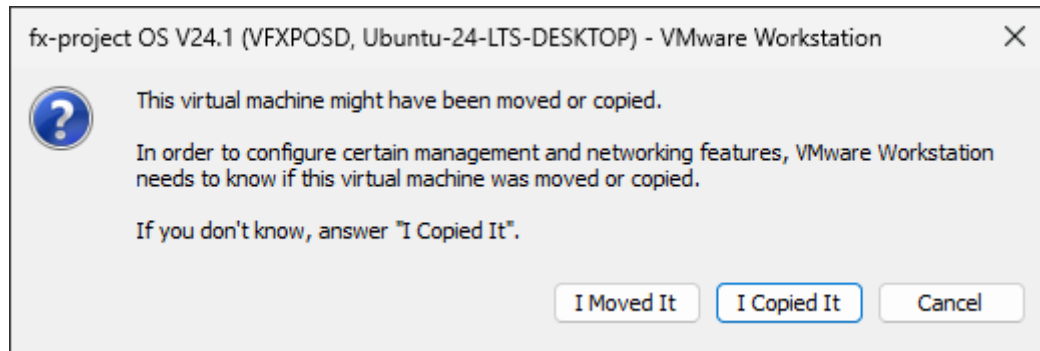
(Figure 30: The screenshot may differ depending on language/version)

... and click **Power on this virtual machine** at the top left to start the virtual machine.



The following information window appears on the first start, as your hardware is of course different from the hardware of the creator of the virtual machine.

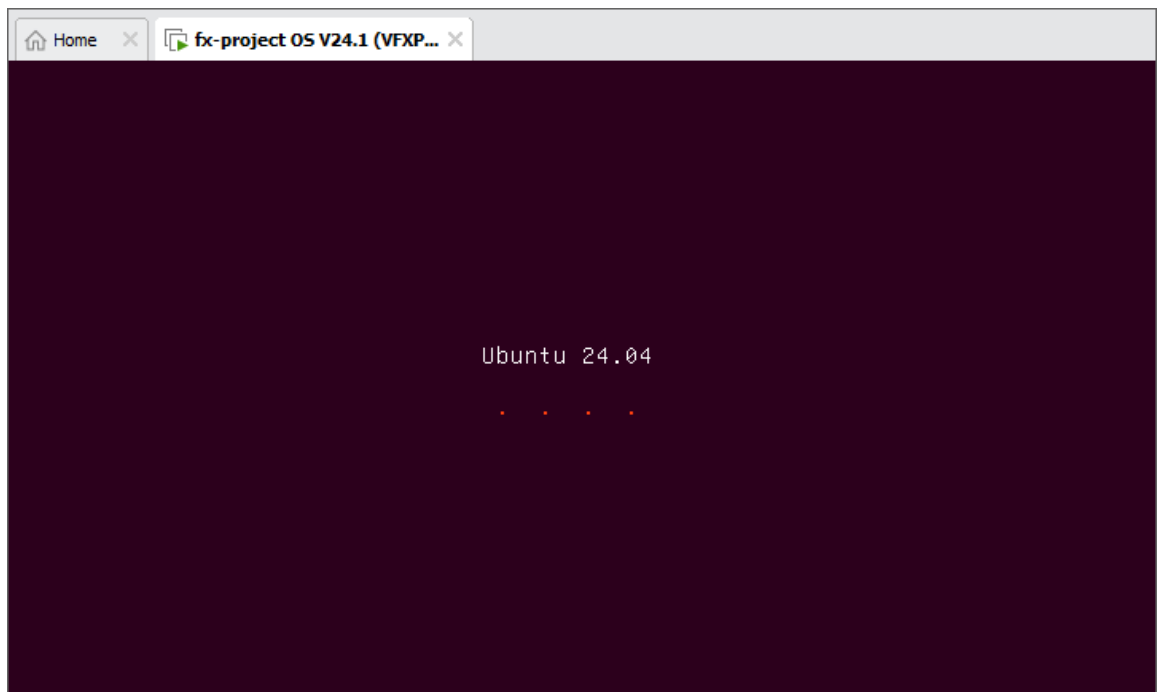
This window also appears if you copy or move the virtual machine to another folder.



(Figure 31: The screenshot may differ depending on language/version)

Click on the button **I Copied It**.

While the virtual "fx-project Open Source" machine is being started, you will see the loading screen of the Ubuntu operating system.



(Figure 32: The screenshot may differ depending on language/version)



Once the virtual Ubuntu operating system has finished loading, you will see the Ubuntu desktop, i.e. the start screen.

By default, you are logged in as user "**fxp**" with the password "**fxproject**".



(Figure 33: The screenshot may differ depending on language/version)

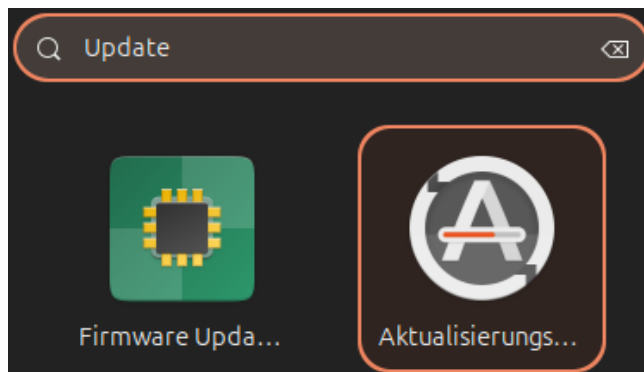


3.6 Update Ubuntu (DESKTOP)

To update Ubuntu, we recommend the following two options now (and later at appropriate intervals, e.g. every 14 days):

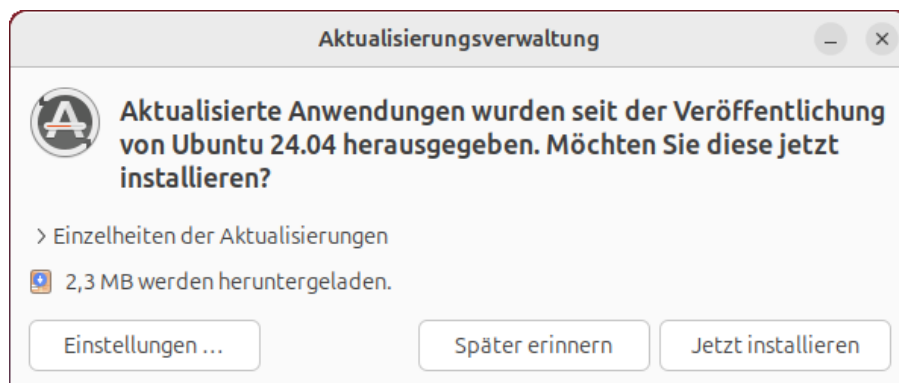
Update option 1:

Click on the "Activity overview"  at the top left and enter "**Update**" in the search field. Then click on the "**Software Updater / Aktualisierungsverwaltung**" program.



(Figure 34: The screenshot may differ depending on language/version)

The system will now check whether updates are available. If updates are found, you can install them by clicking on the button **Install Now / Jetzt installieren**.



(Figure 35: The screenshot may differ depending on language/version)

Before the updates can be downloaded and installed, you must authenticate yourself - the default password is "**fxproject**".



Update option 2:

Open a terminal (the Ubuntu shell), i.e. click on the corresponding icon on the left.



Switch to the main/admin user "root" by entering...

➤ `su - root`

The default password is "**fxproject**"

...and enter the following commands to update the system:

- `apt -y update && apt -y upgrade && apt -y dist-upgrade`
- `apt -y autoremove && apt -y autoclean`

To restart Ubuntu after the update, enter the following command:

➤ `reboot`



3.7 Start fx-project Open Source

To start fx-project Open Source, double-click on the fx-project Open Source icon in the top left-hand corner.



This opens the standard browser "Firefox" on the virtual system and calls up the fx-project Open Source HTML start page.

