



QUICK GUIDE

FOR NEW AMIKIT 11.5 AND HIGHER

Document last updated on 23-June-2025
Looking for [pre-11.5](#) or [Vampire](#) guide instead?

Get in touch



“This is the real secret of life -- to be completely engaged with what you are doing in the here and now. And instead of calling it work, realise it is play.” (Alan W. Watts)

www.amikit.amiga.sk

Congratulations!

on purchasing the most complete & up-to-date Amiga world in a modern suit!



*I released my first AmiKit in 2005 and since then I've been constantly improving it.
Today you have the privilege of running the latest and greatest version.
I hope you enjoy AmiKit as much as I enjoyed creating it -- Ján*

WHAT'S NEW?

[CHANGELOG](#)

CREDITS

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And of course [the authors of installed programs](#), thanks for your permissions!

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AMIKIT INSTALLATION

REQUIREMENTS

First of all, you need either 64-bit PC with [Windows](#) (or even [without it](#))
or [Mac](#), [Linux](#), [Raspberry Pi](#) or [Amiga with PiStorm](#) or [Vampire](#)

For AmiKit to work you do need AmigaOS & ROM files [available for purchase here](#)

Note that for the PiStorm edition of AmiKit you need [AmigaOS 3.2](#)

Recommended AmigaOS & ROM edition

- [Amiga Forever](#) 7 or newer (non-modified [ISO](#) image or installed on Windows)
It includes everything you need to run AmiKit (not for the PiStorm edition!)
 - [AmigaOS 3.2](#) (only for the PiStorm or Vampire edition of AmiKit)
You can always update your existing AmiKit installation with OS3.2 with the help of Morpheuz.
AmiKit will import all required files automatically
-

Other supported good old AmigaOS editions (not by the PiStorm AmiKit!)

(they don't include the required Kickstart ROM 3.1 file, though)

- AmigaOS XL CD or ISO (the best option if you don't have Amiga Forever)
 - AmigaOS 3.9 CD or ISO (the second best option)
 - AmigaOS 3.5 CD or ISO
-

The oldest but still supported AmigaOS edition (not by the PiStorm AmiKit!)

(it also includes the required Kickstart ROM 3.1)

- AmigaOS 3.1 located on AmigaOS4.1 FE (see the [limitations](#))
-

Once AmiKit (not the PiStorm edition, though) is installed with one of the AmigaOS versions above, you can install [AmigaOS 3.2](#) on top of it using the [Morpheuz](#) tool (at your own risk, though)



64-bit WINDOWS

64-bit Windows 7 or newer with 1920x1080 FullHD monitor (or at least 1366x768)

STEP 1: Launch the installer to **INSTALL AMIKIT** to your preferred location. Internet connection is required. If you're asked about your **Customer ID**, you will find it at the bottom of your personal webpage from which you downloaded your installer. Note that AmiKit is 64-bit ready now (and requires [vc_redist_x64](#) too, if not already installed). However, it's still installable on 32bit machines too - just use the 32bit executables then.

STEP 2:

- IF [AMIGA FOREVER](#) IS INSTALLED on your Windows, just proceed to the next step.
- IF YOU HAVE [AMIGA FOREVER ISO](#), just double-click it in Windows to mount it now.
- IF YOU HAVE [ANY OTHER SUPPORTED AMIGAOS ISO](#), double-click it in Windows to mount it. In case it doesn't include the required Amiga Kickstart ROM 3.1 (A1200) file, you need to copy it into the AmiKit/RabbitHole/ROMs folder and name it **kick.rom** (for more details see the text file located in there). Or just use our RomFind.exe program to locate and install the ROMs for you.

STEP 3: LAUNCH AMIKIT, click the big LAUNCH button and follow the prompts:

- [AmigaOS](#) will be detected and installed automatically. If not, make sure that Amiga Forever is installed OR one of the supported AmigaOS ISO files is mounted in Windows. Simply double-click the ISO file in Windows and it gets mounted.
- AmiKit will download and install the required [Picasso96](#) graphics driver automatically. If not, download it manually and place the archive into the AmiKit/RabbitHole folder.
- Once the AmigaOS files are imported, AmiKit will quit and in the next step you will be asked to launch it again.

STEP 4: LAUNCH AMIKIT AGAIN (click the big LAUNCH button again). This time you will be asked to **select the default screen resolution** for Amiga. Choose your preferred screen mode in 32bit and **click the SAVE** button.

TIPS & TRICKS:

- The 1920x1080x32 resolution is recommended. If you select a lower resolution, you can use the [Morpheus](#) tool later to make the GUI element smaller on the smaller screens.
- To change how the given Amiga screen is displayed on your computer (in Window, Full-Window or Full-Screen mode), press F12 anytime and adjust WinUAE/Display Native & RTG settings. The Full-Window (default) is recommended for [RabbitHole](#) to work properly. To save your modified settings, in the WinUAE/Configurations section mark the "AmiKit Default Configuration" entry (by clicking on it once) and press the Save button.
- You can change the Amiga screen resolution anytime later with the AmiKit:Prefs/ScreenMode program. Or just type AmiKitReset in Shell/CLI and reboot.

TROUBLESHOOTING:

- If your AmiKit desktop **does not look sharp** in Full-windowed mode, try setting a different 32-bit screen mode resolution with the *AmiKit:Prefs/ScreenMode* program.
- If you experience shuttering while moving windows, in [WinUAE](#) Misc settings switch the Graphics API from Direct3D11 to **Direct3D9** BEFORE you start the emulation.

ENJOY! For more suggestions check the [Tips & Tricks](#) chapter.



AmiKit (Wine/WinUAE Edition) for macOS 10.15 (Silicon/Intel)

STEP 1: MOVE AMIKIT APP INTO YOUR APPLICATIONS FOLDER

STEP 2: IF YOU HAVE [AMIGA FOREVER ISO](#) file, just proceed to the next step.

NOTE: Did you purchase **Amiga Forever** and all you got is a Windows-only MSI installer? No worries, you can create an Amiga Forever ISO easily by using a trial version of [CrossOver](#): In CrossOver select "Install a Windows application", type "Amiga Forever", and select "unlisted application". Now select "Choose installer file" and point it to your purchased Amiga Forever MSI file. Once Amiga Forever is installed and running, select Tools > [Build Image](#) option and build the ISO image file.

IF YOU HAVE [ANY OTHER SUPPORTED AMIGAOS ISO](#), you need to copy the Amiga Kickstart ROM 3.1 (A1200) into the ROMs folder of the AmiKit app first - go into your Applications folder, right-click the AmiKit app and select "**Show Package Contents**" and go into the **ROMs** folder and copy your ROM file there and name it kick.rom. For more details see the text file located in there.

STEP 3: DOUBLE-CLICK THE AMIKIT APP

If the AmiKit **doesn't start** or macOS says the app is "**damaged**", check the Troubleshooting below.

- **CLICK THE BIG LAUNCH BUTTON** to start the emulation and follow the prompts.
- AmiKit will download & install the required [Picasso96](#) graphics driver automatically. If not, download it manually and place the archive into the RabbitHole folder (which you will find by right-clicking the AmiKit app and selecting the "Show Package Contents" entry).
- Next, you'll be asked for AmigaOS files.

PRESS F12 KEY TO BRING UP THE WinUAE SETTINGS WINDOW:

➤ If you have Amiga Forever ISO or any other supported AmigaOS ISO file

Select the "**CD & Hard drives**" section (under "Hardware"), click the "**Select image file**" button near the bottom of the window to browse for the ISO image file by expanding "**My Computer**" and selecting the **Z:** drive. Browse the **Users/YourProfileName**, find your ISO and click "**Open**"

(Note that there may be a macOS security request that asks you to grant access permissions first)

Then click the "**OK**" button at the bottom of WinUAE main window to return to the AmiKit environment.

- Once the AmigaOS files are detected and imported, AmiKit will quit and in the next step you will be asked to launch it again.

STEP 4: NOW CLICK THE LAUNCH BUTTON AGAIN to start the emulation again.

This time you will be asked to **select a default screen resolution** for Amiga. Choose your preferred **32bit** screen mode and **click the SAVE** button.

TIPS & TRICKS:

- The 1280x800 or 1920x1080x32 resolution is recommended.
- To change how the given Amiga screen is displayed on your computer (in Window, Full-Window or Full-Screen mode), press F12 anytime and adjust WinUAE/Display Native & RTG settings. The Windowed (default) or Full-Window is recommended for RabbitHole to work properly. To save your modified settings, in the WinUAE/Configurations section mark the "AmiKit Default Configuration" entry (by clicking on it once) and press the Save button.
- You can change the Amiga screen resolution anytime later with the AmiKit:Prefs/ScreenMode program. Or just type AmiKitReset in Shell/CLI & reboot.

ENJOY! For more suggestions check the [Tips & Tricks](#) chapter.

