

Macstorm Lenovo M700 Tiny MacOS Ventura – how to create installation USB stick and how to install macOS on an SSD drive.

The Bios settings of the Lenovo M700 Tiny computer are very important and should be changed as follows (enter BIOS by pressing F1 shortly after the computer starts)

1. Startup setup
 - CSM support – disabled
 - Boot Mode - UEFI ONLY
 - Startup primary drive - set Your startup pendrive/drive
2. . Devices
 - Video Setup/IDG
 - Pre Allocated Memory Size – 64 MB
 - Total Graphics Memory - Max
3. Network setup
 - Boot agent - disabled
4. Secure
 - Secure Boot - disabled

Download the necessary files from our server.

Files are packed as ZIP and protected by a special password, which you receive immediately after purchase. By default, files are downloaded to the "download" folder.

Creating a Ventura installation USB stick with Paragon Backup Recovery 2013

This flash drive is used to install macOS Ventura exactly as it is on your original Mac.

You can do this on a **computer with Windows 7 , 8 or 10**, so you do not need a mac for this. Of course macOS Ventura /Monterey will only work on an Lenovo M700 Tiny computer.

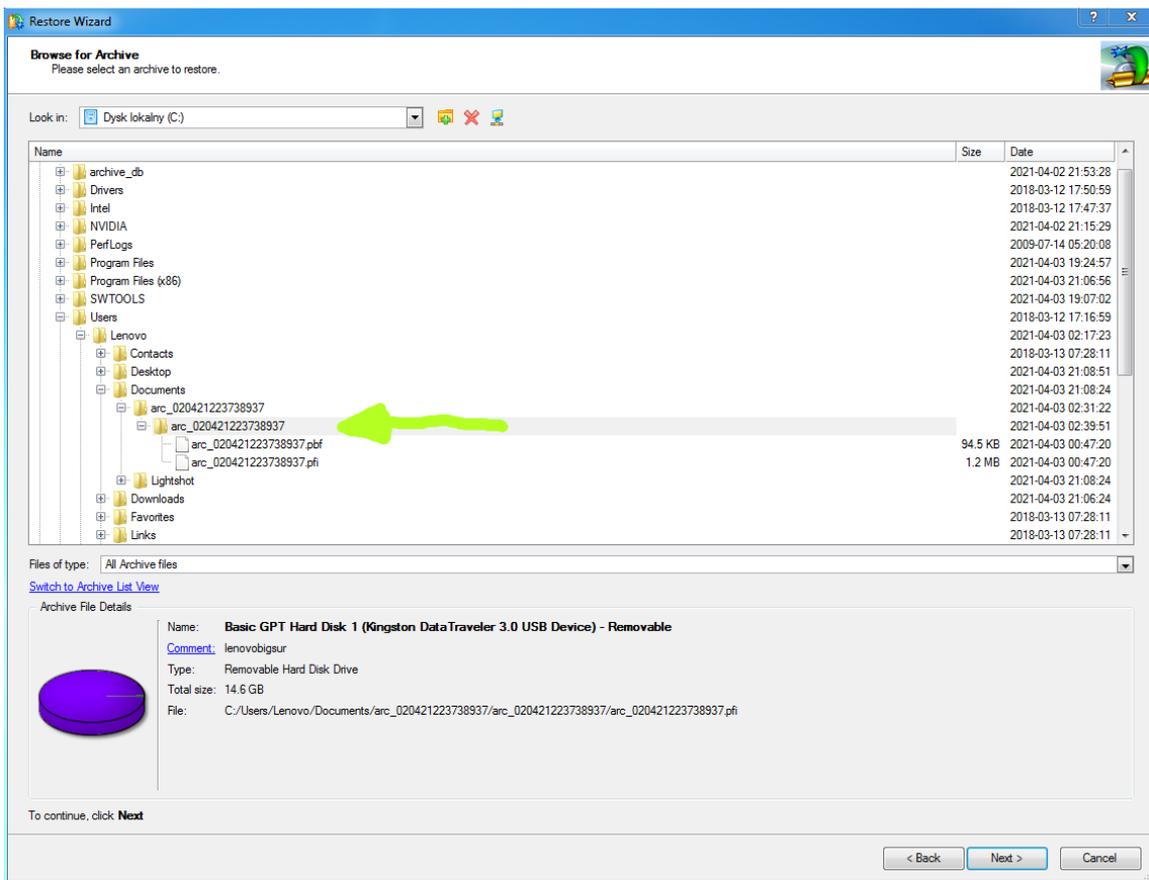
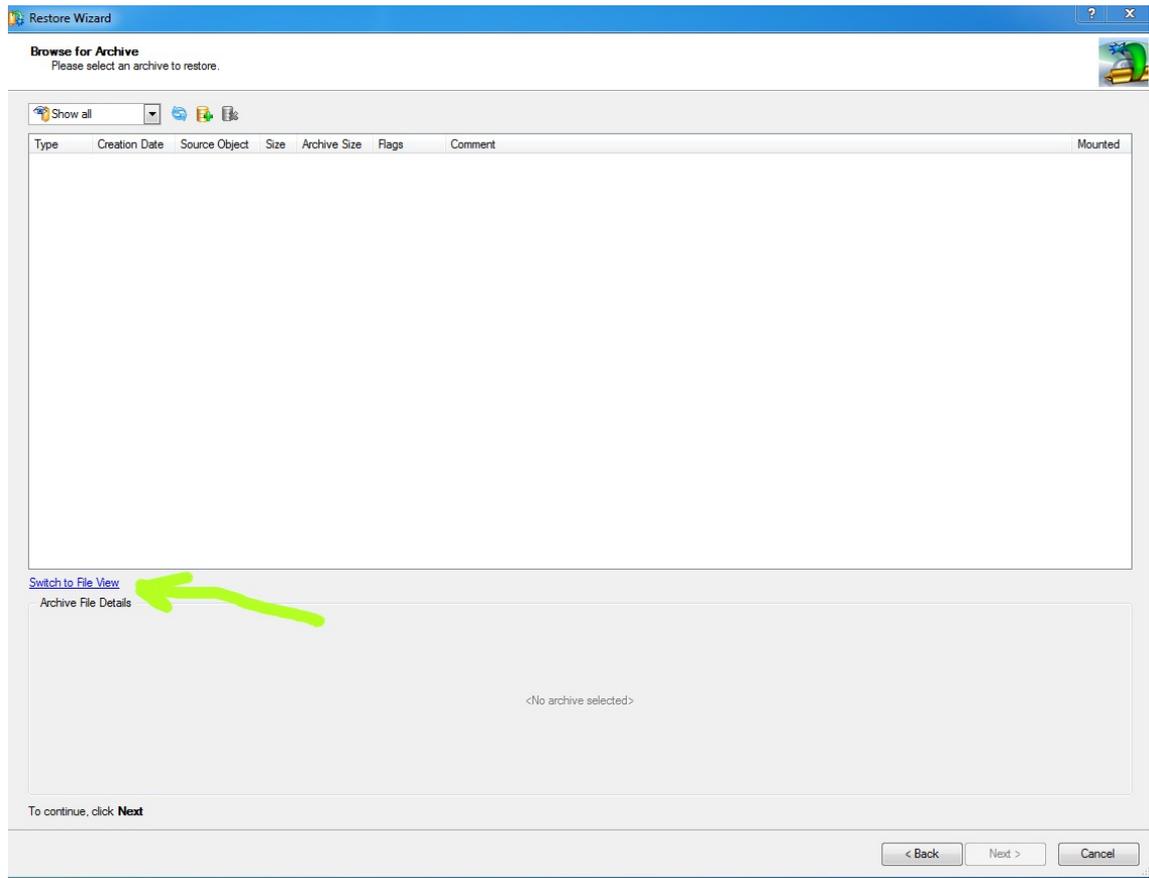
The software we will use is **Paragon Backup Recovery 2013**. The program (free version) is included in the files along with the serial number. We need to install it on a Windows computer.