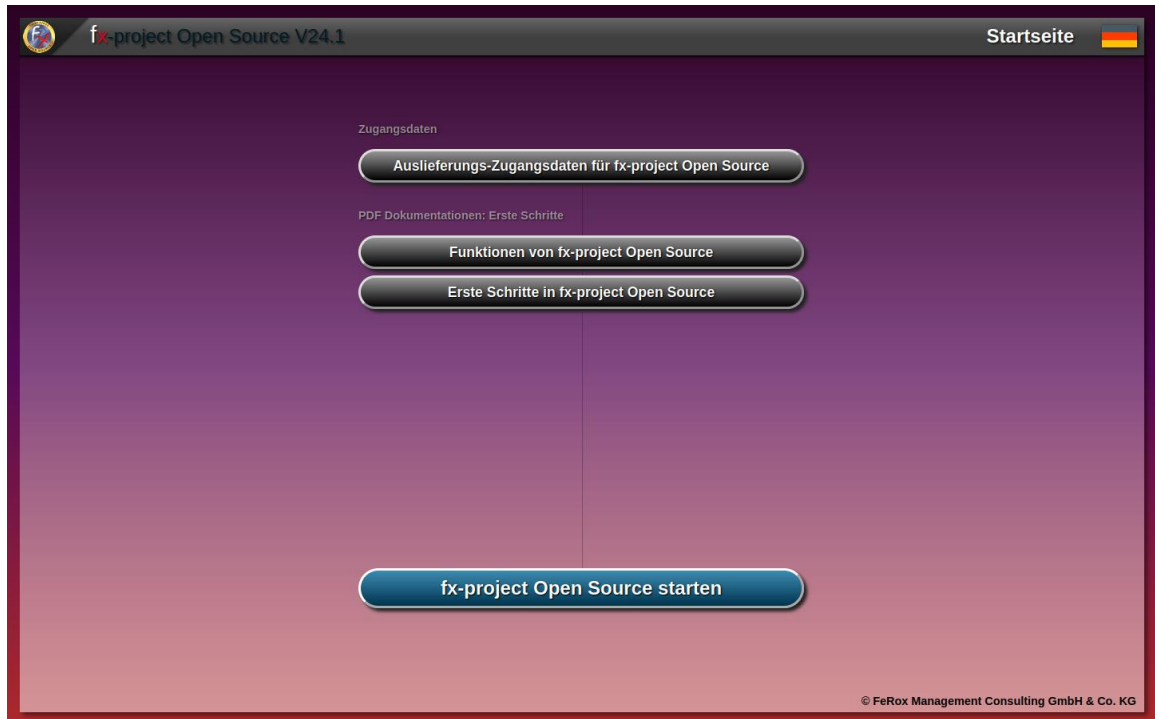
If the page is not displayed, you can simply enter the corresponding URL of the computer name in the address bar.

<http://vfxposd>

You can switch to full screen mode by pressing the function key [F11]. You can also exit full screen mode again using the same key.



The English start page (homepage) is displayed by default. To switch between English and German you can simply click on the "flag" in the top right-hand corner.



(Figure 36: The screenshot may differ depending on language/version)

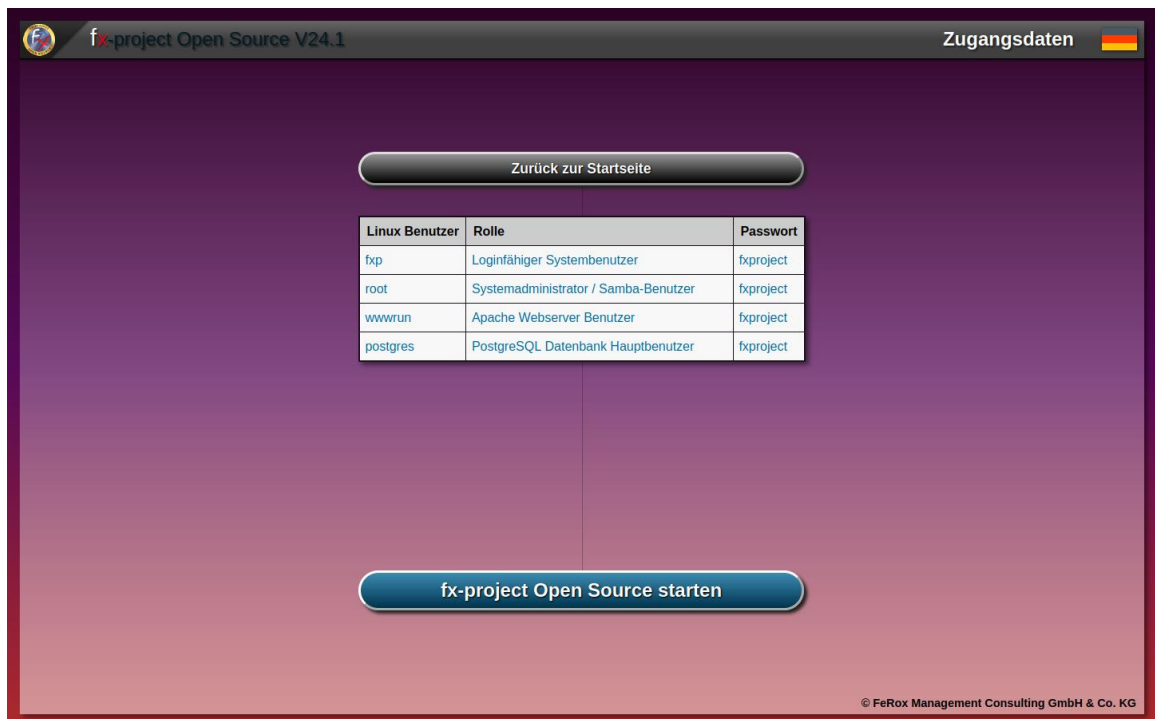
To view the delivery access data click on the button
Delivery access data for fx-project Open Source.

To start fx-project or the installation click on the button
Start fx-project Open Source.



The delivery access data for all users created on this Ubuntu operating system are listed here.

The password for all created users is by default **"fxproject"**.



(Figure 37: The screenshot may differ depending on language/version)



Hinweis:

For security reasons, you should change the passwords now before you start fx-project - especially the password of the "root" system administrator!

The passwords can also be changed later at any time.

To start fx-project or the installation click on the button
fx-project Open Source starten.




3.8 Install fx-project Open Source

The installation of fx-project Open Source in the virtual machine is similar to the installation of fx-project on your own server and is described in detail in the PDF "**fx-project Installation**" in the "**Documentation**" tab on our homepage:

<https://www.fx-project.org/en/documentation.html>

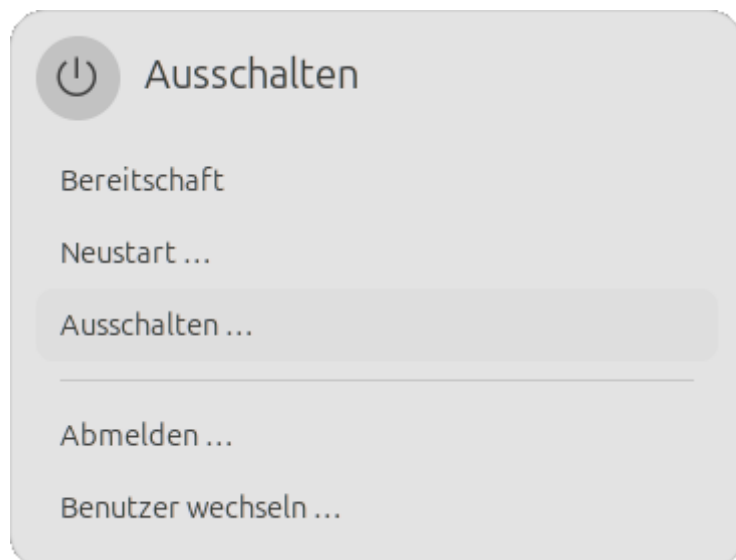
You will also find further useful instructions such as "**fx-project Update**" for updating or "**fx-project Patch**" for patching fx-project Open Source.

3.9 Shut Down the Virtual Computer (DESKTOP)

You can shut down the virtual computer by clicking on the title bar  at the top right and selecting from the pop-up submenu:



➤ **Power Off... / Ausschalten...**



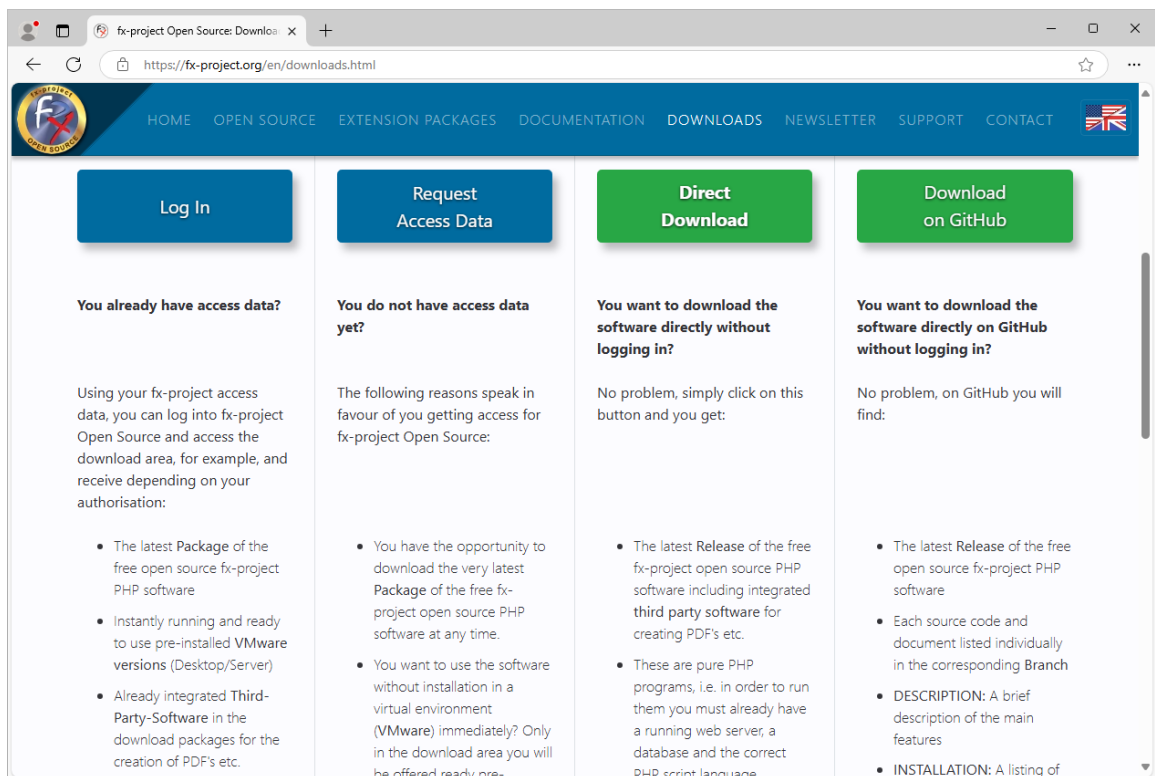
(Figure 38: The screenshot may differ depending on language/version)



