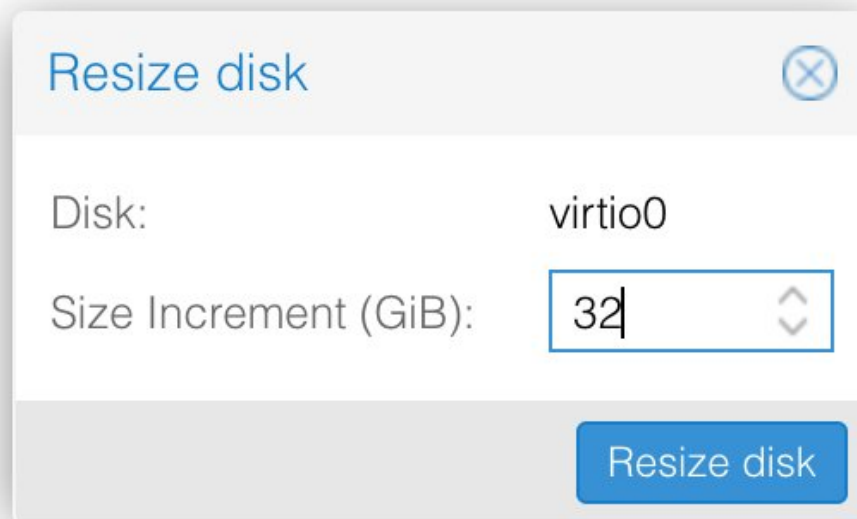


## Expanding the disk of your Proxmox macOS VM

Have you run out of room on your macOS VM's disk? Here's how you can expand it.

In the Hardware tab for your VM, select your disk and click the “resize disk” button at the top of the page. Enter the size increment in gigabytes (note, this is not the final size you want to achieve, it is the amount the disk will **grow by**).

A screenshot of the 'Resize disk' dialog box in Proxmox. The dialog has a title bar with 'Resize disk' and a close button. It contains two fields: 'Disk:' with the value 'virtio0' and 'Size Increment (GiB):' with a text input containing '32' and a spinner control. A blue 'Resize disk' button is at the bottom right.

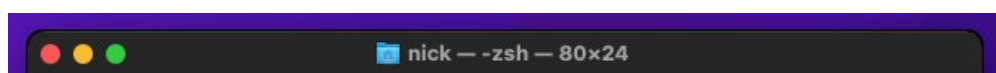
Resize disk

Disk: virtio0

Size Increment (GiB): 32

Resize disk

macOS won't take advantage of this new space yet, we'll need to expand the APFS volume to fill the disk. Boot up macOS, open up Terminal, and run “diskutil list” to check what the disk is called:



```

[nick@Nicholass-iPro ~ % diskutil list
/dev/disk0 (internal):
#          TYPE NAME              SIZE      IDENTIFIER
0:         GUID_partition_scheme  103.1 GB  disk0
1:         EFI EFI                209.7 MB  disk0s1
2:         Apple_APFS Container disk1 68.5 GB  disk0s2

/dev/disk1 (synthesized):
#          TYPE NAME              SIZE      IDENTIFIER
0:         APFS Container Scheme -  +68.5 GB  disk1
              Physical Store disk0s2
1:         APFS Volume Main - Data  1.9 GB   disk1s1
2:         APFS Volume Preboot     269.7 MB disk1s2
3:         APFS Volume Recovery    1.1 GB   disk1s3
4:         APFS Volume VM          1.1 MB   disk1s4
5:         APFS Volume Main        15.7 GB  disk1s5
6:         APFS Snapshot com.apple.os.update-... 15.7 GB  disk1s5s1

nick@Nicholass-iPro ~ %
```

Here you can see that despite disk0 being 103.1GB big, the disk1 APFS container that is hosted on it is only 68.5GB.

