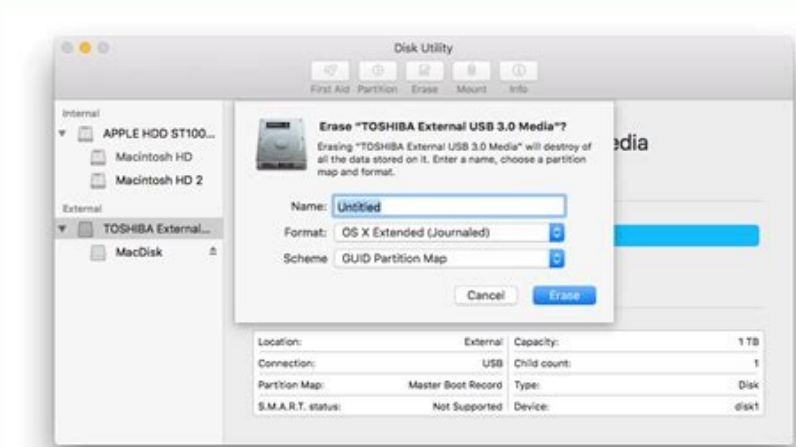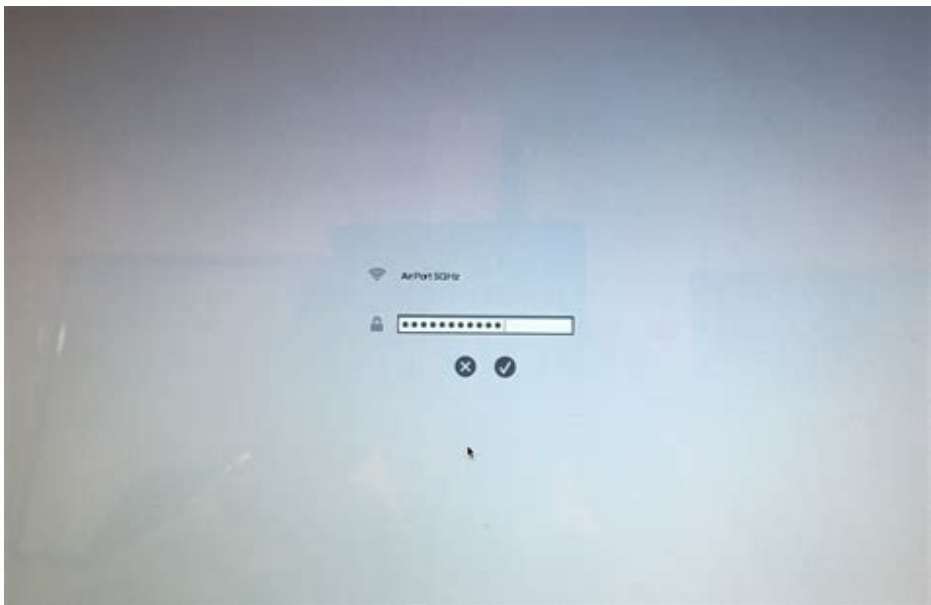# How to startup from macos recovery

Continue

macOS Sierra is the thirteenth major release of macOS published in 2016. Do you want to install macOS Sierra on your device? This post from MiniTool Partition Wizard offers the full macOS Sierra download and install guide. Released in 2016, macOS Sierra (version 10.12) is the thirteenth major release of macOS. Compared to the previous versions, this OS brought the following new changes: Siri was added to help users send messages, search the web, find files and adjust settings. iCloud Drive was added to help users sync documents and desktop directories to other devices. It also gives the user detailed information about space usage per application or file and provides tools and suggestions for freeing up space. Auto Unlock was added to help users unlock their user accounts by holding a paired Apple Watch close to the device. Universal Clipboard was added to help users to share the clipboard for cutting, copying, and pasting between macOS Sierra and iOS 10 devices, including text and rich content, such as pictures or videos. A preview of a new file system called Apple File System (APFS) was released to overcome the limitations of HFS Plus. Night Shift was added to reduce blue light at night to aid sleep. Improved Photos, Safari, Apple Pay, Messages, iTunes, Notes, Finder, Mail, and security features. Removed functionalities like the support for garbage collection and the native support for the VPN protocol PPTP. macOS Sierra Installation Requirements If you want to install macOS Sierra on your device, the device should meet the following requirements: iMac: Late 2009 or later MacBook: Late 2009 or later MacBook Pro: Mid 2010 or later Mac Mini: Mid 2010 or later Mac Pro: Mid 2010 or later In addition, your device should use OS X 10.7.5 or later OS and have at least 2GB RAM and 8.8GB free space. macOS Sierra Download To install macOS Sierra on your device, you should download it first. Copy this link to a browser: You will get a disk image named InstallOS.dmg. Open the disk image, then open the .pkg installer inside the disk image. It installs an app named Install macOS Sierra. If the above link is not working, you can click this macOS Sierra download link to get a compressed macOS Sierra ISO file. Open this file and you will also get that app. macOS Sierra Install If your device's OS version is lower than macOS Sierra, you can open the Install macOS Sierra app from your Applications folder to begin installing the operating system. If your device's OS version is higher than macOS Sierra, you need to install macOS Sierra through a USB drive. Here is the guide: Prepare a memory stick with large enough space and then reformat it in Disk Utility. Open Terminal and input the command "sudo /Applications/Install macOS Sierra.app/Contents/Resources/createinstallmedia –volume /Volumes/MyVolume". "MyVolume" should be replaced with the number on the USB drive that you have plugged into your system. Then, a bootable installer will be created. Connect the bootable installer to your Mac. Open System Preferences and click Startup Disk. Choose the external drive with your installer as the startup disk and click Restart. Your Mac will shut down and restart in Recovery You will need to connect to Wi-Fi because your Mac will need to connect to the internet during this process. Access Wi-Fi settings from the Wi-Fi menu. Select Reinstall macOS from Utilities. Click Continue. How to Fix: macOS Could Not Be Installed on Your Computer Are you interested in MiniTool Partition Wizard? This software can help you clone the system, manage disks better, and recover data. If you have this need, you can download it from the official website. © 2015-2022, The MITRE Corporation. MITRE ATT&CK and ATT&CK are registered trademarks of The MITRE Corporation. We use cookies on this website. By using this site, you agree that we may store and access cookies on your device Read More Got it! ALSO AVAILABLE AT FileVault full-disk encryption (FileVault 2) uses XTS-AES-128 encryption with a 256-bit key to help prevent unauthorized access to the information on your startup disk. FileVault 2 is available in OS X Lion or later. When FileVault is turned on, your Mac always requires that you log in with your current account password. Choose Apple menu () > System Preferences, then click Security & Privacy. Click the FileVault tab. Click , then enter an administrator name and password. Click Turn On FileVault. If other users have accounts on your Mac, you might see a message that each user must type in their password before they will be able to unlock the disk. For each user, click the Enable User button and enter the user's password. User accounts that you add after turning on FileVault are automatically enabled. Choose how you want to be able to unlock your disk and reset your password, in case you ever forget your password: If you're using OS X Yosemite or later, you can choose to use your iCloud account to unlock your disk and reset your password.