4 fx-project Open Source - VMware (SERVER)

4.1 Download fx-project VMware (SERVER)

On our website <https://www.fx-project.org/en/> you will find the latest version of fx-project Open Source including documentation, manuals, patches and/or extension packages in the [Downloads] section.



(Figure 39: The screenshot may differ depending on language/version)

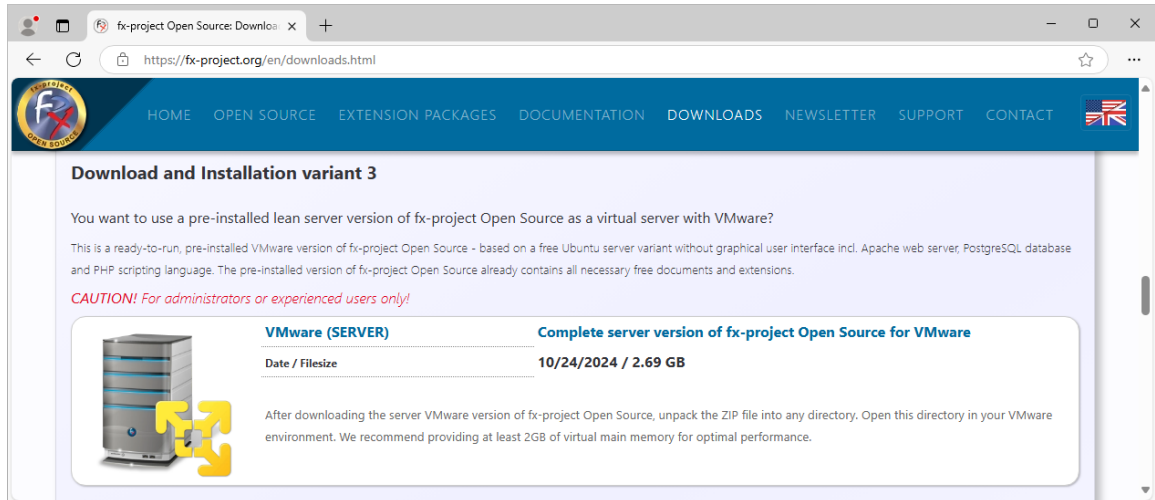


Hinweis:

To access the download area of fx-project you need valid access data. If you do not yet have access data, you can request new access data.



After logging in, you will see a list of all available downloads.



(Figure 40: The screenshot may differ depending on language/version)

Download the latest Server version for VMware.

VMware (SERVER):

This is a ready-to-run, pre-installed VMware version of fx-project Open Source - set up on a free Ubuntu server variant without a graphical user interface, including Apache web server, PostgreSQL database and PHP scripting language. The pre-installed version of fx-project Open Source already contains all the necessary free documents and extensions.



Hinweis:

The server version is smaller, slimmer and more resource-efficient - but has no graphical user interface and no mouse control, i.e. commands must be entered in a so-called command line tool or shell.



4.2 Unpack fx-project VMware (SERVER)

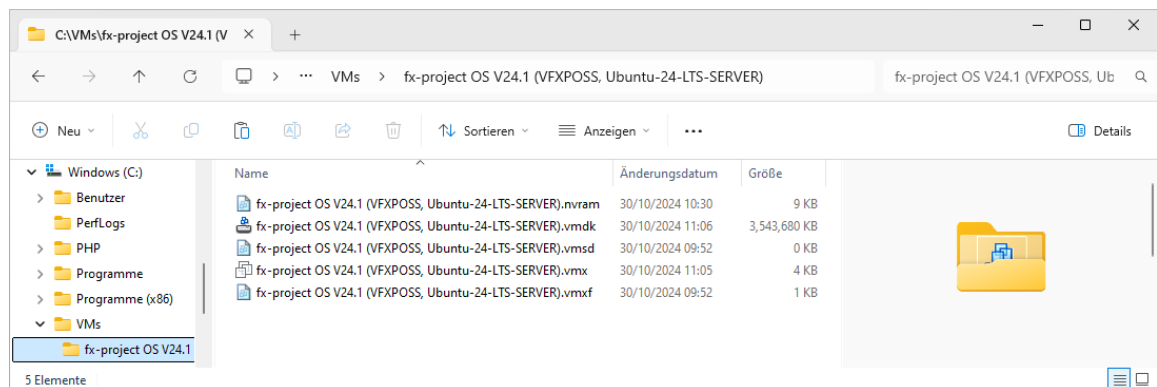
Unpack the downloaded ZIP file into an appropriate folder.

We recommend, for example, creating a new **"VMs"** folder directly on your fastest hard disk, preferably on an SSD or NVMe hard disk. There should be at least 32 GB free space on the hard disk, ideally 128 GB or more to prevent possible problems later when the amount of data in fx-project grows due to daily use.

To do this, right-click on the ZIP file and select **"Extract all..."**. Select your target folder as the folder, e.g. **"C:\VMs"**.

In our example, the folder structure after unpacking the ZIP file is as follows

- C:
 - VMs
 - fx-project OS V24.1 (VFXPOSS, Ubuntu-24-LTS-SERVER)



(Figure 41: The screenshot may differ depending on language/version)



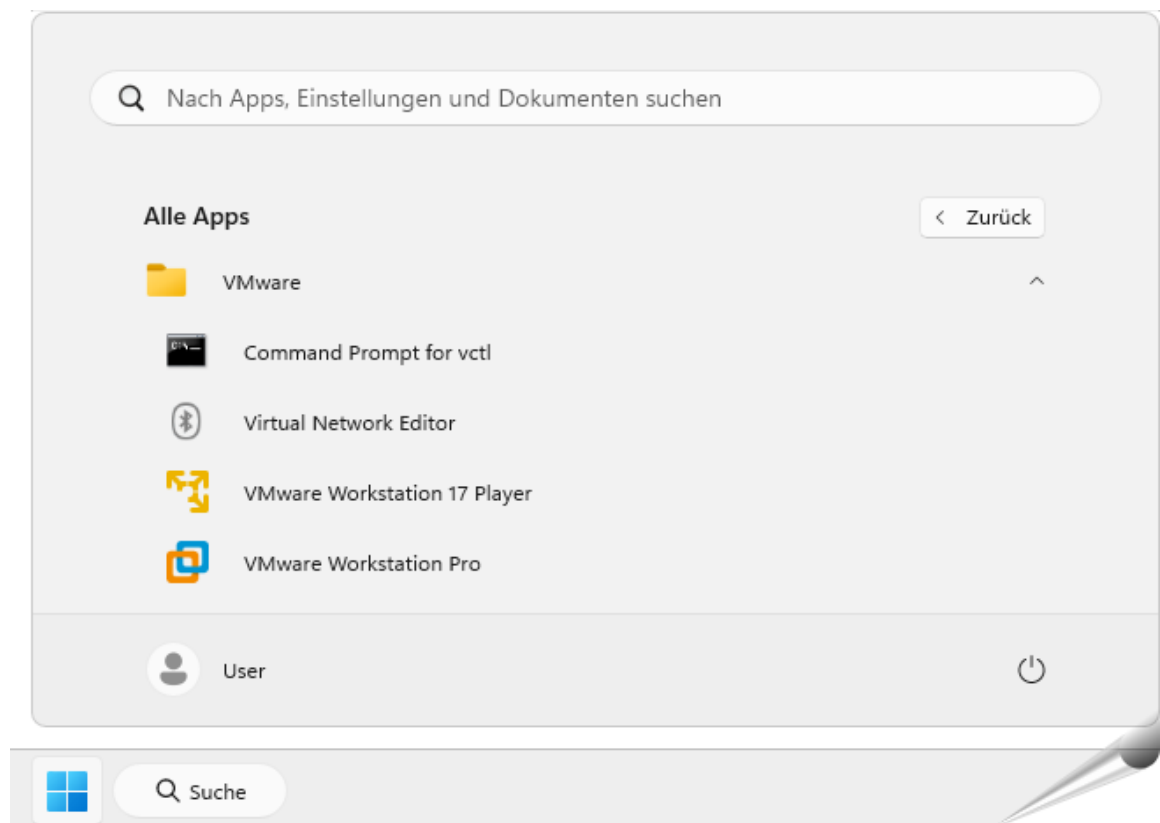
4.3 Start VMware

fx-project Open Source VMware (SERVER) is a virtual operating system with all required pre-installed components for the virtualization software product VMware.

