



Intel® Virtual RAID on CPU (Intel® VROC) Configuration

Before you Begin

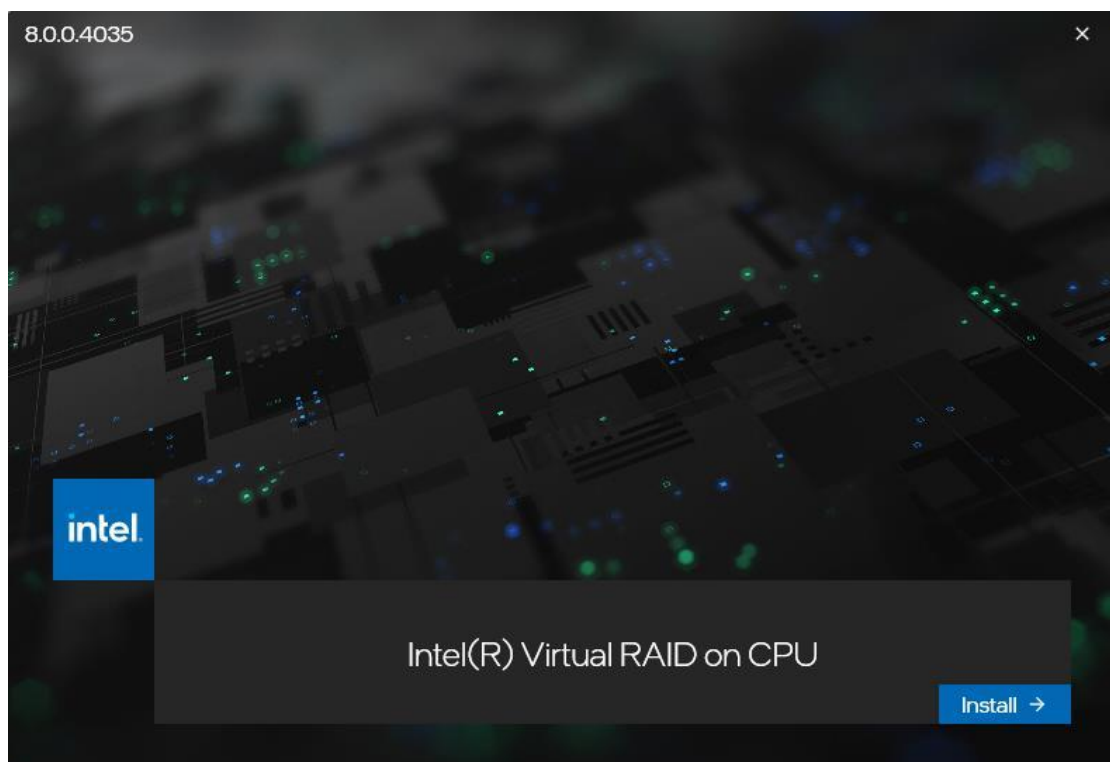
To support Intel® Virtual RAID on CPU (Intel® VROC), an [Intel® VROC hardware key](#) is required. Before Configuring a RAID array, please insert the Intel® VROC hardware key into your motherboard.

If your system is connected to the Internet, “Microsoft Visual C++ 2015-2022 Redistributable (x64) - 14.34.31931” and “Microsoft Windows Desktop Runtime – 6.0.9 (x64)” packages will be installed automatically when Intel® VROC utility is installed. You can also go to Microsoft’s website to download these two packages and install them.

Setup Procedure

Step 1:

Click “Install” to start.





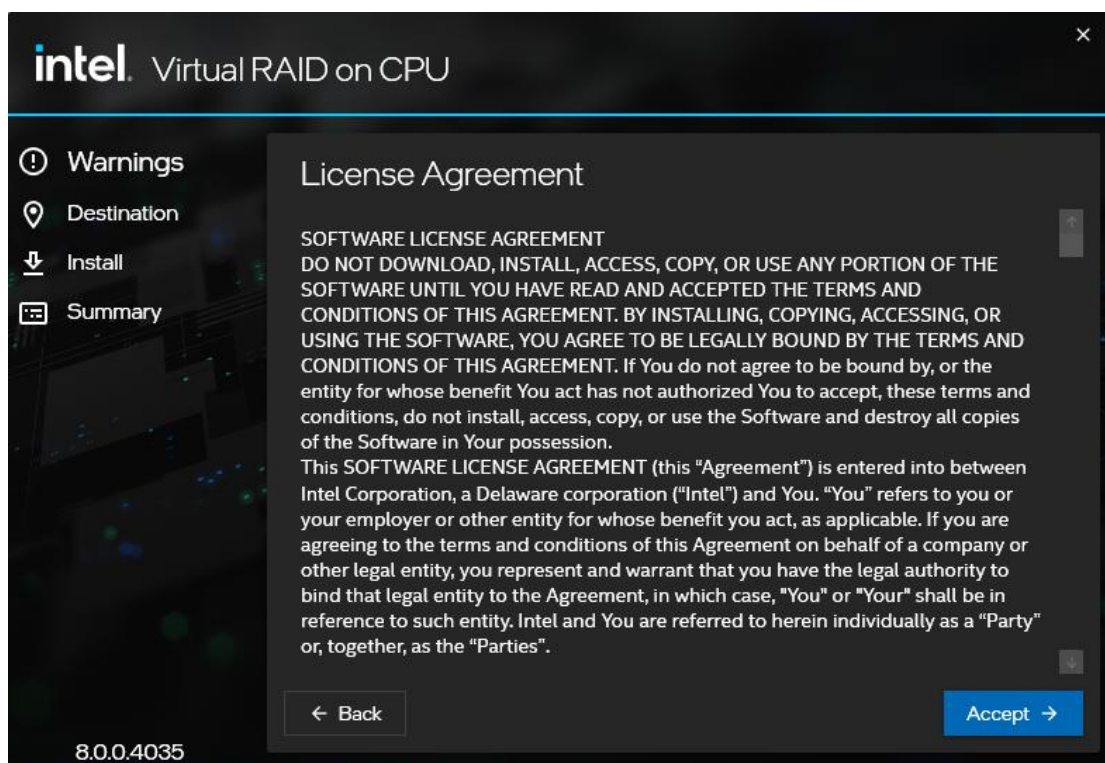
Step 2:

Click "Next" to continue.