TROUBLESHOOTING

FIRST LAUNCH (you'll only need to do this once)

- If macOS refuses to launch the app because it is "**damaged**", please run the following command in the Terminal: `xattr -drs com.apple.quarantine /Applications/AmiKit.app`
If that doesn't help, try the same command just with **sudo** at the beginning.
- If you get this message "**AmiKit cannot be opened because the developer cannot be verified**", click Cancel, then open System Preferences > Security & Privacy > General and click Open Anyway.
- If you get a pop-up advising "**AmiKit would like to access files in your folder**", you need to click OK.
- If you get this message "**AmiKit would like to control this computer using accessibility features**" - click Open System Preferences, click the lock icon and put a tick next to AmiKit.
- If AmiKit still refuses to launch, you probably have to "**Allow apps downloaded from Anywhere**". Choose System Preferences from the Apple menu and click the Security & Privacy settings. If you don't see the "Anywhere" option there, quit out of System Preferences, open the Terminal app from your Applications/Utilities folder and enter the following command
`sudo spctl --master-disable`
Hit return and authenticate with your admin password. Now go back to the Security & Privacy settings and click the "Anywhere" option. Launch the AmiKit app again. It should run now.

MISC

- If your AmiKit desktop **does not look sharp** in Full-windowed mode, try setting some different 32-bit screen mode resolution with the *AmiKit:Prefs/ScreenMode* program.
- If your **joystick/controller doesn't work**, edit amikit.ini file (it's in the same folder as AmiKit.exe) and at the end of the second line add the following parameter: `-norawhd`
- If you experience **shuttering while moving windows**, it might be caused by your Apple Magic Mouse. Either use an USB mouse or switch AmiKit to [Fullscreen](#).

HOW TO REMAP KEYS

- In WinUAE/Input settings you can test and remap your Mac keys to Amiga keys according to your preference.



AmiKit (**Amiberry Edition**) for macOS 13 (Silicon/Intel)

STEP 1: MOVE THE AMIKIT APP INTO YOUR APPLICATIONS FOLDER

AmiKit will work only if named AmiKit and launched from your Applications folder.

STEP 2: RUN TERMINAL

To prevent macOS from complaining that an application is "damaged", open Terminal execute: `xattr -drs com.apple.quarantine /Applications/AmiKit.app`

If that doesn't help, try the same command, just with **sudo** at the beginning.

STEP 2: INSERT YOUR AMIGA OS FILE(S)

Go into your Applications folder, right-click the AmiKit app and select "**Show Package Contents**". You'll see a "**RequiredFiles**" alias there (which points to the Contents/Resources/RabbitHole/RequiredFiles folder).

- ❑ IF YOU HAVE [AMIGA FOREVER ISO](#) file, drop the file there.

NOTE: Did you purchase **Amiga Forever** and all you got is a Windows-only MSI installer? No worries, you can create an Amiga Forever ISO easily by using a trial version of [CrossOver](#): In CrossOver select "Install a Windows application", type "Amiga Forever", and select "unlisted application". Now select "Choose installer file" and point it to your purchased Amiga Forever MSI file. Once Amiga Forever is installed and running, select Tools > [Build Image](#) option and build the ISO image file.

- ❑ or if you have other AmigaOS version such as XL / 3.9 / 3.5

First copy your Amiga Kickstart ROM 3.1 (v40.68) file there and name the file '**kick.rom**'. Copy the given AmigaOS ISO image file there as well.

- ❑ If you have AmigaOS 3.2, first install AmiKit using any AmigaOS version mentioned above, and then use the Morpheuz program in AmiKit to upgrade to AmigaOS 3.2.

STEP 3: LAUNCH THE AMIKIT FROM APPLICATIONS

The Amiberry config window will appear. Go to the **HardDrive/CD** section, click the "**Select image file**" button and choose your AmigaOS ISO file there.

Then press the **Start** button and follow the prompts.

If you get a message "AmiKit cannot be opened because the developer cannot be verified", click Cancel, then open System Preferences > Security & Privacy > General and click **Open Anyway**.

STEP 4: SELECT A SCREEN MODE

Once the AmigaOS files are detected and imported, AmiKit will quit. Then launch it again. The Amiberry config window will appear. Now press the **Start** button.

This time you will be asked to select a default screen resolution for AmiKit. Choose your preferred **32bit** screen mode (ideally the same resolution as you use on your Mac) and click the **SAVE** button.

You can change the AmiKit screen resolution anytime later with the AmiKit:Prefs/ScreenMode program. Or just type AmiKitReset in Shell and reboot.

TROUBLESHOOTING

- **If macOS says the application is damaged**, see the STEP 2 above 😊
- **If the AmiKit app crashes on start**, please in the Application Support folder and Documents folder locate Amiberry folders and delete them.
- **If you cannot access Mac files from AmiKit**, eg. by double-clicking on the AmiKit desktop and selecting Mac:, in macOS Settings > Privacy & Security section, add AmiKit to the Files & Folders and Full Disk Access list.
- **If you have issues with mouse or keyboard controls**, in macOS Settings > Privacy & Security section, add AmiKit to the Accessibility list.



AmiKit (Wine/WinUAE Edition) for Linux x64

STEP 1: You'll need a Linux distro that supports the [PlayOnLinux](#) application. Install it first.

STEP 2: When you start PlayOnLinux, go to the menu "Tools > Run a local script".

Choose the POL_install_AmiKitXE file (included in the AmiKit archive you purchased).

CAUTION: This creates a wine prefix named AmiKitXE. If one exists it will ask you what to do and if you want to overwrite the old one. If this is something you do not want to lose, then cancel the installation and give a different name at line 18 of the script, so that there is no conflict.

Follow the instructions and approve every step. You might see a message about non-valid script signature - ignore it and continue the installation.

STEP 3: IF YOU HAVE [AMIGA FOREVER ISO](#) file, just proceed to the next step.

NOTE: Did you purchase **Amiga Forever** and all you got is a Windows-only MSI installer? No worries, you can create an Amiga Forever ISO easily by using a trial version of [CrossOver](#): In CrossOver select "Install a Windows application", type "Amiga Forever", and select "unlisted application". Now select "Choose installer file" and point it to your purchased Amiga Forever MSI file. Once Amiga Forever is installed and running, select Tools > [Build Image](#) option and build the ISO image file there.

IF YOU HAVE [ANY OTHER SUPPORTED AMIGAOS ISO](#), you need to copy Amiga Kickstart ROM 3.1 (A1200) into AmiKit first. Click the AmiKit entry in PlayOnLinux and select "Open the directory" from the left menu (or right-click the entry and select "Open the application's directory"), and copy the **kick.rom** into the RabbitHole/ROMs folder.

STEP 4: DOUBLE-CLICK AMIKIT in PlayOnLinux and

CLICK THE BIG LAUNCH BUTTON to start the emulation and follow the prompts.

- AmiKit will download and install the required [Picasso96](#) graphics driver automatically. If not, download it manually, then click the AmiKit entry in PlayOnLinux and select "Open the directory" from the left menu (or right-click the entry and select "Open the application's directory"), and copy the archive into the AmiKit/RabbitHole folder.

- Next you will be asked for AmigaOS files

➤ **If you have Amiga Forever ISO or any other supported AmigaOS ISO file**

Select the "**CD & Hard drives**" section under "Hardware". Click the "**Select image file**" button (near the bottom of the window) to browse for the ISO image file. Find and select the ISO image file and click "**Open**".

- Once the AmigaOS files are detected and imported, AmiKit will quit and in the next step you will be asked to launch it again.

STEP 4: NOW CLICK THE LAUNCH BUTTON AGAIN to start the emulation again.

This time you will be asked to **select a default screen resolution** for Amiga. Choose your preferred **32bit** screen mode and **click the SAVE** button.

TIPS & TRICKS:

- The 1280x800 or 1920x1080x32 resolution is recommended.
- To change how the given Amiga screen is displayed on your computer (in Window, Full-Window or Full-Screen mode), press F12 anytime and adjust WinUAE/Display Native & RTG settings. The Windowed (default) or Full-Window is recommended for RabbitHole to work properly. To save your modified settings, in the WinUAE/Configurations section mark the “AmiKit Default Configuration” entry (by clicking on it once) and press the Save button.
- You can change the Amiga screen resolution anytime later with the `AmiKit:Prefs/ScreenMode` program. Or just type `AmiKitReset` in Shell/CLI and reboot.

TROUBLESHOOTING:

- If your AmiKit desktop **does not look sharp** in Full-windowed mode, try setting a different 32-bit screen mode resolution with the `AmiKit:Prefs/ScreenMode` program.
- If the 32-bit edition of [WinUAE](#) does not work in your 64-bit Linux distribution, or if audio doesn't work at all, use the **64-bit version of WinUAE instead**. To switch the WinUAE versions you need to go to the PlayOnLinux program and select open the directory. Rename `winuae.exe` to `winuae32.exe`, and rename `winuae64.exe` to `winuae.exe` (of course you can't have it running when you do this).
- If audio stutters, in WinUAE Sound settings change the Frequency to 44.1 or 48KHz.

ENJOY! For more suggestions check the [Tips & Tricks](#) chapter.