These components are:

- ➔ **Operating system:** Ubuntu 24.04.1 LTS 64bit (*LTS = Long Term Support*)
- ➔ **Computer name:** vfxposs
- ➔ **Web server:** Apache 2.4.58
- ➔ **Database:** PostgreSQL 16.4
- ➔ **Script language:** PHP 8.3.6

To be able to use fx-project Open Source, you must start "**VMware Workstation Pro**" or another supported VMware program. To do this, open the Windows start menu, for example, and click on the corresponding entry ...



(Figure 42: The screenshot may differ depending on language/version)

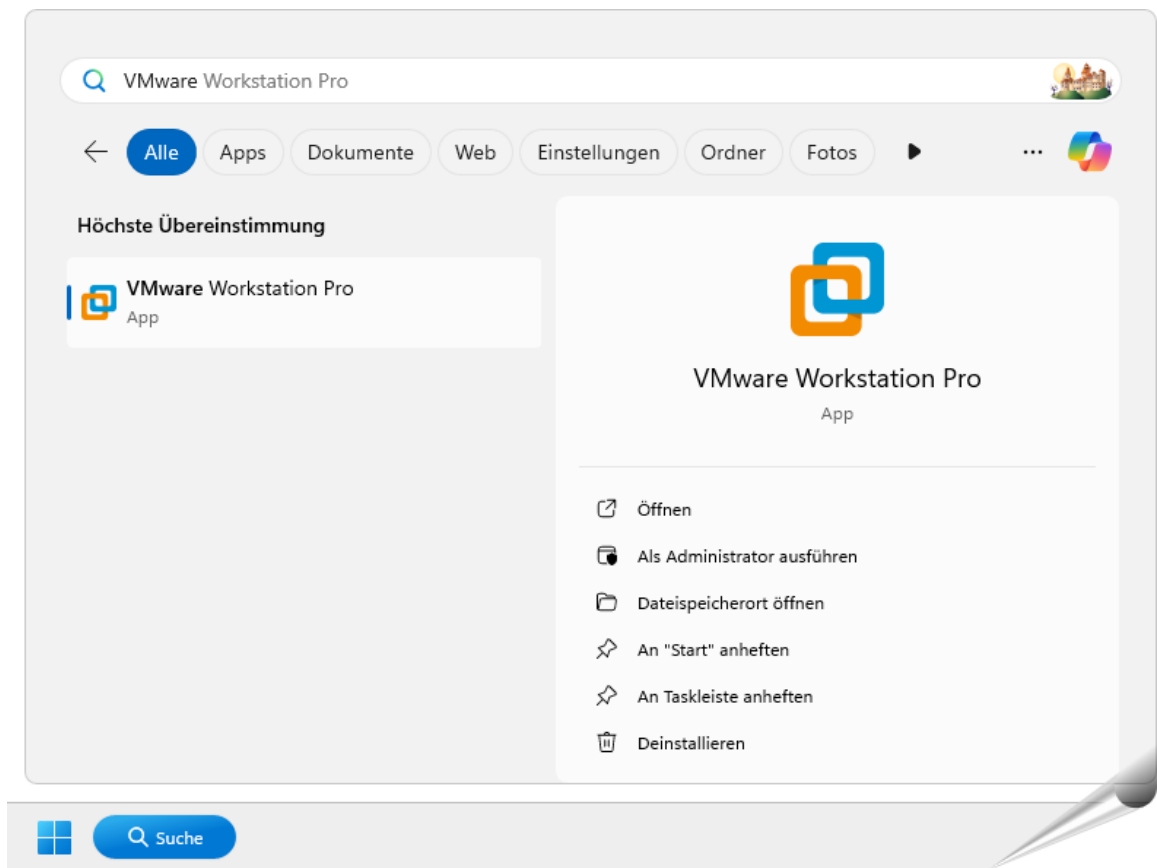


... or click on the corresponding icon on your desktop ...



(Figure 43: The screenshot may differ depending on language/version)

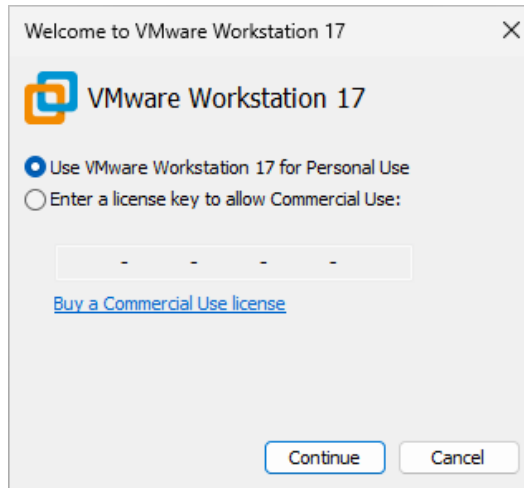
... or use the search function.



(Figure 44: The screenshot may differ depending on language/version)



When you start VMware Workstation Pro for the first time, you will be asked whether you want to use the free version for personal use or whether you already have a license key. If you have a license key, you can enter it here.



(Figure 45: The screenshot may differ depending on language/version)

Click on the button **Continue**.

You will see a small "Thank you" window before the actual start.



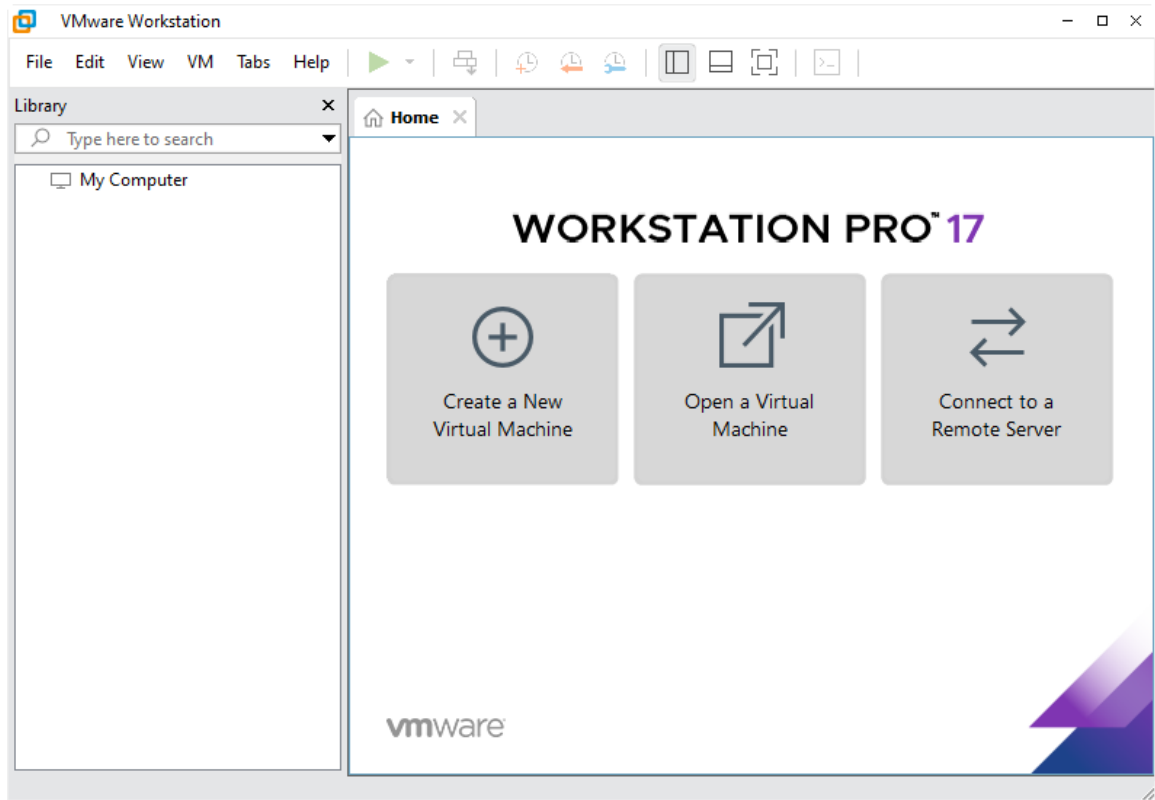
(Figure 46: The screenshot may differ depending on language/version)

Click on the button **Finish**.