Step 3:

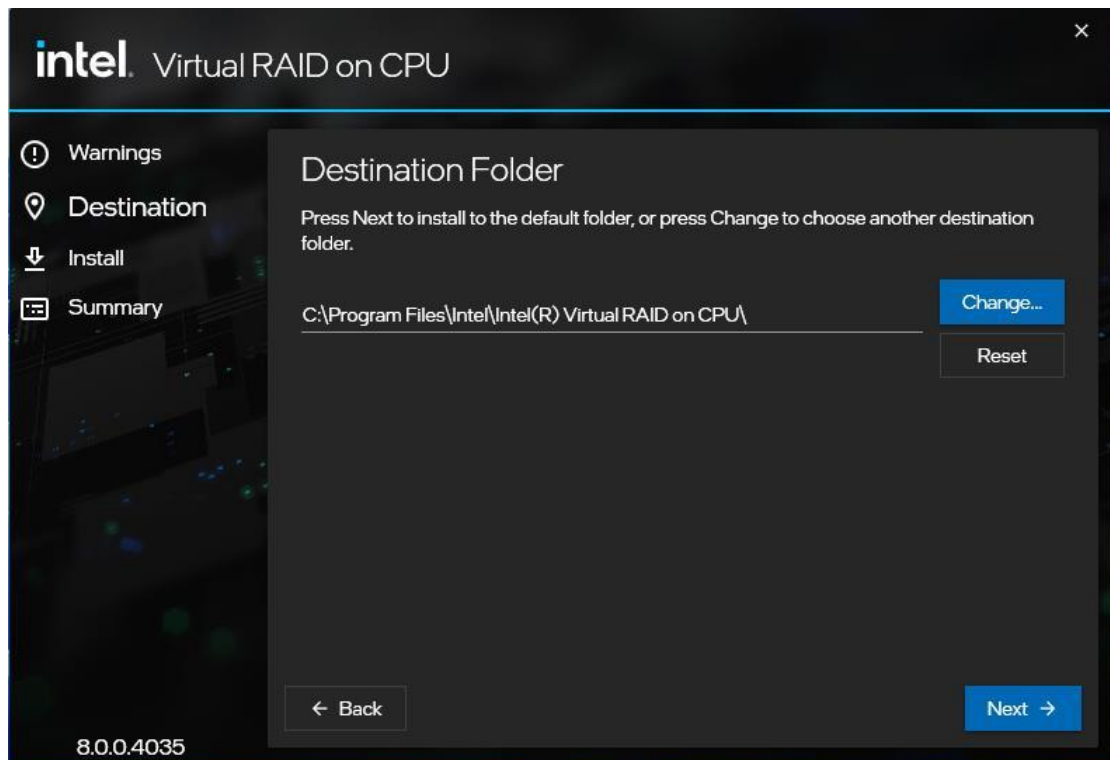
Click "Accept" to accept and continue.





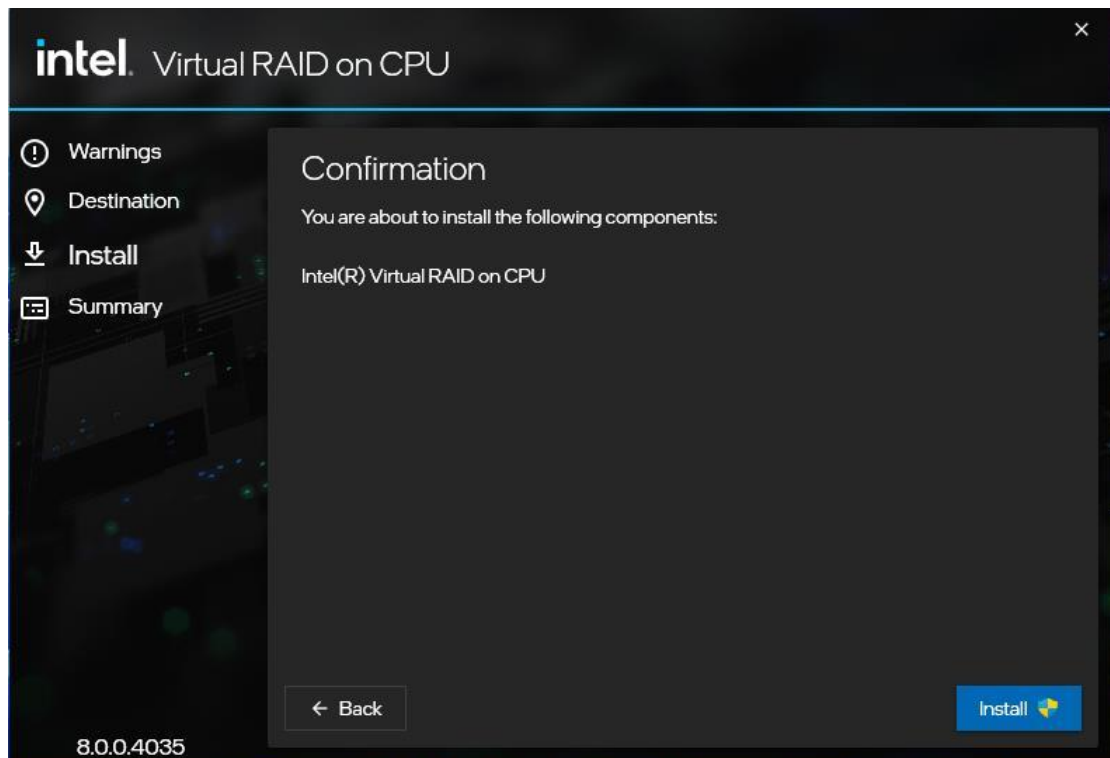
Step 4:

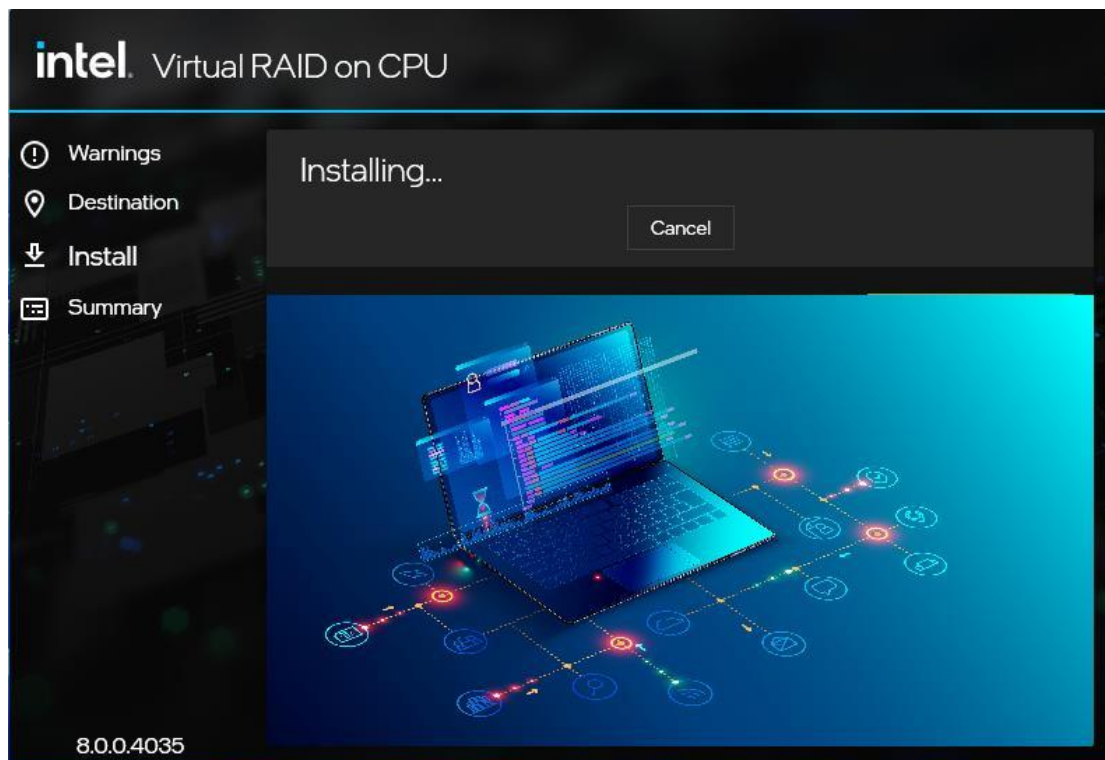
Select “Next” to install to the default folder, or click “Change” to choose another destination folder.



Step 5:

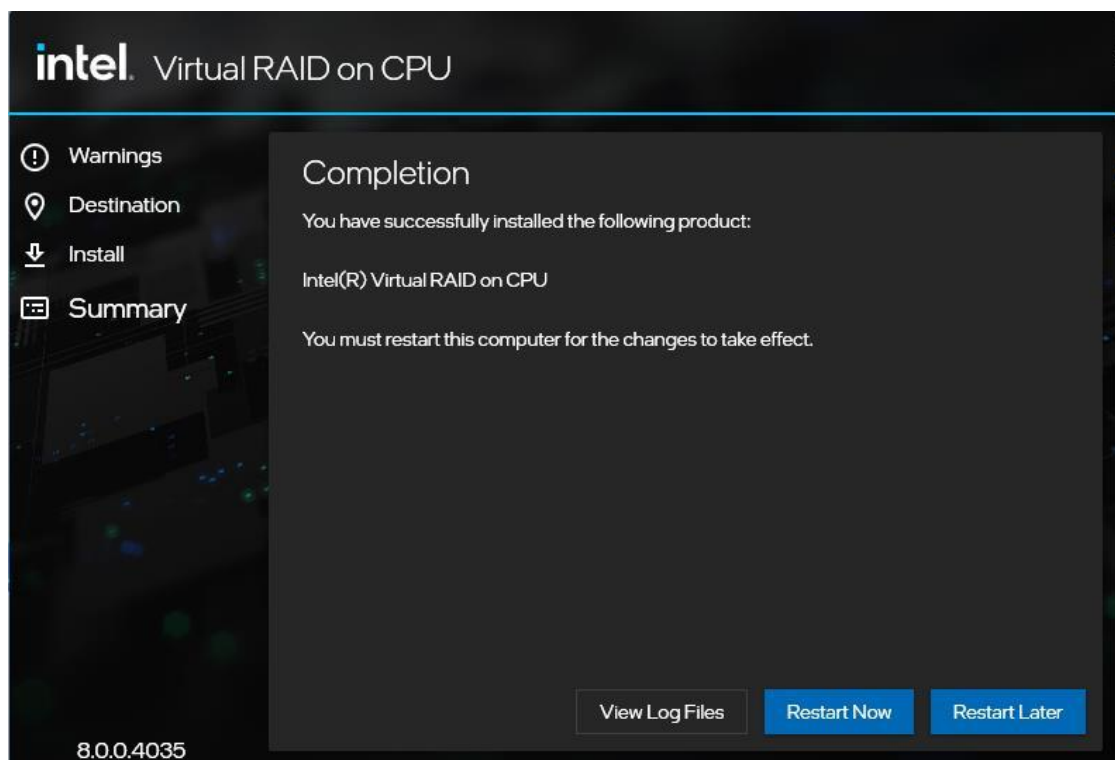
Click “Install” to install the selected components.





