

## How to install Mac OS Monterey on unsupported MacBook Pro

I have MacBook Pro 11 - 2013 model. This model cannot be upgraded to Monterey from Apple site. We have to do it other way using a patch which, I will describe in great detail later.



First run this command to find out the model and the year to make sure patch is compatible to the hardware you have.

Open Terminal and run this command - `system_profiler SPHardwareDataType | grep 'Model Identifier'`

```
Last login: Wed Nov 10 13:03:11 on console
[admin@WIN11 ~ % ^M
zsh: command not found: ^M
[admin@WIN11 ~ % system_profiler SPHardwareDataType | grep 'Model Identifier'
      Model Identifier: MacBookPro11,1
admin@WIN11 ~ %
```

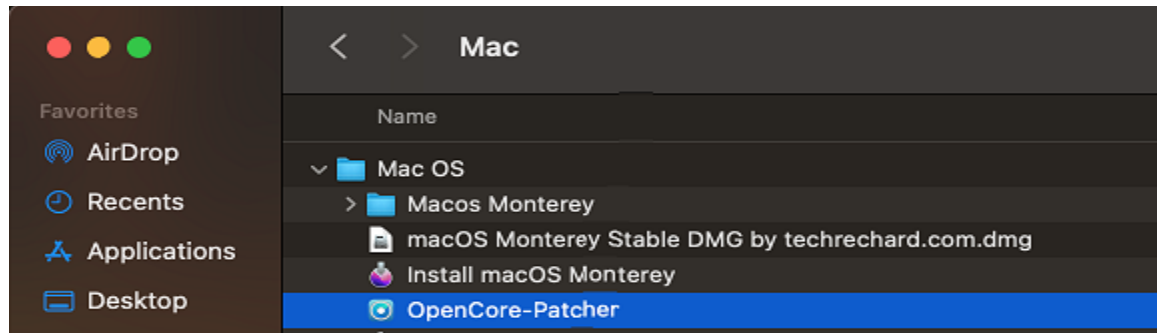
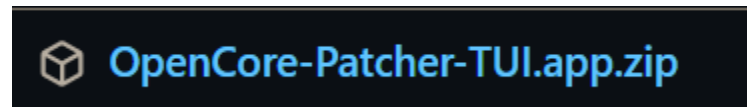
<https://dortania.github.io/OpenCore-Legacy-Patcher/MODELS.html> - The patch will work for these models listed in the link. I took a screen of my MacBook Pro listed in the link per Terminal output.

MacBookPro10,2	Late 2012, Early 2013		Everything is supported
MacBookPro11,1	Late 2013, Mid-2014		
MacBookPro11,2			
MacBookPro11,3			

I have created USB stick with Monterey OS already. If you need instruction check my blog- [How to create a bootable USB stick for new MacOS Monterey | INFOTECHRAM INC.](#)

I have plugged in the USB stick with Monterey OS. Downloaded the patch from here – extracted and copied to Applications folder on the MacBook Pro.

<https://github.com/dortania/OpenCore-Legacy-Patcher/releases/tag/0.3.1>



Now open the patch and follow the screen shots.

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: █
```

Type Option 5 Patcher Settings to Enable verbose mode

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: 5█
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Patcher Settings #
#####

1.  Debug Settings
2.  Security Settings
3.  SMBIOS Settings
4.  Boot Volume Settings
5.  Miscellaneous Settings
6.  Dump detected hardware
7.  Allow Accel on Mojave/Catalina:      Currently False
8.  Allow OpenCore on native Models:      Currently False
9.  Advanced Settings, for developers only
Q.  Quit

Please select an option: 1
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Debug Settings #
#####

1.  Enable Verbose Mode:      Currently False
2.  Enable OpenCore DEBUG:    Currently False
3.  Enable Kext DEBUG:        Currently False
Q.  Quit

Please select an option: 1
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Set Verbose mode #
#####
Enable Verbose mode(y/n/q): y
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Debug Settings #
#####

1.  Enable Verbose Mode:      Currently True
2.  Enable OpenCore DEBUG:    Currently False
3.  Enable Kext DEBUG:        Currently False
Q.  Quit

Please select an option: q
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Patcher Settings #
#####

1.  Debug Settings
2.  Security Settings
3.  SMBIOS Settings
4.  Boot Volume Settings
5.  Miscellaneous Settings
6.  Dump detected hardware
7.  Allow Accel on Mojave/Catalina:      Currently False
8.  Allow OpenCore on native Models:      Currently False
9.  Advanced Settings, for developers only
Q.  Quit

Please select an option: q
```

Now we will Build OpenCore – Option 1

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: 1
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
- Found Wireless Device 14E4:43A0
- Adding AirportBrcmFixup.kext 2.1.3
- Setting Wireless Card's Country Code: US
- Found ARPT device at PciRoot(0x0)/Pci(0x1c,0x2)/Pci(0x0,0x0)
- Adding AppleGraphicsPowerManagement Override
- Adding OpenCanopy GUI
- Enabling Verbose boot
- Enabling ShowPicker
- Disabling SecureBootModel
- Adding bootmgfw.efi BlessOverride
- Adding EFICheckDisabler.kext 1.0.5
- Setting macOS Monterey Supported SMBIOS
- Using Model ID: MacBookPro12,1
- Using Board ID: Mac-E43C1C25D4880AD6
- Using Minimal SMBIOS patching
- Setting Firmware Feature: dfb1bf577
- Cleaning up files

Your OpenCore EFI for MacBookPro11,1 has been built at:
  /private/var/folders/m1/gz3s_ljj3n5dxm100zwhkr1r0000gn/T/_MEIjjqosv/Build-Fo
lder/OpenCore-Build