4.4 Integrate fx-project VMware (SERVER)

This is now the actual start screen of VMware Workstation Pro, but it does not yet have any virtual machines to run.



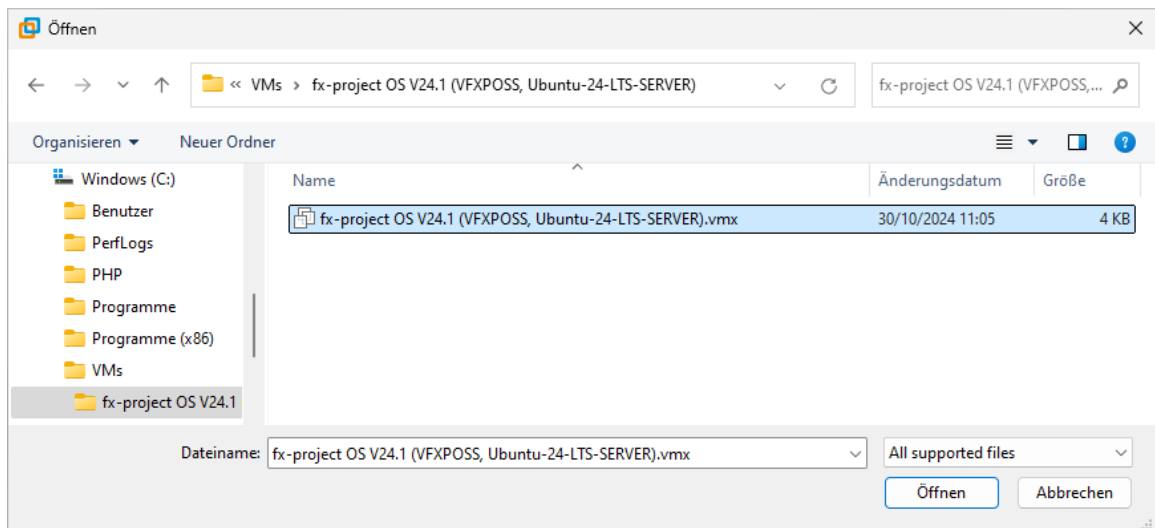
(Figure 47: The screenshot may differ depending on language/version)

To integrate the virtual "fx-project Open Source" machine, click on **Open a Virtual Machine**.



Select the following file from the folder into which you have unpacked fx-project (see point 4.2):

► **fx-project OS V24.1 (VFXPOSS, Ubuntu-24-LTS-SERVER).vmx**

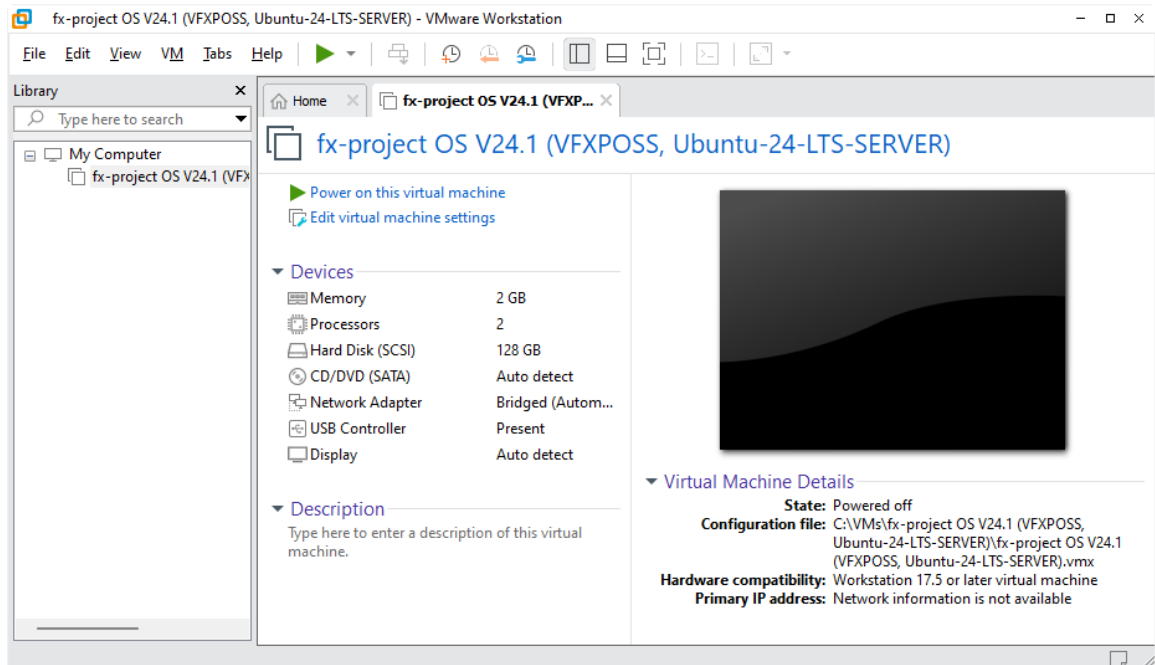


(Figure 48: The screenshot may differ depending on language/version)

Click on the button **Open / Öffnen**.



On the left-hand side (Library), select the now existing virtual machine "**fx-project OS V24.1 (VFXPOSS, Ubuntu-24-LTS-DESKTOP)**" ...



(Figure 49: The screenshot may differ depending on language/version)

... and click on **Edit virtual machine settings** at the top left to adjust certain settings to your system environment.



Hinweis:

These settings can be changed at any time if the virtual machine is too slow, has no internet connection or similar. Feel free to experiment to find the best values for your system.

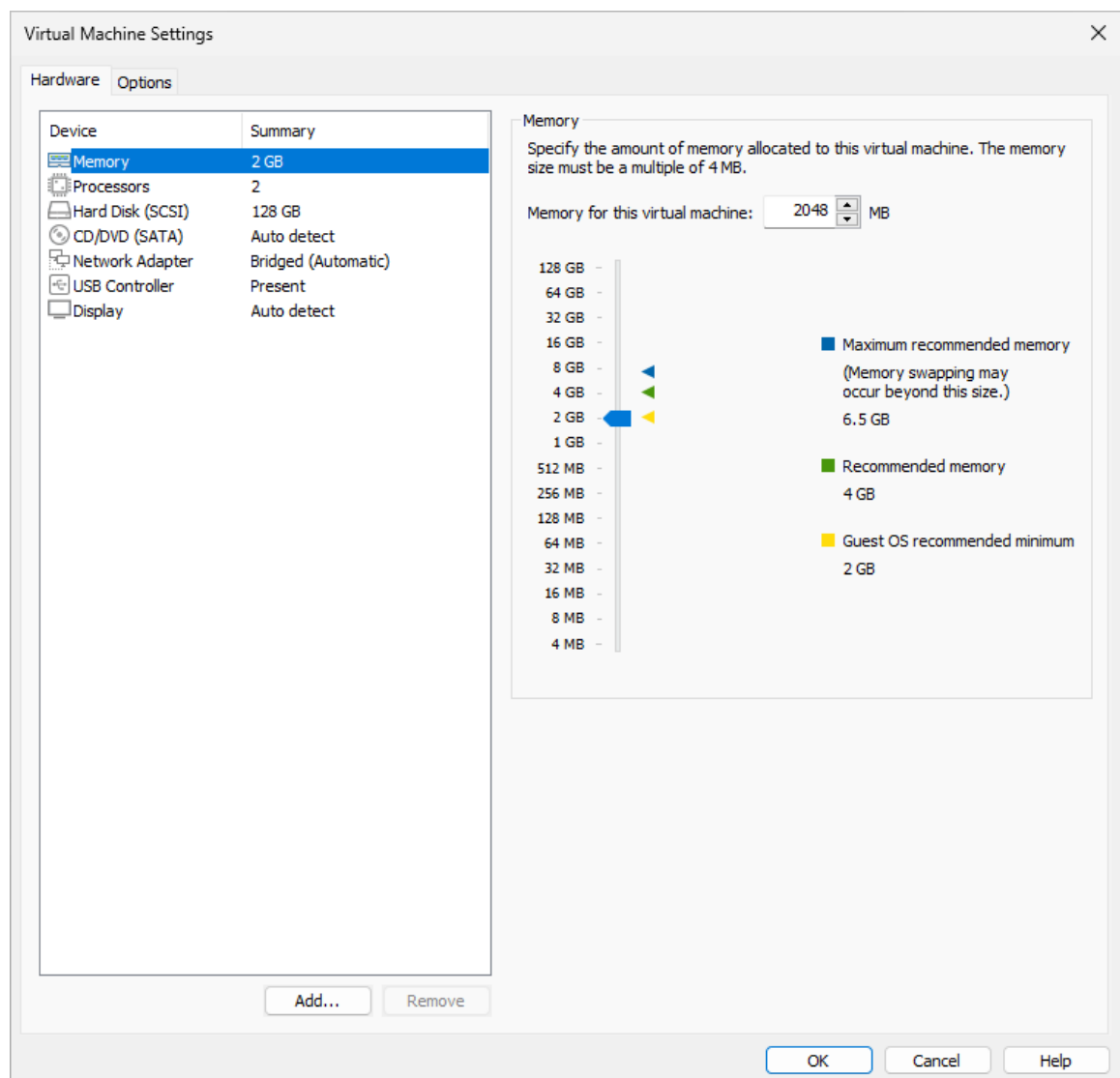
Important! Some values can only be changed when the virtual machine is shut down (State: Powered off).



