

Configuring a RAID Array Using UEFI Setup Utility

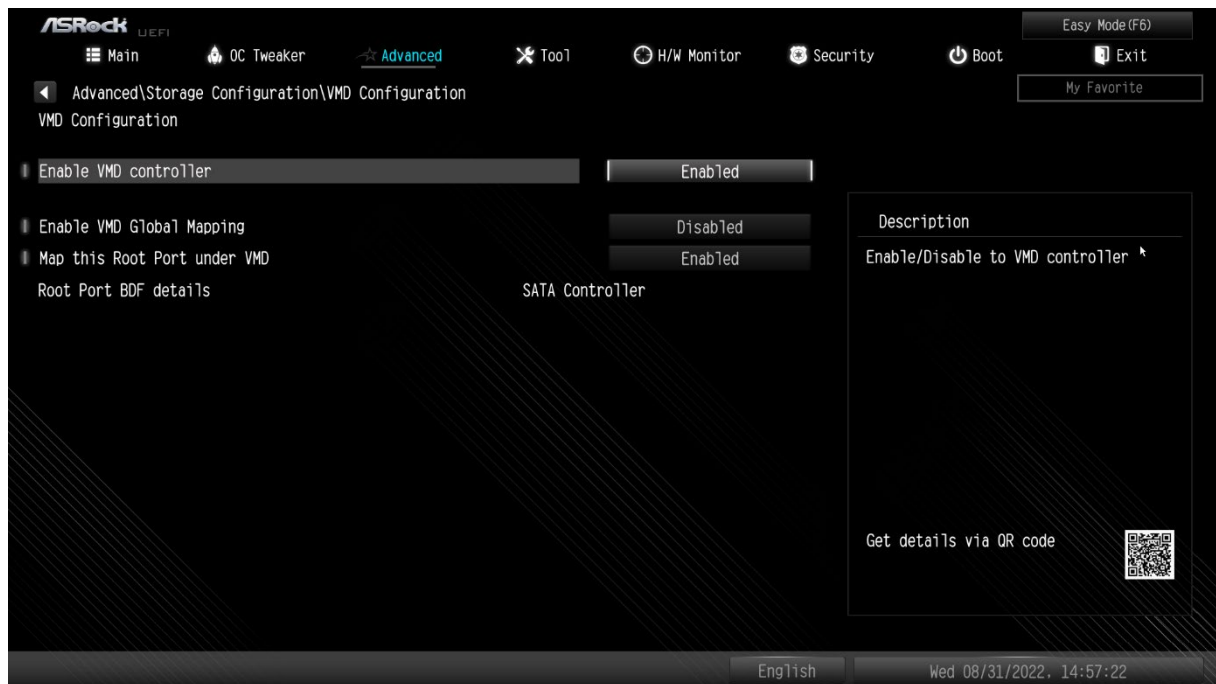
The BIOS screenshots in this guide are for reference only and may differ from the exact settings for your motherboard. The actual setup options you will see shall depend on the motherboard you purchase. Please refer to the product specification page of the model you are using for information on RAID support. Because the motherboard specifications and the BIOS software might be updated, the content of this documentation will be subject to change without notice.

STEP 1:

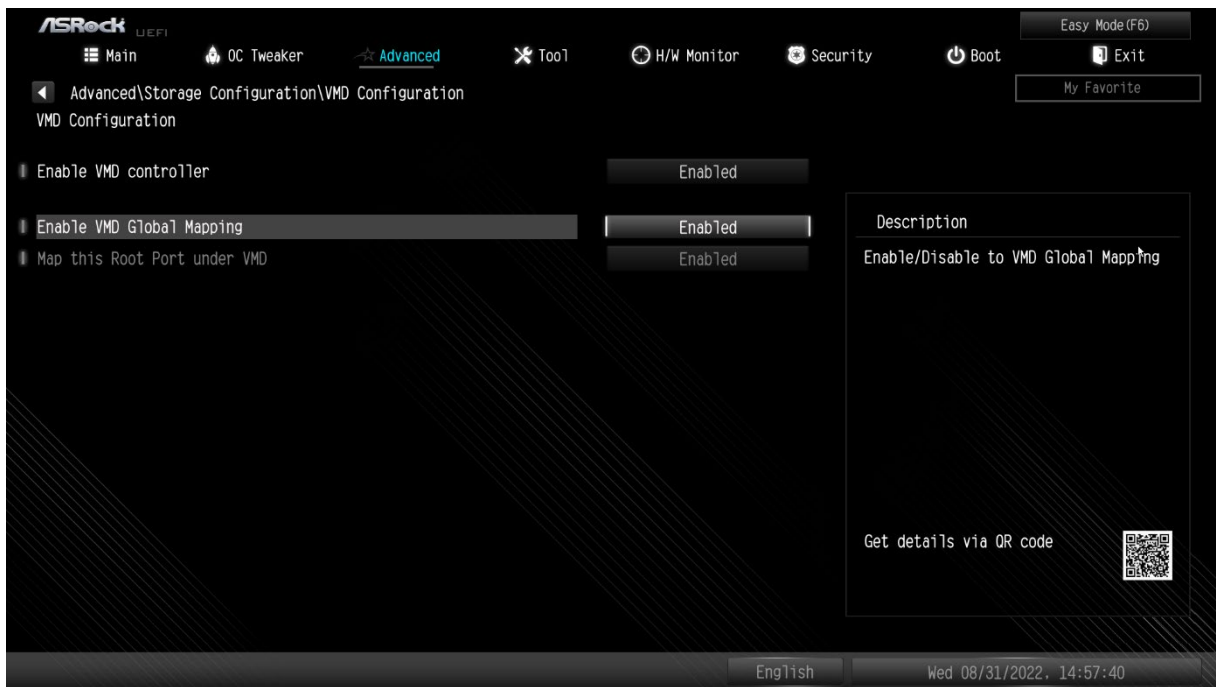
Enter the UEFI Setup Utility by pressing <F2> or right after you power on the computer.