AmiKit (**Amiberry Edition**) for Linux x64

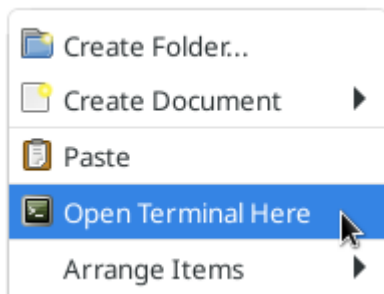
TESTED PLATFORMS

- ☒ Debian
- ☒ Ubuntu
- ☒ Peppermint OS
- ☒ Pop OS
- ☒ Zorin OS

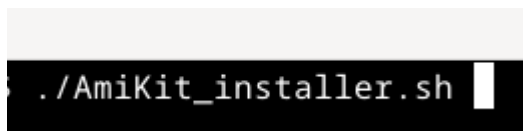
- ☒ Linux Mint
- ☒ Sparky OS
- ☒ MX Linux
- ☒ Parrot OS

NOTE: [See more details here](#)

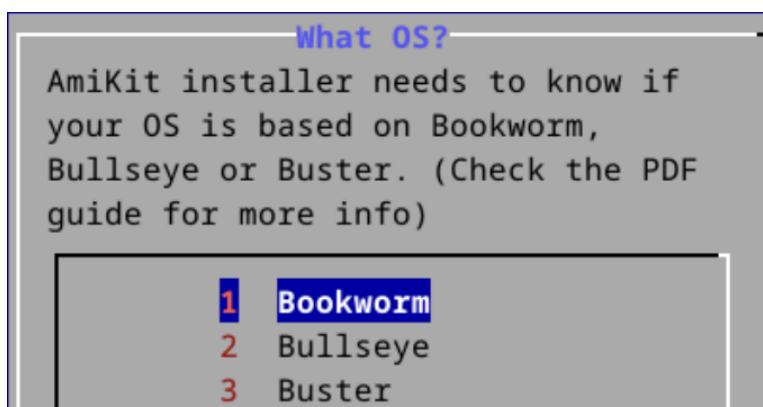
STEP 1: INSTALLATION



RIGHT-CLICK TO OPEN THE TERMINAL FROM THE UNZIPPED FOLDER



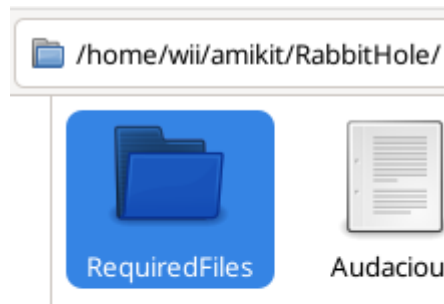
THEN LAUNCH THE INSTALLER SCRIPT AND FOLLOW THE PROMPTS



AT SOME POINT YOU WILL BE ASKED FOR YOUR OS TYPE

[The answer can be found in this table](#) so that the correct Amiberry for your particular Linux is installed. To install a different version later, re-run the installer at any time.

STEP 2: INSERT YOUR AMIGA OS FILE(S) TO RequiredFiles FOLDER



Go to the following folder:

`/home/user/amikit/RabbitHole/RequiredFiles/`

- ❑ IF YOU HAVE [AMIGA FOREVER ISO](#) file, drop the file there.

NOTE: Did you purchase **Amiga Forever** and all you got is a Windows-only MSI installer? No worries, you can create an Amiga Forever ISO easily by using a trial version of [CrossOver](#): In CrossOver select "Install a Windows application", type "Amiga Forever", and select "unlisted application". Now select "Choose installer file" and point it to your purchased Amiga Forever MSI file. Once Amiga Forever is installed and running, select Tools > [Build Image](#) option and build the ISO image file.

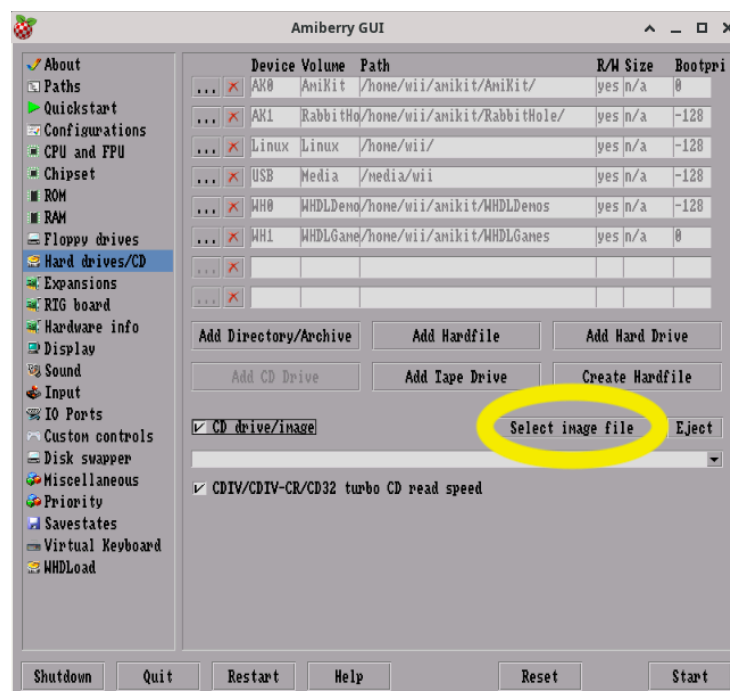
- ❑ or if you have other AmigaOS version such as XL / 3.9 / 3.5

First copy your Amiga Kickstart ROM 3.1 (v40.68) file there and name the file 'kick.rom'. Copy the given AmigaOS ISO image file there as well.

- ❑ If you have AmigaOS 3.2, first install AmiKit using any AmigaOS version mentioned above, and then use the Morpheuz program in AmiKit to upgrade to AmigaOS 3.2.

STEP 3: LAUNCH AMIKIT AND POINT TO YOUR AMIGA OS FILE(S)

Amiberry config window will appear. Go to the **HardDrive/CD** section, click the "**Select image file**" button. Choose your AmigaOS ISO file there.



Then press the **Start** button and follow the prompts.

STEP 4: LAUNCH AMIKIT AGAIN AND SELECT A SCREEN MODE

Once the AmigaOS files are detected and imported, AmiKit will quit. Then launch it again. The Amiberry config window will appear again. Now press the **Start** button.

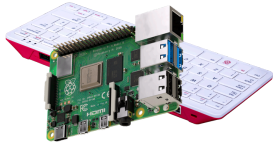
This time you will be asked to select a default screen resolution for AmiKit. Choose your preferred **32bit** screen mode - **ideally the same resolution as you use on your Linux** - and click the **SAVE** button.

You can change the AmiKit screen resolution anytime later with the AmiKit:Prefs/ScreenMode program. Or just type AmiKitReset in Shell and reboot.



RASPBERRY PI 500/5/400/4

WHAT DO YOU NEED?



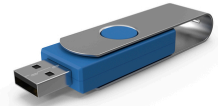
Raspberry Pi 5/4/400
(with fan & heatsinks!!!)



FullHD 1920x1080
(or at least 1280x720)



microSD card (32GB+)
or USB3 Flash Stick or SSD



AmigaOS ISO file
(on an USB Flash Stick)

INSTALLATION



STEP 1: FLASH THE IMAGE TO 32GB (or larger) microSD or USB3 stick or SSD

Use [Raspberry Pi Imager](#) on Windows, Mac, Linux or Raspberry Pi to flash the .xz image archive file you purchased (**don't unpack it**) to your 32GB or larger microSD card or USB flash stick or SSD drive (update your Raspberry Pi [firmware](#) first if necessary).

In Raspberry Pi Imager, select your Pi device first, then click the *Choose OS* button and select “*Use custom*” and locate your .xz image archive. Then select the *Storage* you want to flash it to. Click *Next* and **when you are asked to apply the OS customisation settings, select NO.**

STEP 2: BOOT YOUR microSD CARD (or USB3 flash stick or SSD)

Your Pi will boot into a Linux distro. It's not AmiKit yet :) During first boot, the AmiKit splash screen is shown for 5 seconds, then the Pi reboots (this is normal). After rebooting the card is resized so the entire SD card space is used.

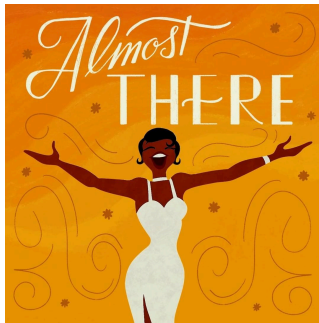
STEP 3: CONNECT TO INTERNET

Connect Linux to Wi-Fi by moving your mouse to the bottom of the screen (until the taskbar appears) and clicking the **network icon** on the right side of the taskbar. (for LAN connect, simply plug in the LAN cable)



STEP 4: USE AN USB FLASH STICK TO DELIVER AMIGA OS

- ❑ if you have [Amiga Forever ISO](#) (STRONGLY RECOMMENDED!)
Version 7 or newer is supported (Plus or Premium editions, not the Value one)
(to build an ISO image out of your Amiga Forever installation on Windows, run it and use its 'Tools' > 'Build Image' option, and tick 'Systems' from the Content menu).
- ❑ or if you have older AmigaOS 3.1 (located on [AmigaOS 4.1FE ISO](#))



Copy your preferred ISO image to the “**START HERE - Required Files**” folder located on the Linux desktop. Do not copy any Kickstart ROM anywhere. It will be copied automatically.