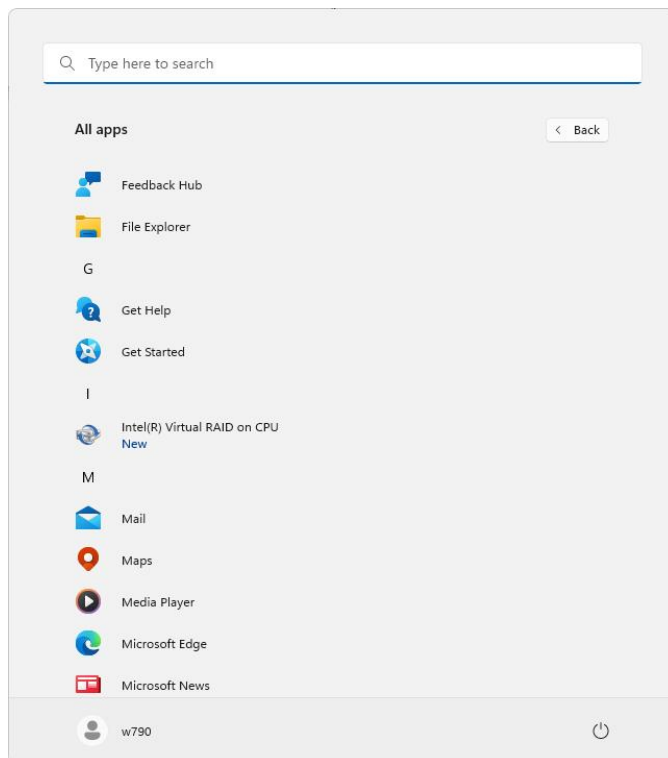
Step 6:

Click “Restart Now” to complete the installation process and reboot the system.

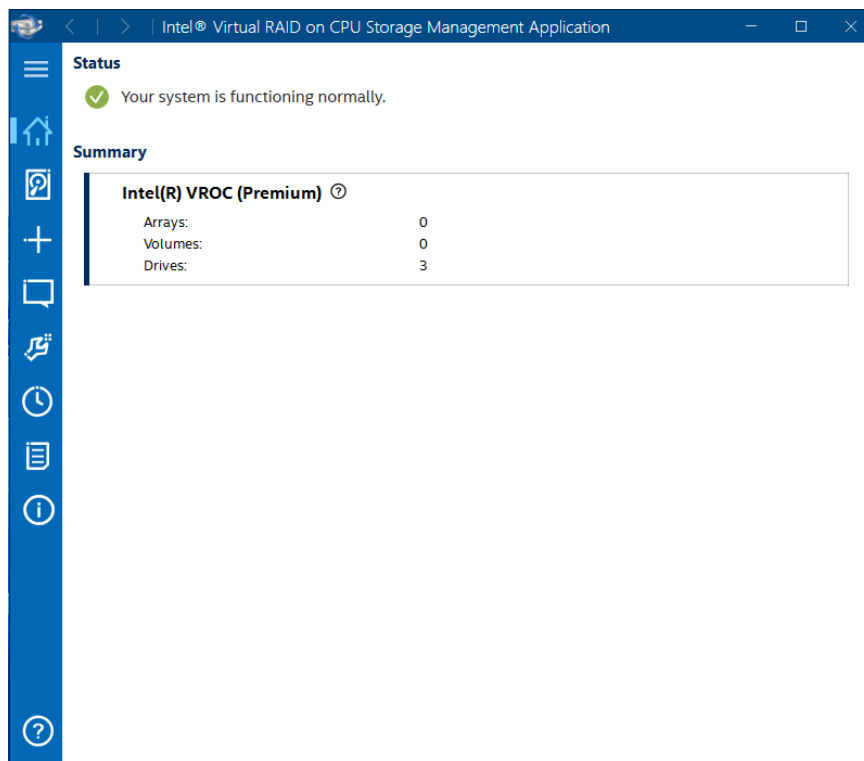




The “Intel® Virtual RAID on CPU” application will then appear in the Windows® Start menu.