STEP 2:

Go to **Advanced > Storage Configuration > VMD Configuration** and set **Enable VMD controller** to [Enabled].

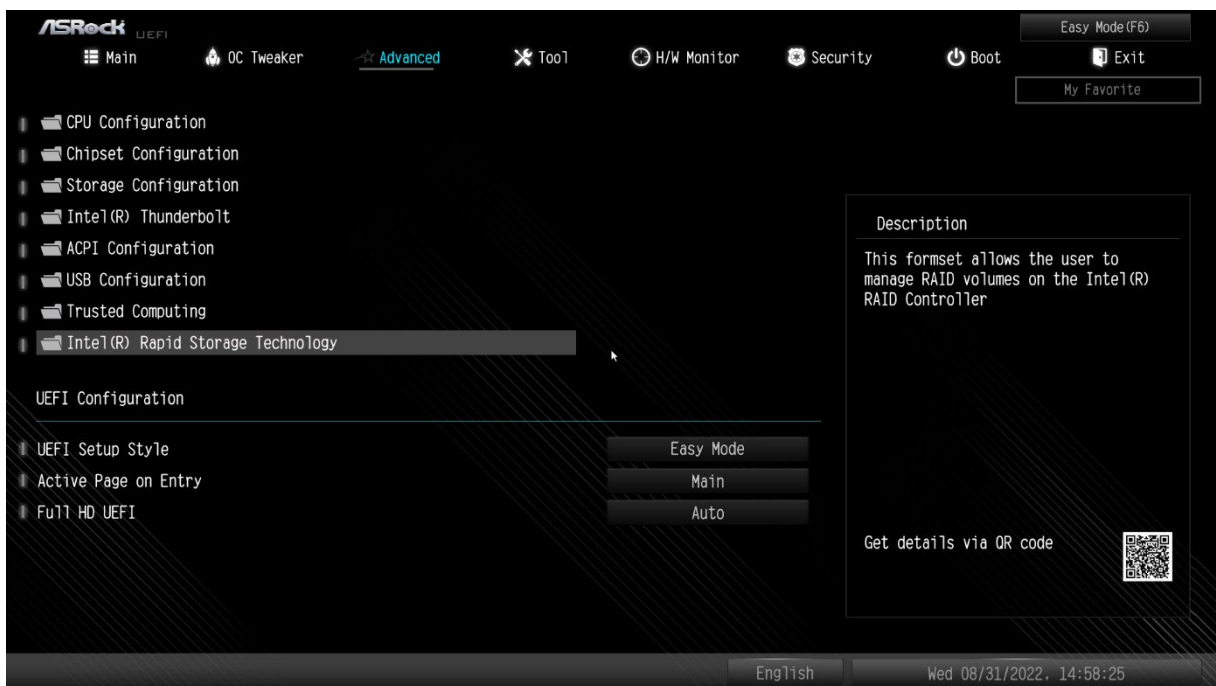


Then set **Enable VMD Global Mapping** to [Enabled]. Next, press <F10> to save the configuration changes and exit setup.



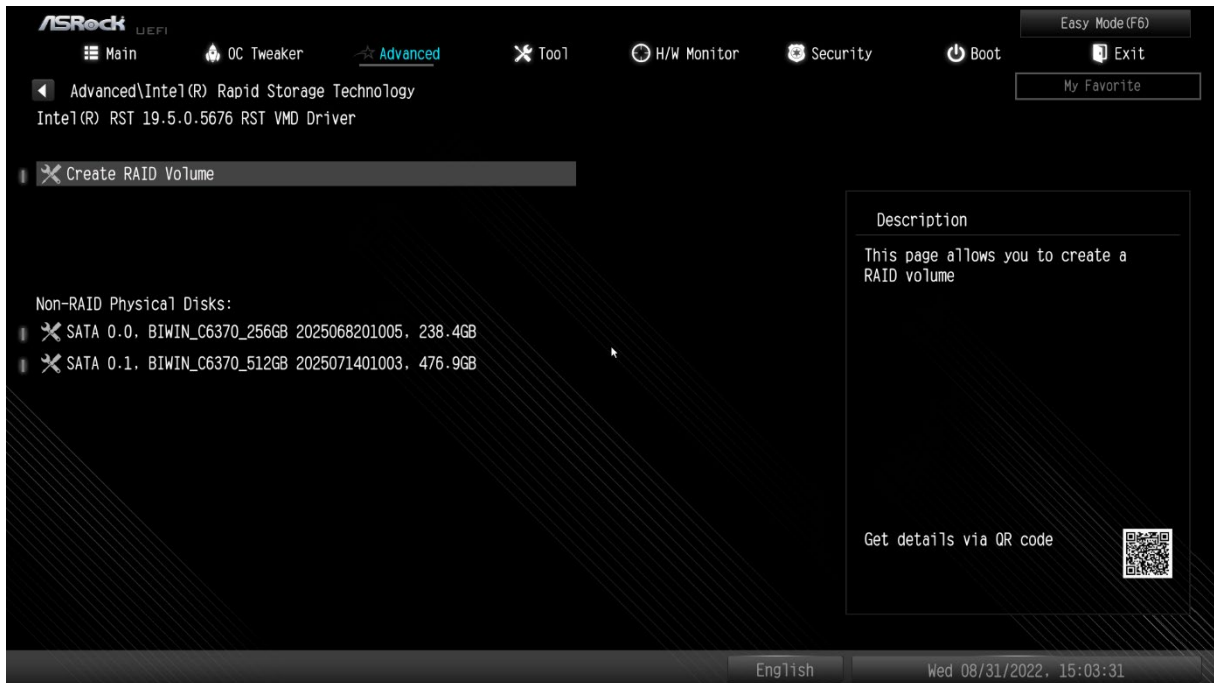
STEP 3.