* If you're using OS X Mavericks, you can choose to store a FileVault recovery key with Apple by providing the questions and answers to three security questions. Choose answers that you're sure to remember.* If you don't want to use iCloud FileVault recovery, you can create a local recovery key. Keep the letters and numbers of the key somewhere safe—other than on your encrypted startup disk. If you lose both your account password and your FileVault recovery key, you won't be able to log in to your Mac or access the data on your startup disk. Encryption occurs in the background as you use your Mac, and only while your Mac is awake and plugged in to AC power. You can check progress in the FileVault section of Security & Privacy preferences. Any new files that you create are automatically encrypted as they are saved to your startup disk. When FileVault setup is complete and you restart your Mac, you will use your account password to unlock your disk and allow your Mac to finish starting up. FileVault requires that you log in every time your Mac starts up, and no account is permitted to log in automatically. If you forget your account password or it doesn't work, you might be able to reset your password. If you want to change the recovery key used to encrypt your startup disk, turn off FileVault in Security & Privacy preferences. You can then turn it on again to generate a new key and disable all older keys. If you no longer want to encrypt your startup disk, you can turn off FileVault: Choose Apple menu > System Preferences, then click Security & Privacy. Click the FileVault tab. Click , then enter an administrator name and password. Click Turn Off FileVault. Decryption occurs in the background as you use your Mac, and only while your Mac is awake and plugged in to AC power. You can check progress in the FileVault section of Security & Privacy preferences. Learn how to create and deploy a FileVault recovery key for Mac computers in your company, school, or other institution. If you're using FileVault in Mac OS X Snow Leopard, you can upgrade to FileVault 2 by upgrading to OS X Lion or later. After upgrading OS X, open FileVault preferences and follow the onscreen instructions to upgrade FileVault. RAID partitions or non-standard Boot Camp partitions on the startup drive might prevent OS X from installing a local Recovery System. Without a Recovery System, FileVault won't encrypt your startup drive. Learn more.* If you store your recovery key with Apple or your iCloud account, there's no guarantee that Apple will be able to give you the key if you lose or forget it. Not all languages and regions are serviced by AppleCare or iCloud, and not all AppleCare-serviced regions offer support in every language. If you set up your Mac for a language that AppleCare doesn't support, then turn on FileVault and store your key with Apple (OS X Mavericks only), your security questions and answers could be in a language that AppleCare doesn't support. Helpful? Thanks for your feedback. Apple has improved macOS's upgrade process tremendously over the years. With recent releases, it's rare something goes pear-shaped and prevents an upgrade from completing. However, you can sometimes wind up in an in-between state, as one reader found. Your accounts migrated with all their data, but on each restart, macOS loses changes to startup items, System Preferences settings, and even app registrations. The startup volume passes all tests with flying colors: safe mode, First Aid in Disk Utility, reinstalling the operating system into macOS Recovery, and the like. At this stage, you have only two options: Use Migration Assistant to essentially "reinstall" your main user or any affected macOS users.Erase the drive and perform a fresh migration omitting network and other settings.Erase, reinstall macOS, create a new user, migrate apps, and manually copy over your user files.In all cases, you don't change any of your files or make any deletions. The problem appears to be in how macOS tracks what it should be consulting at startup. Reinstall your user via Migration Assistant You typically use Migration Assistant to move over a previous startup volume to a new Mac or a similar transfer. However, Migration Assistant lets you install specific users from a backup volume. Warning: The following steps log you out of your account to perform the migration. Pick just an account to migrate to "reinstall" its files. Create a fresh Time