



# **eEVOS Storage Recommendations**

## **eEVOS R4**

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## Storage Performance consideration with eEVOS

This article will list some recommendations that you should consider when you choose server hardware. Following these guidelines can help remove performance bottlenecks and improve overall experience with eEVOS products.

### Disks

For the best performance and reliability we recommend using enterprise grade disks. Those will provide best response time and IO. Especially in clustered environments it is essential that the disks provide best possible response time.

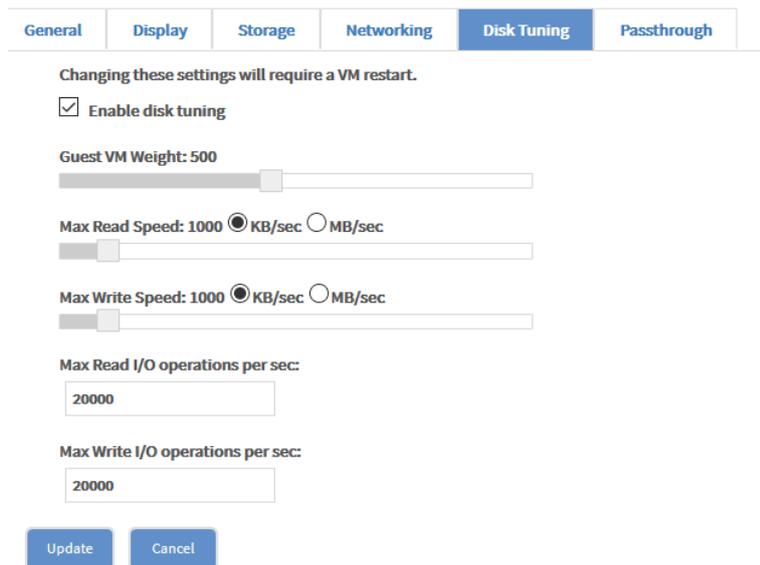
Desktop disks may be cheaper, but they could lead to sync problems in a cluster or slow IO response times.

SAS and SSD disks will provide best performance. Usage of Hardware RAID Controller is also recommended if system performance is important.

### IO Tuning of individual VMs

eEVOS will allow you to tune virtual disk performance of the individual virtual machine. This is very useful functionality if you wish to limit the usage of certain, less important VMs or VMs that usually consume too much bandwidth.

You can reach this functionality by editing your VM and clicking on “IO Tuning” tab



General Display Storage Networking **Disk Tuning** Passthrough

Changing these settings will require a VM restart.

Enable disk tuning

Guest VM Weight: 500

Max Read Speed: 1000  KB/sec  MB/sec

Max Write Speed: 1000  KB/sec  MB/sec

Max Read I/O operations per sec:  
20000

Max Write I/O operations per sec:  
20000

Update Cancel

It will let you define all important settings. Please be aware that this are max limits that also depend on the actual performance of the disks. If the disk for example cannot deliver more than 100 MB/s – setting the value to 200 MB/s will not improve any performance.

## Selection of the virtual disk caching

Virtual disk caching can significantly improve the VM performance. However depending on the type it can lead to data loss. Before changing the default setting please be certain that you are willing to take the risk. In this examples you can see the speed difference on an identical SSD disk and identical VM

eEVOS will provide you 3 types of caching

### Writeback

It will provide you with the best performance, however the risk of data loss on reset or power failure is much higher than on other types

### Writethrough (Default)

It provides good performance and it provides much lower risk of losing data on reset or power failure

### None (no caching)

It provides worst performance but minimum risk of losing data on reset or power failure

Writeback

Writethrough

No cache