Enter **Intel(R) Rapid Storage Technology** in the **Advanced** page.



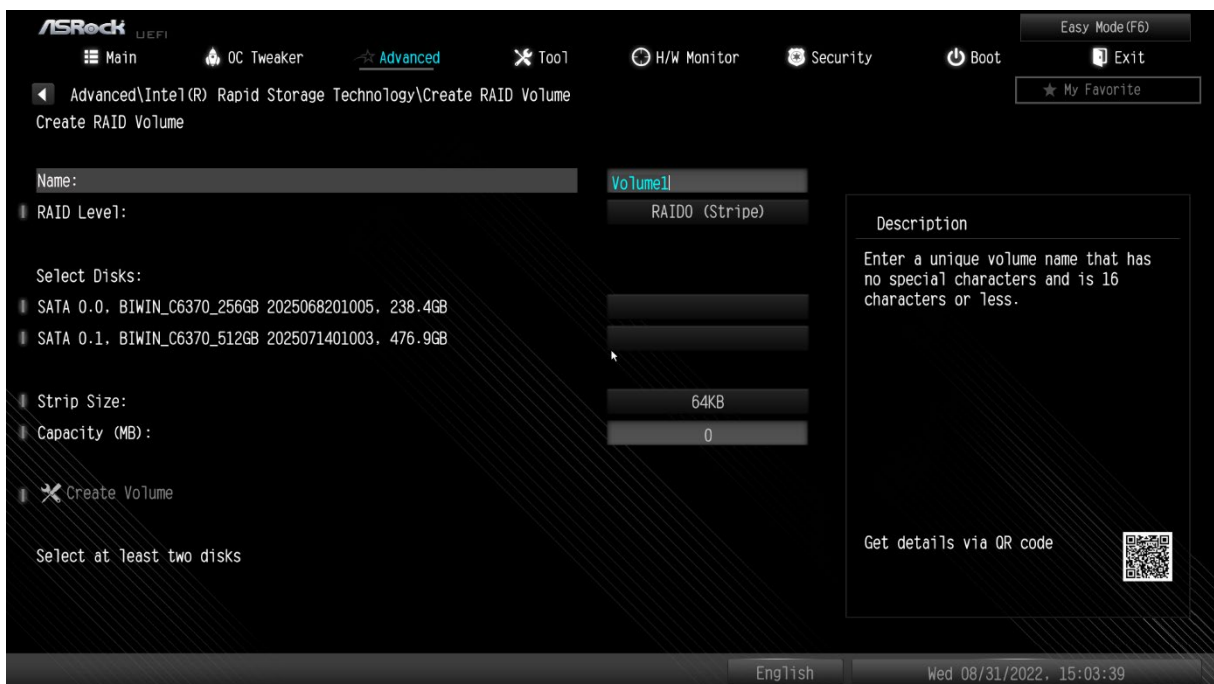
STEP 4:

Select the option **Create RAID Volume** and press <Enter>.



STEP 5:

Key-in a volume name and press <Enter>, or simply press <Enter> to accept the default name.