Then **run AmiKit**, in the Amiberry config go to the '**Hard drives/CD**' section, **enable 'CD drive'**, **select your ISO image file** (by clicking those three dots) and start the emulation. AmiKit will start with AROS Kickstart ROM first but that's absolutely fine. Just follow the prompts.

-
- ❑ or if you have [AmigaOS 3.1.4 \(A1200\) ZIP archive](#)
Simply copy your original ZIP archive for A1200 (including the [3.1.4.1 update](#) archive) to the “**START HERE - Required Files**” folder located on the Linux desktop and run AmiKit. (Btw. do not copy any Kickstart ROM anywhere. It will be copied automatically). Then run AmiKit - it will start with AROS ROM first but that's absolutely fine. Just follow the prompts.
 - ❑ or if you have other AmigaOS version such as XL / 3.9 / 3.5
First copy your Commodore Amiga Kickstart ROM 3.1 (v40.68) file to the “**START HERE - Required Files**” folder located on the Linux desktop and name the file '**kick.rom**'. Copy the given AmigaOS ISO image file there as well. Then run AmiKit, in the Amiberry config go to the '**Hard drives/CD**' section, **enable 'CD drive'**, **select your ISO image file** (by clicking those three dots) and start the emulation.
 - ❑ if you have AmigaOS 3.2, this can be installed with Morpheuz once AmiKit is already installed with any of the other AmigaOS edition listed above
-

NEXT: A SCREENMODE REQUESTER

Once the installation of AmigaOS is finished, AmiKit asks for a screen mode. A FullHD resolution of **1920x1080x32 is recommended** - providing your monitor is able to display it, of course.

NEXT: ADDITIONAL SOFTWARE

As soon as AmiKit is ready, it asks you for your first name that will be displayed on the AmiKit screen bar, and you will also be prompted to download some additional software (recommended).

→ HAVE FUN!

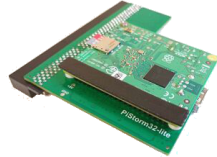
You can boost your experience by enabling **BOOT MODE** (see below). It makes your Raspberry Pi boot “straight” into AmiKit.





AMIKIT FOR PISTORM

If you purchased AmiKit from a re-seller, please send me an email with your license code (found on the back of the “Thank You” card) to amikit@gmail.com so that I can activate it for you.



Amiga
500/600/1200/2000
[Download Wi-Fi driver](#)

[PiStorm Board](#)
[with Raspberry](#)
4B/CM4/3A+/3B+

FullHD Monitor
1920x1080
or at least 1366x768

Amiga Monitor
15kHz PAL/NTSC
or a video upscaler

[AmigaOS 3.2](#)
ADF files from it
+ [hotfix 3.2.2.1](#)

RECOMMENDED SETUP

Amiga 1200 with PiStorm32-lite and Raspberry Pi 4B (2GB is enough) or CM4, with heatsinks + cooling fan. Just make sure there is an air gap around everything after you close the Amiga lid!

MINIMUM SETUP

Amiga 500/600/2000 with PiStorm and Raspberry Pi 3A+ or 3B+, with a cooling fan.

If you want to use a heatsink instead, choose a low profile one and use metal stand-offs to secure the Pi in place.

YOU WILL ALSO NEED

- FullHD 1920x1080 monitor or better (or at least HD 1360x768) for RTG desktop
- Second monitor for 15kHz native Amiga modes like PAL/NTSC (or just one monitor with multiple inputs or a suitable video upscaler allowing 15kHz display on modern monitors)
- Amiga internet connection provided [Wi-Fi driver](#) or by old fashion PCMCIA or Plipbox

INSTALLATION

1. **First of all, backup your microSD card!** For instance with the “[USB Image Tool](#)” app
2. **Copy all ADF files** from the AmigaOS32CD:ADF folder to the microSD card's BOOT:+AmigaOS32 folder. Use an OS that can read FAT32 partitions & write to them
3. **Copy the [hotfix3.2.2.1.lha](#) file** there as well (no additional update archives are needed)

To get the hotfix3.2.2.1.lha archive:

- Log in to the Hyperion website (or sign up first if you don't have an account yet)
- Register your AmigaOS 3.2 (if you haven't done so yet)
- Download the hotfix3.2.2.1.lha archive and copy it to BOOT:+AmigaOS32 folder

4. **Copy A1200.47.111.rom file** from the [hotfix3.2.2.1.lha](#) archive (located in the AmigaOS 3.2/Update3.2.2/ROMs folder) to the microSD card's BOOT:+KickstartROM folder and rename it **kick.rom** so that PiStorm can map it on startup.
5. **Copy [Picasso96.lha](#) archive** from Aminet (version 2.0) to the BOOT:+Picasso96 folder.
6. RECOMMENDED: **Copy full Roadshow.lha 1.15** to the card's BOOT:+Roadshow folder
7. OPTIONAL: **Copy additional ROM files** to microSD card's BOOT:+WHDROMs folder:

kick33180.A500, kick34005.A500, kick37175.A500, kick39106.A1200, kick40063.A600, kick40068.A1200, kick40068.A4000
or amiga-os-120.rom, amiga-os-130.rom, amiga-os-310-a600.rom, amiga-os-310-a4000.rom, amiga-os-310-a1200.rom
or Kickstart-34.4.rom, Kickstart-A1200-40.68.rom

THEN BOOT THE MICRO SD CARD IN YOUR RASPBERRY (don't use any extender cable)

Once installed, [install the Wi-Fi driver](#), connect your Amiga to the internet using the Network Wizard, activate your AmiKit by entering your details into the LiveUpdate and downloading the update(s).

And have fun! --Ján

BOOTABLE AMIKIT USB - PLUG N' PLAY EDITION

REQUIREMENTS

A relatively modern 64-bit PC computer (not Mac) with a **USB3.0** port.
The [Amiga Forever](#) 7 or newer [ISO](#) file (or another source of AmigaOS)

MAKE A BACKUP FIRST!

For example with [USB Image Tool](#) for Windows. **If you are upgrading your LeatherUSB**, check your download page on how to flash the new image to it.

DISABLE SECURE BOOT IN YOUR UEFI BIOS

Start your computer and **enter its UEFI BIOS**, for example by pressing the F12 key.
Refer to your computer's manual for the specific method of entering the BIOS.
Disable Secure Boot and select **boot from the USB**. Then save and reboot.

BOOT AMIKIT USB FLASH STICK

The boot menu will appear for a moment and then the Linux desktop will launch.
Click on Network in the lower right panel and **connect to the internet**.
Then click on Audio and choose "**Audio Mixer**", then set your audio depending on your output (HDMI or Analogue).

COPY AMIGAFOREVER.ISO TO THE 'START HERE' FOLDER

Make sure the file is named AmigaForever.iso

Btw. to build an ISO image out of your Amiga Forever installation on Windows, run Amiga Forever and use its 'Tools' > 'Build Image' option, and tick 'Systems' from the Content menu.

If you have other AmigaOS version such as XL / 3.9 / 3.5 / 3.1 (located on OS4.1FE ISO)
First copy your Commodore Amiga Kickstart ROM 3.1 (v40.68) file to the "**START HERE - Required Files**" folder located on the Linux desktop and name the file '**kick.rom**'. Copy the given AmigaOS ISO image file there as well. Then run AmiKit, in the Amiberry config go to the '**Hard drives/CD**' section, **enable 'CD drive'**, **select your ISO image file** (by clicking those three dots) and start the emulation.

If you have AmigaOS 3.1.4 (A1200) ZIP archive

Simply copy your original ZIP archive for A1200 (including the 3.1.4.1 update archive) to the "**START HERE - Required Files**" folder located on the Linux desktop and run AmiKit. (Btw. do not copy any Kickstart ROM anywhere. It will be copied automatically). Then run AmiKit - it will start with AROS ROM first but that's absolutely fine. Just follow the prompts.

If you have AmigaOS 3.2, this can only be installed with Morpheuz once AmiKit is already installed.

LAUNCH AMIKIT

The Amiberry config panel will be displayed. **Press the Start button**.
AmiKit will install AmigaOS & Kickstart files from your source.

LAUNCH AMIKIT AGAIN AND SELECT A SCREEN MODE

Choose your preferred **32bit** screen mode - ideally the same resolution as in Linux.
In general, 1920x1080x32 is recommended. Then click the **SAVE** button.

You can change the AmiKit screen resolution anytime later with the
AmiKit:Prefs/ScreenMode program. Or just type AmiKitReset in Shell and reboot.

Oh, and if Linux ever asks you for a **password**, it's **amikit**

GOOD TO KNOW

WHDLOAD GAMES & DEMOS

CONTROLS

To assign controls to a game, press **F12** and in the **Amiberry Input settings** select your preferred controls in the **Port 1** section. To exit from any running game or demo, press **F10**.

ADD YOUR OWN GAMES AND DEMOS

Feel free to [download some archives](#) and copy them to the “**Downloaded Archives**” located in WHDLGames or WHDLDemos folder on the AmiKit desktop. Then launch **Install Wizard** and the archives will be unpacked to the respective folders for you.