On the left-hand side, you can see the simulated hardware components of this virtual machine. Here is a list of the three most important ones.

In the "**Memory**" setting for the virtual main memory, you can specify the available size.

At least 1 GB (= 1024 MB) should be made available here; 2 GB (= 2048 MB) or more is optimal if your system has sufficient free main memory.

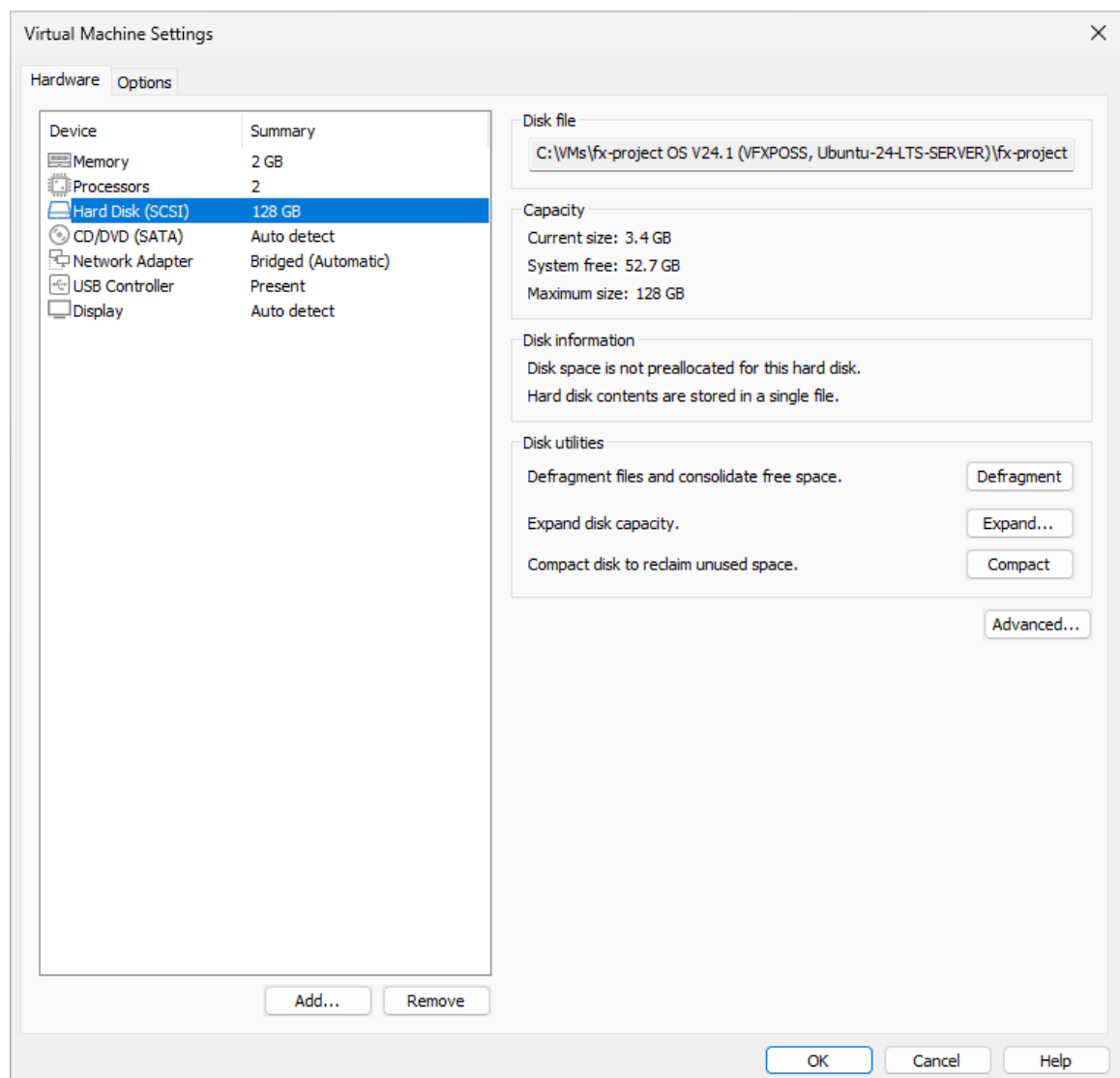


(Figure 50: The screenshot may differ depending on language/version)



In the setting for the virtual hard disk "**Hard Disk**" , you can expand the maximum size "**Expand**" and run various hard disk tools, such as defragmenting the hard disk "**Defragment**" or reducing the file size "**Compact**".

For speed reasons, you should perform a "**Defragment**" and "**Compact**" approximately every two weeks. Of course, it is also advisable to perform these actions before backing up the virtual machine.



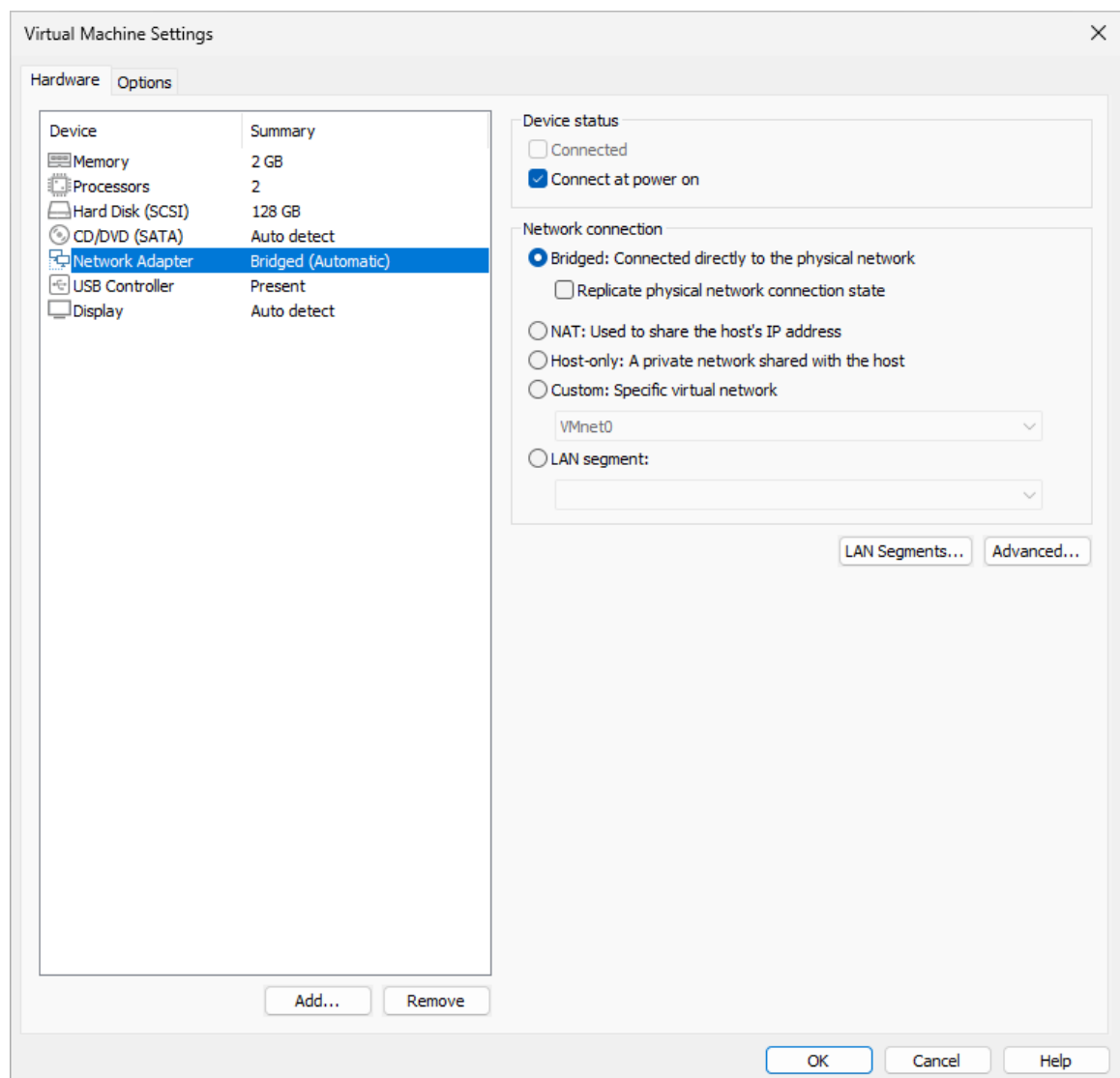
(Figure 51: The screenshot may differ depending on language/version)



The setting that can cause the most problems is the one for the virtual network card "**Network Adapter**", as this is used differently on every system.

