



Technical Documentation

Creating CF Cards Using a Virtual Machine

Product series: mc²

Version: 1.1

Revision 10.12.2012

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1 Introduction

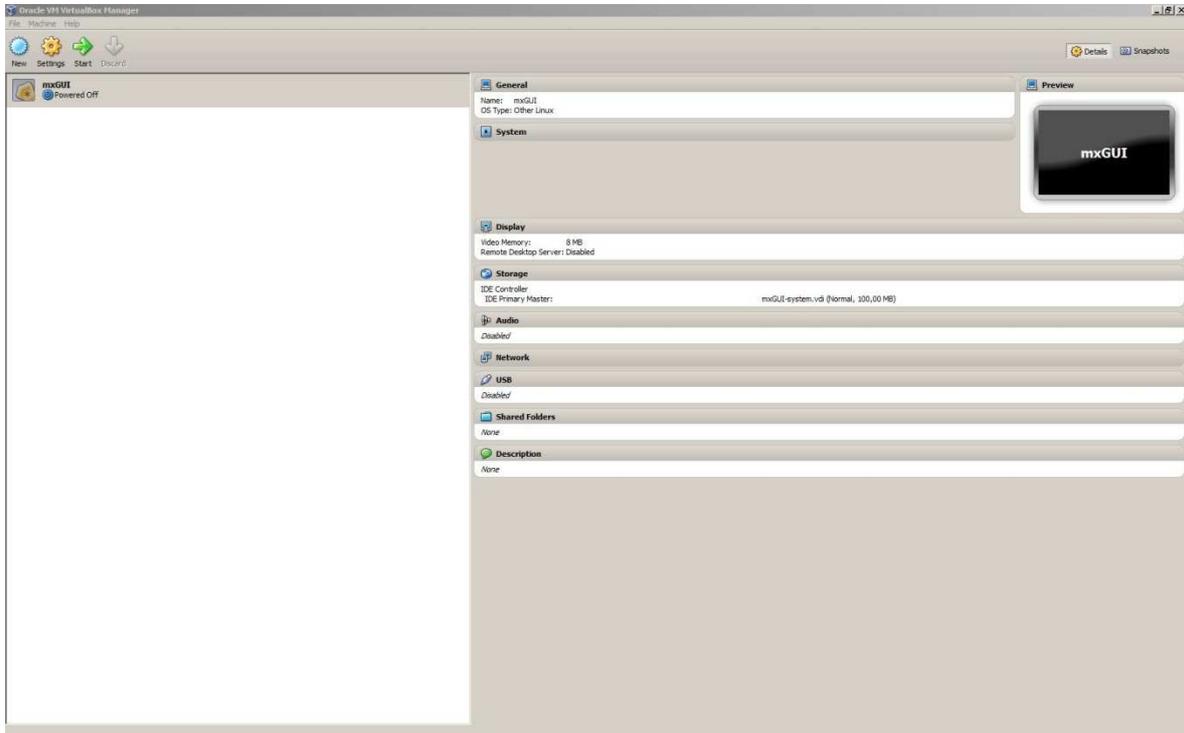
The following instructions describe how to create backup CF cards for the mc² series using the virtual machine on your computer. This method avoids having to create a CD from an ISO file and then reboot your computer using the ISO boot CD.

To proceed, you will need the following:

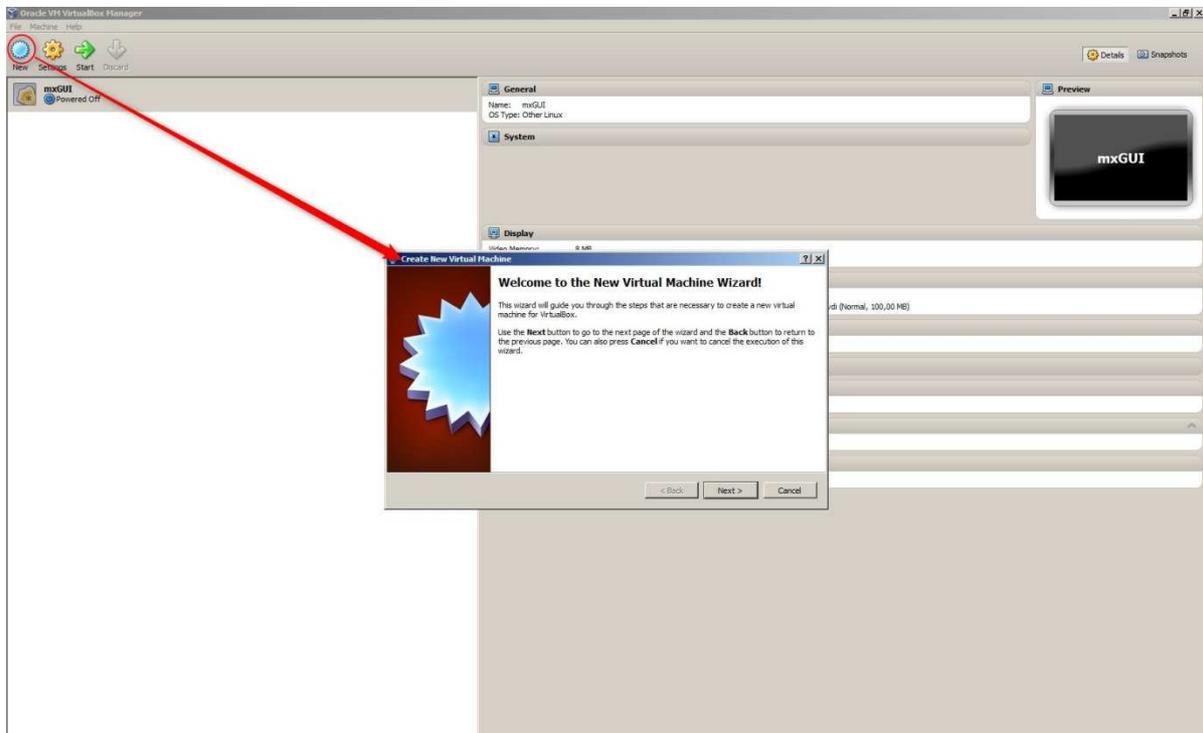
- **A computer running the Oracle VM VirtualBox** – this programme is installed automatically when you install mxGUI.
- **CF card writer/reader** – such as the SanDisk.
- **The correct ISO file** – for your system software (e.g. Lawo-boot-cd_V4-18-0-0.iso).