REQUIREMENTS

If AmiKit hasn't installed the required Kickstart ROMs for you automatically, check these [WHDLoad requirements](#) (note that AmiKit already includes all the extra .RTB files)

VIRTUAL MOUSE POINTER

While it allows a smooth experience when switching between Amiga and Linux apps, some Amiga programs and games (like AmiStart, DOpus, Doom and probably others) might not fully register such a mouse pointer. For instance, a DOpus' menu doesn't work correctly if invoked by the right-mouse button over an inactive window. **The window under the mouse pointer has to be activated first** (with the left mouse button). Anyway, you can always **disable Virtual Mouse Driver in Amiberry Input settings**. Just bear in mind that it has to be done before the emulation is started as it cannot be enabled/disabled on the fly while the emulation is already running.



GAMES

There are plenty of games pre-installed in AmiKit. Look into the *AmiKit:Games* folder.
If the game is launched by WHDLoad, press F10 to quit the game.

Game Controls

To assign game controls, press F12 to enter WinUAE/Amiberry settings, select **Game Ports** and select your preferred controls to **Port 2** (eg. Keyboard Layout C).

Display settings for enjoying games

The following settings make games a lot closer to how they should look
and how they are remembered.

Press F12 to invoke WinUAE or Amiberry window and under WinUAE **Display** settings:

- change Native from Windowed to Full-window (keep the RTG settings untouched)
- enable Filtered on Low Resolution
- enable Remove interlace artifacts
- Set Resolution autoswitch to Always On
- enable both horizontal and vertical Centering

Under **Filter**:

- set Native (leave RTG alone, it already looks great)
- instead of Null filter set D3D: AdvancedAA and set it to 2x (up from default of 1x)
- instead of Default set Auto Integer Scaling 1/1
- in Aspect Ratio Correction settings enable both “Keep autoscale aspect” and “Keep aspect ratio”
- In Extra Settings keep the Point/Bilinear enabled but move the throttle to the right (instead of left) so it shows 1 (instead of 0)

Btw. also check the following article on [how to achieve the correct graphics](#) for gaming.

WHDLoad

WHDLoad

As you might remember, most of the Amiga games were delivered on floppy disks, and they run directly from them, without loading any operating system first. However, such games fail to launch when run from the operating system (AmiKit desktop). Fortunately there is a workaround. AmiKit includes the [WHDLoad](#) tool which allows almost any old game to run flawlessly.

Install Kickstart ROMs for WHDLoad

If AmiKit doesn't install the Kickstart ROMs for WHDLoad automatically (WHDload complains about a missing ROM when you launch a game), then please install the ROMs manually. The following [WHDLoad ROM names table](#) will help you. To make the long story short, pick a correct ROM from your own source (for example a Kickstart ROM 1.3 from Amiga 500), rename it according to the table (for example kick34005.A500) and copy it to AmiKit:Devs/Kickstarts drawer. For your convenience, all those .RTB and .PAT support files (as mentioned in the WHDLoad table above) are already included there (they are not the actual Kickstart ROM files).

Install games with WHDLoad

To install a game using WHDLoad, simply download an installer from the [WHDLoad Installs](#) page. Unpack the archive and run the installer. When you are asked to insert a game disk, press F12, go to the Floppy Drives section and "insert" the game disk (.adf) to virtual DF0: drive. For more details check some [tutorial videos on YouTube](#).

Controls

WHDLoad games supports some useful **shortcuts** too:

- To quit game, press F10
- To restart game, press F9



Another World

AmiKit includes a full version of Another World with kind permission of Eric Chahi.

This legendary game was installed thanks to WHDLoad.

It is located in the *AmiKit:Games/AnotherWorld* folder.

On Windows/Mac/Linux/Rasp, let's assign the game controls first:

- Press F12 to access emulator settings
- In WinUAE / Game Ports settings assign controls to Port 2 (eg. Keyboard Layout B)
- In Amiberry / Input settings assign controls to Port 1 (eg. Keyboard Layout B)

Run the game by double-clicking its icon and:

- On startup screen use the selected controls (cursor keys) to enter random signs and then hit OK twice (with Alt key)
 - Do not use a mouse!

In Game:

- To enter a new level code, you must die first :) Then press 'C'
- Press F10 to quit or F9 to restart the game (or any other WHDLoad game or demo)

Need help?

Click for [Walkthrough and Level codes](#).



AmiKit on Windows, Mac or Linux uses a [WinUAE](#) emulation engine currently being developed by Toni Wilen. On Raspberry Pi it uses an [Amiberry](#) emulator by Dimitris Panokostas.

For more information about their features visit [Official WinUAE Help](#)

Btw. you might also be interested in [achieving the correct graphics](#) for gaming.

Display config panel

- On Windows/Mac/Linux start AmiKit and select CONFIGURE button
- On Raspberry Pi just double-click AmiKit icon on desktop
- While the emulation is running, press F12 key

For Mac users: If Dashboard is displayed instead, you have to disable this shortcut first:

- Choose System Preferences from the Apple menu.
- Click Keyboard and select the Shortcuts tab.
- Click the Mission Control from the left column
- and disable Show Dashboard assigned to F12 in the right column.

Switch between Fullscreen/Full-window and Windowed mode

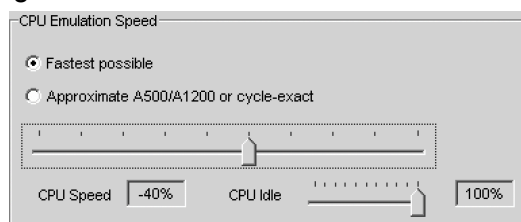
- Control+F12 (or Fn+Control+F12 if you have a Mac with TouchBar)
- Or Display WinUAE/Amiberry config panel (see above) and go to **Display** and change **RTG** (and/or Native) from Window(ed) mode to Full-screen/Full-window and vice versa. To fully enjoy [Rabbit Hole](#), Full-window (or at least Windowed) mode is recommended. Just make sure that your AmiKit desktop and your host desktop screen mode resolutions match. If your AmiKit desktop **does not look sharp** in Full-windowed mode, try setting a different 32-bit screen mode resolution with the *AmiKit:Prefs/ScreenMode* program.

Quit Emulation

- Press Control+F11
- Or, in AmiKit itself, click the taskbar and select Shut Down.

CPU Speed

- On a laptop you might want to **decrease the CPU speed** of AmiKit to limit heat, power consumption & fan noise. Press F12, click the CPU settings and adjust the following slider to eg -40% or even more:



Note that if you set the CPU Idle slide to 100%, the emulation should utilize your CPU only when it's really needed.



RABBIT HOLE

(this chapter might be outdated)

Launch any host app (Windows/Mac/Linux/Rasp) directly from Your Amiga desktop!

You can also open Amiga files with your favorite Windows, Mac or Linux apps.

At the moment, the following file types are supported, if double-clicked in AmiKit:

Video

- AVI
- DVD
- Flash
- FLC
- FLI
- FLV
- GIF
- MOV
- MPEG
- WMV

Documents

- MS Office
- PDF
- RTF

Other

- HTML

WINDOWS/MAC/LINUX TIP:

To fully enjoy the Rabbit Hole feature, run AmiKit in Full-windowed mode:

- Press F12 to display the WinUAE config panel. Go to Display options and change RTG from Windowed to Full-window (not Fullscreen). You might want to save your new settings. Go to "Configurations", mark the default AmiKit config entry (click it once) and then click the "Save" button.
- For Mac users: You might want to hide your Menu bar & Dock too. Choose *System Preferences* from the Apple menu, click *General* and enable 'Automatically hide and show the menu bar'. Then go back and click Dock and enable 'Automatically hide and show the Dock'.

Now you can enjoy your Windows/Mac/Linux apps on the AmiKit desktop. Note that they always disappear if you click on the AmiKit desktop again. Simply use Alt-Tab (or Command+Tab on Mac) to display them again.

IMPORTANT NOTE: If your AmiKit desktop looks distorted in Full-windowed mode or you have issues with screen switching when AmiKit boots to the desktop, change AmiKit desktop resolution (AmiKit:Prefs/Screenmode Prefs) to match your host desktop resolution.

How to add your own Rabbit Hole apps?

There are several Rabbit Hole apps pre-installed in AmiKit. They all launch a specific app on your host operating system (Windows, Mac, Linux or Raspberry Pi), provided such an app is installed on the host system itself.

To add a new Rabbit Hole app, make sure the app is installed on your host system.

- Now let's clone an existing Rabbit Hole app in AmiKit and edit it to launch eg. Firefox web browser instead.
- To do so, open the RabbitHole folder located on your AmiKit desktop. Single-Click on any icon and then click the small "down-arrow" icon located almost at the upper-right corner of the window. A menu will appear. Select Duplicate and select a new name, let's say: Firefox
- Now click the newly created icon named Firefox(probably located at the bottom of the window so you have to scroll down to see it), right-click it and select "Edit in microgilded" from dropdown menu so its content looks like this:

On Windows/Mac/Linux	On Raspberry Pi
C:winlaunch >NIL: firefox	C:host-run >NIL: firefox

*Note that some Windows apps require the complete path, for example VLC should be launched like this: **C:winlaunch >NIL: "C:\Program Files\VideoLAN\VLC\vlc"***

- Now click the Disk icon (or press Right Amiga+w key combination) to save it and close the document.
- Double-click your new Firefox app and the app will be started!

