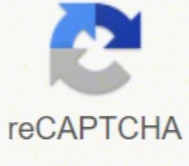




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## Hackintosh mojave vanilla guide 2020 pdf download pc

Pick whatever your budget allows. FakePCIID Intel HD Graphics.kext - Spoof unsupported iGPU ID IntelMausiEthernet.kext, RealtekRTL8111.kext, AtherosE2200Ethernet.kext - Enables ethernet port for Intel, Realtek, Atheros chipset (only pick one) After downloaded all kexts, move it to your USB EFI partition under EFI/Clover/kexts/other. Use values from Mac model that is closest to your build. Ryzen-Hackintosh) You'll miss the opportunity to learn about boot process, EFI, Clover, how to setup virtual SMC, SMBIOS, etc. This is where we will be working on later. WiFi and Air Drop works perfectly! Note: Currently there is no Apple machine that support 802.11ax standard. And that's it for my vanilla hackintosh guide. It also handles kext injection, ACPI renames, kext patches, and a ton of other functions.Kexts - the word "kext" is actually the combination of Kernel Extension; and you can think of kexts simply as drivers for macOS.Config.plist - this is the file that tells Clover what to do. Try to stick with Broadcom and you'll be fine. When something's broken, you are clueless where to start looking. If you pick theme that doesn't exist, Clover will revert to a fallback, ugly, low resolution boot menu. So the more supported hardware you have, the less kext you'll need. So in the macOS Utilities menu, goto Disk Utility and then erase your target disk. Kernel and Kext Patches You can apply a custom kexts patch here. I will also provide my config.plist setting below for your reference. Thus you'll get an identical (or almost identical) experience with using a real Mac. RAM/harddisk You should have at least 8GB RAM and SSD drive for your hackintosh. When booting up, these kexts and information will be injected into macOS to make it think it's running on Apple's hardware. Keep the Clover Configurator on your hackintosh so you don't have to re-download it every time you need. You can change Mac model, BIOS version, board and machine serial number, etc. Multibeast/Unibeast, etc.) This is the easiest way to build a hackintosh for beginners since the installer does most of the jobs for you. On the other hand, AMD Ryzen CPU, Nvidia cards and Realtek Wifi cards are much more tricky to setup and require several kexts to work. You'll also need NullCPU/PowerManagement.kext as well. But since we're going to use it to boot our PC, we'll need to install Clover Boot Manager. FAKEPCIID.kext - Spoof CPU ID for unsupported CPU like Pentium. Our hackintosh bootable USB drive is finally ready! BIOS Setting You'll also need to make change to BIOS setting to make it compatible with macOS. Why Vanilla Method? Boot You can config boot argument like enable verbose mode (-v) to show the boot log instead of Apple logo, enable debug mode (debug=0x100) to avoid kernel panic when there is an issue (causing boot loop) or choose a default boot drive. What does that even mean?A vanilla setup implies that the OS itself remains relatively untouched - and that the bulk of the Hackintosh-related kexts, patches, etc are contained on the EFI partition. This is where you can remap/modify certain hardware definition in Differentiated System Description Table (DSDT). Load your default factory setting (this is to clean any previous setting you have and start with clean slate) Disable CPU VT-d (VT-d enable access to hardware from inside virtual machine) Disable Secure Boot Enable XHCI Handoff Change OS Type to Other (If your BIOS has this option) Enable iGPU if you want to use it/ Disable if you're using external card Disable Fast Boot Disable CSM Support (If your BIOS has this option) Disable all Trust computing or BIOS guard options Change SATA Mode selection to AHCI Then change boot priority to boot from your USB drive and save. (ex. Your hackintosh should now be able to boot on its own. All the kexts in this folder will be injected during the boot regardless of macOS version. The next step is to setup boot parameter and preparing kexts files. Also all the kexts, boot argument and device configuration will be in the same place so you'll know where to fix them when something goes wrong. Installing Windows on drive A, macOS on drive B) After the bootloader and SMC validation, the OS will start loading drivers. Follow the instruction on the screen and select our USB drive as destination. Hope you guys enjoy! Once finished, the drive will be renamed into "Install macOS Catalina" sudo /Applications/Install macOS Catalina.app/Contents/Resources/createinstallmedia --volume /Volumes/USB Now this USB drive will be able to boot on any real Mac. Setup Boot Configuration When Clover is booting macOS, it will look at a system configuration file name "config.plist". Though natively supported, some find issues when not having this kext (Required Lilu.kext to work) AppleALC.kext - Enables audio on your hackintosh. This spec is almost identical to iMac 18,2. But vanilla method will place all the extra kexts in EFI partition and inject them during the boot instead. For example, you can change SATO to SATA for better SATA device compatibility. AMD RX560 and RX570 is a very good budget choice while Vega 64 and RX 5700 XT series are for performance build. In this tutorial, we're going to download Catalina 10.15 One downloaded, insert your USB drive and open DiskUtil. Devices You can fix device compatibility issue like USB, Audio and unsupported GPU in this tab GUI You can customize Clover boot menu such as changing resolution, theme and custom icons. Then open a Terminal from menu bar and type the following command. Now config.plist is ready. Intel