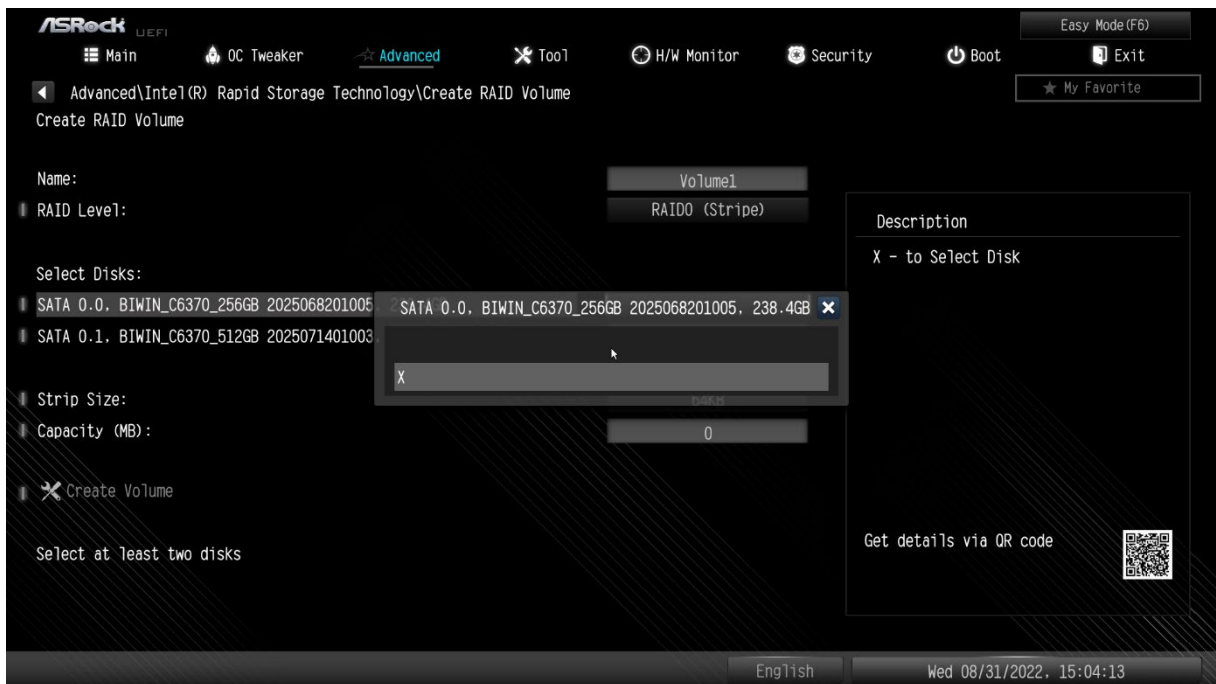
STEP 6:

Select your desired RAID Level and press <Enter>.



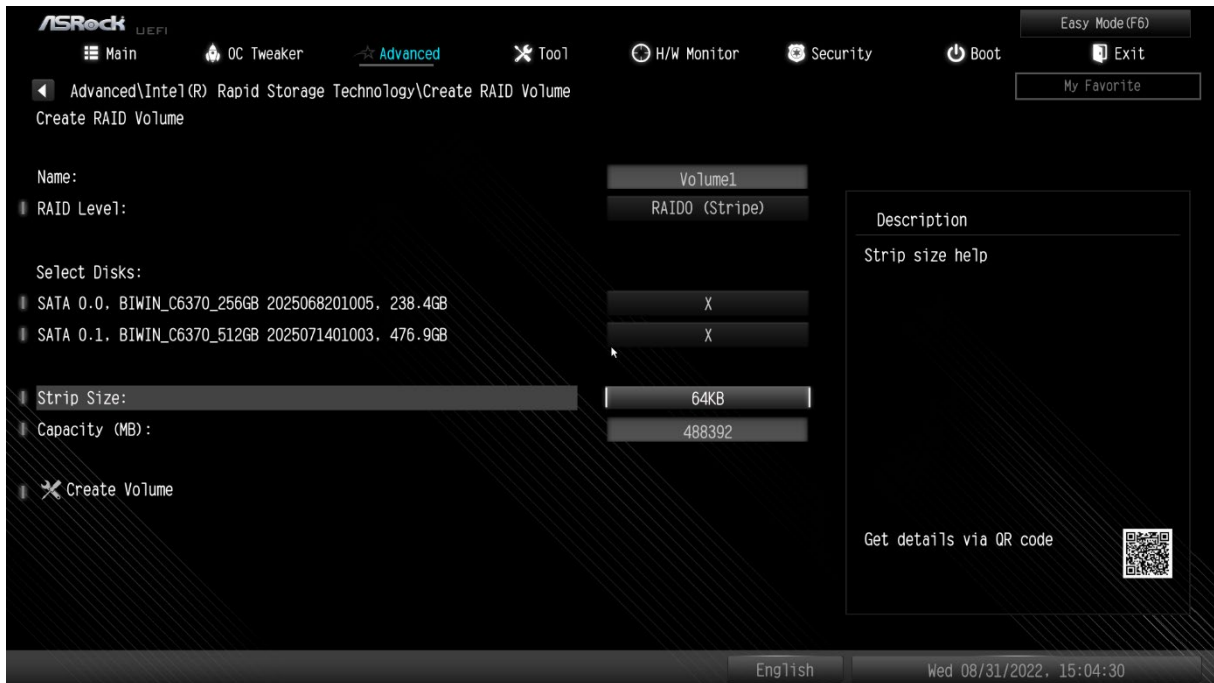
STEP 7:

Select the hard drives to be included in the RAID array and press <Enter>.