Machine backup if one wasn't created since the last time you made any changes to the account's files. (You can also use a cloning app, like Carbon Copy Cloner or SuperDuper!)Launch Applications > Utilities > Migration Assistant.Click Continue and authenticate. This logs you out of your account and into Migration mode.Select your Time Machine drive or other backup and click Continue.Choose the specific backup if there are multiples, and click Continue.From the "Select the information to transfer" window, check the account or accounts with which you're having problems and click Continue. (Note: You need at least as much free space on your startup volume as shown next to each account.)You're prompted to rename the accounts, as they would otherwise overlap with existing accounts on this Mac.Follow prompts to complete the restoration.When finished, log in to the "new" version of your faulty account.Delete the old account when you're sure the new one is working. Try making changes that previously failed. If they work now, you can delete the older account: In System Preferences > Users & Groups, click the lock icon and authenticate yourself.Select the older user account and click the minus sign at the bottom of the accounts list.Choose "Delete the home folder" and click Delete User. Confirm deletion. (Since you have a backup of this account and have a copy on your drive, you should have enough backups. You can also opt for "Save the home folder in a disk image," but need that much storage space to make that copy.)If the above didn't get you back to your previous working state, try the next two solutions. Perform a full reinstall and restore You can take more drastic measures at this point if the above didn't work: After ensuring you have two distinct copies of your files backed up and secure, restart your Mac into macOS Recovery.Select Disk Utility and click Continue.Select your startup drive and erase it, then partition it, as explained in this article.Quit Disk Utility, select Reinstall macOS, click Continue, and follow the prompts.Restart into macOS and choose your backed-up volume to use with Migration Assistant. Follow the prompts, but do not check System & Network-despite the innocent-sounding name, unchecking it has been the solution to some knotty migrations I've had in the past.When complete, does your account now preserve changes? If so, stop here and make a fresh backup. If not, there's one more thing to try. Migrate to a new account manually Because you reinstalled macOS in the previous step and migrated all your applications from the backup, you can avoid both of those operations. Instead, you're going to create a fresh account and move your files there. Go to System Preferences > Users & Groups and create a new account: click the + sign, name the account, and give it administrative privileges. Because Apple doesn't let you typically copy directly from account to account without messing around with permissions, you can use the Users > Shared folder as an intermediate step. First, while logged in to your broken user account, copy everything you need to the Shared folder. Most of your personal files likely live in Documents and Photos: hold down the Option key and drag those into the Shared folder. Do the same for other files. (You can hold down Command instead of Option to move those folders to Shared if you lack enough storage and can rely on a backup of your main user account if you need to resort to it.) Next, log out of this faulty account and into the new one you created. Run through setup steps, such as logging into iCloud and other Apple ID accounts.Command-drag files from the Shared folder into the new account's location.Launch the apps you need to use and reconnect libraries and re-enter registrations.It may be difficult or time-consuming to set up some app, particularly those that have elaborate permissions. Use the app developer's Web site to find if the company offers instructions on finding the settings files—often deep in ~/Library/ in various subfolders like Application Support and Preferences. Also turn to a search engine for help from others who have gone through the same restoration. This Mac 911 article is in response to a question submitted by Macworld reader Michael. Ask Mac 911 We've compiled a list of the questions we get asked most frequently, along with answers and links to columns: read our super FAQ to see if your question is covered. If not, we're always looking for new problems to solve! Email yours to mac911@macworld.com, including screen captures as appropriate and whether you want your full name used. Not every question will be answered, we don't reply to email, and we cannot provide direct troubleshooting advice.

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