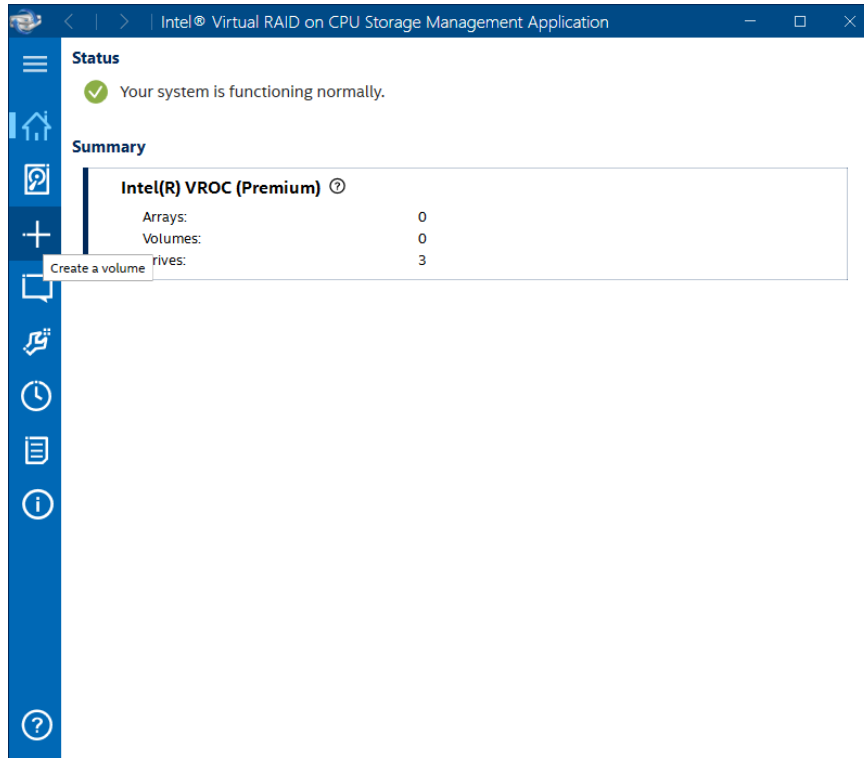
Launch the “Intel® Virtual RAID on CPU”





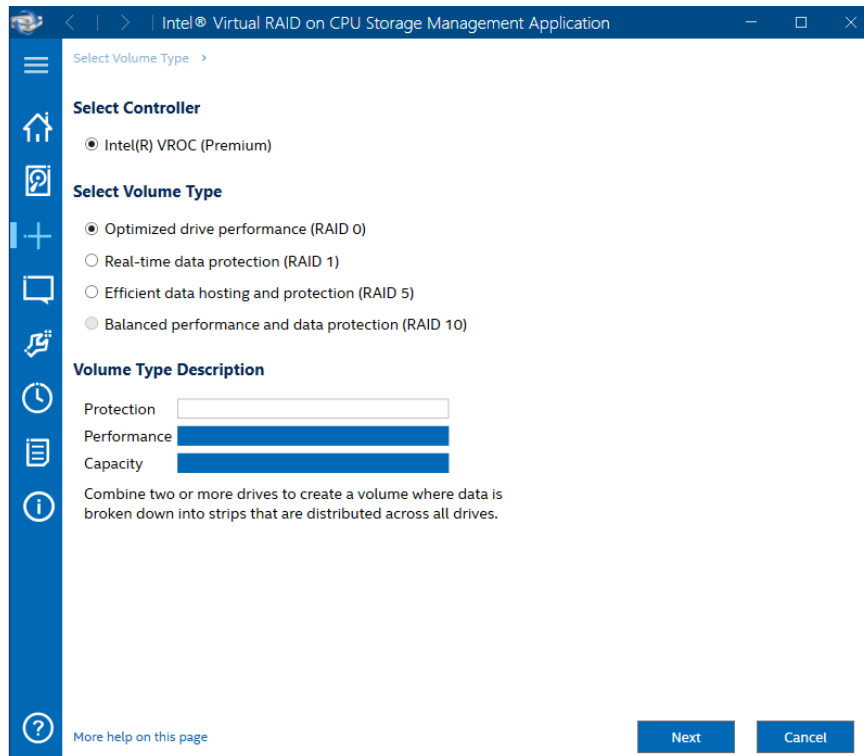
Step 7:

Within the menu pane on the left select the “+” (Create a Volume) to begin the process.



Step 8:

Select your desired RAID type and click “Next”.





Step 9:

Select the hard drives to be included in the RAID array and then click “Next”.

The screenshot shows the 'Select Drives' step of the Intel Virtual RAID on CPU Storage Management Application. The breadcrumb trail is 'Select Volume Type > Select Drives >'. A sidebar on the left contains navigation icons. The main area is titled 'Available Drives' and contains a table with the following data:

	Location	Model number	Serial number	Type	Size
>	VMD: 0, Port: 0	INTEL SSDPEKKW128G7	BTPY6314095R128A	NVMe* SSD	119.24 GB
>	<input checked="" type="checkbox"/> VMD: 1, Port: 1	PCIe SSD	CBA31931056400006417	NVMe* SSD	1,863.02 GB
>	<input checked="" type="checkbox"/> VMD: 1, Port: 0	PCIe SSD	CBA31931056400006420	NVMe* SSD	1,863.02 GB

Below the table, under 'Advanced configuration', there is a checkbox for 'Enable VMD controller spanning' which is currently unchecked. At the bottom right are 'Back', 'Next', and 'Cancel' buttons. A 'More help on this page' link is at the bottom left.

Step 10:

Configure the rest of the options and then click “Next”.