Unfortunately, only trial and error will help here.

In our experience, "**Bridged**" is the most promising option. If you have several network cards in your system, you can use "**Configure Adapters**" to select the one that the virtual machine should use.



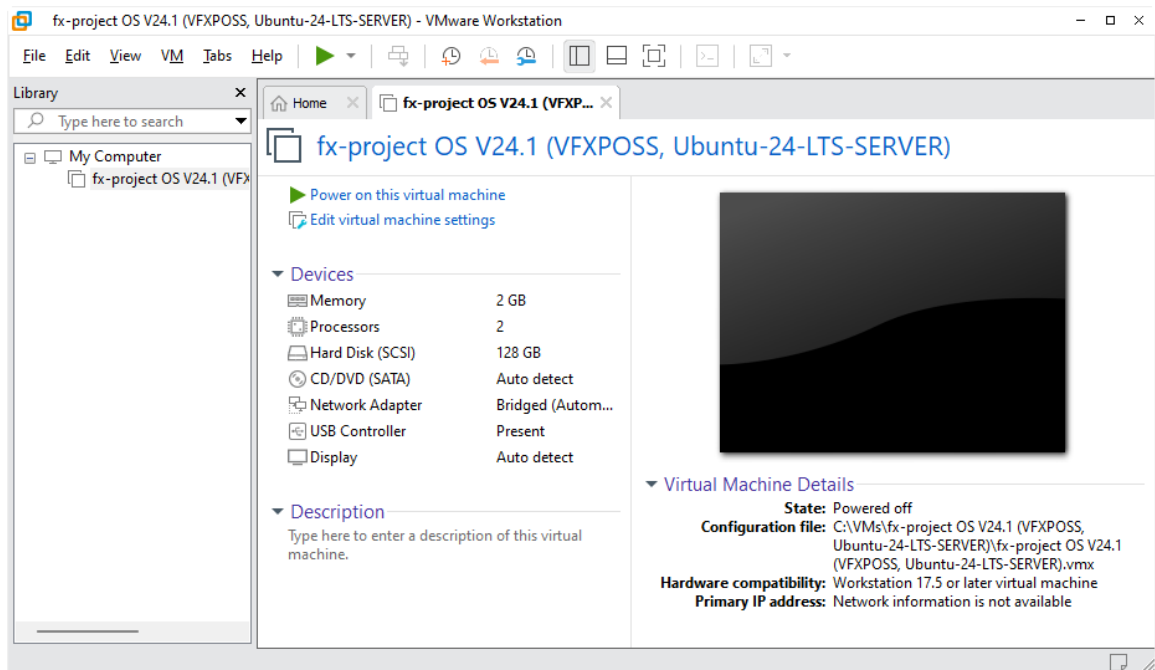
(Figure 52: The screenshot may differ depending on language/version)

Once all settings have been completed, click on the bottom right on **OK**.



4.5 Start fx-project VMware (SERVER)

Back on the start window, select the customized virtual "fx-project OS V24.1 (VFXPOSS, Ubuntu-24-LTS-SERVER)" machine on the left-hand side ...



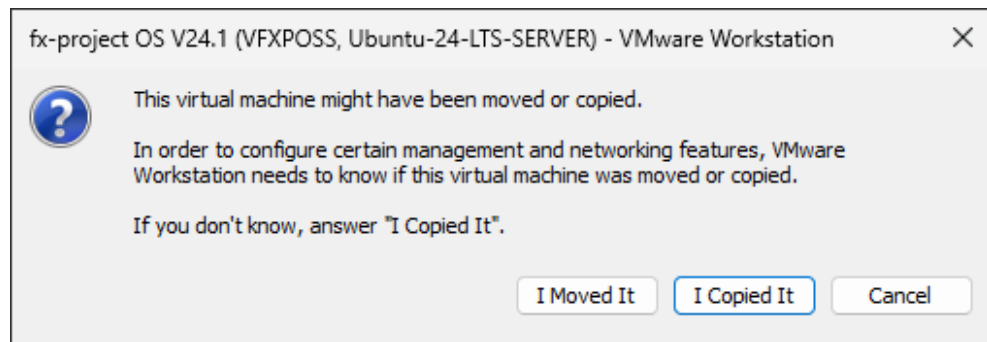
(Figure 53: The screenshot may differ depending on language/version)

... and click **Power on this virtual machine** at the top left to start the virtual machine.



The following information window appears on the first start, as your hardware is of course different from the hardware of the creator of the virtual machine.

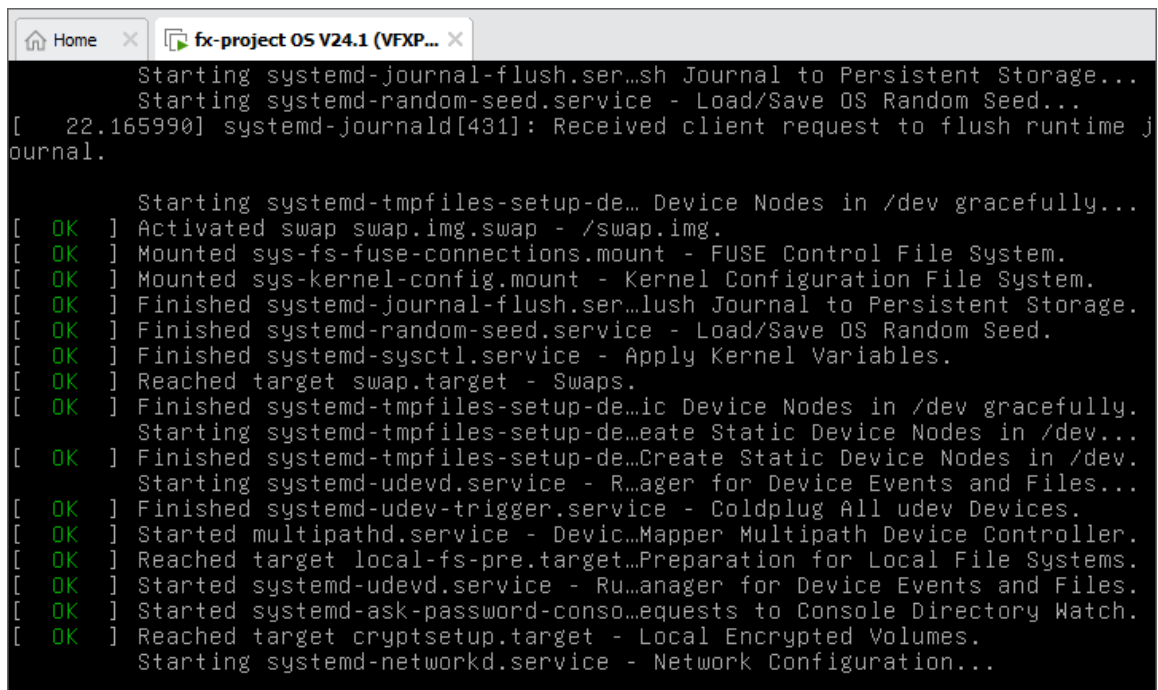
This window also appears if you copy or move the virtual machine to another folder.



(Figure 54: The screenshot may differ depending on language/version)

Click on the button **I Copied It**.

While the virtual "fx-project Open Source" machine is being started, you will see the loading screen of the Ubuntu operating system.



(Figure 55: The screenshot may differ depending on language/version)



Once the virtual Ubuntu operating system has finished loading, you will see the Ubuntu shell, i.e. the command line app for administrating the server.

Log in as user "**root**" with the default password "**fxproject**".

```
Ubuntu 24.04.1 LTS vfxposs tty1
vfxposs login: root
Password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-47-generic x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/pro

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
root@vfxposs:~# _
```

(Figure 56: The screenshot may differ depending on language/version)



Hinweis:

For security reasons, you should change the passwords now before you start fx-project - especially the password of the "root" system administrator!

The command to change the password of the current user is:

→ passwd

The command to change the password of another user is:

→ passwd <username>

The passwords can also be changed later at any time.