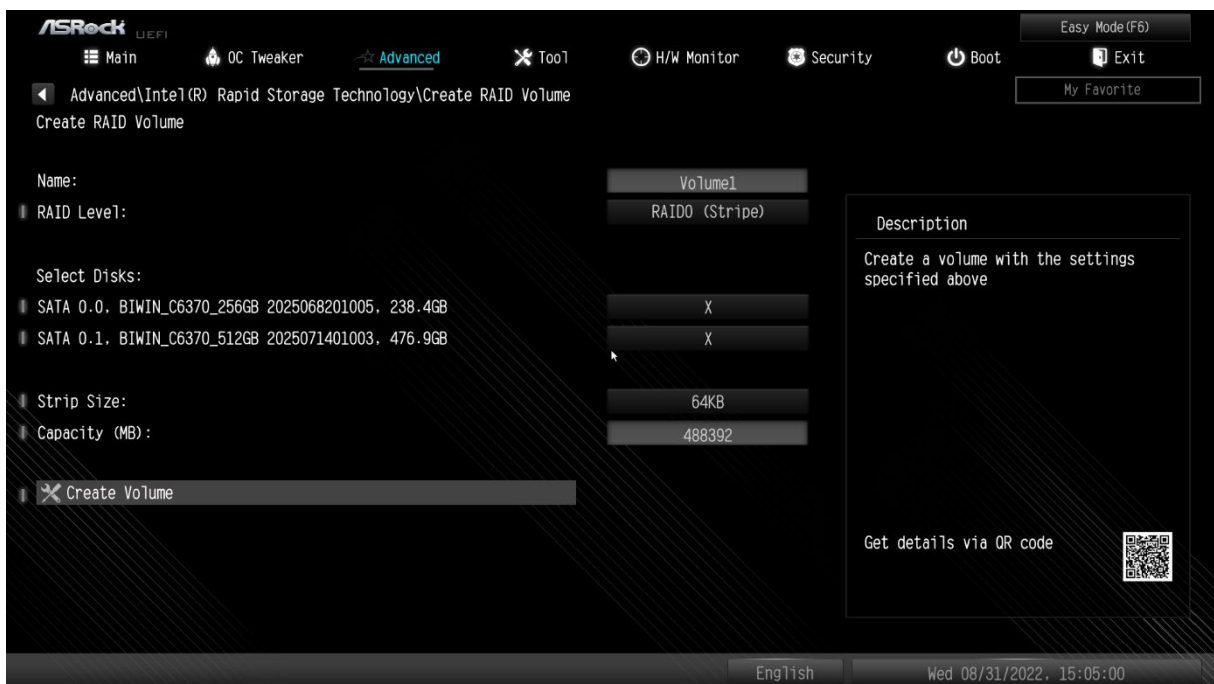
STEP 8:

Select a stripe size for the RAID array or use the default setting and press <Enter>.

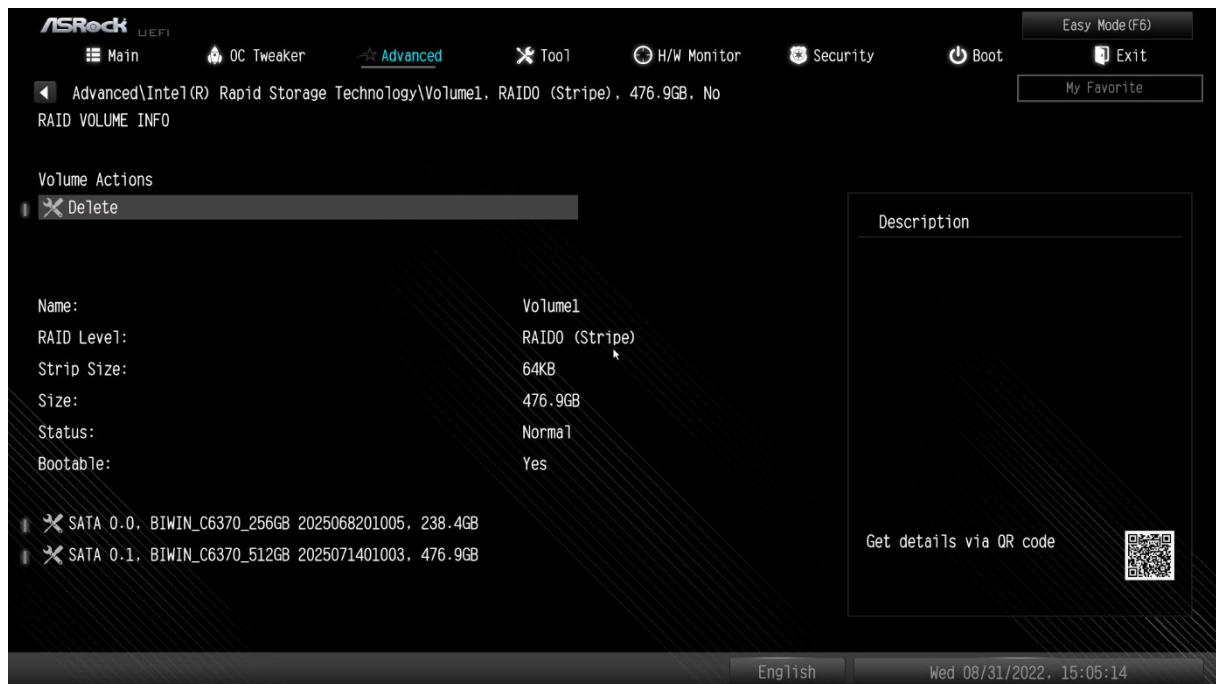


STEP 9:

Select **Create Volume** and press <Enter> to start creating the RAID array.



If you want to delete a RAID volume, select the option **Delete** on the RAID volume info page and press <Enter>.



