Resizing a VMware Workstation VM partition

- 1. Make sure that the VM is shut down.
- 2. Right click the VM and select Settings...

Mon-commercial use only)

Player 👻 🕨 👻		
Home		
	tudente	
	Power On	
	Settings	
	Rename	
	Remove from the Library	
	Delete from Disk	
		Virtual Machine Name:
		UbuntuCS-Students

3. Select the hard disk you would like to extend



4. On the right-hand side, click the Expand button and in the popped up window make the provisioned size as large as you need it (in the following example we added 5GB of extra space).

Expand Disk Capacity	×
Specify the maximum size for the virtual disk:	
Maximum disk size (GB): 40.0	
Expand increases only the size of a virtual disk. Sizes of partitions and file systems are not affected.	
Expand Cancel Help	

5. Click Expand to start the process.

	Cancel
Expanding virtual disk	
VMware Workstation 16 Player	

6. When the process is over, please click OK



- 7. Close the popped up window (click the OK button).
- 8. Power on the VM
- 9. Log in as csdeptucy
- 10. Connect to the command line of the Linux VM via the console or putty session
- 11. Install GParted. GParted is a free partition editor for graphically managing your disk partitions. Run the following command: sudo apt install gparted
- 12. Run the <code>gparted</code> command to initiate the graphical user interface (GUI) and follow the screenshots.

				/dev/sda	a - GParted			😣
GParted	Edit Vie	ew Device P	artition	Help				
			4	-			🕝 /dev/sda (4	0.00 GiB) 🔻
		/dev/sda5 19.50 GiB				unallo 20.00	ocated GiB	
Partition		File System	Mount	Point	Size	Used	Unused	Flags
/dev/sda	a1 🔍	fat32	/boot/e	fi	512.00 MiB	1.02 MiB	510.98 MiB	boot
	a2 🔍	extended			19.50 GiB		_	
/dev/	sda5 🔍	ext4	/		19.50 GiB	17.29 GiB	2.20 GiB	
unattoca	ited				20.00 GIB			
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0 operatio	ons pendi	ng						
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GParted		w Device P		Help			🕝 /dev/sda (4	0.00 GiB) 🔻
		/dev/sda5			1	unall	ocated	
		19.50 GiB				20.00	GiB	
Partition		File System	Mount	Point	Size	Used	Unused	Flags
/dev/sda	1 🔍	fat32	/boot/e	fi	512.00 MiB	1.02 MiB	510.98 MiB	boot
✓ /dev/sda	2 🔍	extended			19.50 GiB	-		
/dev	A New	I	nsert		19.50 GiB	17.29 GiB	2.20 GiB	
unallo	Delete		elece		20.00 GiB			
	Resize/	Move	tal.c					
								1
	E Format	to			Select /de	ev/sda2 and	then right	
		acryption	P		click on it			
	Upmou	ot						J
_	Name	Partition						
	Manage	Flags						
0 operal	Check							
	Label F	ile Svstem						

New UUID

Resize/Move /	/dev/sda2 🛛 😣
Minimum size: 19966 MiB	Maximum size: 40446 MiB
Free space preceding (MiB):	Image: Constraint of the second se
New size (MiB):	19966-+towards the right-handside as instructed by the
Free space following (MiB):	20481 - + red arrow so as to resize /dev/sda2 and use all the
Align to:	MiB
	Cancel Resize/Move
Resize/Move /	/dev/sda2 😣
4	
Minimum size: 19966 MiB	Maximum size: 40446 MiB
Free space preceding (MiB):	ol – +
New size (MiB):	40446 – +
Free space following (MiB):	0 - +
Align to:	мів 👻
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			/de	v/sda - GParted			_ 🗆 🙁
GParted Edi	t Vi	ew Device Pa	artition Help			-	
📑 🚫 🔺 🖹 👘 🔶 🖌 🐻 /dev/sda (40.00 GiB) 🕇							
/dev/sda5 unallocated 19.50 GiB 20.00 GiB							
Partition		File System	Mount Point	Size	Used	Unused	Flags
/dev/sda1		fat32	/boot/efi	512.00 MiB	1.02 MiB	510.98 MiB	boot
✓ /dev/sda2	9	extended		39.50 GiB			
/dev/sda	5 🔍	ext4	/	19.50 GiB	17.29 GiB	2.20 GiB	
unallocat	ed	unallocated		20.00 GiB	-	_	
Now resize /dev/sda5 (which is inside /dev/sda2) to all the available 20 GB that were allocated by /dev/sda2.						12) 3	
1 operation pending							

Resize /de	ev/sda5 🛛 🛛	•
Minimum size: 19965 MiB	Maximum size: 40446 MiB	
Free space preceding (MiB):	0 - +	
New size (MiB):	40446 – +	
Free space following (MiB):	0 – +	
Align to:	MiB 👻	
	Cancel 🔊 Resize	

		/de	v/sda - GParted			- 🛛 😣
GParted Edit Vi	ew Device P	artition Help				
🔒 🔕 🚽		♠ 🖌			🕝 /dev/sda (4	0.00 GiB) 🔻
			/dev/sda5 39.50 GiB			
Partition	File System	Mount Point	Size	Used	Unused	Flags
/dev/sda1 🔍	fat32	/boot/efi	512.00 MiB	1.02 MiB	510.98 MiB	boot
🔻 /dev/sda2 🛛 🔍	extended		39.50 GiB	-	-	
/dev/sda5 🔍	ext4	/	39.50 GiB	17.29 GiB	22.20 GiB	
unallocated	unallocated		1.00 MiB			
 Grow /dev/sda2 f Grow /dev/sda5 f 2 operations pend 	From 19.50 GiB t From 19.50 GiB t	o 39.50 GiB o 39.50 GiB	Both resize o the process, shown in the	perations are we need to Ap last figure be	pending. To fin oply All Operatio low.	alize ons as
	-					
		/de	v/sda - GParted			- 🗆 😣
GParted Edit Vi	ew Device Pa	artition Help				
🔒 🔕 🔺					🕜 /dev/sda (4	0.00 GiB) 🔻
Apply All Operations						
Partition	File System	Mount Point	Size	Used	Unused	Flags
/dev/sda1 🔍	fat32	/boot/efi	512.00 MiB	1.02 MiB	510.98 MiB	boot
🝷 /dev/sda2 🛛 🔍	extended		39.50 GiB			
/dev/sda5 🔍	ext4	/	39.50 GiB	17.29 GiB	22.20 GiB	
unallocated	unallocated		1.00 MiB			

» Grow /dev/sda2 from 19.50 GiB to 39.50 GiB

▶ Grow /dev/sda5 from 19.50 GiB to 39.50 GiB

		/de	v/sda - GParted			- 🗆 😣
GParted Edit Vi	ew Device P	artition Help				
]		✓			🕝 /dev/sda (4	0.00 GiB) 🔻
			/dev/sda5 <mark>3</mark> 9.50 GiB			
Partition	File System	Mount Point	Size	Used	Unused	Flags
/dev/sda1 🔍	fat32	/boot/efi	512.00 MiB	1.02 MiB	510.98 MiB	boot
🔻 /dev/sda2 🛛 🔍	extended		39.50 GiB	-	-	
/dev/sda5 🔍	ext4	1	39.50 GiB	18.23 GiB	21.27 GiB	
unallocated	unallocated		1.00 MiB			

0 operations pending

13. Close the GParted GUI.

14. You can now run on terminal again the df $\,$ –h command to verify that you have more space