Press [Enter] to go back.
```

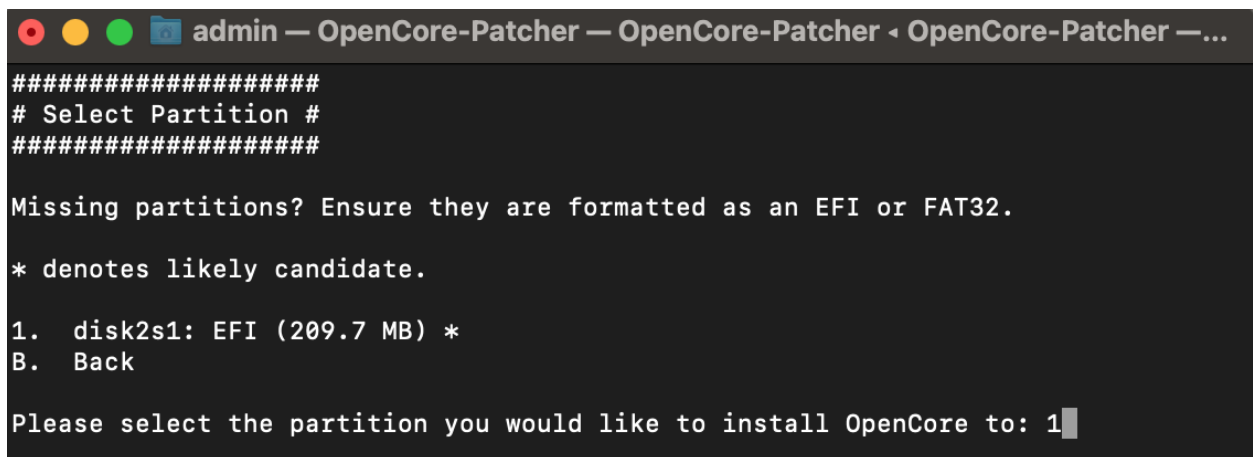
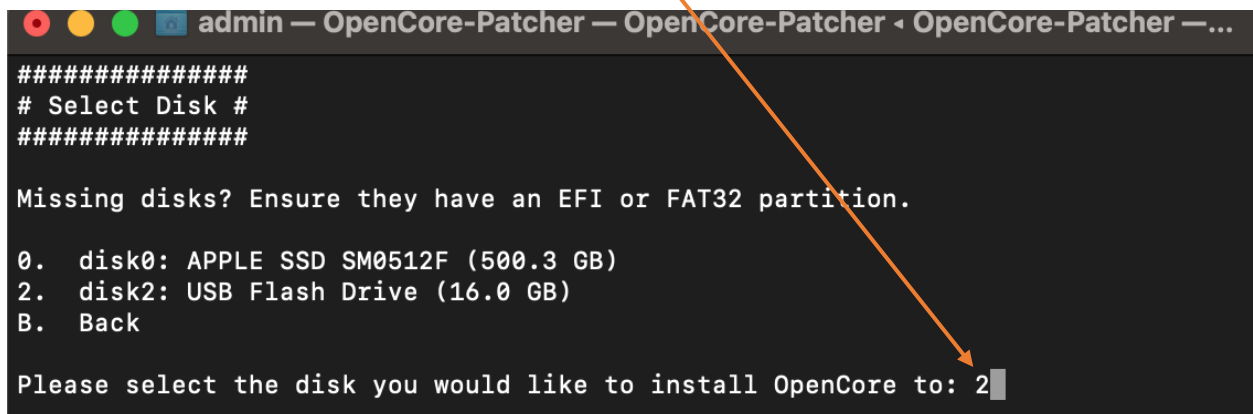
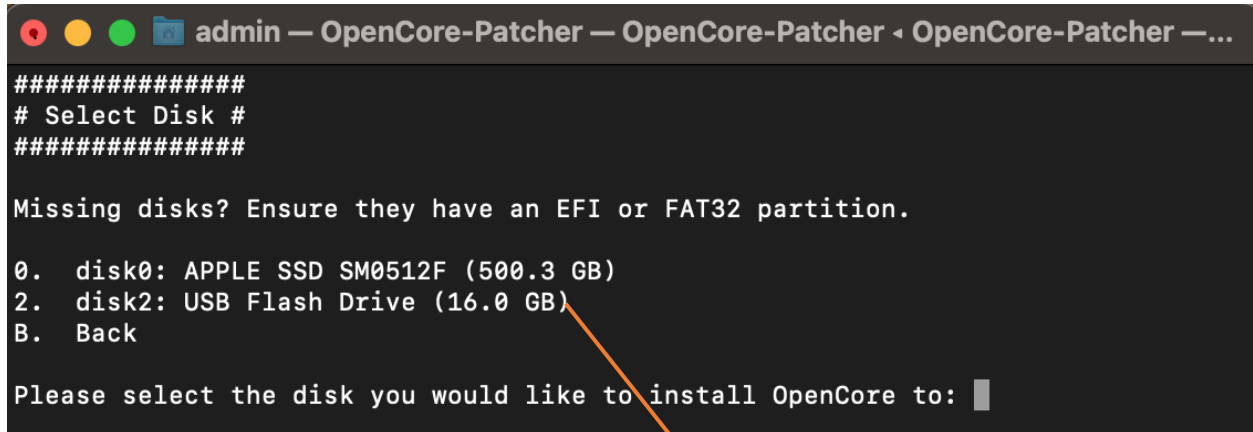
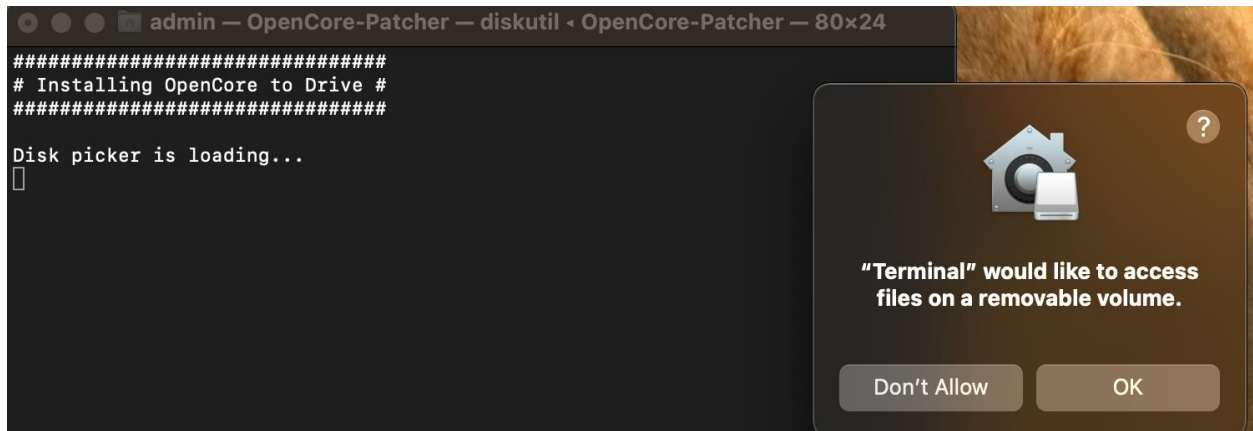