chipsets don't work with hackintosh at all and there is no workaround yet. FakeSMC - This is a Mandatory kext to fake the SMC signal as I have mentioned above. Multibeast/Unibeast method modify the macOS by placing all the kernel extensions or "kexts" inside (/system/library/extensions) along with some other modifications. We do not encourage the violation of Apple's EULA or any commercial usage of hackintosh \*\*\* What is Vanilla Hackintosh? The original kexts of macOS are resided in /system/library/extensions of the OS partition. First is to use a universal installer to install a "modified" version of macOS (ex. Vanilla hackintosh don't have this problem because all the kexts and configurations will be placed in EFI (Extensible Firmware Interface) partition which is separate from OS partition. WiFi Most of the Broadcom chipset PCIe WiFi card work out of the box. For me, it's iMac 18,2. sound or wifi doesn't work) Try to verify if you're using the right kext for your hardware, check the config.plist setup or monitor your boot log when macOS is loading. (Mac has a USB port limit at 15 which is not enough, as USB 3.0 will be counted as 2 ports) Rt Variables/SMBIOS/System Parameters This is all about your hackintosh information. By leaving the OS partition intact, we'll be able to use this partition to boot with any Mac or other vanilla hackintosh. Eject the USB drive and try restarting it. Clover allows you to customize boot arguments, patching firmwares, changing device description/serial numbers, system parameters and several important things. But the lower end chipset like H370 or even H310 should work perfectly fine. This is when we'll inject our manually selected kexts files into the OS. This is to install Clover bootloader and UEFI driver to help our Clover load macOS. For example, I applied a kexts to extend USB port limit. Then place them into a separated EFI partition, leaving macOS main partition intact and identical to a real Mac. Mainboard It's a great idea to pick higher end chipset like Z370 for USB-C and USB 3.1 gen2 ports. Select "Boot Install macOS from Install macOS Catalina" or "Boot Install macOS from HFS+ volume" You'll see boot log due to -v boot argument we set in config.plist Like Windows, before you can install the OS, you'll need to format the drive first. "fake" device serial number, SMBIOS, firmware fixes and boot parameters) The file will be in XML format. The next step is to prepare kext files Preparing Kexts As I have mentioned before. To browse EFI partition, you'll need to mount it via Clover Configurator (or via terminal command if you'd prefer the hard way) Now once you open the config.plist with Clover configurator, you can start customizing the setting. And your hackintosh is almost ready. Real macs have a custom firmware that allows them to boot macOS. Hackintosh Build Steps Create Bootable USB For this part you'll need a Mac machine and a USB drive with at least 16GB. WhateverGreen.kext - Enables AMD graphic cards. Here is a very cheap Broadcom card that I use with my hackintosh. It's an XML formatted property list (looks very similar to HTML) and is one of the most important parts of setting up your Hackintosh.OOB - an acronym for Out Of The Box that implies working support without tweaking.More will be added as I work on this guide (probably)This guide focuses on Desktops ONLY. First download the latest release from Github and open the package. This will also create an EFI partition on your disk and automatically mounted (if not, you can use Clover Configurator to mount it) Delete EFI folder inside your disk's EFI partition. But if you're aiming for a budget hackintosh using Pentium, then you'll need NullCPU/PowerManagement.kext and FakeCPUID.kext to spoof CPU ID and fool macOS that it's running on a Core CPU. You can check the SIP status by using csrutil status Now run the Clover EFI Installer. BCM94360 and BCM94352Z are known chipsets that work perfectly with hackintosh. And here comes our first and mandatory kexts for all hackintosh - "FakeSMC" To inject the information and kexts into macOS, we'll need "Clover" boot manager. However, there is much easier way. For all intents and purposes, a vanilla install's main partition is identical to that of an official Apple computer.There's a number of terms you'll be seeing throughout this guide - I'll outline a few of them and their definitions here:Clover - this is the bootloader we'll be using. (Required Lilu.kext to work) HDMAudio.kext - If you use a monitor built-in speakers via HDMI, you will need this kext. (i5-7500 and i3-9100F both have 4 cores and close speed) Below is a brief guide on how to pick your hardware CPU Intel Core series is known to work out of the box without extra kexts needed. These is a new version call VirtualSMC but I decided not to use it due to some people reported about compatibility issues. Post Installation Tasks Now on your hackintosh, download Clover EFI and install it on your disk using the same setting as we did with USB drive. And another one is "Vanilla" install (like Vanilla JavaScript) which you have to prepare all the required kernel extensions and setup configuration file from scratch. Congratulations! you have successfully built your own vanilla hackintosh!! Troubleshooting If there is any issue with your hackintosh (ex. Understanding Hackintosh Boot Process When you power up a real Mac, a system management controller chip (aka "SMC") will send information of all your hardware to macOS. This file contain vital system information which your hackintosh required to boot (ex. This is the main difference between multibeast/unibeast and vanilla method. Also name the drive as "USB" for simplicity) The open terminal and type below command to create a boot drive. Since hackintosh doesn't have SMC, we'll need to fake it. Once Clover has been installed, a new EFI partition will be created on your USB. Then follow the screen instruction. Unfortunately, there is no universal solution. 