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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)
- 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 and of the dial.

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
                                    1026047
                                                     512000
                                                                83
                                                                     Linux
/dev/sda1
                         2048
/dev/sda2
                                                                8e Linux LVM
                                134217727
                      1026048
                                                  66595840
Command (m for help): d
Partition number (1,2, default 2): 2
Partition 2 is deleted
Command (m for help): n
Partition type:
    p primary (1 primary, 0 extended, 3 free)
    e extended
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	Start	End	Blocks	Id	System
∕dev/sda1	×	2048	1026047	512000	83	Linux
/dev/sda2		1026048	146800639	72887296	8e	Linux LVM

Enter w to write the partition table to disk. You will see an error about Device or

resource busy which you can ignore.

Command (m for help): w The partition table has been altered! 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

[root@protect ~]# pvresize /dev/sda2 Physical volume "/dev/sda2" changed 1 physical volume(s) resized or updated / 0 physical volume(s) not resized

8. Expand the logical volume: lvextend -l +100%FREE /dev/centos ba-

eraappl-v/root

Iroot@protect "1# lvextend -1 +100%FREE /dev/centos_ba-eraapp1-v/root
Size of logical volume centos_ba-eraapp1-v/root changed from <40.03 GiB (10247 extents) to <46.09 GiB (11799 extents).
Logical volume centos_ba-eraapp1-v/root successfully resized.</pre>

9. Expand the file system: xfs growfs /

[root@pr	otect ~]# xfs_growfs ∕		
meta-dat	a=/dev/mapper/centos_ba-	-eraapplv-r	oot isize=256 agcount=4, agsize=2623232 blks
		sectsz=512	attr=2, projid32bit=1
		crc=0	finobt=0 spinodes=0
data		bsize=4096	blocks=10492928, imaxpct=25
		sunit=0	swidth=0 blks
naming	=version 2	bsize=4096	ascii-ci=0 ftype=0
log	=internal	bsize=4096	blocks=5123, version=2
		sectsz=512	sunit=0 blks, lazy-count=1
realtime	=none	extsz=4096	blocks=0, rtextents=0
data blo	cks changed from 1049292	8 to 12082176	

10. You have now successfully expanded the harddisk of your ESET Protect Virtual Appliance:

[root0pro	froot@protect ~]# df -h							
Filesyste	em		Size	Used	Avail	Use%	Mounted on	
devtmpfs			908M	0	908M	0%	∕dev	
tmpfs			920M	0	920M	0%	/dev/shm	Before
tmpfs			920M	8.8M	911M	1%	∕run	
tmpfs			920M	0	920M	0%	/sys/fs/cgroup	
/dev/mapper/centos_baeraapplv-root			41 G	5.0G	36G	13%		
/dev/mapper/centos_baeraapplv-home		v-home	20G	33M	20G	1%	∕home	
/dev/sda1	l		497M	124M	374M	25%	∕boot	
tmpfs			184M	0	184M	0%	/run/user/0	
[root0pro	otect ~]# xfs_growfs ∕							
meta-data		-eraapp	lv-r	oot is	size=25	56	agcount=4, agsize=2	2623232 blks
		sectsz	=512	attr:	=2, pro	o jid32	2bit=1	
		crc=0		finobt=0 spinodes=0				
data		bsize=	4096	6 blocks=10492928, imaxpct=25				
		sunit=0		swidth=0 blks				
naming	=version 2 bsize=4096		ascii-ci=0 ftype=0					
log	=internal	bsize=4096		blocks=5123, version=2				
= sectsz		=512	sunit=0 blks, lazy-count=1					
realtime =none extsz:		extsz=	4096	blocks=0, rtextents=0				
data blocks changed from 10492928 to 12082176								
[root@protect ~]# df -h								
Filesyste	em		Size	Used	Ava i l	Use%	Mounted on	
devtmpfs			908M	0	908M	0%	∕dev	
tmpfs			920M	0	920M	0%	/dev/shm	
tmpfs			920M	8.8M	911M	1%	∕run	Aπer
tmpfs			920M	0	920M	0%	/sys/fs/cgroup	
/dev/mapper/centos_baeraapplv-root 47G			5.0G	4 2G	11%			
/dev/mapper/centos_baeraapp1v-home 20G			33M	20G	1%	∕home		
/dev/sda1			497M	124M	374M	25%	∕boot	
tmpfs			184M	0	184M	0%	/run/user/0	
[root0pro	otect ~]#							