Extending Disk Space

Depending on your environment you may need to enlarge the virtual disk on which ApplicationInsights 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 ApplicationInsights 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	Bridged (Automatic)	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 file	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 Hardware Wizard			×
Hardware Type			
What type of hardware do you	want to inst	all?	
Hardware type	Explar	nation	
Hard Disk	Add a	hard disk.	
CD/DVD Drive			
Floppy Drive			
Sound Card			
Parallel Port			
OIO Serial Port			
Printer			
Generic SCSI Device			
		-	
	< <u>B</u> ack	Next >	Cancel
Add Handurer Winned	< <u>B</u> ack	<u>N</u> ext >	Cancel
Add Hardware Wizard	< <u>B</u> ack	Next >	Cancel ×
Add Hardware Wizard Specify Disk Capacity	< <u>B</u> ack	Next >	Cancel X
Add Hardware Wizard Specify Disk Capacity How large do you want this disk	< Back	Next >	Cancel
Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk <u>s</u> ize (GB):	< Back	Next >	Cancel
Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk size (GB): Recommended size for CentOS 64-bi	< Back	Next >	Cancel
Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk <u>size (GB):</u> Recommended size for CentOS 64-bi	< Back	Next >	Cancel
Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk gize (GB): Recommended size for CentOS 64-bi Allocate all disk space now.	< Back	Next >	Cancel
Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk gize (GB): Recommended size for CentOS 64-bi Allocate all disk space now. Allocating the full capacity can en	< Back	Next >	Cancel X
Add Hardware Wizard 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	< Back	Next >	Cancel X
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Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk gize (GB): Recommended size for CentOS 64-bi Allocate all disk space now. Allocating the full capacity can en physical disk space to be available space now, the virtual disk starts Split virtual disk as a single file Split virtual disk into multiple files Splitting the disk makes it easier to	< Back	Next >	Cancel X es all of the rate all the rata to it.
Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk size (GB): Recommended size for CentOS 64-bi Allocate all disk space now. Allocating the full capacity can en physical disk space to be available space now, the virtual disk starts Split virtual disk into multiple files Splitting the disk makes it easier t computer but may reduce perform	< Back	Next >	Cancel X es all of the rate all the ata to it.
Add Hardware Wizard Specify Disk Capacity How large do you want this disk Maximum disk gize (GB): Recommended size for CentOS 64-bi Allocate all disk space now. Allocating the full capacity can en physical disk space to be available space now, the virtual disk starts Split virtual disk as a single file Split virtual disk into multiple files Splitting the disk makes it easier t computer but may reduce perform	< Back	Next >	Cancel X es all of the ate 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	/izard
You can change how this virtu operating system is installed o virtual machine from starting.	al hard disk is attached to the virtu n this disk, changing the attachme	ual machine. If an nt might prevent the	📥 Choose Die	sk Format
Controller:	Location:		Before You Begin	What format do
IDE Controller 0	 1 (in use) 	~	Choose Disk Format	
Media			Specify Name and Location	Supports vir
You can compact, convert, by editing the associated fil	expand, merge, reconnect or shri e. Specify the full path to the file.	nk a virtual hard disk	Configure Disk Summary	This format from power
O Virtual hard disk:				
O Physical hard disk:	<u>E</u> dit <u>I</u> nspe	et <u>B</u> rowse		
If the physical har disk is offline. Use physical hard disks	d disk you want to use is not listed Disk Management on the physical 5.	l, make sure that the computer to manage		
To remove the virtual hard dis delete the associated file.	k, click Remove. This disconnects t	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 ApplicationInsights Appliance

1. The easiest way to enlarge a partition in ApplicationInsights 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:

			/dev/sda - GParte	ed	-	×
GParted Edit	View Device	Partition Hel	p		/dev/sda	(120.00 GiB
		/dev 95.0	ı/sda2 DO GiB		/dev/sab /de	(200.00 GIB) w/sda3 .00 GiB
Partition	File System	Mount Point	Size	Used	Unused	Flags
/dev/sdal 🤜	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
0 operations pend	ling					

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

		/dev/sdb - G	Parted		- • ×
GParted Edit	View Device Partit	tion Help ition Table	- 2	/dev/sdb	(200.00 GiB) 🔻
		unallocat 200.00 (ed GiB		
Partition	File System	Size	Used	Unused	Flags
unallocated	🛕 🔲 unallocated	🗶 200.00 GiB			
		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	* >		
Alian to:	MiB		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-pan Physical View /dev/sda2 Logical View opt_panagenda_appdata opt_panagenda_logs opt_panagenda_pgdata View/sda5	Logical Volume Management Best Eit Zoom In Zoom Out Volume Group ci-pas Physical View Extend Remove Selecte	Properties for Volume Group Cl-pan Volume Group Name: cl-pan Clustere: Fake System ID; Format: twn2 Artibutes: wz-m Volume Group Size: 95.0003 Availabe Space: 0 Total Number of Extents: 24320 Number of Extents: 24320 Number of Extents: 24320 Extent Size: 4.000 Maximum Allowed Logical Volumes: 2 Number of Logical Volumes: 3 VG UUID: T0366-cb1w-u010-cyml-4std

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 : drym Unume Group Name: chym Logical Volume Size: 60.000 GB Number of Segments: 1 Attibutes: vmrsorr U VUID: modraf raMV+3Dp://sH+230 Mount Point: /mpt/jansad/spdd.at Mount Point: when 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):

	Edit Logical \	/olume		
LV name: opt_pan	agenda_apı	odata		
LV Properties				
Mirrored				
Size				
Remaining	free space 0.0 Gigal	in Volun bytes	ne Group	
LV size 260.0		G	Bigabytes	~
60.0			0	260.0
Use remaining	Remaining (space fo 0.0 Gigal	or this Vo bytes	lume:
Filesystem				
XFS				~
🗹 Mount 🗹 M	lount whe	n reboot	ed 🔪	
Mount point: /	opt/panage	nda/app	data	
Rev	ert 🤇	ancel	<u>O</u> I	<

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.