First run “diskutil repairDisk disk0” to grow the partition table to fill the entire disk:

```

[nick@Nicholass-iPro ~ % diskutil repairDisk disk0
Repairing the partition map might erase disk0s1, proceed? (y/N) y
Started partition map repair on disk0
Checking prerequisites
Checking the partition list
Adjusting partition map to fit whole disk as required
Did grow entire partition map
Checking for an EFI system partition
Checking the EFI system partition's size
Checking the EFI system partition's file system
Checking the EFI system partition's folder content
Checking all HFS data partition loader spaces
Checking booter partitions
Reviewing boot support loaders
Checking Core Storage Physical Volume partitions
The partition map appears to be OK
Finished partition map repair on disk0
nick@Nicholass-iPro ~ %
```

Now we can resize the APFS container, run “diskutil apfs resizeContainer disk1 0” to grow it to fill the entire disk:

```

[nick@Nicholass-iPro ~ % diskutil apfs resizeContainer disk1 0
Started APFS operation
Aligning grow delta to 34,359,738,368 bytes and targeting a new physical store size of 102,869,458,944 bytes
Determined the maximum size for the targeted physical store of this APFS Container to be 102,868,430,848 bytes
Resizing APFS Container designated by APFS Container Reference disk1
The specific APFS Physical Store being resized is disk0s2
Verifying storage system
Using live mode
Performing fsck_apfs -n -x -l /dev/disk0s2
Checking the container superblock
Checking the EFI jumpstart record
Checking the space manager
Checking the space manager free queue trees
Checking the object map
Checking the encryption key structures
Checking volume /dev/rdisk1s1
Checking the APFS volume superblock
Checking the object map
Checking the snapshot metadata tree
Checking the snapshot metadata
Checking the extent ref tree
Checking the fsroot tree
Verifying volume object map space
The volume /dev/rdisk1s1 appears to be OK
```

```
Checking volume /dev/rdisk1s2
Checking the APFS volume superblock
Checking the object map
Checking volume /dev/rdisk1s5
Checking the APFS volume superblock
Checking the object map
Checking the snapshot metadata tree
Checking the snapshot metadata
Checking snapshot 1 of 1 (com.apple.os.update-731FFAAF9830B1760968C2024FB0914C3A062192BFA55CF51D7E07C223858619)
Checking the extent ref tree
Checking the fsroot tree
Checking the file extent tree
Verifying volume object map space
The volume /dev/rdisk1s5 appears to be OK
Checking volume /dev/rdisk1s6
Checking the APFS volume superblock
Checking the object map
Checking the snapshot metadata tree
Checking the snapshot metadata
Checking the extent ref tree
Checking the fsroot tree
Verifying volume object map space
The volume /dev/rdisk1s6 appears to be OK
Verifying allocated space
The container /dev/disk0s2 appears to be OK
Storage system check exit code is 0
Growing APFS Physical Store disk0s2 from 68,509,720,576 to 102,869,458,944 bytes
Modifying partition map
Growing APFS data structures
Finished APFS operation
nick@Nicholass-iPro ~ %
```

Now that new space should be available to your macOS VM!

 December 19, 2021    Nicholas Sherlock    macOS / Hackintosh, Proxmox

## 4 thoughts on “Expanding the disk of your Proxmox macOS VM”



**jamie**

December 22, 2021 at 1:40 pm

THANK YOU SO MUCH!

REPLY



**Michael Lorenz**

March 22, 2022 at 1:28 pm

Thank you so very much!

I searched the net and didn't find a good answer\* to this – and here it

is!

\*Answers found in proxmox forum(btw even by proxmox staff) – where'd helpful or just plainly wrong! Like use the GUI...which of course didn't work.

REPLY



**everwisher**

June 10, 2022 at 2:29 pm

The real problem is the disk seems to continue growing as if the TRIM feature is not working

REPLY



**Jaminmc**

June 12, 2022 at 5:50 pm

You need to have the discard checked, then emulate ssd.

In macOS you may need to run 'sudo trimforce enable' to enable trim. Check under system info that macOS has trim enabled.

REPLY

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