*Please note that the UEFI screenshots shown in this installation guide are for reference only. Please refer to ASRock’s website for details about each model motherboard.

<https://www.asrock.com/index.asp>

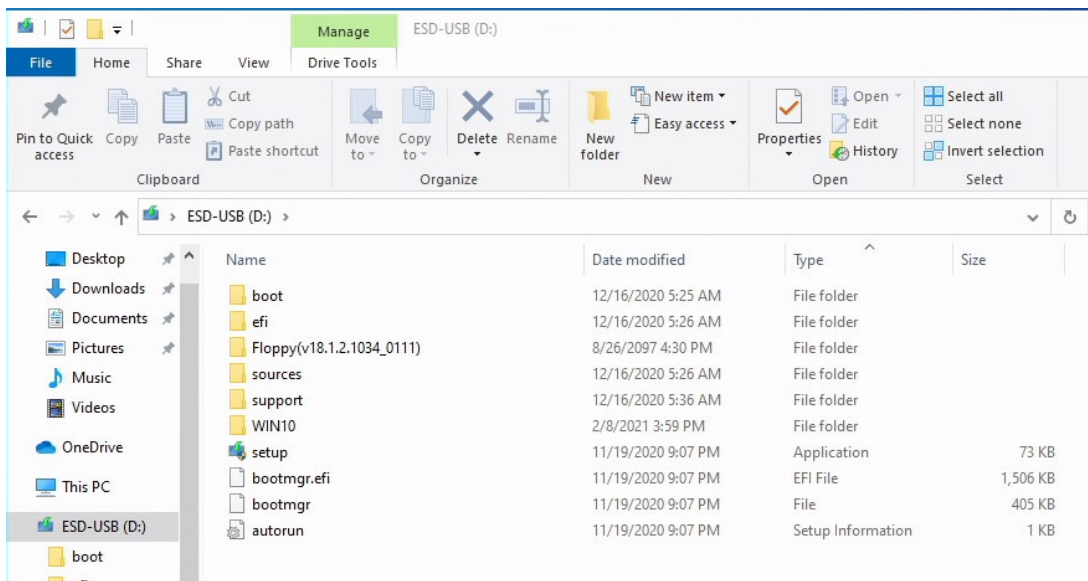
Installing Windows® on a RAID volume

After the UEFI and RAID BIOS setup, please follow the steps below.

STEP 1

Please download the RST driver from ASRock's website (<https://www.asrock.com/index.asp>). Go to the product page of your ASRock motherboard, select Support > Download, download "SATA Floppy Image", extract the driver package, and then save the folder to a USB storage device.

Intel Lan driver ver:12.19.2.50	Windows® 11 64bit	1.35MB	2024/3/19	Global	China
SATA Floppy Image	Windows® 11 64bit	1.59MB	2024/3/19	Global	China
Intel Rapid Storage Technology driver and utility ver:19.5.7.1058	Windows® 11 64bit	5.24MB	2024/3/19	Global	China



STEP 2

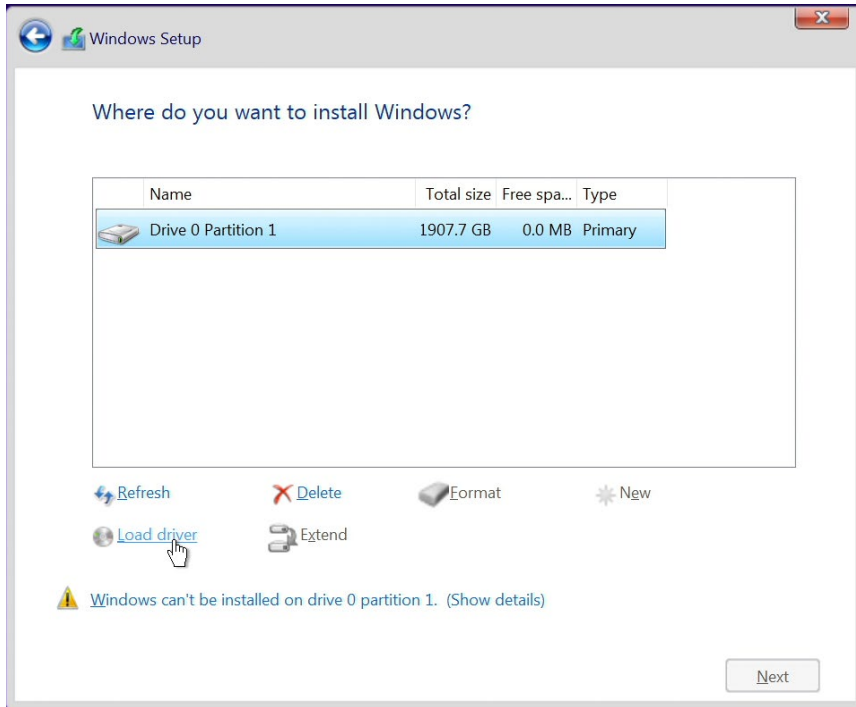
Press <F11> at system POST to launch the boot menu and choose the item "UEFI: <Windows installation media>" to install the Windows® operating system.