Now we will install OpenCore to USB stick that as Mac OS Monterey

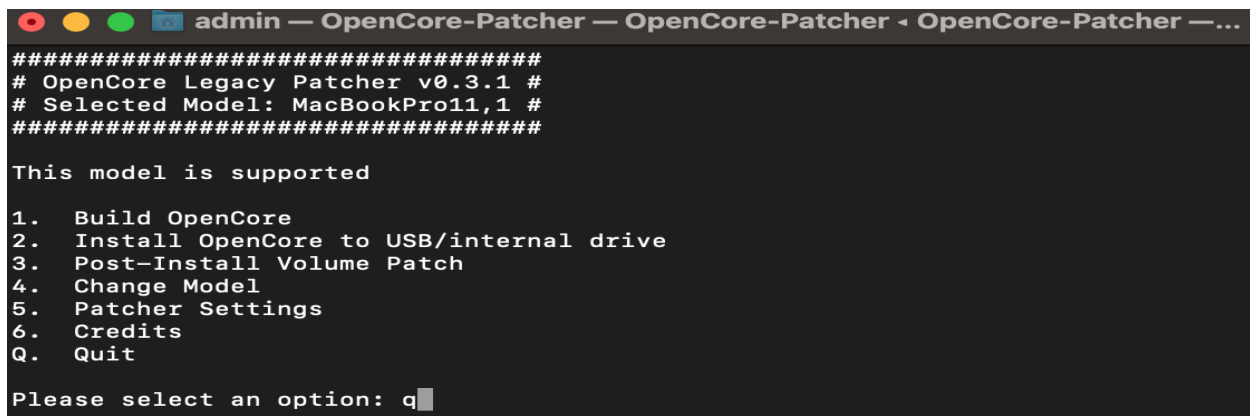
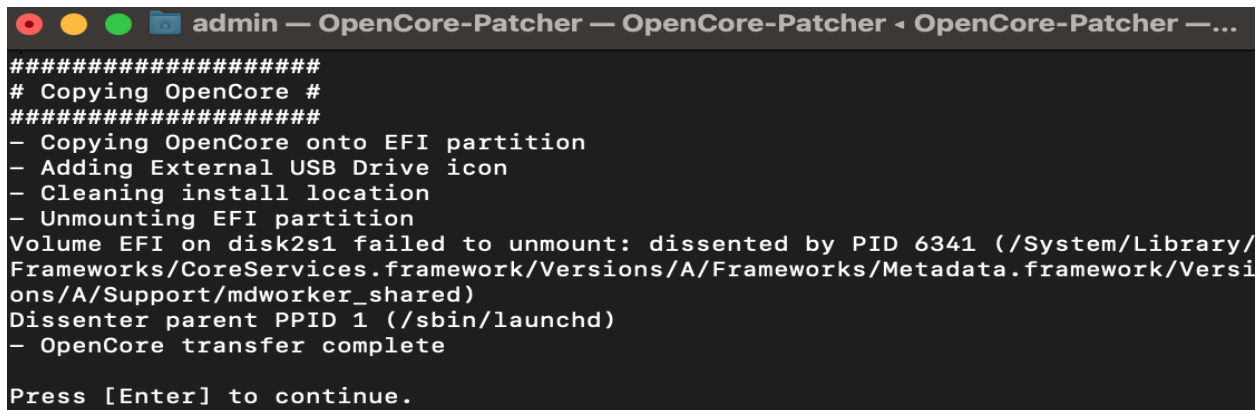
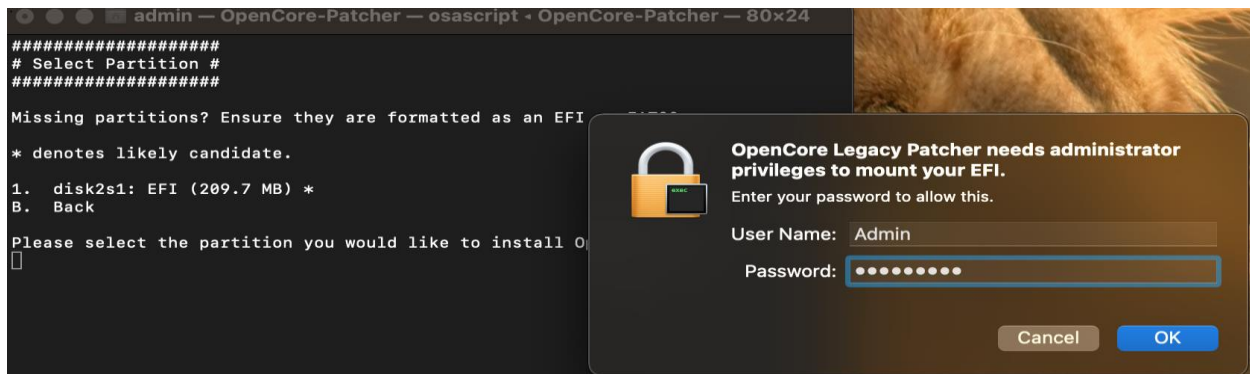
```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

