UTM can be used to emulate x86\_64 based OS on the M1 Apple Silicon Mac. Download from: <u>https://mac.getutm.app/</u>

Here are the steps to install an ubuntu VM on UTM:

1. Start a new VM instance with "Create a New Virtual Machine"



2. Select the 'Emulate' option when using the M1 Apple Silicon Mac



3. Select 'Linux' OS



4. Select the ubuntu ISO image downloaded to the mac

Linux	
Boot Image Type	
<ul> <li>Boot from kernel image</li> <li>Ø Ubuntu Install Guide</li> </ul>	
Boot ISO Image	
Path	Clear Browse
Cancel	Go Back Continue

5. Update the 'Memory' and 'CPU Cores' as shown below.

Hardware		
Architecture		
x86_64	٢	
System		
Standard PC (Q35 + ICH9, 2009) (alias of pc-q35-7.2) (q35)	$\Diamond$	
Memory 8192	МВ	
CPU Cores 🗘 4		
Cancel Go Back Contin	ue	

6. Update 'Storage' size to 40GB

Storage				
Size				
Specify the size of the drive where data wi stored into.	ll be	40 GB		
Cancel	Go Back	Continue		

7. Leave the rest of the prompts with the default selection and continue with the ubuntu installation

( <sup>1</sup> )    ⊲ Linux 2	1	R	Ģ	Ø	<b>—9</b>	C
GNU GRUB version 2.04						
*Install Ubuntu Server Boot from next volume UEFI Firmware Settings Boot and Install with the HWE kernel	I					
Use the ▲ and ▼ keys to select which entry is highlighted Press enter to boot the selected OS, `e' to edit the comm before booting or `c' for a command-line. ESC to return p menu. The bighted entry will be executed automatically in 3s	ands revi	ous				
The highlighted entry will be executed automatically in JS.						

- 8. The installation process is exactly the same as the one described in "Expedition Installation Guide". Once these steps are complete, select the "Reboot Now" option.
- 9. During the reboot process, a message prompts for removing the installation medium.

••• U II < Linux 2	涂	R	¢	۲	3
(EDITED) Failed unmounting /cdrom. Please remove the installation medium, then press ENTER:					
(FALLED) Failed unmounting /cdrom. (FALLED) Failed unmounting /cdrom.					
[PALLED] Failed unmounting /cdrom.					
[railed] Failed unmounting /cdrom.					
[FAILED] Failed unmounting /cdrom.					
[FAILED] Failed unmounting /cdrom.					
[FAILED] Failed unmounting /cdrom.					
[PHIE0] Failed Unincurring (coronal					
CATED) Failed unmounting /cdrom					
[FALED] Failed unmounting /cdrom.					
(FAILED) Failed unmounting /cdrom.					
[FAILED] Failed unmounting /cdrom.					
[FAILED] Failed unmounting /cdrom.					
[PHILEO] Failed Unincurring (coronal					

10. Before pressing ENTER in the above window, remove the installation medium by clicking the 'Drive image options' in the top-right option bar of the UTM window as highlighted.

Click 'CD/DVD (ISO) Image' and select eject.

Press Enter in the VM to continue booting ubuntu.



11. Once logged in, continue with the steps to install Expedition Application