STEP 3

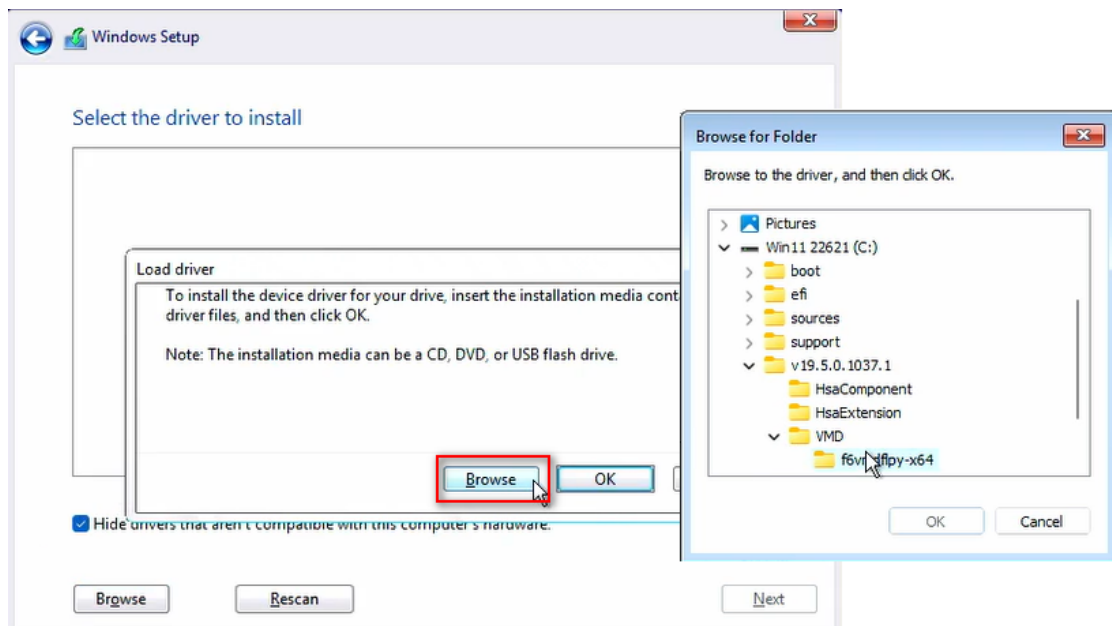
(If the drive that you plan to install Windows is available, please skip STEP 3 ~ 5 and directly go to STEP 6.)

If the target drive is not available during the Windows installation process, please click <Load Driver>.



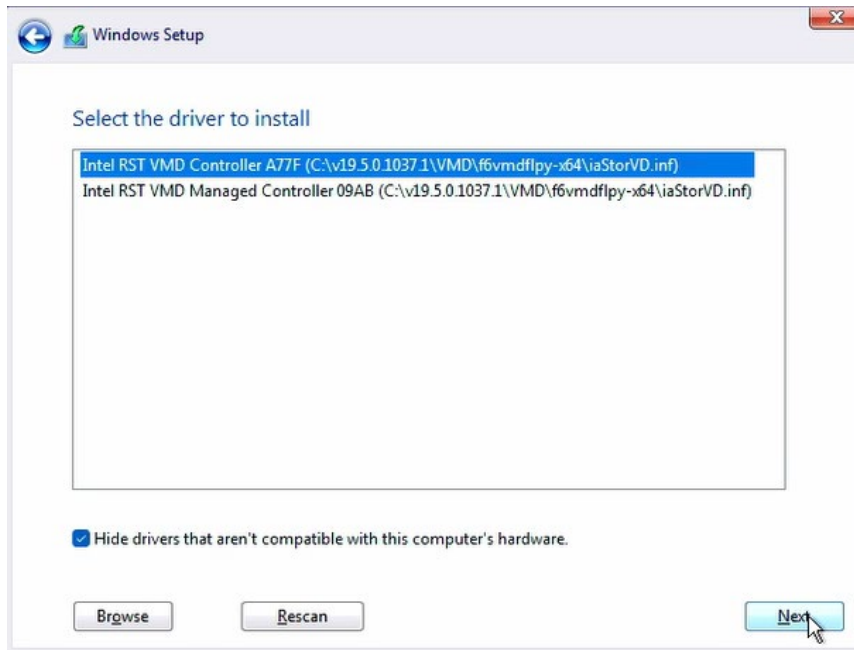
STEP 4

Click <Browse> to find the driver on your USB flash drive.