Mac and Linux users, there is one more step to make your new Rabbit Hole app work:

- **on Mac** - go into your Application folder, right-click "AmiKit" app and select "Show Package Contents". Then go into the Drive_C > windows folder and do the same as described above. This means duplicate eg. safari.exe file, give it a new new, eg. firefox.exe, and edit its content so it looks like this:

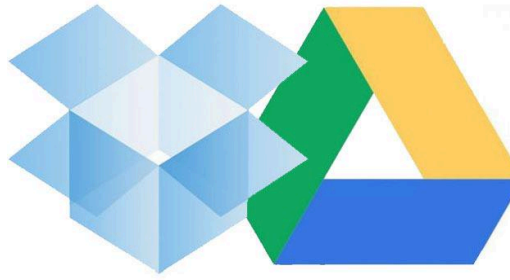
```
#!/bin/sh
```

```
open -a firefox"$@"
```

- **on Linux** - run PlayOnLinux, right-click the AmiKit entry and select "Open the application's directory". Then go up into the "drive_c" folder and enter the "windows" folder. Now do the same as described above. This means duplicate eg. firefox.exe file, give it a new new, eg. firefox.exe, and edit its content so it looks like this:

```
#!/bin/sh
```

```
exec firefox"$@"
```



ONLINE STORAGE SUPPORT

Dropbox on Windows/Mac/Linux

First of all, you need [Dropbox](#) installed on your Windows, Mac or Linux system. AmiKit will use this in a clean and 100% compatible way (thanks to Rabbit Hole).

Just let AmiKit know where your Dropbox folder is located
and it will be visible and usable in AmiKit too:

- Before starting Amikit, run the AmiKit Quick Launcher and select the "CONFIGURE" button
- Select the "CD & Hard drives" section under "Hardware"
- Click the AK2 Dropbox entry in the list
- Click the "Properties" button and then the "Select Directory" button and locate your Windows, Mac or Linux Dropbox folder and press the "Open" button. Make sure the path is correct, eg. Z:\Users\Jan\Dropbox (and not double \Dropbox\Dropbox at the end)
- You might want to save your new settings. Go to "Configurations" and click the "Save" button
- Also, copy disk.info file from AmiKit/Dropbox folder into your Dropbox folder on your Windows, Mac or Linux, so it has a nice icon on AmiKit desktop

Dropbox on Raspberry Pi

Please take a look into AmiKit:Internet/Cloud drawer for the instructions.

Google Drive

In case of the **Windows/Mac/Linux** edition of AmiKit, please take a look into the *AmiKit:Devs/Cloud* drawer, in case of **Raspberry Pi** edition, take a look into the *AmiKit:Internet/Cloud* drawer for the instructions.



Window Toolbar

Directory Opus windows (also called Listers) include really powerful buttons for your file management needs.

Click the icon with left, middle or right mouse button to trigger the following action:

left click

- Go to parent directory
- Cycle between Name and Icon view
- Rename selected entries
- Copy selected entries to clipboard
- Cut selected entries to clipboard
- Paste selected entries from clipboard
- Select all entries of the current directory
- Get the size of all selected directories
- Search for the files in the selected dirs
- Edit the selected files in microgolded
- Show thumbnails of all images
- Play the selected files with SongPlayer
- Move the selected entries to trash
- Delete the selected entries

middle click

- Show all available devices
- Show the version number
- View the clipboard content
- Invert the selection
- Search files with SimpleFind
- Open in Multiview
- Show images with MysticView

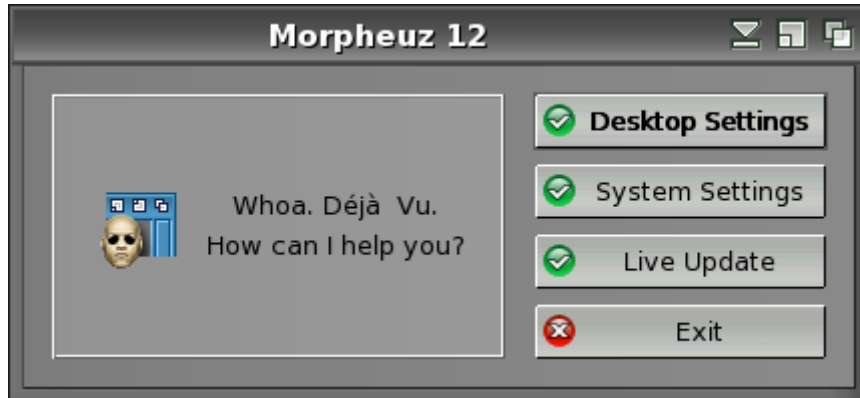
right click

- Show root directory
- Re-scan directory
- Advanced rename tool
- Paste As from clipboard
- Clear selected entries
- Open current path in Shell
- Search selected entries for string
- Edit selected entries in FileX
- Show selected images with PicShow
- Play selected entries with AmigaAmp
- Undelete files from SFS or PFS partition

TOOLBAR BUTTONS

Morpheuz / Zeus

A Look, Feel & Behaviour of AmiKit under your control



- **Desktop Settings** allows you to set different look of whole AmiKit or just window frames
- **System Settings** allows you to adjust various system components including startup.
- Run **Live Update** program to update your AmiKit to the latest version

To run Morpheuz (or Zeus on PiStorm), simply use one of the following options

- click its icon on the taskbar (the stripe located along the bottom of the screen)
 - or click AmiKit on bottom left screen and select AmiKit > Morpheuz / Zeus
 - or right-mouse click on empty desktop and select AmiKit > Morpheuz / Zeus

General Tips & Tricks

- **First of all**, once your AmiKit is installed and updated, **backup** the whole AmiKit folder/app/card. Then you can experiment as you wish. And if something goes wrong later, simply restore the folder/app without re-installing anything ever again.
- You can upgrade the Aminet version of Picasso96 anytime by copying the new iComp's Picasso96.lha archive to RabbitHole: (or AmiKit:Expansion in case of PiStorm) and the new version will install automatically upon reboot. The same way you can always downgrade to the Aminet version by placing the old archive there.
- On a Windows/Mac/Linux **laptop** you might want to **decrease the CPU speed** of AmiKit to limit heat, power consumption and fan noise. Press F12, go to WinUAE/CPU and FPU settings and set the [CPU Speed slider](#) to eg. -40% or lower.

Note that newer CPUs support idling - which means you can keep the both CPU speed and **CPU idle** sliders at max (the most right position). That means the emulation will use the CPU power only if needed, and not constantly (it might not work on Mac and Linux, though)

- If you have **more than 1 monitor**, select the one you want to use for AmiKit in the WinUAE / RTG Board settings.
- **Bring windows to the front** by middle mouse click. You can also use the left double-click on a window frame.
- Did you know Directory Opus Magellan II (which is used as a Workbench replacement in AmiKit) contained an **ancient artificial intelligence** long before Siri or Cortana were introduced? Her name is Eliza. If you want to chat with her, press the right mouse button on the AmiKit desktop, select "Execute command" from the Opus menu and click the CLI button. Now type **HELP ME ELIZA!**
- Digitally remastered **Directory Opus PDF manuals**, located in DOpus:Help drawer, will introduce all the amazing features of this legendary program which is used as the default desktop for AmiKit.
- Hold down the Shift **key during boot** to run Workbench instead of DOpus.
- **Help files** to various programs (guides/manuals/instructions/etc.) are located in the "AmiKit:Locale/Help" drawer. Others are located directly in the specific program drawers.
- If you need help **with AmigaDOS commands**, in Shell (press Left AMIGA + S) simply write "help" in front of the specific command. For example, "help makedir".
- **Unpack archives** with drag&drop. Simply drag the archive file and move it over RAM Disk or any other device. A new drawer will be created where everything gets unpacked (and checked for viruses too in case of Windows/Mac/Linux edition).
- **Maximize/normalize any window** easily - simply hold down Left SHIFT and click the corresponding taskbar icon which represents the opened window. Check it out! For more similar features check the Hotkeys section.