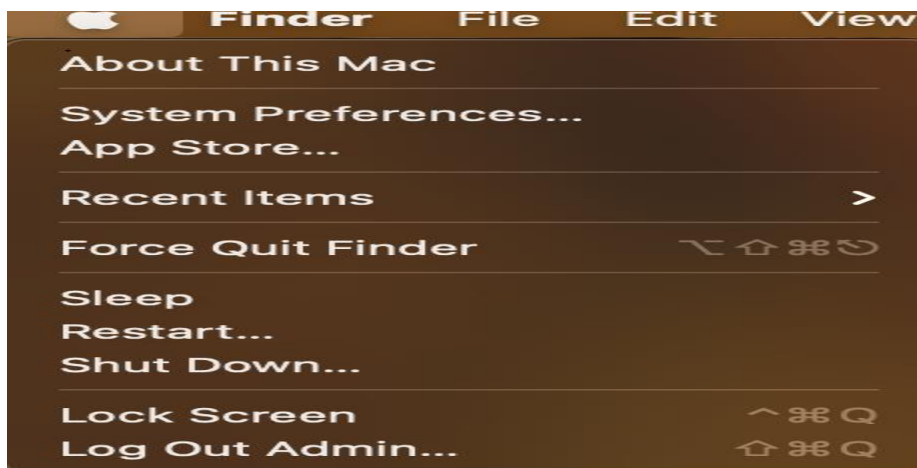
1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: 2
```



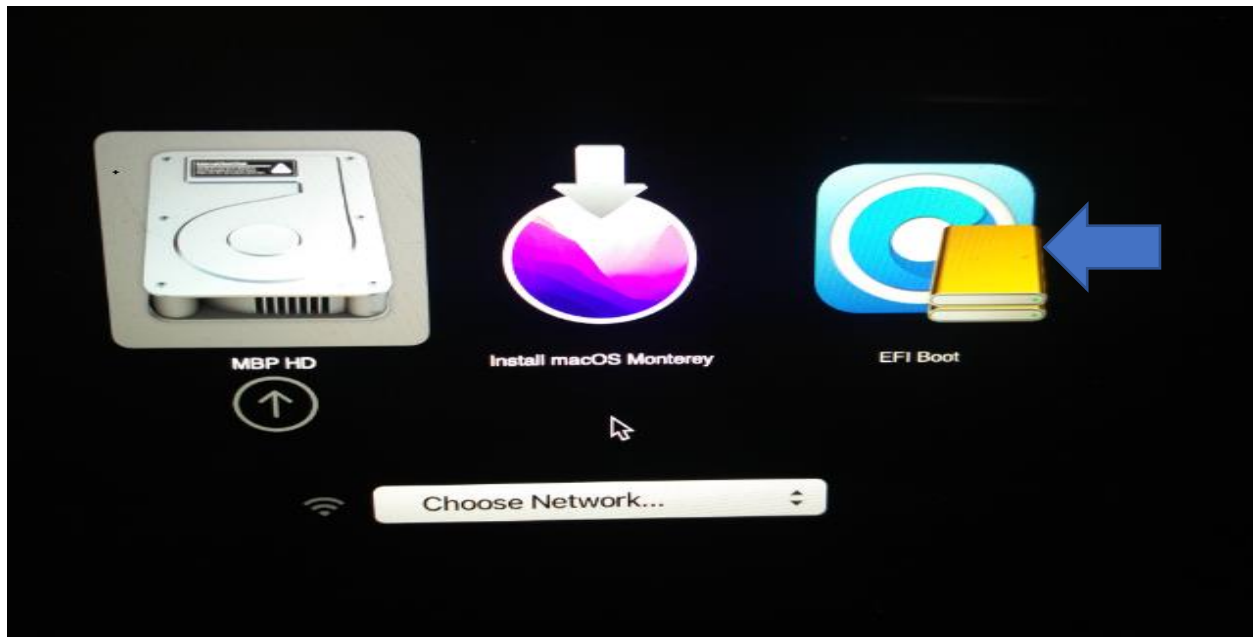


Restart the system and hold Option during reboot

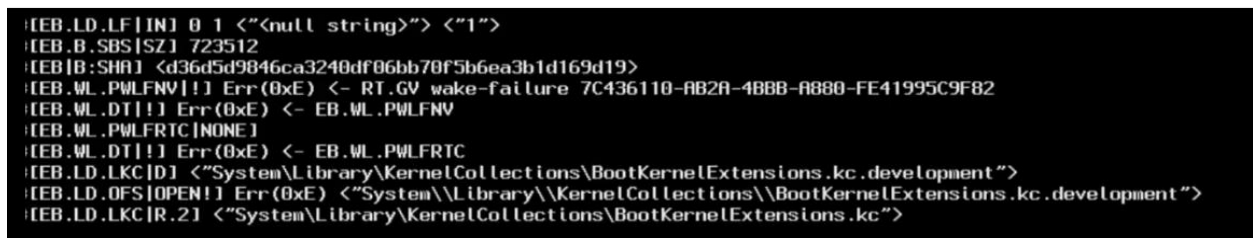




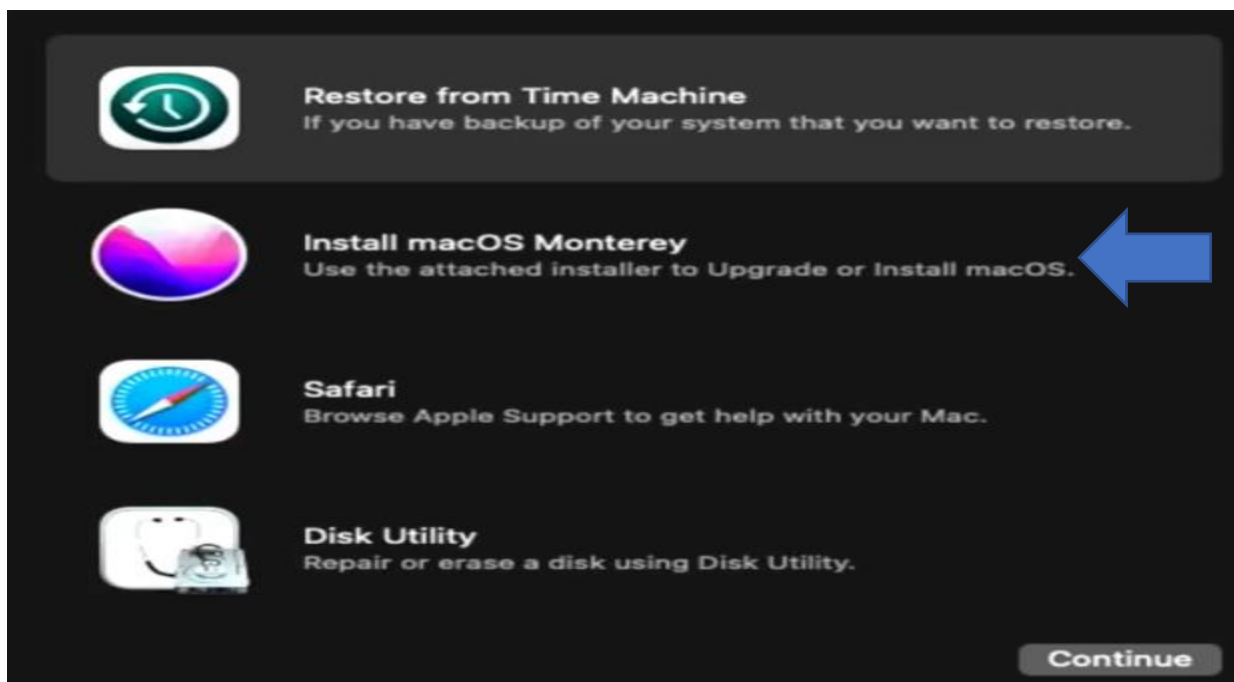
When the system is restarting Press Option button so you will get to this screen to select EFI Boot – After that select Install macOS Monterey.

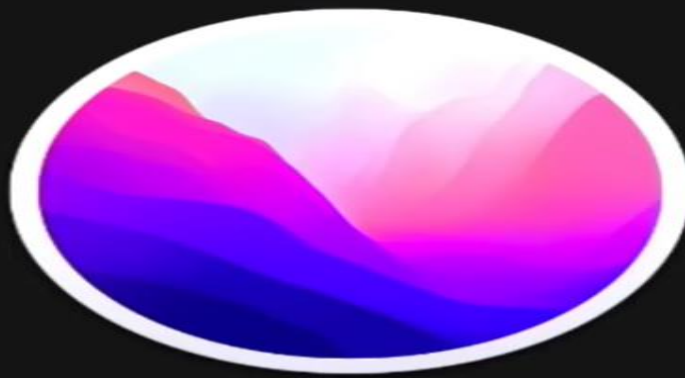


The system will restart and you will see a bunch of messages on the black screen like this



After that MacBook Pro will enter into Recovery OS Mode. Select Install macOS Monterey to MBP HD.

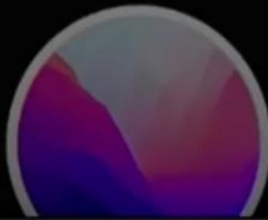




## macOS Monterey

To set up the installation of macOS Monterey, click Continue.

Continue



I have read and agree to the  
terms of the software license  
agreement.

Disagree

Agree

To continue installing the software,

click the software license agreement.

ENGLISH

APPLE INC.  
