Extending Disk Space

Depending on your environment you may need to enlarge the virtual disk on which ConnectionsExpert stores its data on.

A Please note that all virtual disks have to be located on the same physical storage. Please also note that extending disk space ALWAYS means that you have to add a new disk on virtual hardware level. I. e. extending disk space never means enlarging existing disks.

- Extending VMWare Disk
 Extending Hyper-V Disk
- Enlarging the Partition in the ConnectionsExpert Appliance

Extending VMWare Disk

Extending the virtual disk is done using the VMWare host application. Here are examples for VMWare Workstation and vSphere:

evice	Summary	Disk file	
Memory	8 GB	application_insights.vmdk	
Processors	4		
Hard Disk (SCSI)	120 GB	Capacity	
CD/DVD (SCSI)	Auto detect	Current size: 5.6 GB	
Network Adapter		System free: 247.5 GB	
Display	Auto detect	Maximum size: 120 GB	
		Disk information	
		Disk space is not preallocated for this hard	disk.
		Hard disk contents are stored in a single fil	e.
		Disk utilities	
		Map this virtual machine disk to a local volume.	<u>M</u> ap
		Defragment files and consolidate free space.	Defragment
		Expand disk capacity.	Expand
		Compact disk to reclaim unused space.	Compact
			Ad <u>v</u> anced
	Add Remove		

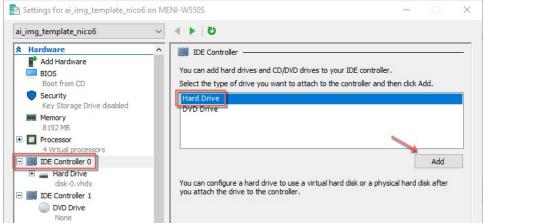
Add Hardware Wizard			×
Hardware Type			
What type of hardware do you	want to insta	all?	
Hardware type	Explan	nation	
Hard Disk	Add a	hard disk.	
CD/DVD Drive			
Floppy Drive			
Sound Card			
Parallel Port			
OIO Serial Port			
Printer			
Generic SCSI Device			
		M	
	< <u>B</u> ack	<u>N</u> ext >	Cancel
Add Handurer Without	< <u>B</u> ack	<u>N</u> ext >	
Add Hardware Wizard	< <u>B</u> ack	Next >	Cancel ×
Specify Disk Capacity		<u>N</u> ext >	
		Next >	
Specify Disk Capacity How large do you want this disk		Next >	
Specify Disk Capacity How large do you want this disk	to be?	Next >	
Specify Disk Capacity How large do you want this disk Maximum disk size (GB):	to be?	Next >	
Specify Disk Capacity How large do you want this disk Maximum disk size (GB):	to be?	Next >	
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Specify Disk Capacity How large do you want this disk Maximum disk size (GB): Recommended size for CentOS 64-bit Allocate all disk space now. Allocating the full capacity can en physical disk space to be available space now, the virtual disk starts	to be? 200.0 🔹 t: 20 GB hance perfore right now. 1 small and gr	rmance but requir If you do not alloc ows as you add d	es all of the rate all the ata to it.
Specify Disk Capacity How large do you want this disk Maximum disk gize (GB): Recommended size for CentOS 64-bit Allocate all disk space now. Allocating the full capacity can en physical disk space to be available space now, the virtual disk starts	to be? 200.0 🔹 t: 20 GB hance perfore right now. 1 small and gr	rmance but requir If you do not alloc ows as you add d	es all of the rate all the ata to it.

Please restart the virtual appliance after adding the new disk.

Extending Hyper-V Disk

To extend the virtual disk, open the virtual machine properties and follow the steps below:

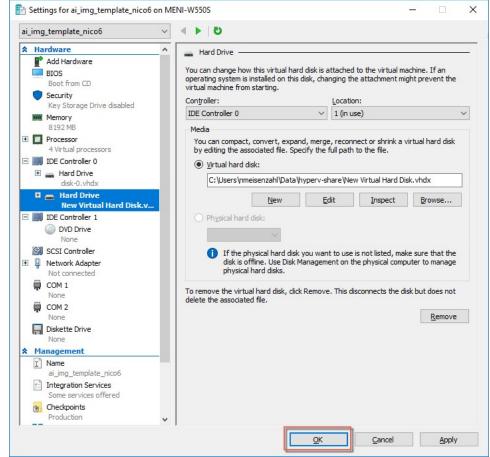
1. Navigate to IDE Controller 0, select Hard drive and click Add



2. Select New and finish the wizard:

🔜 Hard Drive			🏝 New Virtual Hard Disk W	lizard
	al hard disk is attached to the virt n this disk, changing the attachme		📥 Choose Dis	sk Format
Controller:	Location:		Before You Begin	What format do
IDE Controller 0	 1 (in use) 	~	Choose Disk Format	
Media			Choose Disk Type Specify Name and Location	Supports vir
	expand, merge, reconnect or shri e. Specify the full path to the file.		Configure Disk Summary	This format from power
• <u>V</u> irtual hard disk:				
O Physical hard disk:	<u>E</u> dit <u>I</u> nspe	ct <u>B</u> rowse		
	d disk you want to use is not listed Disk Management on the physical S.			
To remove the virtual hard dis delete the associated file.	k, click Remove. This disconnects	the disk but does not		
		<u>R</u> emove		

3. After finishing the wizard click Ok to exit the Settings:



Please restart the virtual appliance after adding the new disk.