- **Add/Edit actions for any filetype!** When you right-click a file, the name of its filetype pops up in menu (eg. " *Document, AmigaGuide"). Click this entry to add/edit actions for all files of that type.
- To **change wallpaper**, press the right mouse button over a picture file and select "Set as background". Don't forget to save your settings - press the right mouse button and select "Settings" -> "Save layout". To change other background images, use Directory Opus settings (right mouse button -> "Settings" -> "Environment..." -> "Backgrounds")
- Make your AmiKit **password protected** (Windows/Mac/Linux only) Run Morpheuz -> "Startup Control" -> "Startup password" -> Enable. To change the default login details, run "AmiKit:Prefs/ShowAmiga96_Prefs" and configure the Login section. Just don't forget your password ;-) WARNING: this is not a real protection of your desktop and files. Basic Amiga skills are enough to bypass this protection. You've been warned!
- **Make Assigns** easily. Run AppAssign (located in "AmiKit:WBStartup/Disabled" drawer) and drag the drawer you want to make the assign to and drop it onto the AppAssign icon located on desktop (you might need to enable AppAssign first by moving it from AmiKit:WBStartup/Disabled to AmiKit:WBStartup drawer).
- **Automated virus check** (Windows/Mac/Linux only) Any archive you unpack is checked for viruses automatically. If you want to check a specific file or drawer, simply right-click on it and select "Check for Viruses". If you want the Virus Checker to monitor your memory regularly, run "AmiKit:WBStartup/DisabledVirus_CheckerII" or move it into the "AmiKit:WBStartup" drawer so it will be started automatically on system start. Virus checker will display its appicon on AmiKit desktop - drag any file or folder and drop it onto the appicon to be checked for viruses.
- **Complete file names in Shell** easily. Run Shell (press Left AMIGA + S), type something and press TAB key to complete the name for you. If there is more than one possibility in the given pathdrawer, a list will pop up, from where you can choose the right file.
- **Share text in a clipboard between Amiga and the host system** easily. On the Amiga side use standard Right AMIGA + C or V, on PC side use standard CTRL + C or V.
- Don't like the taskbar? Simply move „AmiStart“ from "AmiKit:WBStartup" to "AmiKit:WBStartup/Disabled" drawer and it will never be started again.
- **MagicWB icons** are fully supported in the Blue AmiKit theme only. Use Morpheuz/Zeus to activate it.
- If you want to use MMKeyboard, make sure ChangeExp is disabled in Morpheuz Startup Manager.
- If FTP or any other internet program does not work as expected, you may have to grant AmiKit/WinUAE access to the internet. Also check your Firewall settings.



Raspberry Pi Tips & Tricks

- **STAY SAFE - MAKE A BACKUP**

To keep a backup in case you need it, open the home folder, create a new folder called "Backup" and copy the "AmiKit", "Desktop" and "RabbitHole" folders to it. If anything goes wrong, start by overwriting the AmiKit folder from the backup. If that fails, overwrite the RabbitHole folder and test again. Finally try overwriting the Desktop folder. If this fails, come into [Discord](#) or reflash your SD card with the original download.

- **VIRTUAL MOUSE POINTER**

In AmiKit it enables a smooth experience when switching between Amiga and Linux apps. However, some Amiga programs (like AmiStart, DOpus, Doom and probably others) might not fully register such a mouse pointer. For instance, a DOpus' menu doesn't work correctly if invoked by the right-mouse button over an inactive window. **The window under the mouse pointer has to be activated first** (with the left mouse button). Anyway, you can always **disable Virtual Mouse Driver in Amiberry Input settings**. Just bear in mind that it has to be done before the emulation is started (it cannot be enabled/disabled on the fly while the emulation is already running).

- **BOOT "STRAIGHT" TO AMIKIT**

You can enable/disable it either in Linux (look for BootMode icon on desktop, in start menu or taskbar) or in AmiKit too (look for BootMode in AmiStart menu or right-click AmiKit menu). Btw. Linux and AmiKit are synchronized so if you enable/disable it in Linux, AmiKit will know about it (and vice versa). Cool, isn't it? :)

- **LOCALIZING YOUR AMIKIT**

On the Linux desktop, open the terminal and type "sudo raspi-config". Go to "5 Localisation Options" to set your language and timezone, plus keyboard and WLAN Country, if needed. The default settings are English/UK-London/GB/GB
Find the terminal in the start button > favorites and on the taskbar too.

- **USE USB FLASH STICKS AND OTHER MEDIA IN AMIKIT**

To access any external media plugged to your Raspberry Pi, simply double-click anywhere on AmiKit desktop area and select **Media**:

- **OVERCLOCKING YOUR RASPBERRY PI**

Check the notes in **config.txt** if you want to take the performance of your particular Pi further, but do so at your own risk. Also make sure that you have active fan(s) and heatsinks installed.

- **DISPLAY AMIBERRY CONFIG PANEL**

To display Amiberry config panel while AmiKit is running, press F12 (or Fn+F2 on Pi400/500)

- **RESET / REBOOT / SHUTDOWN / QUIT**

Use the start menu in AmiKit to reset (reboot) AmiKit, or reboot Raspberry Pi machine or even to shut it down completely. Or if you want to just quit AmiKit and return to the Linux host, use the right-click menu > AmiKit > Quit (or just Alt-Tab :)

- **SWITCH BETWEEN AMIKIT AND HOST LINUX INSTANTLY**

In AmiKit click the “**ShowPi**” icon located on the taskbar to switch to the host Linux desktop instantly (and move the mouse to its lower edge to display its taskbar). In Linux, double-click the same looking icon named “**Show AmiKit**” to switch to the AmiKit desktop instantly (providing it’s running, of course. If not, run AmiKit :)

Alternatively, in Amiberry Misc settings, you can set up your own hotkey for minimizing the AmiKit desktop. Then you can use **Alt-Tab** to display it again.

- **LAUNCH HOST LINUX APPS FROM AMIKIT (RABBIT HOLE)**

Open the RabbitHole folder located on the AmiKit desktop to launch any host Linux app that is pre-defined there. In fact, you can launch any host Linux app from AmiKit, simply add host-run command before calling its name, for example in Shell: `host-run chromium`

Directory Opus Magellan II (used as a Workbench replacement) is configured to open certain file types (such as document, video, mp3, etc.) with host Linux apps. You can add/modify more such file types (right-click > Settings > File Types...)

- **BRING HOST LINUX APPS ON AMIKIT DESKTOP AGAIN**

Long story short, clicking on the AmiKit desktop makes your host Linux apps disappear. You need to press Alt-Tab to bring them back again.

- **WHDLOAD GAMES & DEMOS**

For games & demos installed with WHDLoad you will need some additional Amiga Kickstart ROM files. If AmiKit didn't install them for you automatically (it did if you used Amiga Forever), copy your Kickstart ROM files to AmiKit:Devs/Kickstarts folder and name them according to [WHDLoad requirements](#) (note that you don't need any extra .RTB files as they are already included). Btw. to quit any WHDLoad game or demo, press F10.

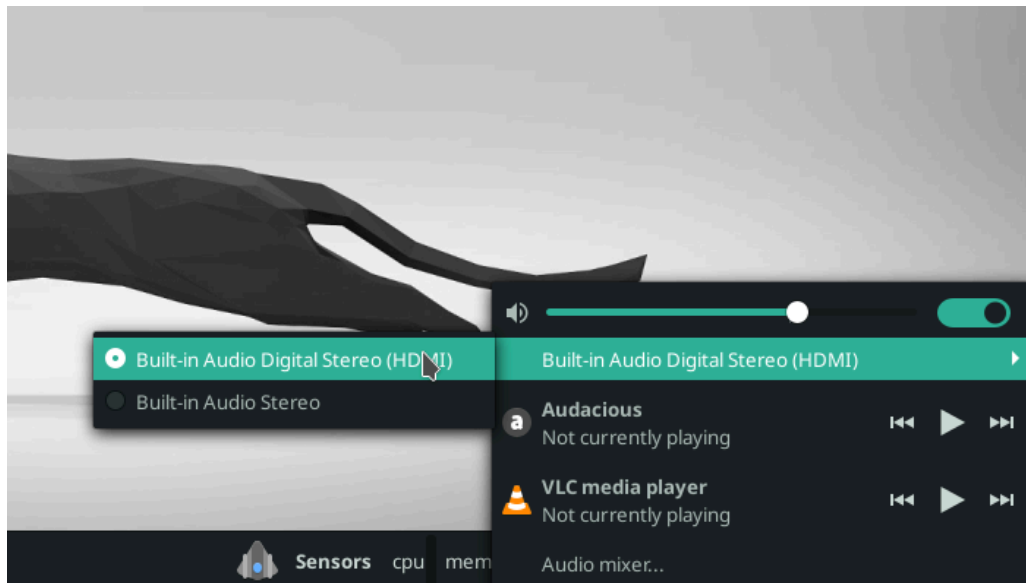
- **ADD YOUR OWN GAMES AND DEMOS**

The two desktop folders (WHDL games and Demos) are empty. Feel free to add your own files there. The folders are available on the AmiKit desktop and the correct files can be loaded / added into iGame.

Updated version of AmiKit includes an Install Wizard. In AmiKit, launch it from the WHDLGames/DownloadedArchives folder located on the AmiKit desktop.

- **AUDIO**

On first boot audio is set to HDMI. If you want to use the audio using the input jack, please click on the speaker on the taskbar to make any changes before you start AmiKit.



- **PLAY AROUND WITH LINUX**

Within Linux there are a range of useful programs to make the OS a useful daily driver and a **bonus game** "Chromium B.S.U. is linked in the taskbar (have fun).

If you click the start button in Linux, you can **change the wallpaper** for Linux (click Random Wallpaper) and it will match in AmiKit. You can also choose to have a random wallpaper on every boot by choosing "Cycle Wallpapers on Boot".