10.13, 10.14 etc.) but personally, I'd prefer placing all kexts in one place to prevent confusion. Updating macOS could break or remove your hackintosh config Since OS partition is tampered, you can't use it to boot with real Mac or any other vanilla hackintosh Limited options to troubleshoot your Mac since everything has been done by the Multibeast. You'll need to spend some time to research which setting you really need for your build. Then click customize button and select the following option. Here is a very good explanation which option you'll need for a specific hardware. So we're stuck with ac card for now. There are other guides out there for laptops (see RehabMan's guide at TMac) - but they're often much more specific than this guide will be.We'll need a few things to get us started:1.2.The Install OS X/macOS.app (preferably downloaded direct from the app store)3.Clover's Install Package (courtesy of Dids)4.Make sure you get the Global edition5.VirtualSMC.kext - this supercedes FakeSMC.kext as our SMC emulator and either VirtualSMC or FakeSMC is vital to booting our Hackintosh. Kext acts as a driver. Now on your mac, download the OS installer from App store. Limited options for a unique/unsupported hardware build (ex. However, it still can't boot on its own without the USB drive. As for Ryzen build, you'll need extra ACPI patch. You will need to disable your Mac System Integration Protection (SIP) before you can run Clover EFI Installer. Now this USB will "almost" be able to boot on PC. On the Clover menu, select "Boot macOS Install from [your disk]" and continue the install process until it reboots again. To disable SIP, restart your Mac, and boot into recovery mode by holding Command-R until you see an Apple icon with progress bar. ACPI Advance Configuration and Power Interface or ACPI. First Clover will allow macOS to load its bootloader, then start injecting the "fake" info and kexts. Then quit Disk Utility, return to the main menu and select "Install macOS" Follow the screen instruction here until your hackintosh reboots. This works well for most of the time but there are some catches. Here is the list of popular kexts that are often used. Without one of them, we'd never boot.6.Any other kexts for our mobo/etc.We'll go over this in the next section!7.Some patience, persistence, and google-fu \*\*\*Disclaimer: This vanilla hackintosh guide/tutorial is only for educational purpose. PC hardware needs a little help to get this working; Clover helps us achieve that. Then copy the EFI folder from your USB drive into it. This is to ensure the OS that it's running on a genuine Apple machine and also provide the hardware configuration. Mainly for anyone who would like to try macOS experience before buying a real mac or get a better understanding of Mac boot process. You can use any text or code editor to change it in raw format. This time, select "Boot macOS from [your disk]" and follow the process. USBInjectAll.kext - Make your USB ports work (Mandatory) You'll also need to download XHCI-unsupported.kext to enable USB 3 speed. Now kexts and config.plist are setup. You can download and use Clover configurator tool from here. Installing macOS Now boot up your PC, you should see a clover boot menu. And with the right kexts selection and good boot configuration, your hackintosh will work like a real Mac. It also give you an option to install multiple OS and boot them selectively. Use Mac OS Extended (Journaled) file system. For example, Intel Core series CPU, AMD RX graphic Cards and Broadcom Wifi card are known to natively supported by the macOS and don't require any extra kexts to work. Also please note that RX550 is not supported. You can look at Mac spec on this everymac.com and copy their build (or at least similar) For example, I'm using Intel Core i3-9100F 3.6GHz, MSI RX570 4GB Graphic card and 16GB RAM for my build. Hardware Selection If you choose to build hackintosh from scratch, you should consider picking hardware that are supported by Apple for maximum compatibility and easier setup. If your hackintosh build has Apple supported hardware, you will only need a few kexts. You can also place kexts in a specific folder to inject kexts for specific OS version (ex. Also don't forget to check if the generated serial number is already in use by using "Check Coverage" button. There are some AMD card brands you should avoid based on community compliant such as AFOX, XFX, PowerColor and HIS. For those of you who doesn't have Mac, you can follow this tutorial to setup a Mac virtual machine on Virtualbox. The more the better. This will take some time. There are 2 popular ways to install macOS into non-Apple hardware. All Nvidia cards will NOT work with any macOS higher than High Sierra (10.13) So if you want to install Mojave or Catalina, use AMD card or Intel iGPU instead. (Clover configurator is not associated with Clover Boot Manager despite the name) config.plist should be automatically created and placed in your EFI partition under /EFI/Clover/ folder. This guide is a good start. We'll erase the drive and format it to Mac OS Extended (Journaled) file system. You can check the supported audio chipsets here. You should choose a WiFi card that has Bluetooth capability in order to make AirDrop works. csrutil disable Then restart your Mac again to make the change. Graphic Card This is very important.

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