The following users have been created on this Ubuntu server:

Linux Benutzer	Rolle	Passwort
fxp	System user with login capability	fxproject
root	System administrator / Samba user	fxproject
wwwrun	Apache webserver user	fxproject
postgres	PostgreSQL database main user	fxproject

4.6 Update Ubuntu (SERVER)

To update Ubuntu, we recommend that you enter the following commands in the Ubuntu shell as the logged-in user "root" now (and later at appropriate intervals, e.g. every 14 days):

- `apt -y update && apt -y upgrade && apt -y dist-upgrade`
- `apt -y autoremove && apt -y autoclean`

To restart Ubuntu after the update, enter the following command:

- `reboot`



4.7 Start fx-project Open Source

You now have a fully functional server and can start fx-project Open Source directly in your browser. Simply enter the corresponding URL of this computer name in the address bar.

<http://vfxposs>



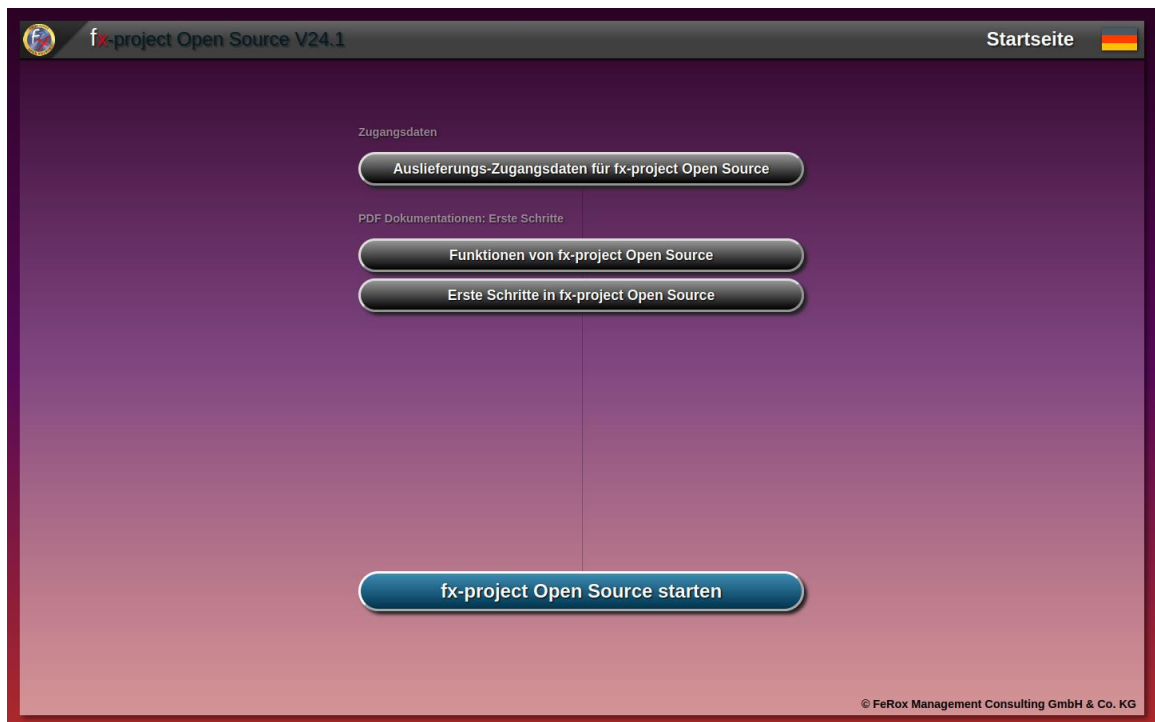
Hinweis:

This computer name is normally recognized correctly by your router and forwarded to the corresponding computer in your network environment.

If this is not the case for you, you can also start fx-project by entering the IP address of the server, e.g. <http://127.0.0.1>.



The English start page (homepage) is displayed by default. To switch between English and German you can simply click on the "flag" in the top right-hand corner.



(Figure 57: The screenshot may differ depending on language/version)

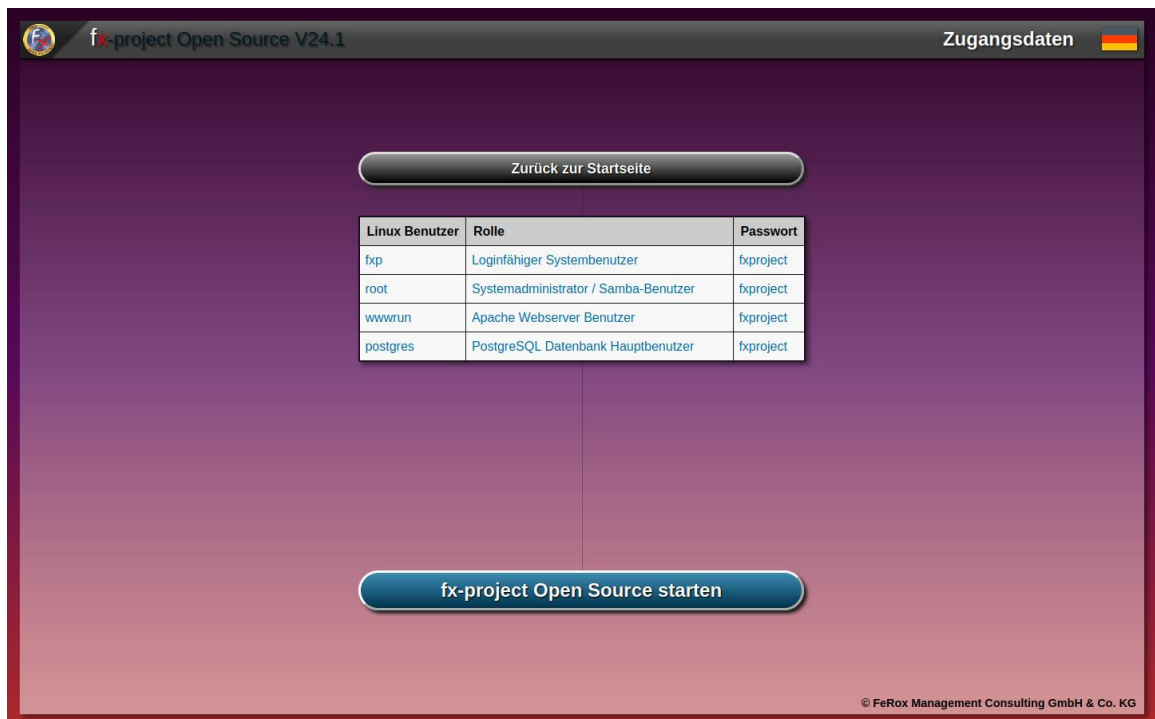
To view the delivery access data click on the button
Delivery access data for fx-project Open Source.

To start fx-project or the installation click on the button
Start fx-project Open Source.



The delivery access data for all users created on this Ubuntu operating system are listed here.

The password for all created users is by default **"fxproject"**.



(Figure 58: The screenshot may differ depending on language/version)

To start fx-project or the installation click on the button **fx-project Open Source starten**.



4.8 Install fx-project Open Source

The installation of fx-project Open Source in the virtual machine is similar to the installation of fx-project on your own server and is described in detail in the PDF "**fx-project Installation**" in the "**Documentation**" tab on our homepage:

<https://www.fx-project.org/en/documentation.html>

You will also find further useful instructions such as "**fx-project Update**" for updating or "**fx-project Patch**" for patching fx-project Open Source.

4.9 Reboot / Shut Down the Virtual Computer (SERVER)

You can reboot or shut down the virtual server by entering the following command lines as the "root" user in the Ubuntu shell:

Rebot server:

➤ `reboot`

Shut down server:

➤ `shutdown -h now`



5 Troubleshooting

5.1 User password in Ubuntu is not accepted

The default password for all users and installed services is **fx-project**.

If this is not accepted in your case, this may be due to the following reasons:

➔ The password has already been changed by an administrator.

Solution:

Unfortunately, the only solution is to get the password from the administrator or to reset the virtual machine, i.e. to reinstall it.

➔ You are using a different keyboard layout than the one stored in the VM installation.

Solution 1:

Try to enter the password on your main computer, e.g. in a text editor, and then transfer it to the VM using cut & paste.

Solution 2:

Enter the password instead of the user name to see if there are any differences. If you see a different character on the screen instead of the expected character, try all special characters until you see the correct character on the screen. Such a problem character with different keyboards can be e.g. the minus sign "-".

Then, when you are logged in, you can change the keyboard layout in Ubuntu in the shell by entering the following command:

```
dpkg-reconfigure keyboard-configuration
```




6 Acknowledgement



Thank you for choosing fx-project Open. By purchasing extension packages you support us and ensure the continuity of this software.

We wish you

Good Luck !



7 Third-Party Software Notice

For third-party software, the provisions of the respective manufacturer and its license rights shall apply. License rights of third-party software are only included if they are expressly agreed in the contract (operating system, database system, etc.).

**Notice:**

FeRox Management Consulting GmbH & Co. KG does not assume any liability for third-party software!