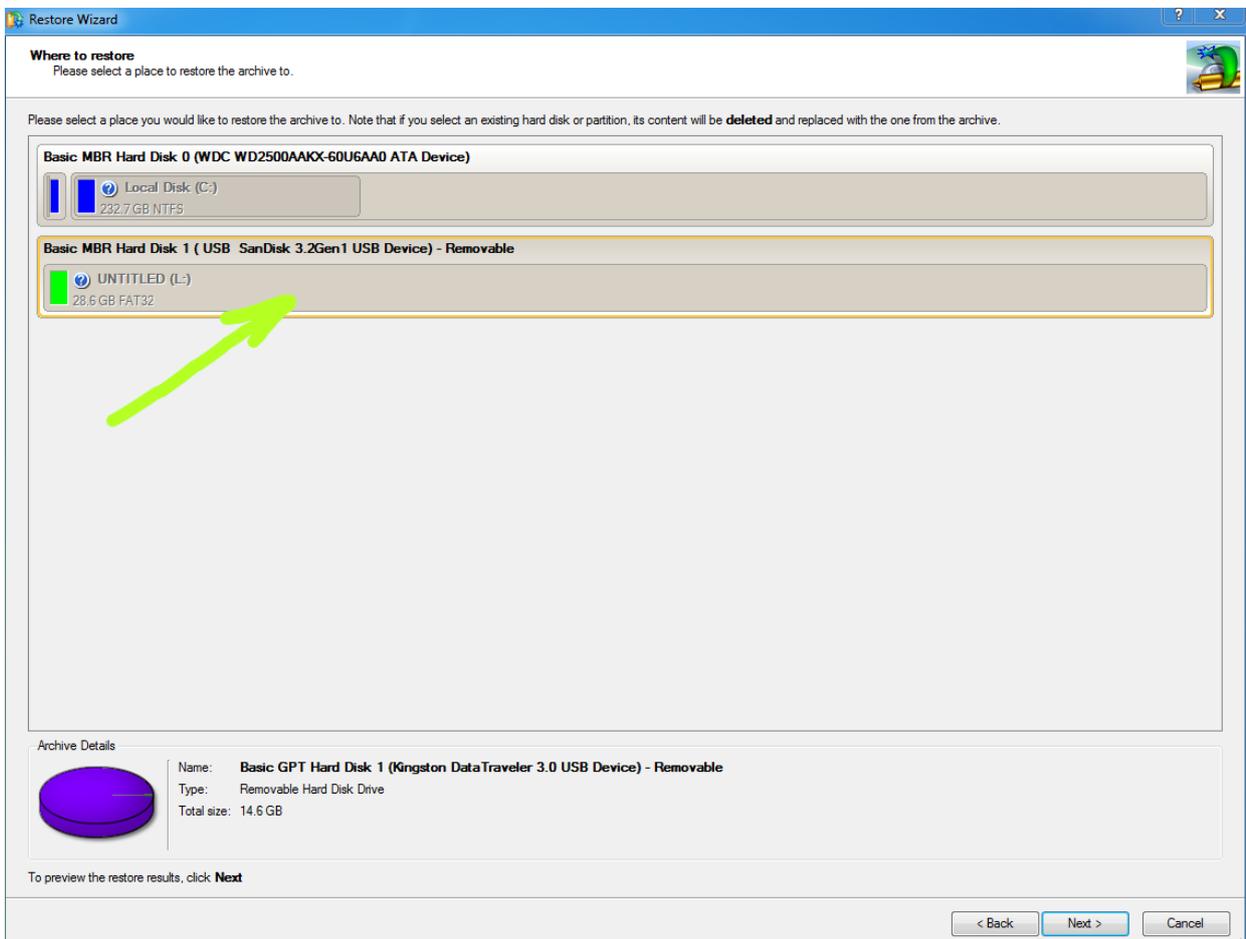
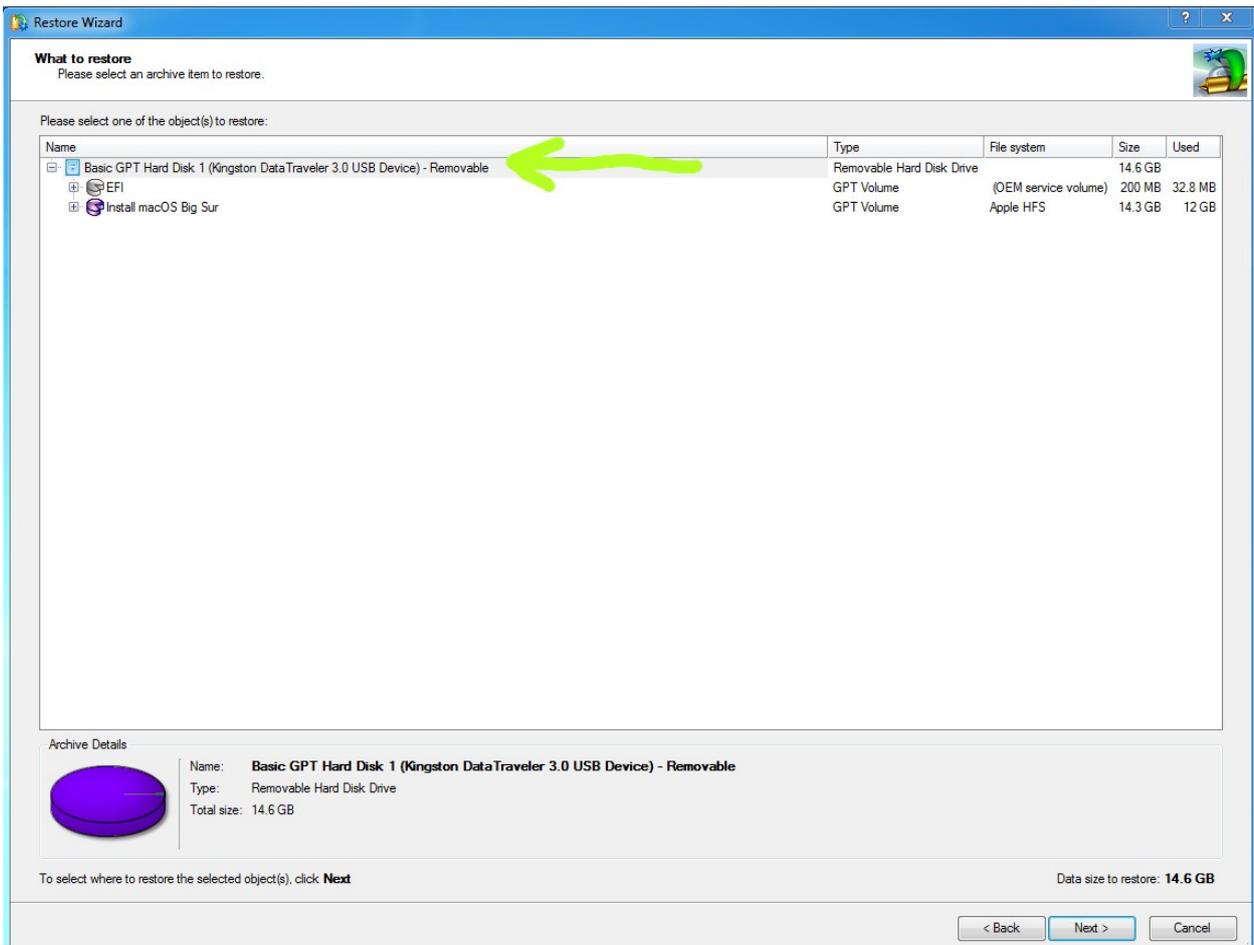
The files you will need are located in the downloaded 'ARC directory'. This is an exact digital copy of the installation USB stick. Recommended capacity of the memory stick is **minimum 16 GB**. The flash drive can be formatted in NTFS or FAT but with an MBR sector. The program automatically installs apple **HPFS partitions and a hidden EFI partition**. It is important to select the "arc" directory when "pointing" to a file for recovery, then two partitions will be recovered - apple HFS and EFI.