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**PLEASE READ THIS SOFTWARE LICENSE AGREEMENT ("LICENSE") CAREFULLY  
BEFORE USING THE APPLE SOFTWARE. BY USING THE APPLE SOFTWARE,**

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About This Mac after installation. It is also posted at <https://www.apple.com/legal/sla>

Disagree

Agree



Here you should select MacBook Pro HD so we can complete the upgrade.

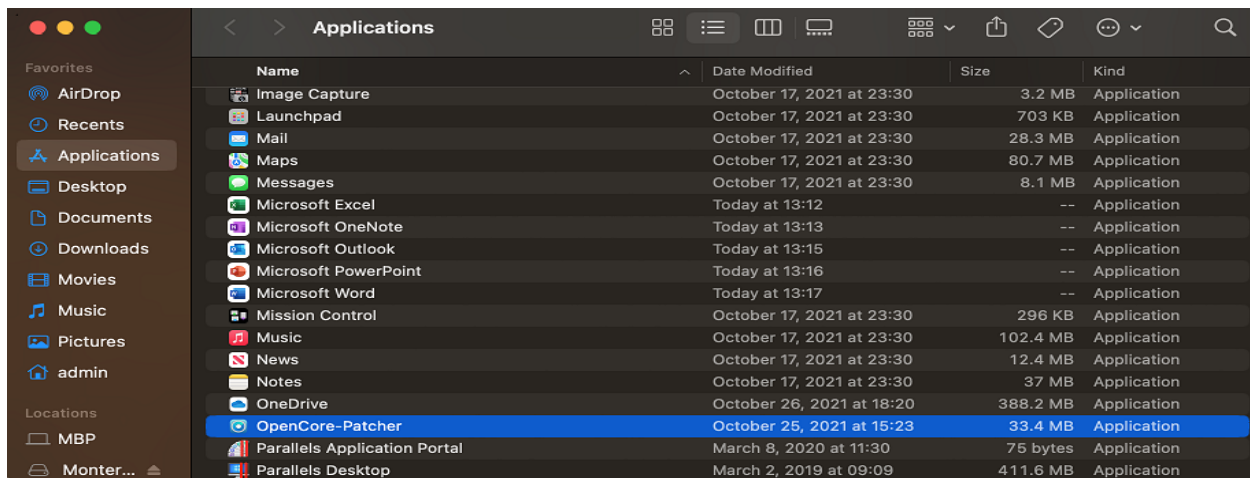


During the upgrade the system will reboot 4-5 times. So just wait for the process to complete and once done you will be logged into the system. As you can see the upgrade was successful.



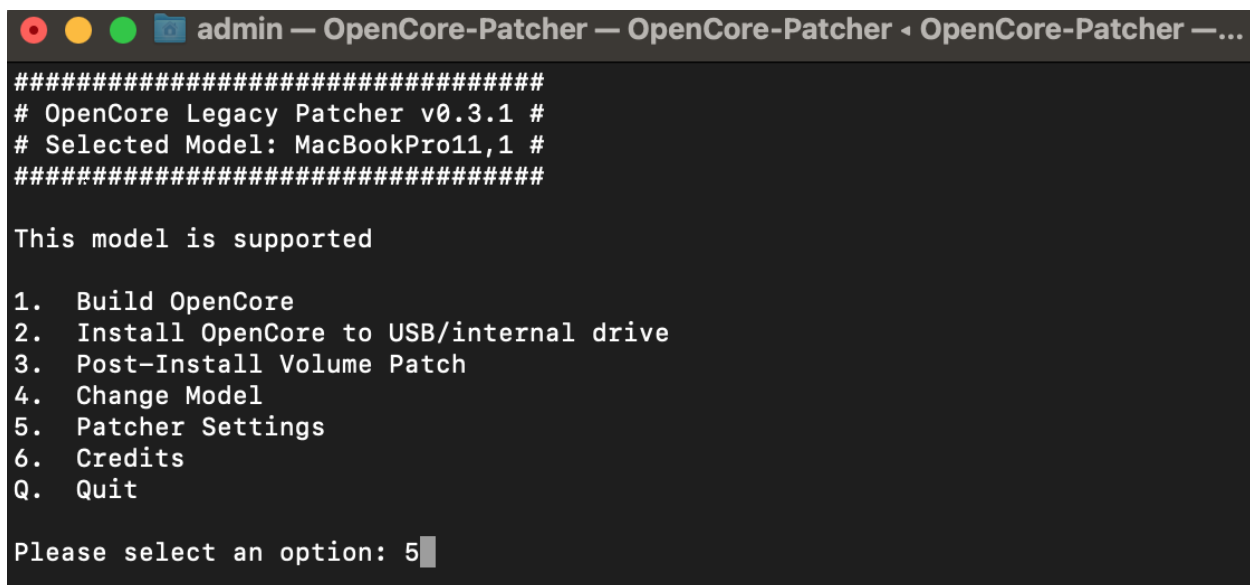
We have completed the upgrade on an unsupported model. Now you can explore all the new features in this OS.

We have to take care of few things after the upgrade. Open the patch one more time to disable debug settings.



A screenshot of the macOS 'Applications' folder. The 'OpenCore-Patcher' application is highlighted in blue. The table below lists the applications visible in the folder.

Name	Date Modified	Size	Kind