Enlarging the Partition in the ConnectionsExpert Appliance

1. The easiest way to enlarge a partition in ConnectionsExpert is to use the installed partition manager **GParted**. Please launch it using the Applications menu (you can also start GParted from the Terminal with "sudo gparted"):

2. Select the new physical disk:

GParted Edit View			/dev/sda – GPar lp	ted		(120.00 Gi
			v/sda2 00 GiB		/de	(200.00 Gi w/sda3 .00 GiB
Partition Fil	e System	Mount Point	Size	Used	Unused	Flags
/dev/sda1 🤜 📕	xfs	/boot	1.00 GiB	151.79 MiB	872.21 MiB	boot
/dev/sda2 🤜 📕	lvm2 pv	cl-pan	95.00 GiB	95.00 GiB	0.00 B	lvm
/dev/sda3 🧠 📕	lvm2 pv	cl	24.00 GiB	23.99 GiB	4.00 MiB	lvm

3. Select the unallocated space, open the *Device* menu and on click on *Create Partition Table*:

		/dev/sdb - G	Parted		_ 0 ×
GParted Edit Vi	iew Device Partit Create Parti Attempt Da	ition Table ta Rescue unallocat		/dev/sdb	(200.00 GiB) ~
		200.00 0	SiB		
Partition	File System	Size	Used	Unused	Flags
unallocated 🛕	unallocated	🙀 200.00 GiB			
0 operations pendi		1			

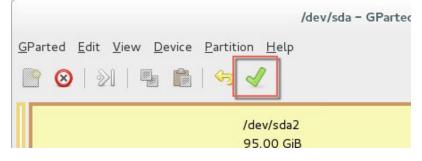
4. Click on Apply in the warning:



- 5. Select the new unallocated space, right-click and select New: /dev/sdb - GParted × GParted Edit View Device Partition Help 9 8 ____/dev/sdb (200.00 GiB) ∨ | 2| | 🖥 💼 | 🦘 🖌 unallocated 200.00 GiB Flags Partition File System Size Used Unused unallocated 📕 unallocated Insert New Delete Delete Resize/Move
- 6. From the Createas drop down menu, select PrimaryPartition and chose Ivm2pv as File system (if needed, a Label can be defined):

Minimum size	e: 1 MiB		Maximum size	: 204799 MiB
Free space preceding (MiB):	1	*	Create as:	Primary Partition
New size (MiB):	204799	< >	File system:	lvm2 pv
Free space following (MiB):	0	^ ~		
Align to:	МіВ	~	Label:	

7. Save your changes by clicking the apply button - also on the popup message



8. Start the Logical Volumes Manager from the Applications menu

9. Open the Logical View on the left hand side, select Physical View and click Extend VolumeGroup:

	Logical Volume Management	- • ×
Eile Tools View Help Volume Groups ct ct ct-pan Phymcal View /dev/sda2 Logical View opt_panagenda_appdata opt_panagenda_pgdata Unallocated Volumes /dev/sda5	Logical Volume Management Best Eit Zoom Jn Zoom Out Volume Group ci-pa rda2 Physical Vev 2 Extend Remove Selected	Properties for Volume Group Cl-pan Volume Group Name: cl-pan Clustere: False System ID: Forma: Vm2 Attributes: Worm? Volume Group Size: 95.000 Attributes: Worm? Volume Group Size: 95.000 Attributes: Volume: 95.000 Attributes: Volume: 95.000 Attributes: Volume: 10 Matiuma Malowed Logid Volumes: 2 Number of Physical Volumes: 3 VG UID: TBddf-db1wu010-ryml-4eth

10. Select your new volume and click OK:

Select disk	entities to a	dd to the cl-pan Volume
Name	Size	Entity Type
/dev/sdb1	200.00GB	Unallocated Physical V

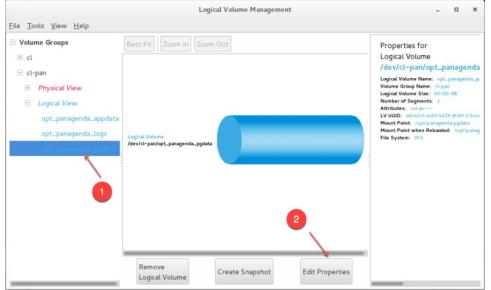
11. After this, select the logical volume opt_panagenda_appdata:

	Logical Volume Management	- • ×
<u>F</u> ile <u>T</u> ools <u>V</u> iew <u>H</u> elp		
 Volume Groups cl cl-pan Physical View Logical View opt_panagenda_logs opt_panagenda_pgdata 	Best Fit) Zoom In) Zoom Out	Properties for Logical Volume /dev/cl-pan/opt_panagend Logical Volume Smark : tryin Unime Group Name: tryin Logical Volume Size: 60.000 dB Number of Segment : 1 Attibutes: vnrsorr U Volum: rook rathW43Der(SAH=320 Mount Point: vhen Rebooted: /opt/pana File System: XFS
	Remove Logical Volume	25

12. Resize the logical volume as needed (initial dimensioning: 5MB x database instances - for more details, please refer to the Setup Guide):

I	Edit Logical V	olume		
LV name: opt_pan	agenda_app	data		
LV Properties				
Mirrored				
Size				
Remaining	free space 0.0 Gigab		Group:	
LV size 260.0		Gig	abytes	~
60.0				50.0
Use remaining	Remaining 0	space for 0.0 Gigaby		ime:
Filesystem				
XFS				~
🖌 Mount 🗹 M	lount when	rebooted		
Mount point: /c	opt/panager	nda/appda	ta	
Rev	ert <u>C</u>	ancel	<u>O</u> K	

13. Select the logical volume opt_panagenda_pgdata (for more details on initial dimensioning, please refer to the Setup Guide):



14. Resize the logical volume as needed (see step 12)

🛈 Тір

You can repeat this enlargement whenever you need more space.