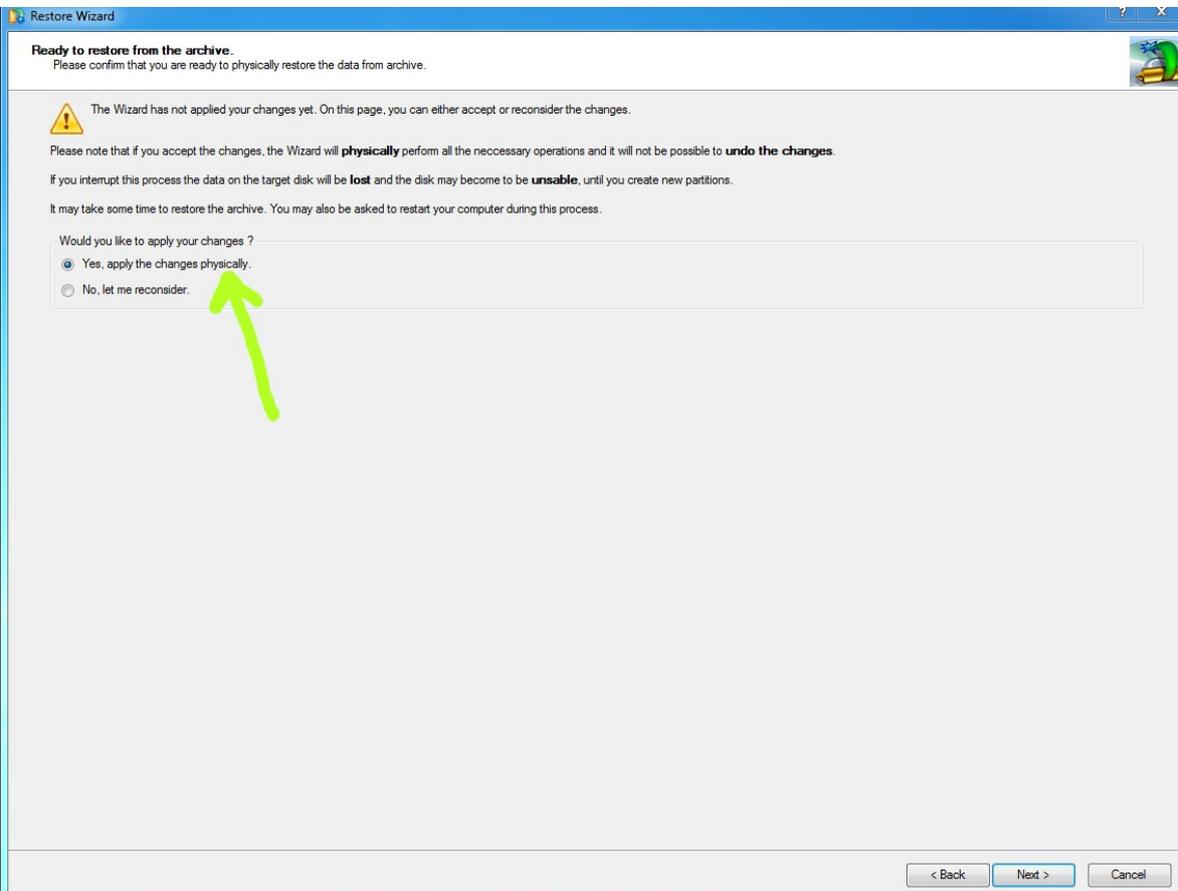
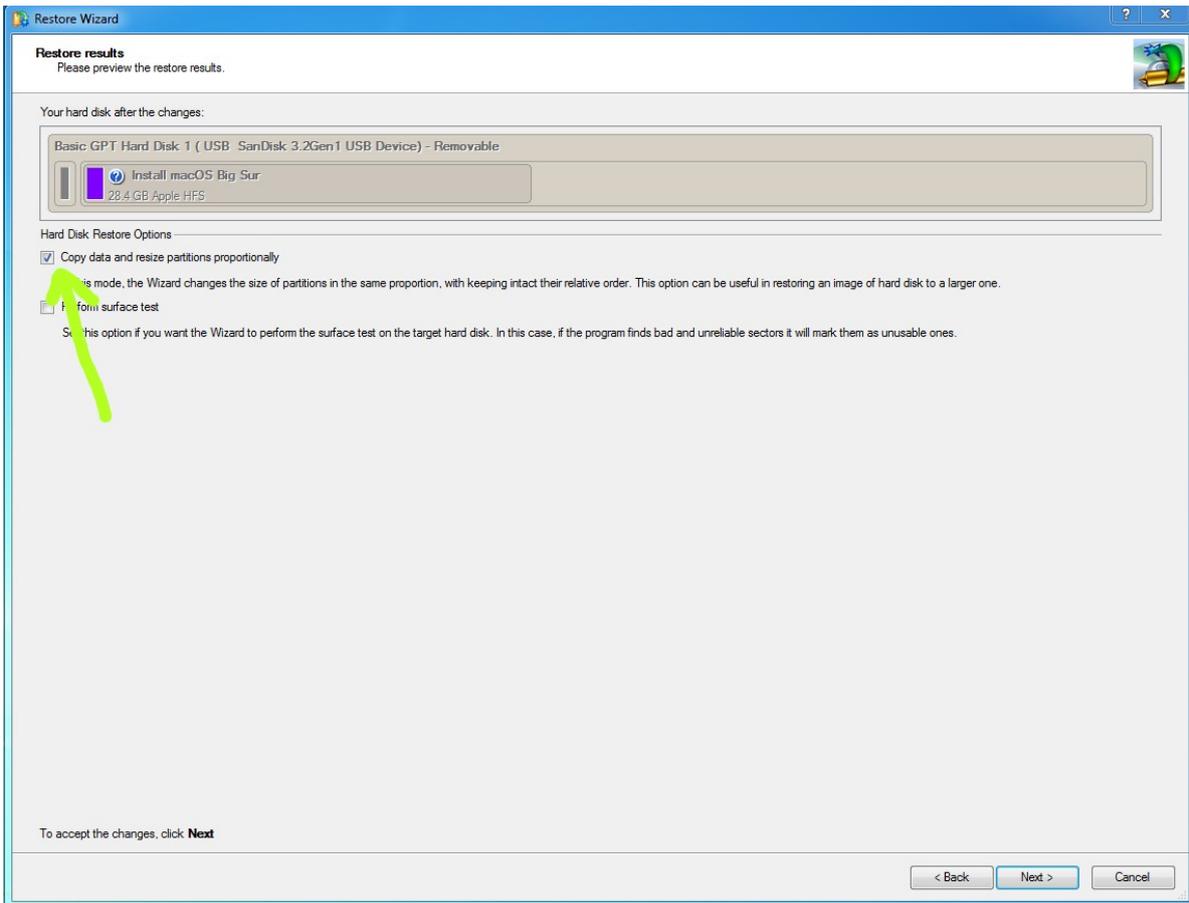
Selecting separate files results in recovery of, for example, one partition and not the entire flash drive. Likewise, then select "Basic GPT Hard disk..." and not the individual "Install macos BigSur" or EFI partitions.