Image Capture	October 17, 2021 at 23:30	3.2 MB	Application
Launchpad	October 17, 2021 at 23:30	703 KB	Application
Mail	October 17, 2021 at 23:30	28.3 MB	Application
Maps	October 17, 2021 at 23:30	80.7 MB	Application
Messages	October 17, 2021 at 23:30	8.1 MB	Application
Microsoft Excel	Today at 13:12	--	Application
Microsoft OneNote	Today at 13:13	--	Application
Microsoft Outlook	Today at 13:15	--	Application
Microsoft PowerPoint	Today at 13:16	--	Application
Microsoft Word	Today at 13:17	--	Application
Mission Control	October 17, 2021 at 23:30	296 KB	Application
Music	October 17, 2021 at 23:30	102.4 MB	Application
News	October 17, 2021 at 23:30	12.4 MB	Application
Notes	October 17, 2021 at 23:30	37 MB	Application
OneDrive	October 26, 2021 at 18:20	388.2 MB	Application
<b>OpenCore-Patcher</b>	<b>October 25, 2021 at 15:23</b>	<b>33.4 MB</b>	<b>Application</b>
Parallels Application Portal	March 8, 2020 at 11:30	75 bytes	Application
Parallels Desktop	March 2, 2019 at 09:09	411.6 MB	Application

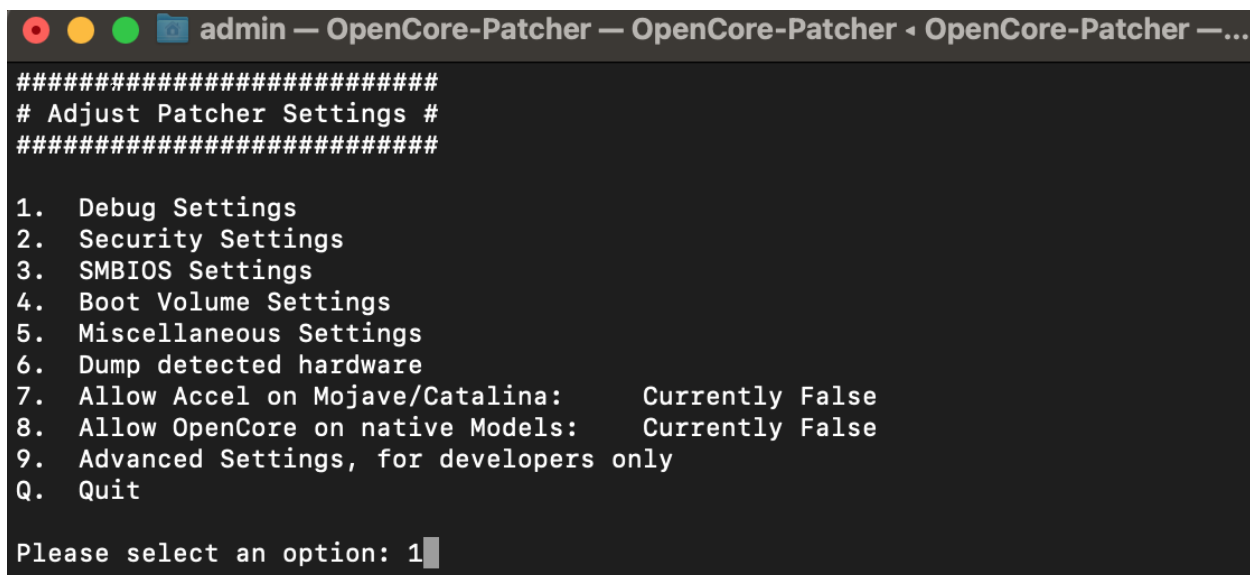