The screenshot shows the 'Configure' step of the Intel Virtual RAID on CPU Storage Management Application. The breadcrumb trail is 'Select Volume Type > Select Drives > Configure >'. The sidebar on the left is the same as in Step 9. The main area contains the following configuration options:

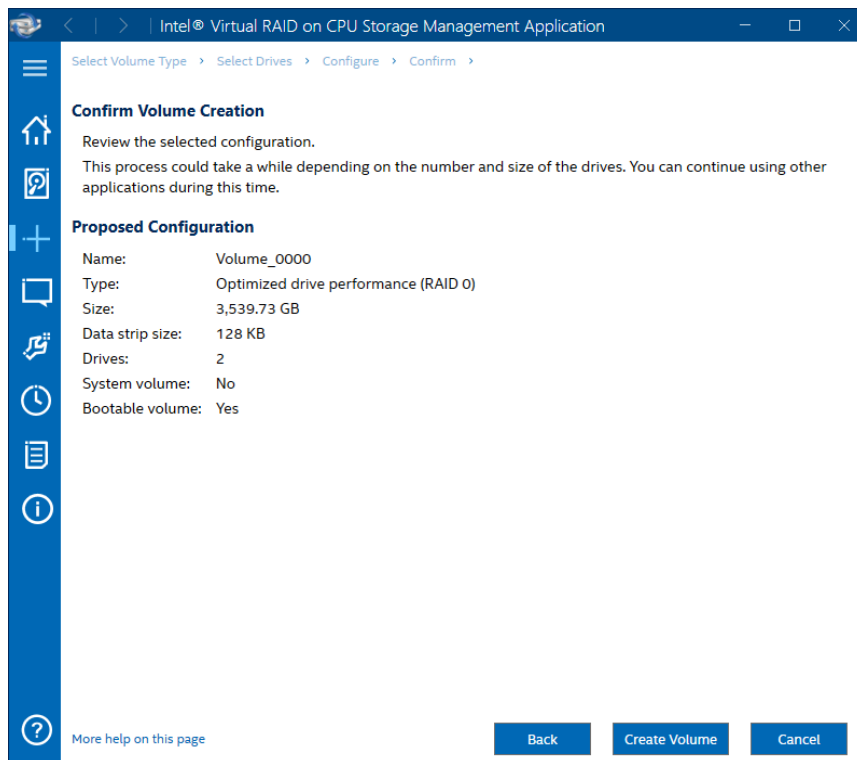
- Volume Name:** A text box containing 'Volume_0000'.
- Volume Size:** Displays '3,539.73 GB'. Below it, 'Array allocation:' is shown with a slider set to '95%'.
- Strip Size:** A dropdown menu set to '128 KB'.
- Advanced configuration:** A checkbox for 'Initialize volume' which is currently unchecked.

At the bottom right are 'Back', 'Next', and 'Cancel' buttons. A 'More help on this page' link is at the bottom left.



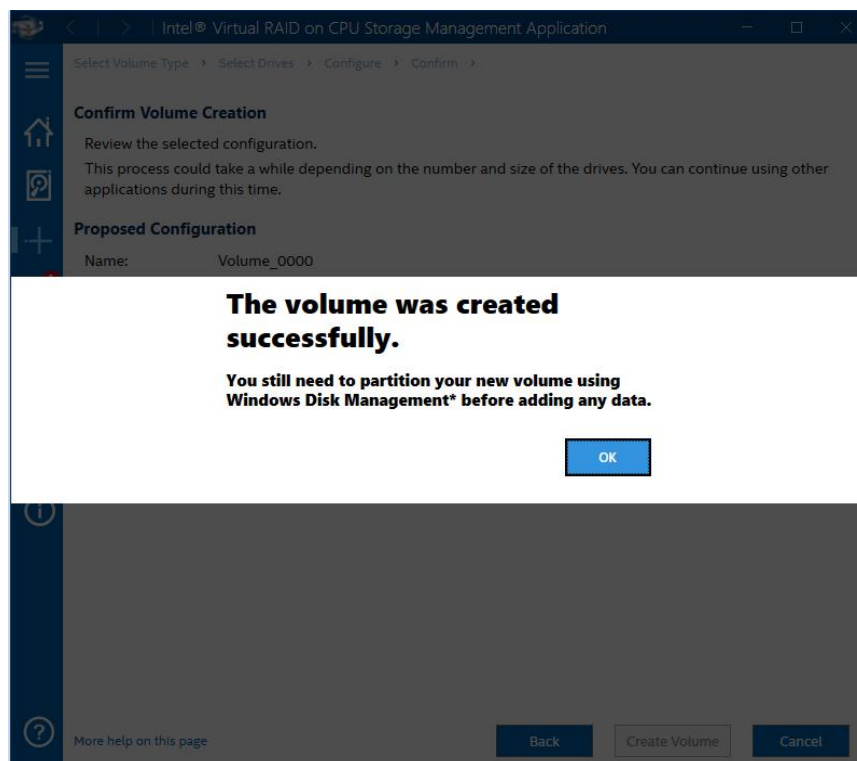
Step 11:

Configure Click “Create Volume”.



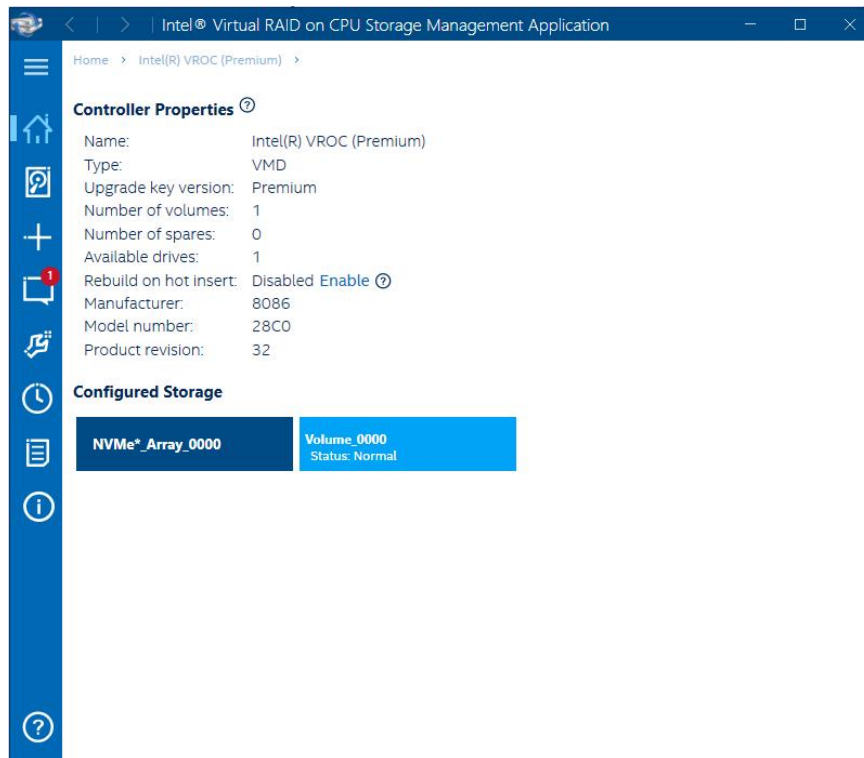
Step 12:

Click “OK” to continue. This will complete the volume creation process.



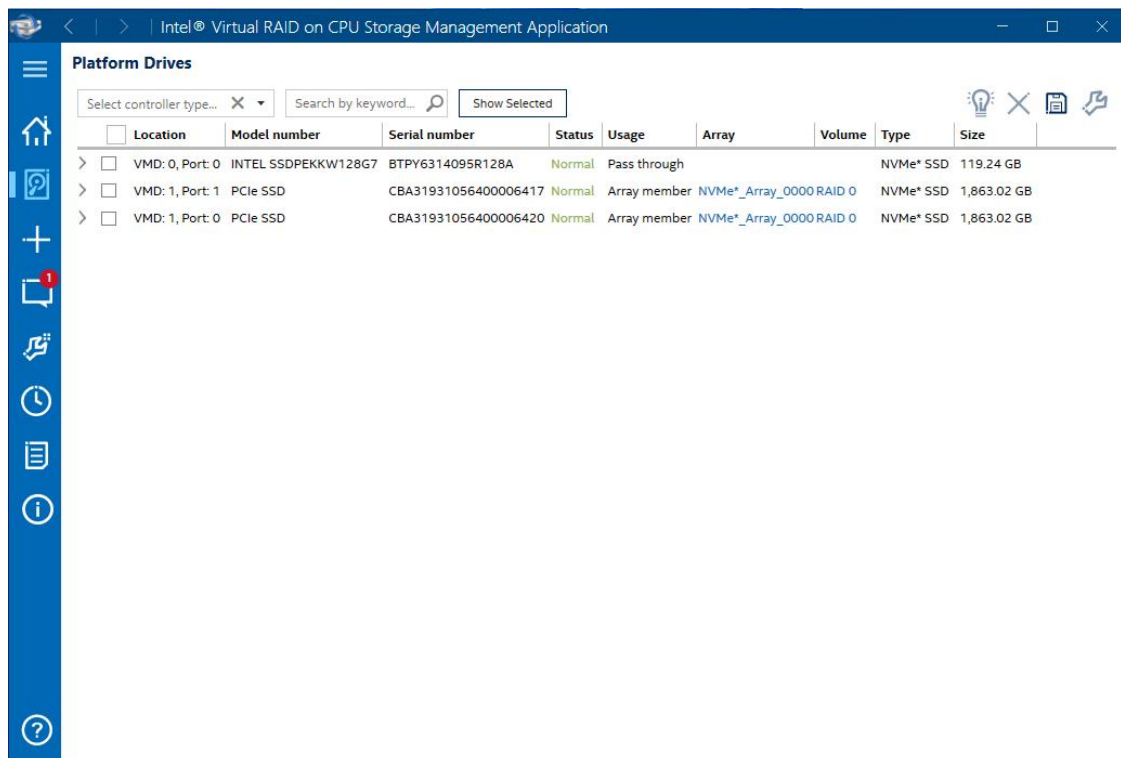


Volume Creation Complete



Step 13:

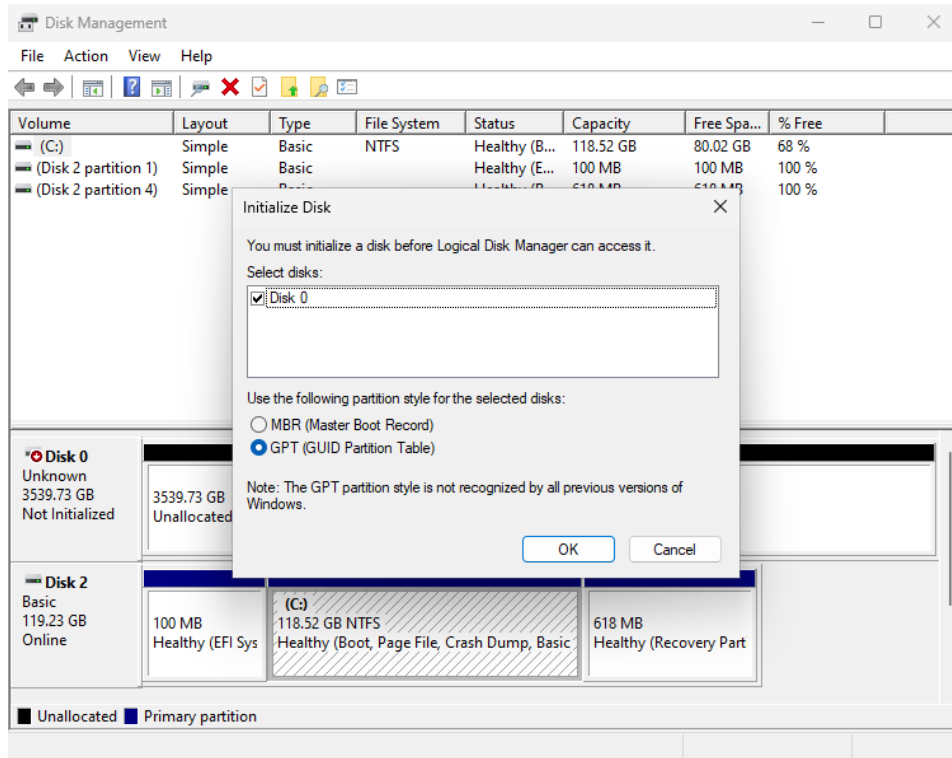
Within the menu pane on the left select the "Platform Drives" to view the current status and volume properties of the newly created RAID volume.