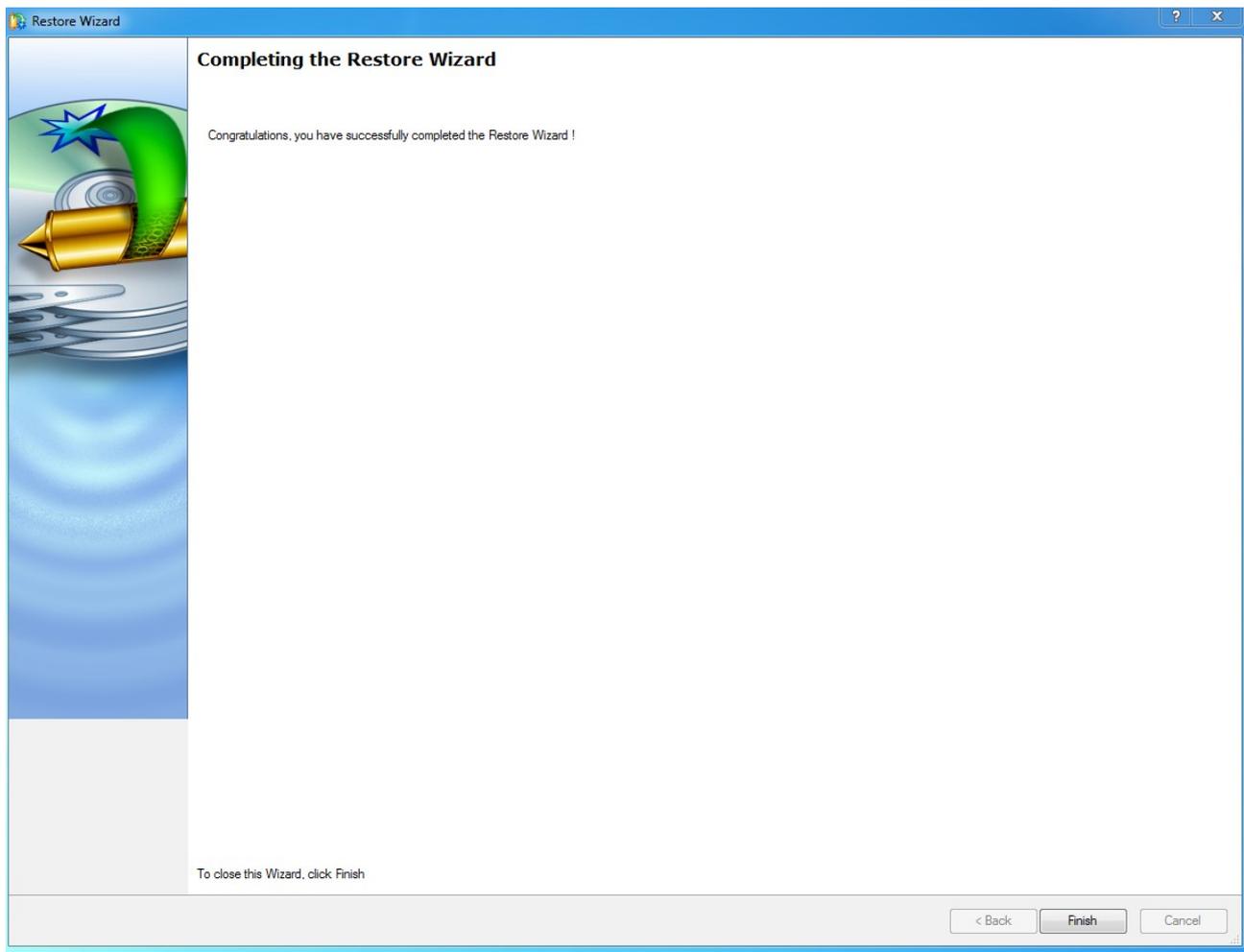
Below is a **step-by-step guide** to what to do and how to do it:











Installing macOS Ventura or Monterey with a flash drive

With the pendrive prepared in this way, set the bios to boot from the pendrive.

Note that it must be an EFI partition of the pendrive and not the pendrive itself, the system can boot only from EFI partition.

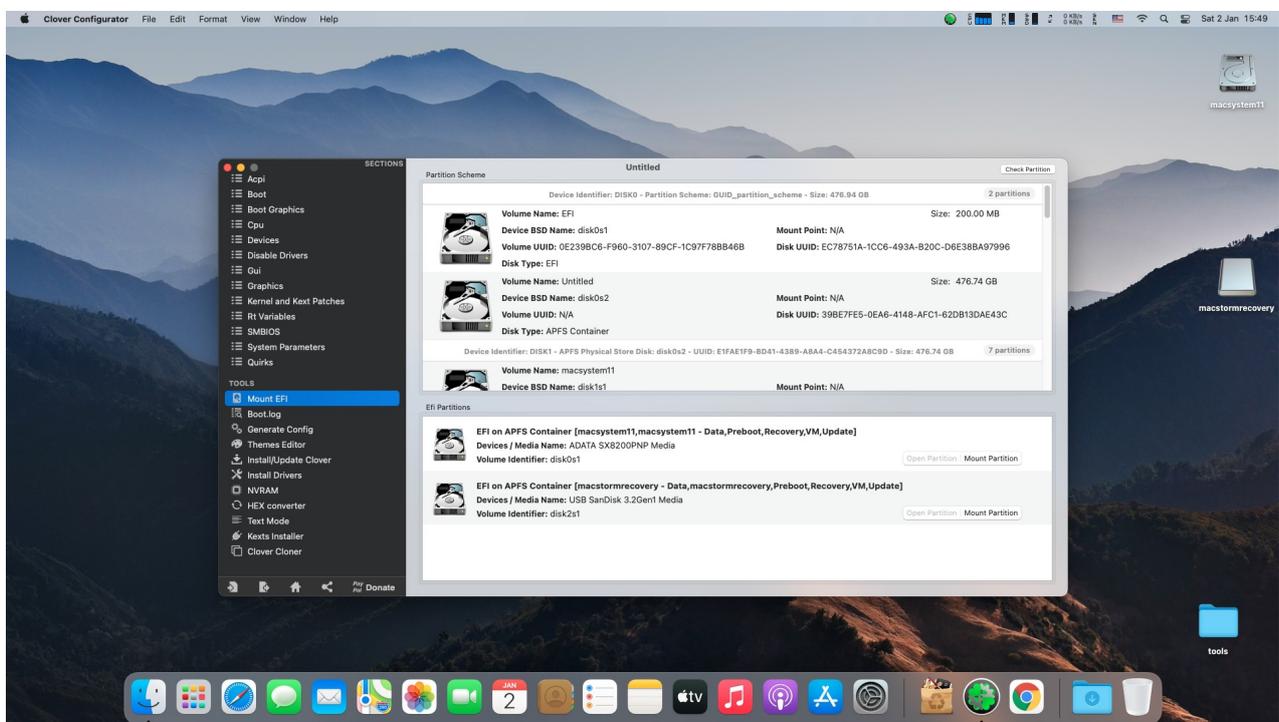
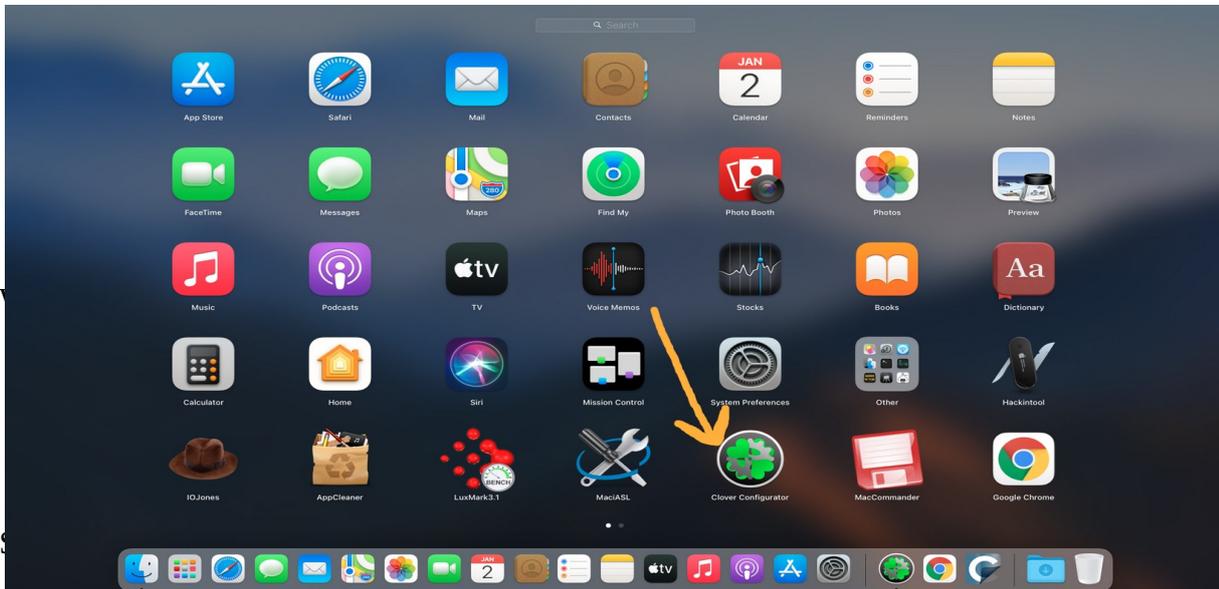
After starting the icon "Install macOS Ventura (or Monterey) " appears. Click on it and the installation of the system begins as on the original Mac. The installation runs in several stages, after each stage there is a restart. After the restart we always start from a new icon "Install OS". When the installation is finished a new icon "Macsystem...name" will appear. This means that the system was installed on the SSD. During the installation it is sometimes necessary to restart the computer, when the pendrive is not detected.

Just because we have BigSur/Monterey installed on an SSD does not mean that we can boot from it. For now, we can boot from the EFI partition of the pendrive and then boot from the disk. To make your SSD/M2 fully bootable, you will need to copy the EFI partitions from your flash drive to your SSD/M2.

Temporary macos password is „12345”

Copy EFI partition from pendrive to SSD drive

MacOS won't run on a PC without a proper bootloader and dozens of settings, drivers, patches, etc. This is all contained in a hidden EFI partition. This is where the "engine" that starts macOS Ventura/Monterey and lets you enjoy it on your Intel NUC. So we need to **copy the EFI partition from the flash drive to the EFI partition of the SSD**. We use the clover.app for this (it's in the files) which we just need to transfer to the application and run . The application gives us access to hidden EFI partition on pendrive and target SSD.



Click on Tools/Mount EFI

Search destination SSD and click on „Mount partition” Open EFI partition by click on „Open

partition” Search pendrive and click on „Mount partition”

Open EFI partition „Open partition”

Now copy the downloaded EFI directory from the EFI/pen drive to the EFI/SSD drive you can simply use the finder for this. Note it is important that there is an EFI directory on the EFI partition and other files in it. If there is no EFI directory the bootloader will not load



EFI partition must contain EFI folder .

It is almost over. But now we must copy legacy bootloader to SSD drive.