```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: 5
```



```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Patcher Settings #
#####

1. Debug Settings
2. Security Settings
3. SMBIOS Settings
4. Boot Volume Settings
5. Miscellaneous Settings
6. Dump detected hardware
7. Allow Accel on Mojave/Catalina: Currently False
8. Allow OpenCore on native Models: Currently False
9. Advanced Settings, for developers only
Q. Quit

Please select an option: 1
```

```
admin — OpenCore-Patcher — OpenCore-Patcher ◀ OpenCore-Patcher —...
#####
# Adjust Debug Settings #
#####

1.  Enable Verbose Mode:      Currently True
2.  Enable OpenCore DEBUG:    Currently False
3.  Enable Kext DEBUG:        Currently False
Q.  Quit

Please select an option: 1
```

```
admin — OpenCore-Patcher — OpenCore-Patcher ◀ OpenCore-Patcher —...
#####
# Set Verbose mode #
#####
Enable Verbose mode(y/n/q): n
```

```
admin — OpenCore-Patcher — OpenCore-Patcher ◀ OpenCore-Patcher —...
#####
# Adjust Debug Settings #
#####

1.  Enable Verbose Mode:      Currently False
2.  Enable OpenCore DEBUG:    Currently False
3.  Enable Kext DEBUG:        Currently False
Q.  Quit

Please select an option: q
```

Now select Miscellaneous Settings to disable ShowPicker Mode

```
admin — OpenCore-Patcher — OpenCore-Patcher ◀ OpenCore-Patcher —...
#####
# Adjust Patcher Settings #
#####

1.  Debug Settings
2.  Security Settings
3.  SMBIOS Settings
4.  Boot Volume Settings
5.  Miscellaneous Settings
6.  Dump detected hardware
7.  Allow Accel on Mojave/Catalina:    Currently False
8.  Allow OpenCore on native Models:    Currently False
9.  Advanced Settings, for developers only
Q.  Quit

Please select an option: 5
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Miscellaneous Settings #
#####

1. Set ShowPicker Mode:           Currently True
2. Set Wake on WLAN:              Currently False
3. Set Ivy iMac iGPU:             Currently False
4. Set TeraScale 2 Accel:         Currently True
5. Disable Thunderbolt:          Currently False
6. Set AppleALC Usage:            Currently True
7. Set Windows GMUX support:      Currently True
8. Set Software Demux:            Currently False
9. Disable Battery Throttling:    Currently False
Q. Quit

Please select an option: 1
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Set OpenCore Picker mode #
#####
By default, OpenCore will show its boot picker each time on boot up,
however this can be disabled by default and be shown on command by repeatedly
pressing the "Esc" key

Show OpenCore Picker by default(y/n/q): n
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Miscellaneous Settings #
#####

1. Set ShowPicker Mode:           Currently False
2. Set Wake on WLAN:              Currently False
3. Set Ivy iMac iGPU:             Currently False
4. Set TeraScale 2 Accel:         Currently True
5. Disable Thunderbolt:          Currently False
6. Set AppleALC Usage:            Currently True
7. Set Windows GMUX support:      Currently True
8. Set Software Demux:            Currently False
9. Disable Battery Throttling:    Currently False
Q. Quit

Please select an option: q
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Adjust Patcher Settings #
#####

1. Debug Settings
2. Security Settings
3. SMBIOS Settings
4. Boot Volume Settings
5. Miscellaneous Settings
6. Dump detected hardware
7. Allow Accel on Mojave/Catalina: Currently False
8. Allow OpenCore on native Models: Currently False
9. Advanced Settings, for developers only
Q. Quit

Please select an option: q
```

Now Install OpenCore to the local hard drive (MBP HD)

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: 2
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Select Disk #
#####

Missing disks? Ensure they have an EFI or FAT32 partition.

0. disk0: APPLE SSD SM0512F (500.3 GB)
2. disk2: USB Flash Drive (16.0 GB)
B. Back

Please select the disk you would like to install OpenCore to: 0
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Select Partition #
#####

Missing partitions? Ensure they are formatted as an EFI or FAT32.

* denotes likely candidate.

1. disk0s1: EFI (209.7 MB) *
B. Back

Please select the partition you would like to install OpenCore to: 1
```


```
admin — OpenCore-Patcher — osascript < OpenCore-Patcher — 80x24
#####
# Select Partition #
#####

Missing partitions? Ensure they are fo
* denotes likely candidate.

1. disk0s1: EFI (209.7 MB) *
B. Back

Please select the partition you would

```



The dialog box is titled "osascript" and features a yellow padlock icon. The text inside reads: "OpenCore Legacy Patcher needs administrator privileges to mount your EFI." Below this, it says "Enter your password to allow this." There is a text input field with "Admin" entered, followed by a password field with masked characters ".....". At the bottom, there are two buttons: "Cancel" and "OK".