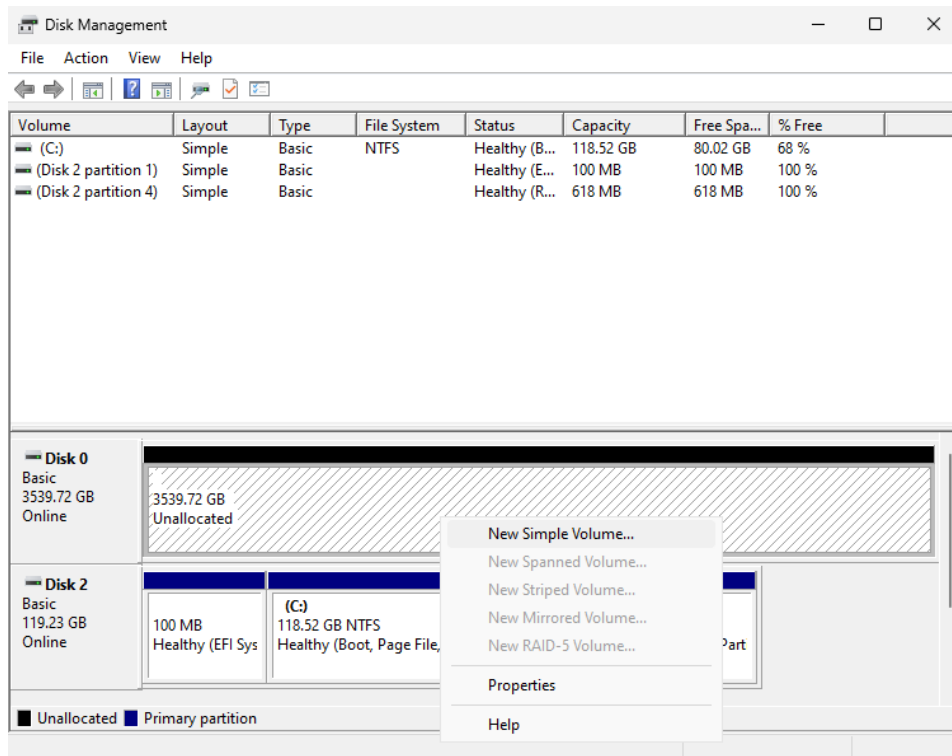
Step 14:

In Windows Disk Management, you need to initialize a disk before Logical Disk Management can access it. Click “OK”.



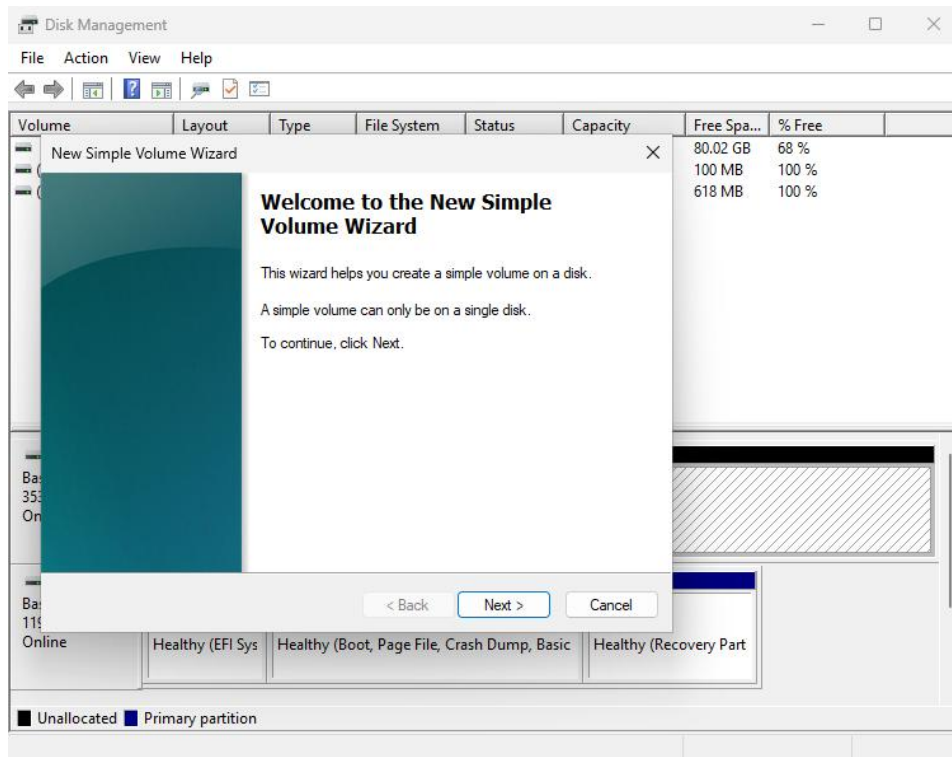
Step 15:

Right-click on Disk 0, click “New Simple Volume”.



Step 16:

Then follow the instructions on the New Simple Volume Wizard



Step 17:

Finally, you can start to use RAID 0 function.