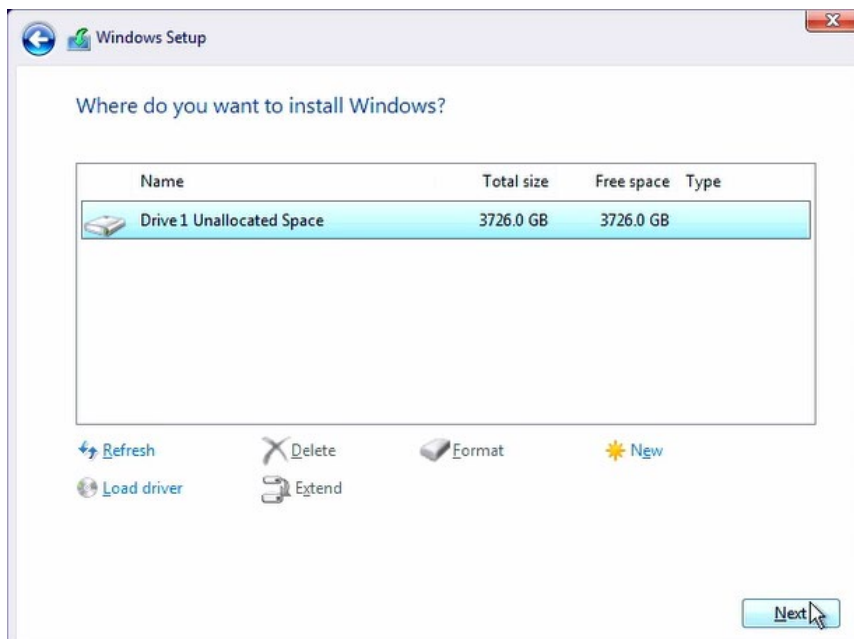
STEP 5

Select "Intel RST VMD Controller" and then click <Next>.



STEP 6

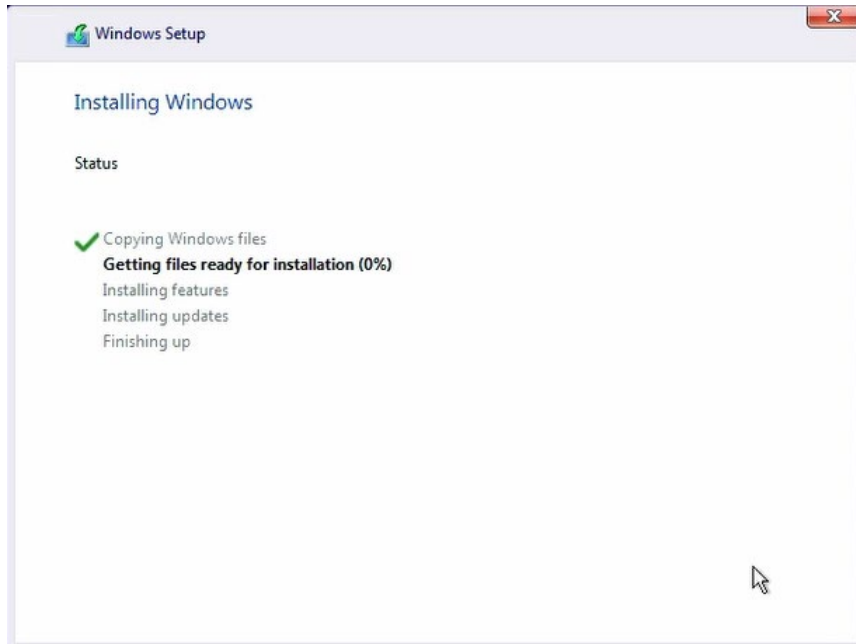
Select unallocated space and then click <Next>.





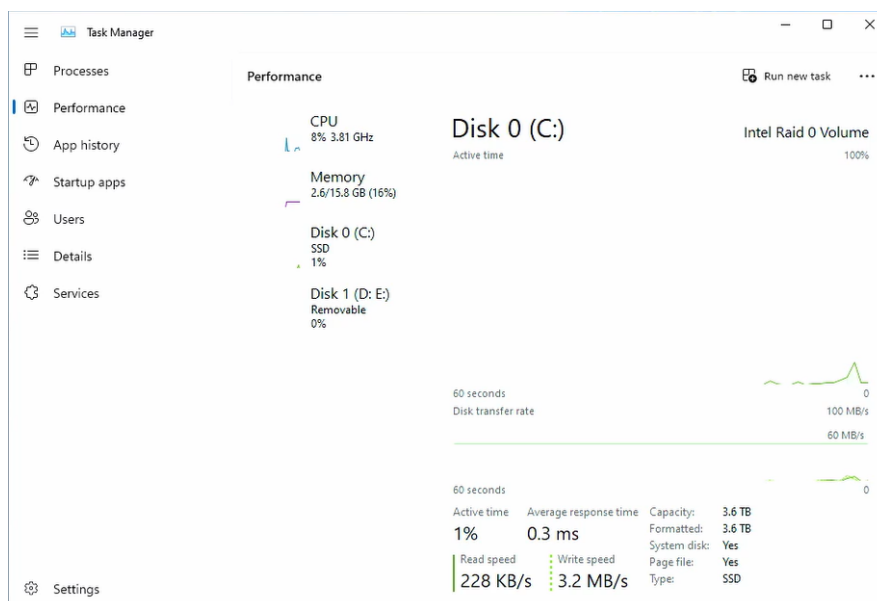
STEP 7

Please follow Windows' installation instructions to finish the process.



STEP 8

After the Windows installation is finished, please install the “Rapid Storage Technology driver and utility” from ASRock’s website. <https://www.asrock.com/index.asp>.





Go to the product page of your ASRock motherboard, select Support > Download, you can find the “Intel Rapid Storage Technology driver and utility”.

SATA Floppy Image ver:19.5.7.1058	Windows® 11 64bit	1.59MB	2024/3/19	Global	China
Intel Rapid Storage Technology driver and utility	Windows® 11 64bit	5.24MB	2024/3/19	Global	China
Thunderbolt(TM) Controller software ver:Rev86_3	Windows® 11 64bit	32.7MB	2022/9/27	Global	China