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# Copying OpenCore #
#####
- Copying OpenCore onto EFI partition
- Adding SSD icon
- Cleaning install location
- Unmounting EFI partition
- OpenCore transfer complete

Press [Enter] to continue.
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: q
```

Now restart the system – make sure to eject USB drive before restart. Don't forget to hold Option during restart.

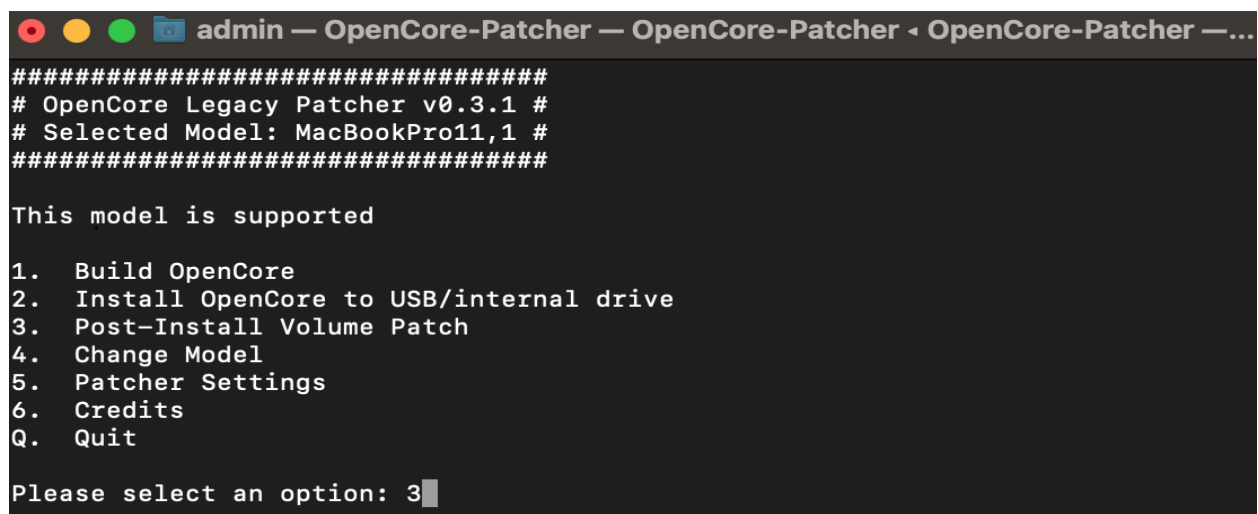
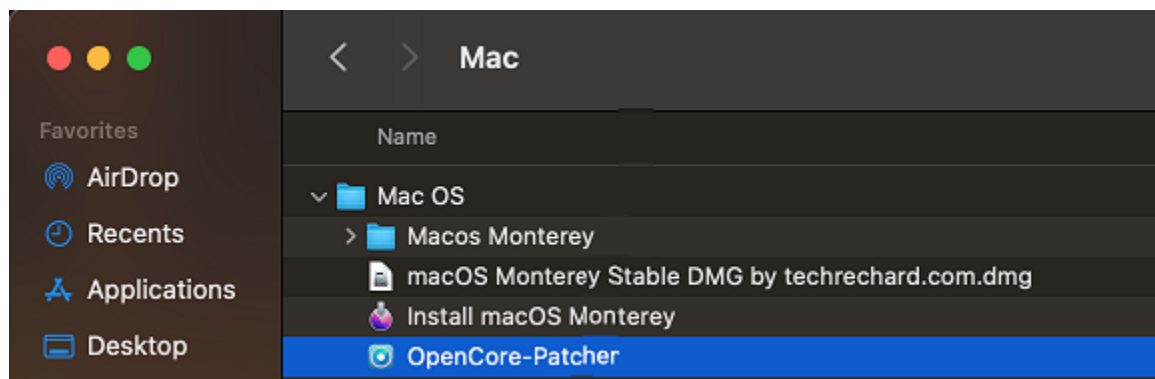




On reboot you will select EFI boot by holding Control button and click EFI



Login to the system and open the patch again to install Post Volume Patch. For my system there was no need to install Post Patch.



```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
Patches Root volume to fix misc issues such as:

- Metal Graphics Acceleration
  - Intel: Ivy Bridge (4000 series iGPUs)
  - Nvidia: Kepler (600-700)
- Non-Metal Graphics Acceleration
  - Intel: Ironlake - Sandy Bridge
  - Nvidia: Tesla - Fermi (8000-500 series)
  - AMD: TeraScale 1 and 2 (2000-6000 series)
- Audio support for iMac7,1 and iMac8,1
- Wifi support for BCM94328, BCM94322 and Atheros cards

WARNING: Root Volume Patching is still in active development, please
have all important user data backed up. Note when the system volume
is patched, you can no longer have Delta updates.

Supported Options:

1. Patch System Volume
2. Unpatch System Volume (Experimental)
B. Exit

Patch System Volume?: 1
```

As you can see there is no root patch required for my system.

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
The following patches will be applied:
- No Root Patches required for your machine!

Press [ENTER] to return to the main menu:
```

```
admin — OpenCore-Patcher — OpenCore-Patcher < OpenCore-Patcher —...
#####
# OpenCore Legacy Patcher v0.3.1 #
# Selected Model: MacBookPro11,1 #
#####

This model is supported

1. Build OpenCore
2. Install OpenCore to USB/internal drive
3. Post-Install Volume Patch
4. Change Model
5. Patcher Settings
6. Credits
Q. Quit

Please select an option: q
```

Now we have completed all the steps.

Here is the final report – Upgrade successful and no new updates to install. All the applications remain as the same as it was before.



I have included video link as well – in case you face anything following my document.

<https://www.youtube.com/watch?v=go6RTCHv4GA>

<https://github.com/dortania/OpenCore-Legacy-Patcher/releases/tag/0.3.1>