If you want the **wallpaper options on the desktop** open a terminal and type:
`copy_wallpaper_icons.sh`

The desktop on **Linux is set to 1920x1080** and we recommend the same setting in AmiKit. If you have any issues, lower the resolution to 1280x720 or smaller in BOTH Linux and AmiKit. To do this in Linux, click the start button, type `Display` then click on it and choose a new resolution. Note the desktop icons etc. will increase in size. In AmiKit, use Morpheuz > Desktop Settings > Desktop Size and select "Smaller (HD)", and then select "Change Screen Mode" and select the same 1280x720x32 mode there too.

Also note that some older monitors may not be able to handle 1920x1080, so the desktop may get resized. If this happens, use the display option (Display) above to check the current resolution and use the same one in AmiKit.

IMPORTANT: Do NOT install Linux updates manually! AmiKit Live Updates automatically handle all underlying Linux updates as well.

For Amiberry support and bug report please visit [Amiberry website](#), [GitHub](#) or [Wiki](#)

Fonts

- AmiKit uses TrueType fonts when AfA_OS is active. Fonts are provided in 3 different encodings
(EU - is default for most Latin based languages and is ISO-8859-15 based)
(PL - is default for Polish language and is ISO-8859-2 based)
- When Morpheuz/Zeus changes locale, it copies the corresponding font files as AfA AmiKit *.font files without the language extension (-EU, -PL). The current font can be identified by file comment or by examining the file in HEX a viewer, it will have a language ID in the description.
- If you decide to install extra fonts, please follow the following recommendations
 - Use Prefs/TrueType FontManager (FreeType Font Manager) - TTFM
 - Copy the ttf files you plan to use to RAM:, it would be the source in TTFM
 - Set TTFM Destination to FONTS:/_TrueType
 - Select Codepage from LIBS:Charsets/
 - Click on the font name you wish to install
 - In a new opened window you can do some adjustments, but usually clicking Install is enough
- WARNING: There is a bug in current TTFM, not all installations are created properly and you may need to click the install button several times before all the needed data will be saved in the *.otag file, so if finally the font is not working properly, you have to redo it.
- Once installation is complete, you can copy *.font and *.otag files to the main FONTS: dir from the _TrueType subdirectory leaving *.ttf file in place.
- You can rename the *.font and *.otag together with whatever name you like, just keep it short or some software will fail to work with them (TIP: if System/Intellifont does not complain on startup, then everything is fine).



HOTKEYS

KEYBOARD HOTKEYS DOpus

Lister

- Press Space while in desktop or in a Lister (Icon or Name mode) and then use cursor keys to navigate and Enter key to open the selected entry
- Type letters to find a file
- Type capital letters to find a drawer

- F1 Rename selected entries
- F2 Toggle between Name and Icon view mode
- F3 View selected entries in Multiview
- F4 Edit selected entries in microgolded
- F5 Copy selected entries to Destination
- F6 Move selected entries to Destination
- F7 Create drawer
- F9 Calculate size of selected drawers

- Del Delete selected entries
- ALT + F1 Open new lister with all available devices
- SHIFT + F8 Delete selected entries to trashcan

- NUM + Select all entries
- NUM - Unselect entries
- NUM * Invert selection
- NUM / Go back to the root

- Backspace Up one drawer
- CTRL + F5 Copy As
- CTRL + F6 Move As
- CTRL + R Re-reads drawer
- CTRL + F Find files
- CTRL + X Cut selected entries to Clipboard
- CTRL + C Copy selected entries to Clipboard
- CTRL + V Paste selected entries from Clipboard
- SHIFT + CTRL + V Paste As selected entries from Clipboard
- SHIFT + CTRL + F5 Duplicate selected entries

Lister Display Mode

In Directory Opus (default AmiKit desktop) you can use hotkeys to switch between the **lister modes**:

- Right AMIGA (or Windows key) + [for **name** mode
- Right AMIGA +] for **icon** mode
- Right AMIGA + ; for **show all files** or not
- Right AMIGA + ' for **icon action** mode

Hold down Left SHIFT in name mode:

- and double click a drawer to open it in a new lister
- and double click a file to open it like in icon-mode (the file has to have an associated .info file too).

Arranging windows

Or you can **arrange all opened listers** with the following hotkeys:

- Right AMIGA + \ to align all open listers
- Right AMIGA + - to align all open listers horizontally
- Right AMIGA + + to align all open listers vertically

Or you can **maximize/normalize any window** - simply hold down Left SHIFT and click the corresponding taskbar icon which represents the opened window.

Miscellaneous

Shell	Left AMIGA + S
SnoopDos	CONTROL + S
SysInspector	Left SHIFT + CONTROL + S
Exchange	Left AMIGA + E
Close window	ESC

Here are more!

- **Start Workbench** instead of Directory Opus - hold down the SHIFT key during the AmiKit boot process.
- Need **help with any Directory Opus window**? Press the HELP key (or PageDown) and the corresponding guide will appear. Or check the complete PDF manuals located in DOpus:Help drawer.
- **Lock your mouse cursor** to move only horizontally or vertically (depending on your last mouse move) - hold down the Left CONTROL key.

Configure your own hotkeys!

Right-click -> "Settings" -> "Hotkeys..." (or press Right AMIGA + 7)

Amiga keys don't work on your Mac?

Read how to fix their mapping in the [installation chapter](#).



MOUSE CLICKS

- DOUBLE CLICK on empty desktop space to **open a new lister instantly!**
- **Bring windows to the front** by a single MIDDLE mouse click (or left double-click on PiStorm). You can also use the left double-click on a window frame.
- **Edit file name, date, attribute or comment** easily. In Lister Name mode, click and hold down the left mouse button over the corresponding field to edit it.
- **Show the file specific action menu** - click and hold down your right mouse button over any file.
- To start AmiKit in **debug mode**, click and press the left mouse button during boot.

Control Mouse with Keyboard

- To **control your mouse pointer**, hold down the Left or Right AMIGA key and use cursor keys.
- **Simulate left or right mouse click** with Left AMIGA + Left ALT or Right AMIGA + Right ALT.
- **Access right-mouse button menus** by Space + Right AMIGA keys, then use cursor keys to navigate, Enter to select.



KNOWN ISSUES

Limitations of 64-bit WinUAE

By default AmiKit uses a 32-bit edition of WinUAE. If you insist on the 64-bit edition instead, make sure to lower the JIT Cache in WinUAE/CPU settings to avoid problems. Also, be aware that faster CopyMem routines (introduced in AmiKit 12) are not so fast with the 64-bit edition of WinUAE.

AmiKit Launcher on Linux and Mac

The “Guide” and “Get OS” buttons might not work on Linux or might launch with a delay on Mac. We’re sorry for the inconvenience.

AfA_OS

If an application fails to start or its GUI is corrupt due to oversized window borders, you can add it to the AfA blacklist settings in the icon tool types and it will use default OS dimensions instead:

AmiKit:Prefs/Presets/Skins/blacklist.info

Scalos

Scalos is included as an alternative to the default Directory Opus desktop or Workbench. Please note that its config is not as polished as DOpus. In addition, you might experience occasional bugs and crashes.

Icons

AmiKit has introduced modern DualPNG icons to the Amiga platform. They look really beautiful but some older programs might struggle to support them.

Miscellaneous

Directory Opus lister doesn't always refresh its content when it's modified by other programs. In that case press CTRL + R to re-read the drawer.

It might be problematic to change system settings, like Screenmode, Font, Palette and others **on the fly**. This is due to a conflict with other apps running at the same time, therefore a reboot is required.

Palette prefs can crash under certain AfA settings (mainly with extra large borders and fonts), if this is a problem, reduce their sizes.

Raspberry Pi Limitations

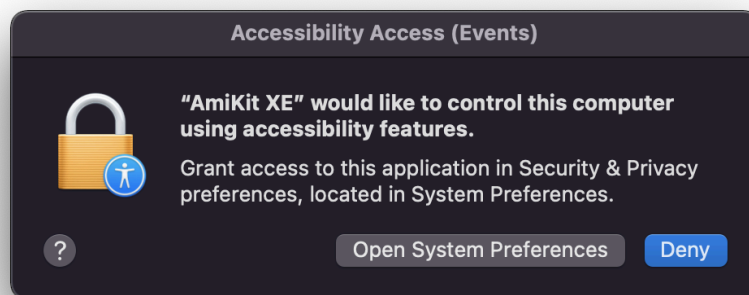
Please check the FAQ directly on the [AmiKit for Raspberry Pi page](#)

AmigaOS 3.1 and 3.1.4 Limitations

Please note that if you install AmiKit with old AmigaOS 3.1 (from AmigaOS 4.1 FE CD) or new AmigaOS 3.1.4 (from ZIP), there are some limitations. Besides limited language support, some programs requiring AmigaOS v3.5 or v3.9 might refuse to start because of the missing ReAction GUI widget toolkit engine.

macOS

macOS might bother you with the following request every time you launch AmiKit:



If you don't see the AmiKit XE app in the Accessibility list, you can try to add it manually by clicking the Lock icon first and then the + icon. If it doesn't work, remove the app from the list and try to add it again. But even that doesn't guarantee the result. We're sorry about that.

SUPPORT

New to Amiga / AmiKit / DirectoryOpus 5? Check some [Tutorial Videos](#)



For support join our friendly Amiga community on [Discord](#)



*Thank you for your purchase and support
-- Ján, author*