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## **Expand harddisk in ESET Protect Virtual Appliance**

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- 1. Expand the disk of your ESET Protect Virtual Appliance in your hypervisor platform.
- 2. It is advisable to create a snapshot before proceeding.
- 3. Power on your ESET Protect Virtual Appliance
- 4. Login via SSH or the VM Console (and exit to terminal)
- 5. Extend the partition by using the command fdisk /dev/sda Enter **p** to print your initial partition table. Enter d (delete) followed by 2 to delete the existing partition definition (partition 1 is usually /boot and partition 2 is usually the root partition). Enter n (new) followed by p (primary) followed by 2 to re-create partition number 2 and enter to accept the start block and enter again to accept the end block which is defaulted to the end of the disk. [root@protect ~]# fdisk /dev/sda Welcome to fdisk (util-linux 2.23.2). Changes will remain in memory only, until you decide to write them. Be careful before using the write command. Command (m for help): p Disk /dev/sda: 75.2 GB, 75161927680 bytes, 146800640 sectors Units = sectors of 1 \* 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disk label type: dos Disk identifier: 0x0007fed1 Device Boot Start End Blocks Id System /dev/sda1 2048 1026047 512000 83 Linux 66595840 /dev/sda2 1026048 134217727 8e Linux LVM Command (m for help): d Partition number (1,2, default 2): 2 Partition 2 is deleted Command (m for help): n Partition type: primary (1 primary, 0 extended, 3 free) р extended е Select (default p): p Partition number (2-4, default 2): 2 First sector (1026048-146800639, default 1026048): Using default value 1026048 Last sector, +sectors or +size{K,M,G} (1026048-146800639, default 146800639): Using default value 146800639 Partition 2 of type Linux and of size 69.5 GiB is set Enter t (type) then 2 then 8e to change the new partition type to "Linux LVM". Command (m for help): t Partition number (1,2, default 2): 2 Hex code (type L to list all codes): 8e Changed type of partition 'Linux' to 'Linux LVM' Enter p to print your new partition table and make sure the start block matches what was in the initial partition table printed above. Device Boot End Blocks ы System Start /dev/sda1 2048 1026047 512000 83 Linux ¥ /dev/sda2 1026048 146800639 72887296 Linux LUM 8e

Enter w to write the partition table to disk. You will see an error about Device or resource busy which you can ignore.

		l (m for help): u		
	The partition table has been altered!			
	Calling inst() to re-read partition table			
	Calling ioctl() to re-read partition table.			
	WARNING: Re-reading the partition table failed with error 16: Device or resource busy. The kernel still uses the old table. The new table will be used at the next reboot or after you run partprobe(8) or kpartx(8) Syncing disks.			
6.	Reboot the ESET Protect Virtual Appliance.			
7.	Resize the physical volume: pvresize /dev/sda2			da2
	[root0]	2		
	Phys	ical volume "⁄	dev/sda2" chang	ed
	1 physical volume(s) resized or updated / 0 physical volume(s) not resiz			
8	Expand the logical volume: lvextend -l +100%FREE /dev/centos ba-eraappl-v/root			
0.			.00%FREE /dev/centos_ba-e	<u> </u>
	Size of	logical volume centos_	ba-eraappl-v/root change	l from <40.03 GiB (10247 extents) to <46.09 GiB (11799 extents).
0			pl-v/root successfully r	1260.
9.	Expand the file system: xfs_growfs / [root@protect ~]# xfs_growfs /			
	meta-data=/dev/mapper/centos_baeraapplv-root isize=256 agcount=4, agsize=2623232 bl			
		=	sectsz=512	attr=2, projid32bit=1
			crc=0	finobt=0 spinodes=0
	data	=	bsize=4096 sunit=0	blocks=10492928, imaxpct=25 swidth=0 blks
	naming	- =version 2	bsize=4096	
	log	=internal	bsize=4096	
			sectsz=512	
	realtime		extsz=4096	
10	data blocks changed from 10492928 to 12082176 You have now successfully expanded the harddisk of your ESET Protect Virtual Appliance:			
10.	[root@protect ~]# df -h			
	Filesys		Siz	
	devtmpf: tmpfs	S	908 928	Deferre
	tmpfs		928	
	tmpfs		920	
		pper/centos_bae		
	/dev/maj /dev/sda	pper/centos_bae	raapplv-home 20 497	
	tmofs	a 1	184	
	Iroot@protect ~]# xfs_growfs /			
			sectsz=512 crc=0	attr=2, projid32bit=1 finobt=0 spinodes=0
	data		bsize=4096	
			sunit=0	swidth=0 blks
	naming	=version 2	bsize=4096	
	log	=internal =	bsize=4096 sectsz=512	
	realtim	e =none	extsz=4096	
	data blocks changed from 10492928 to 12082176			76
	Filesys <sup>-</sup>	rotect ~]# df -h	Siz	e Used Avail Use% Mounted on
	devtmpf:		908	
	tmpfs		928	M A 920M Az zdevzshm
	tmpfs		928	
	tmpfs	pper/centos_bae	928 raapplv-root 47	
		pper/centos_bae		
	/dev/sd		497	M 124M 374M 25% /boot
	tmpfs		184	M 0 184M 0% /run/user/0
	trootly	rotect ~]#		