2 Creating and Booting the Virtual Machine

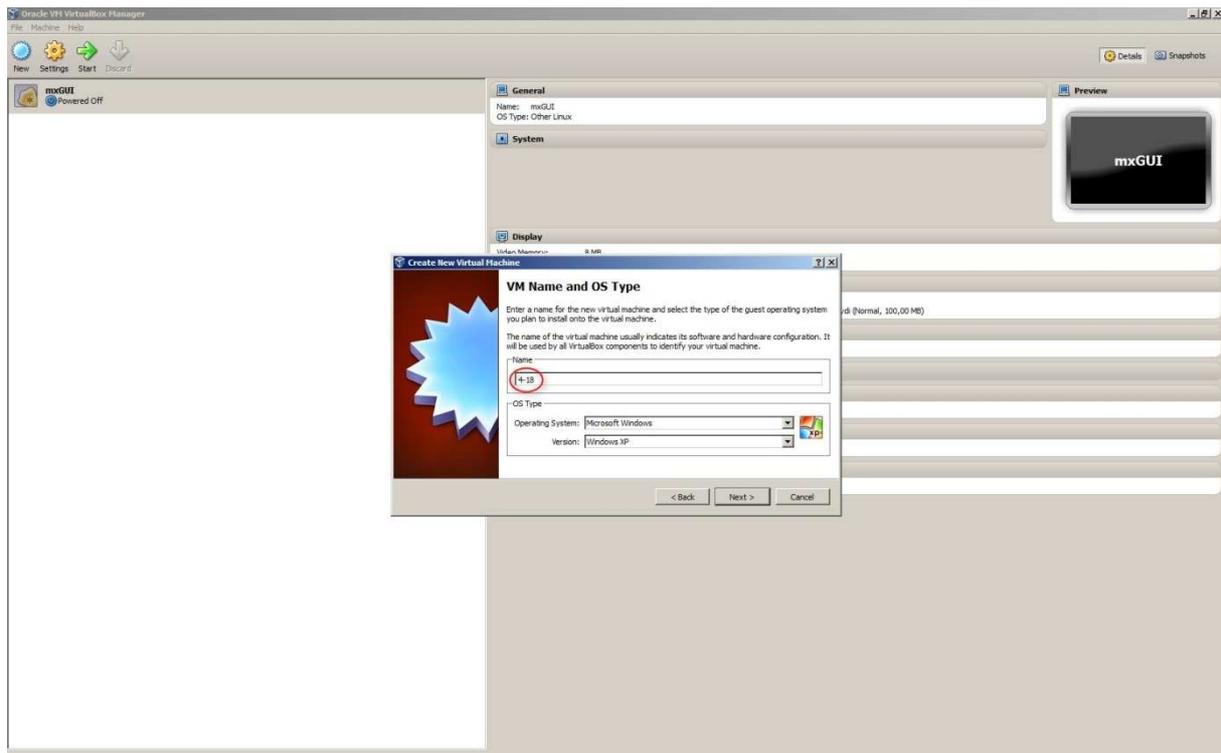
1. Start the Oracle VM VirtualBox application:



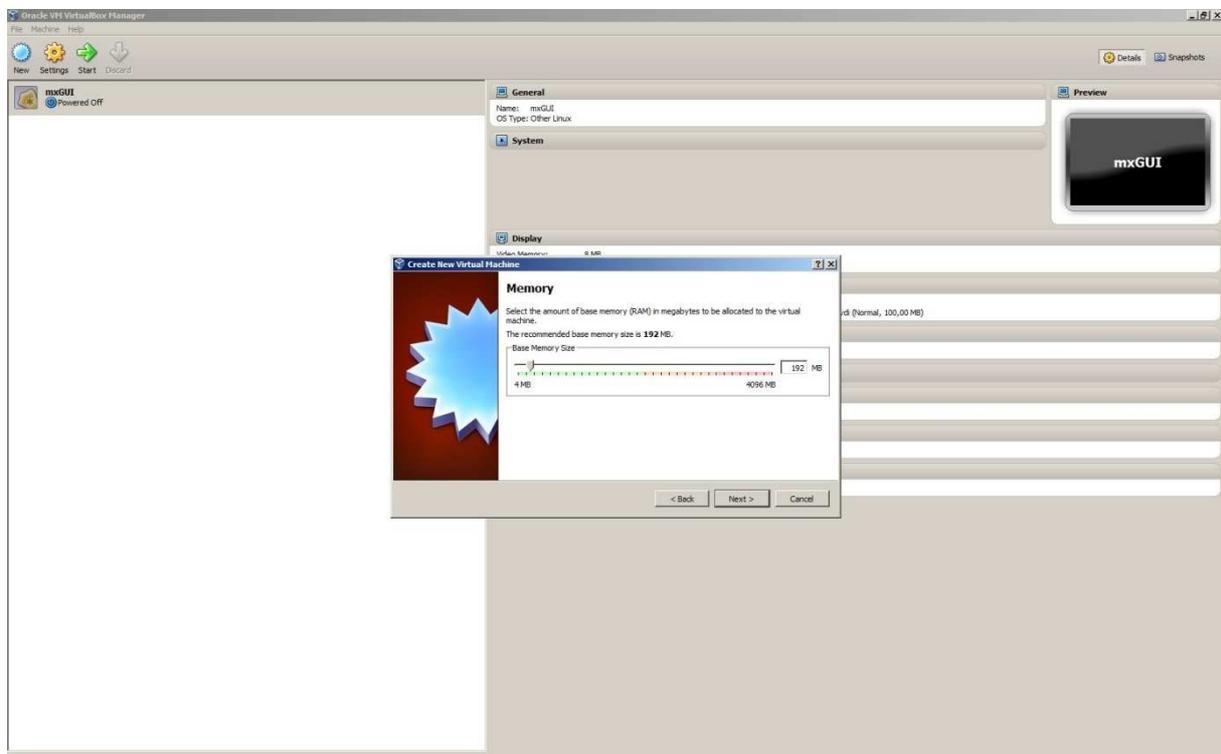
2. Click on **New** to create a new virtual machine, and then select **Next**:



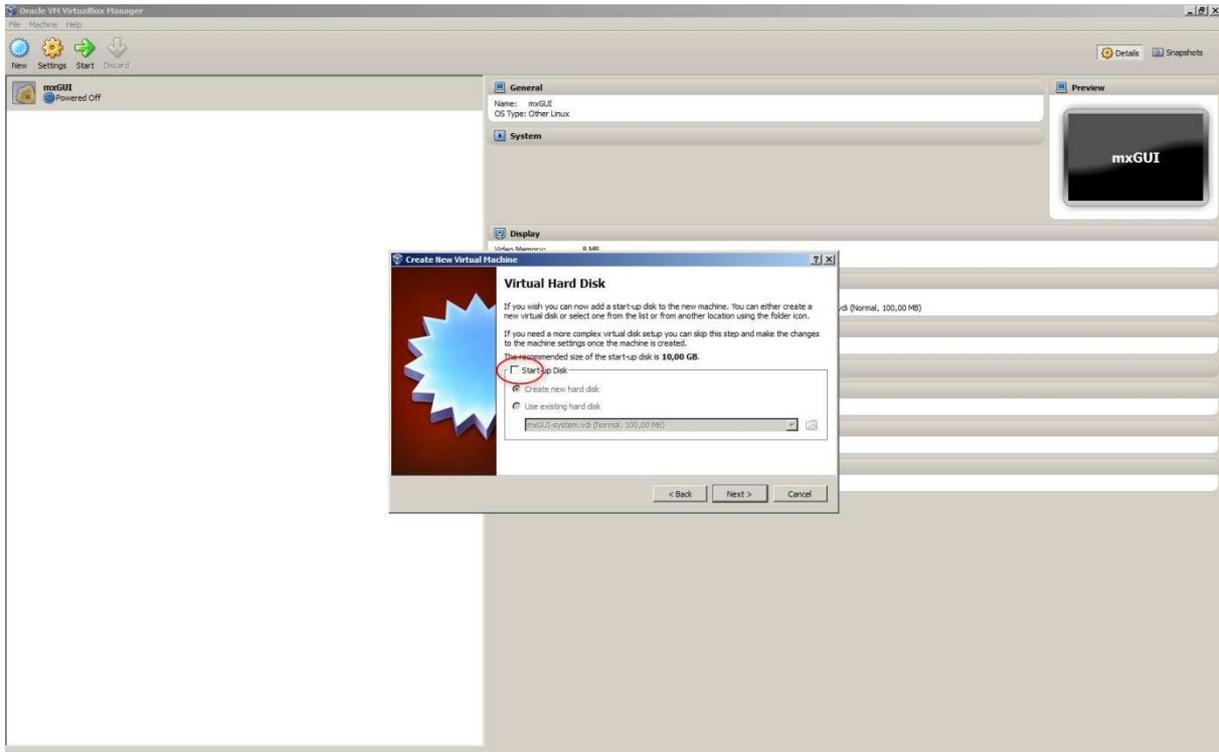
3. Enter a name for the virtual machine – in our example, **4.18** – and select **Next**:



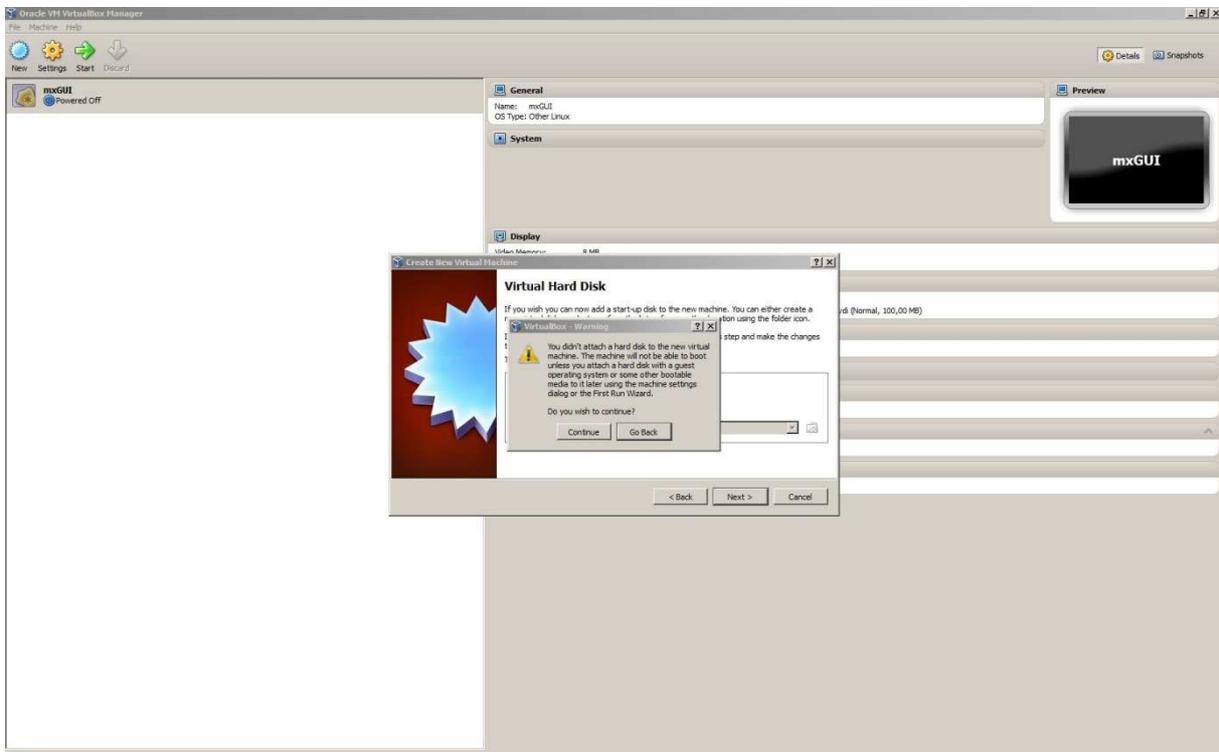
4. Set the Base Memory to the recommended size, and select **Next**:



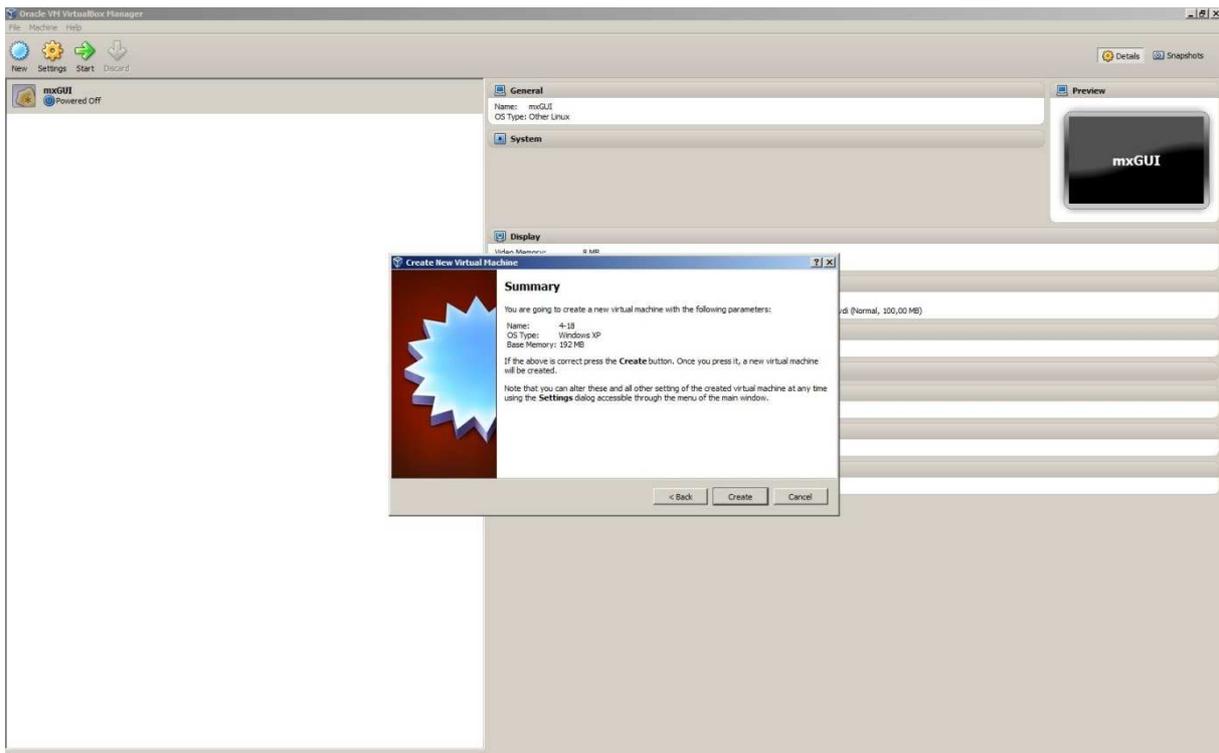
5. Remove the tick beside **Start-up Disk**, and select **Next**:



6. When prompted, override the Warning by clicking on **Continue**:

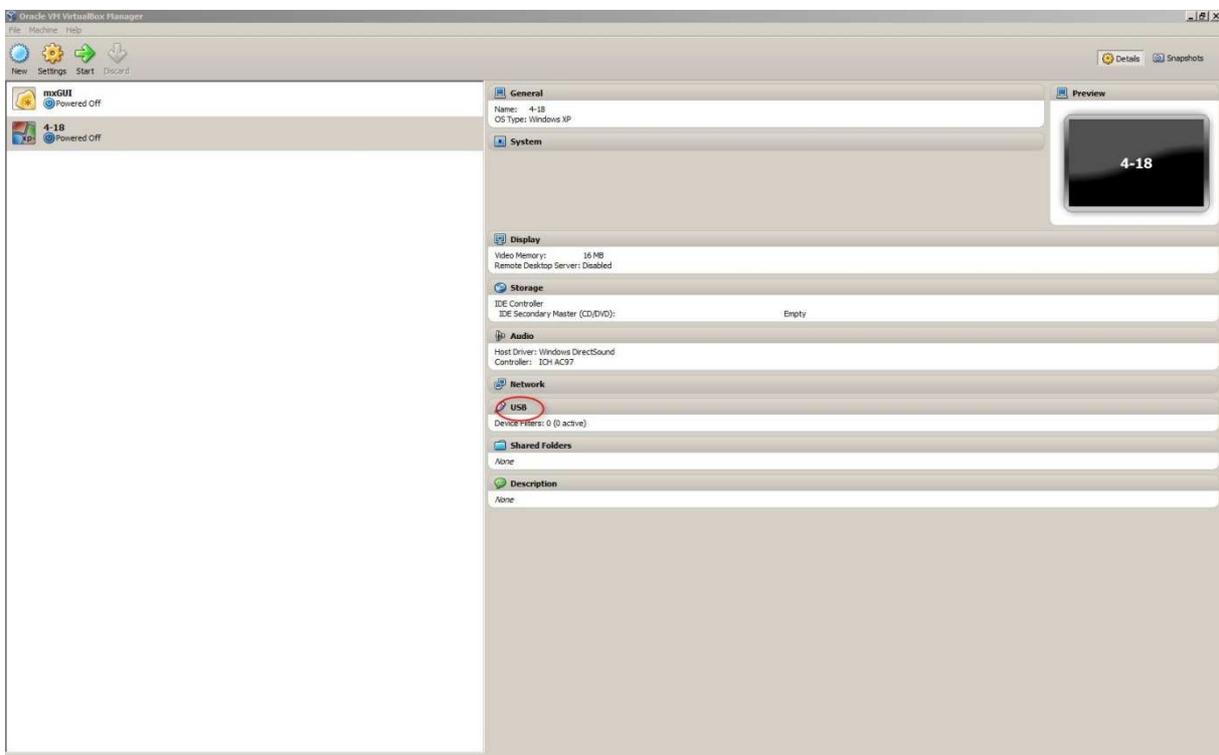


7. Review the Summary and click **Create**:

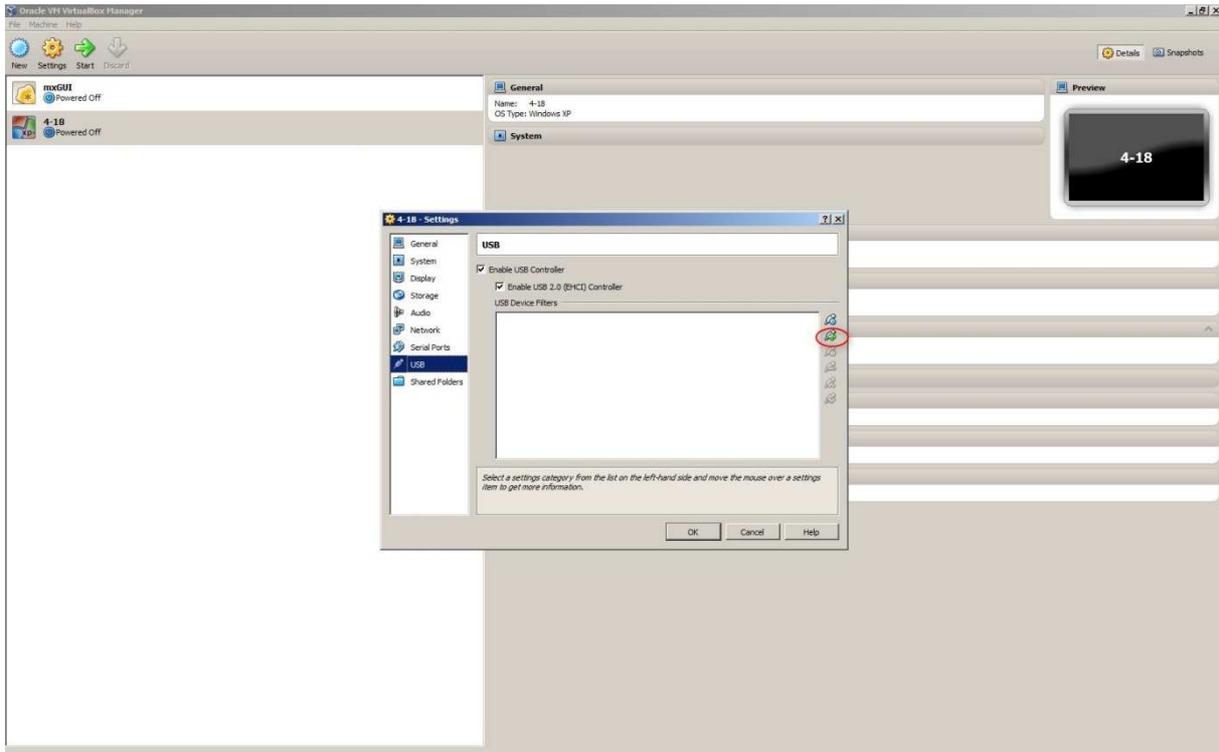


The virtual machine is added to the main menu.

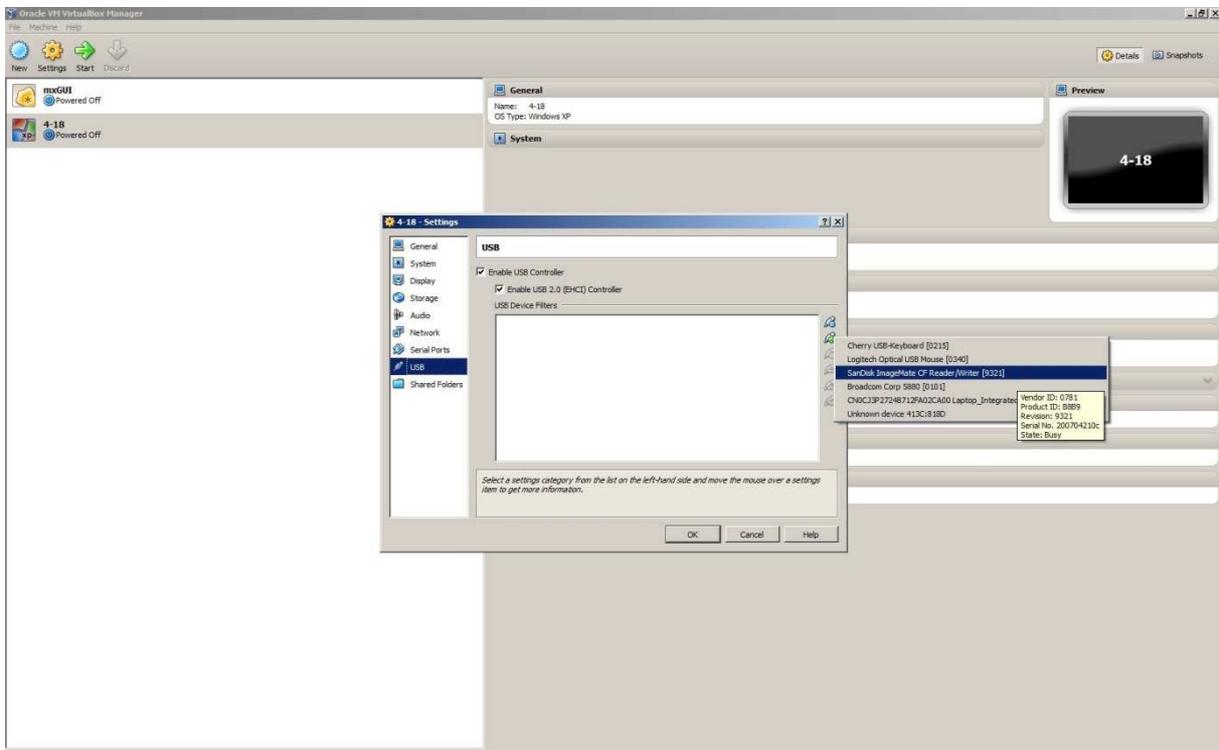
8. With the new virtual machine selected, scroll down the list of **Details** and click on **USB** to open its Settings:



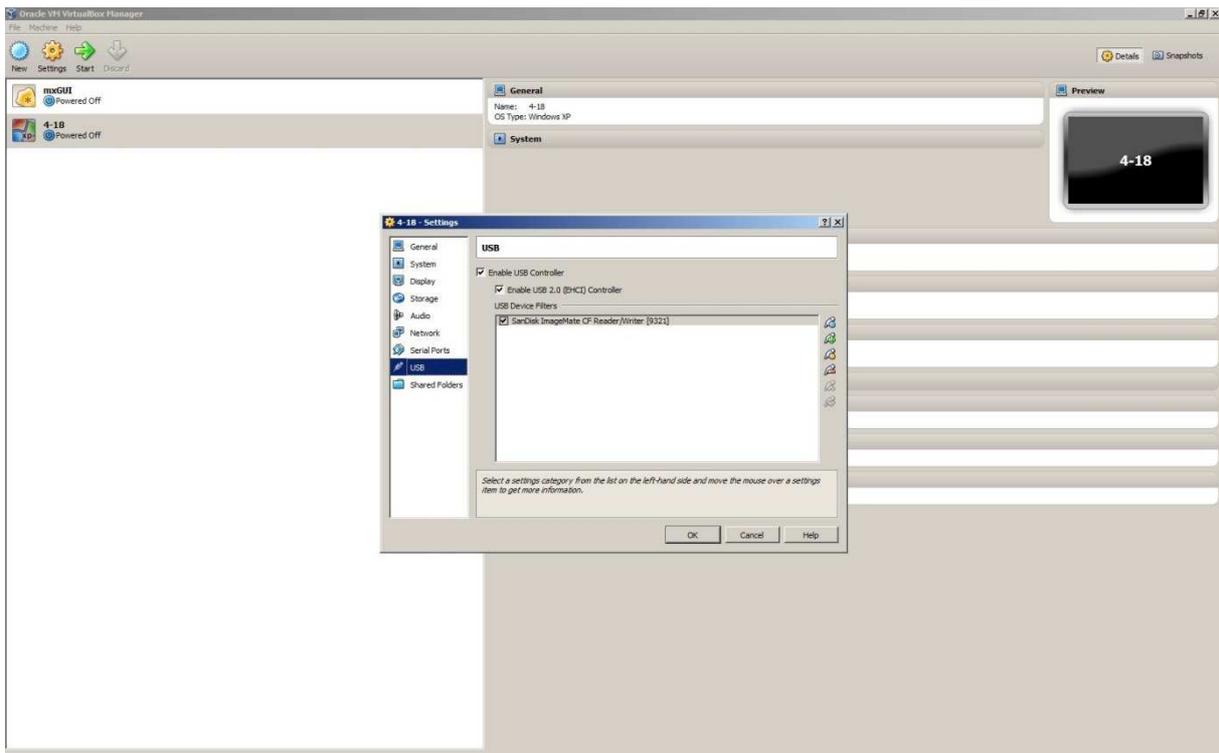
9. Select the “+” icon on the right of the window to add a device:



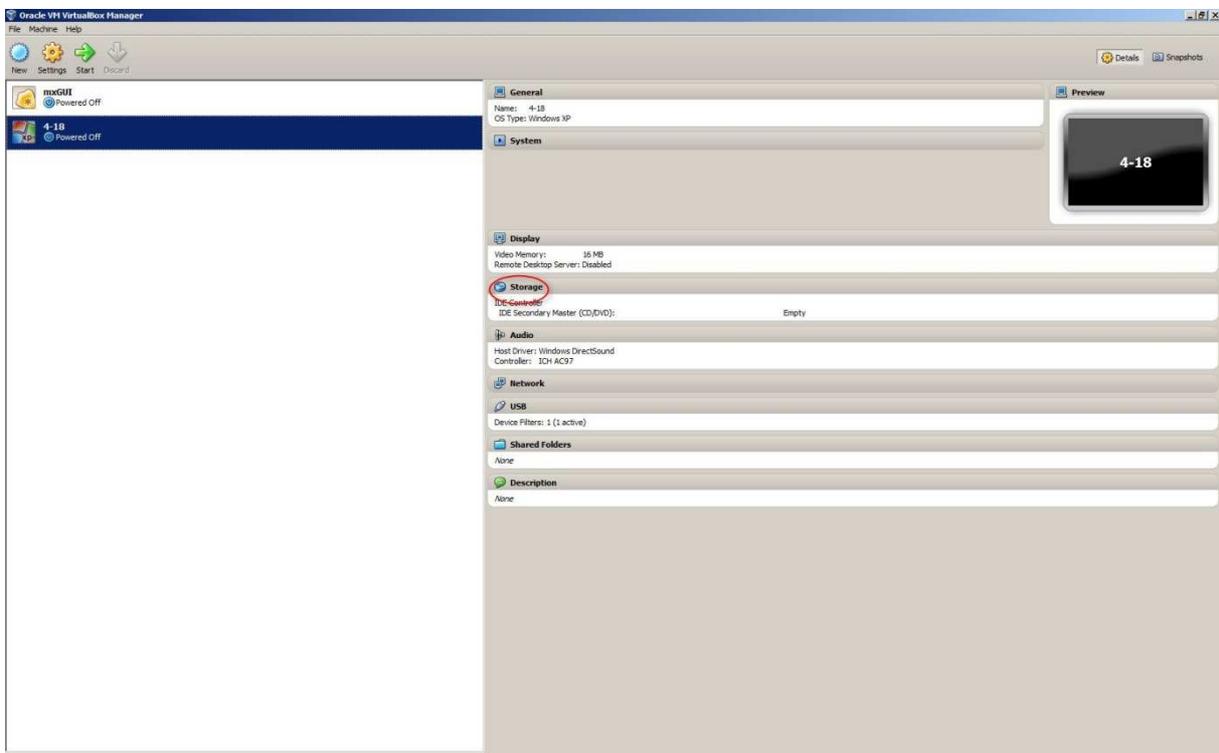
10. Select your CF card writer (e.g. **SanDisk**) from the drop-down options:



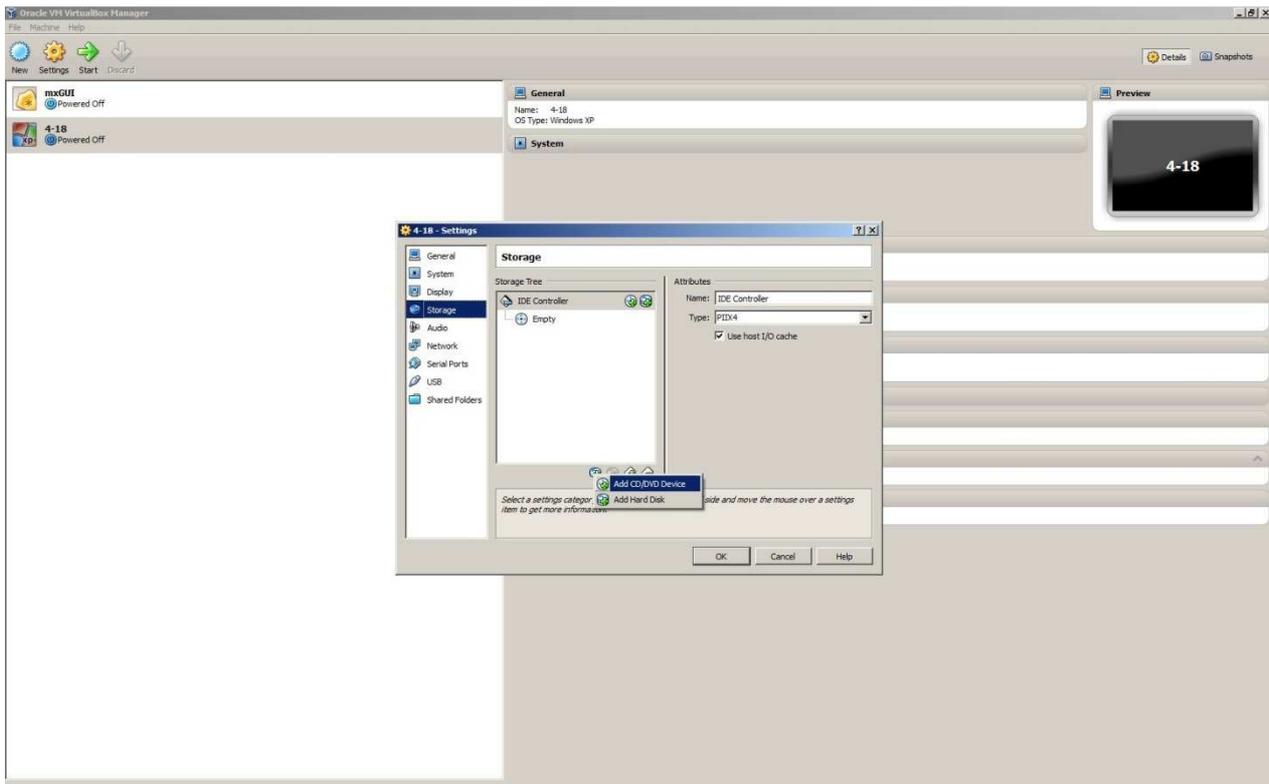
11. The CF card writer is added to the USB Device Filters. Click on **OK** to return to the main menu:



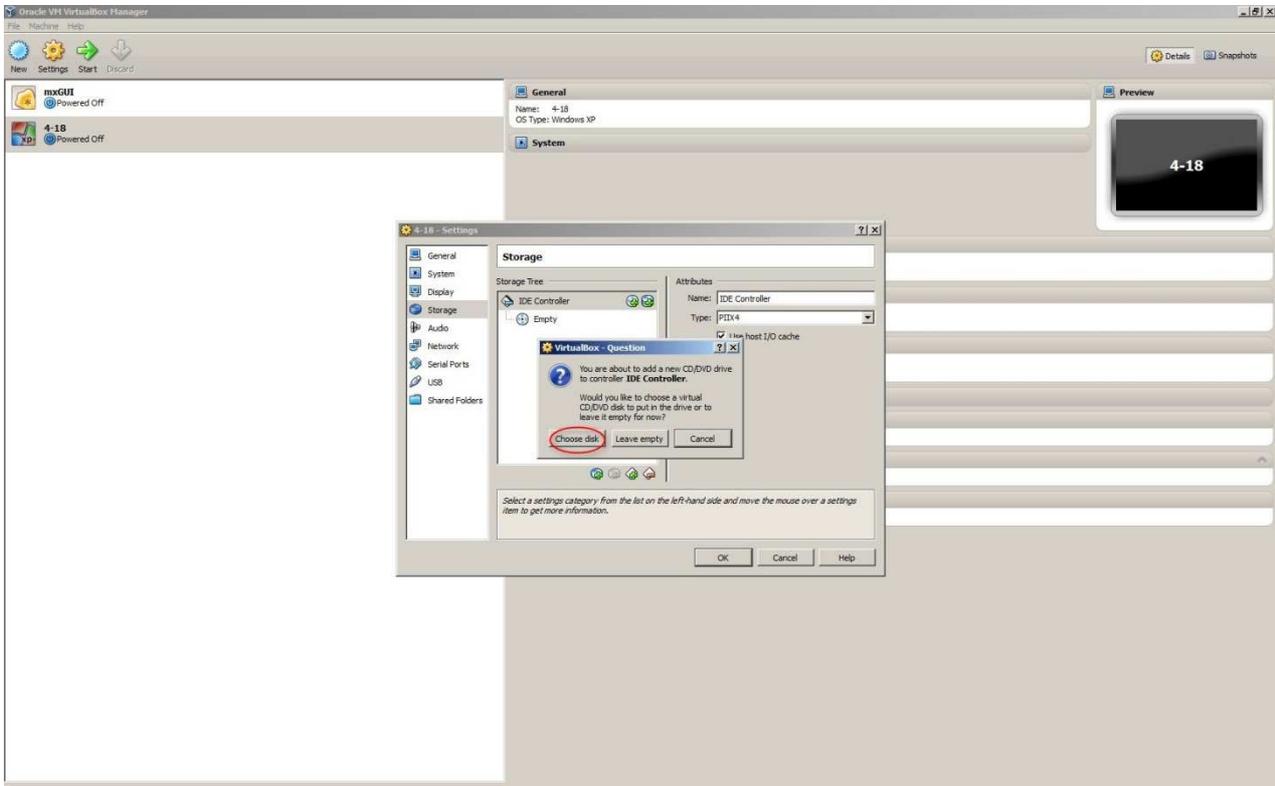
12. Now click on **Storage**:



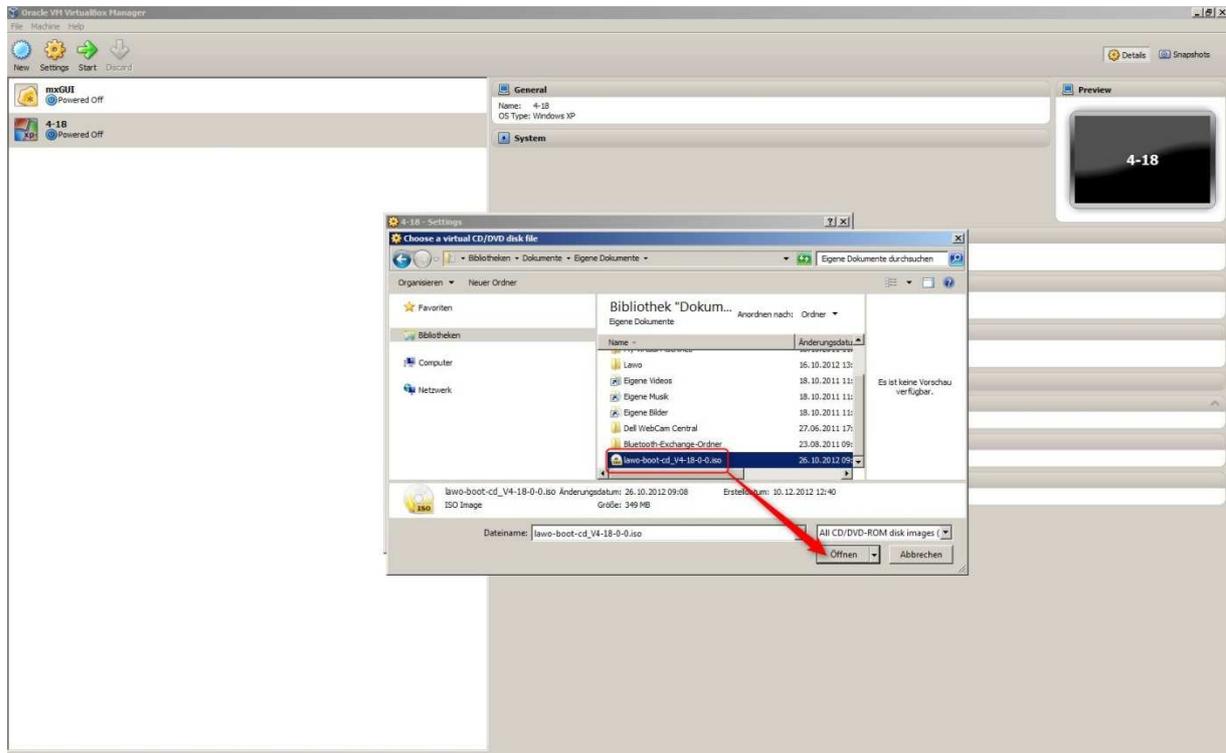
13. ADD CD/DVD DEVICE



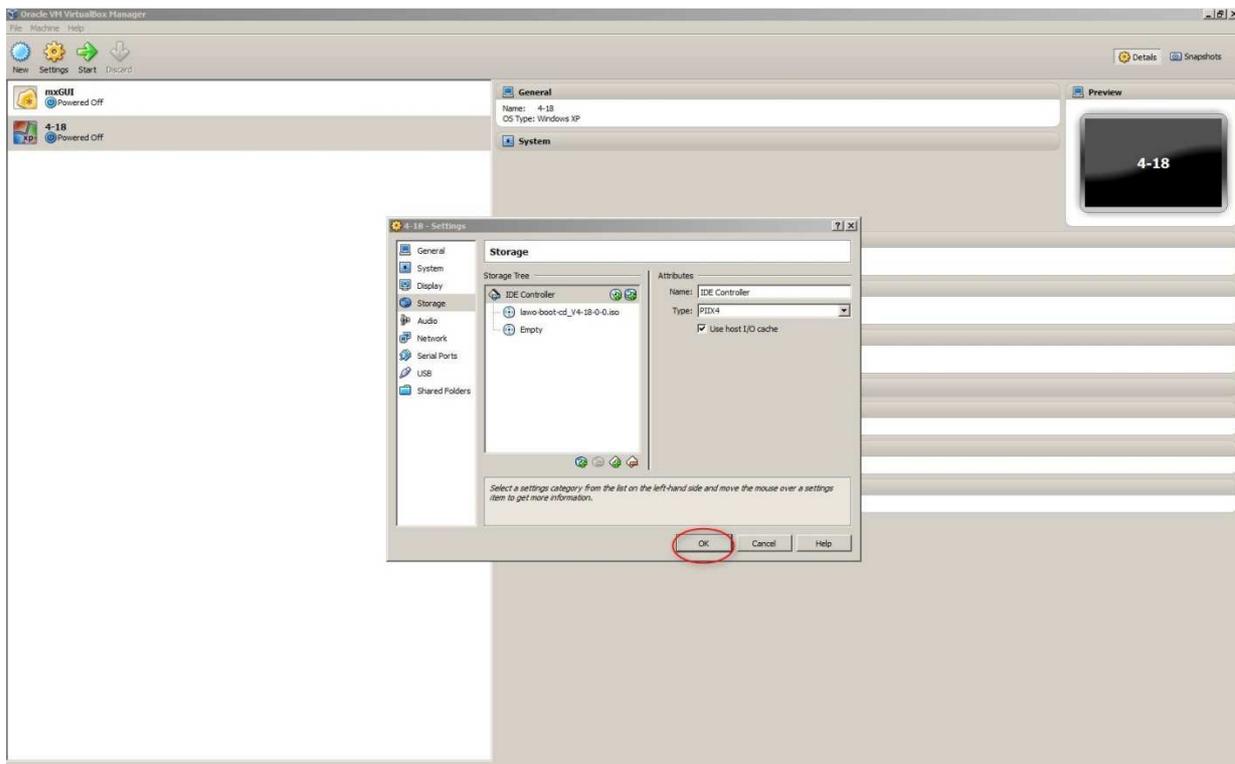
14. CHOOSE DISK



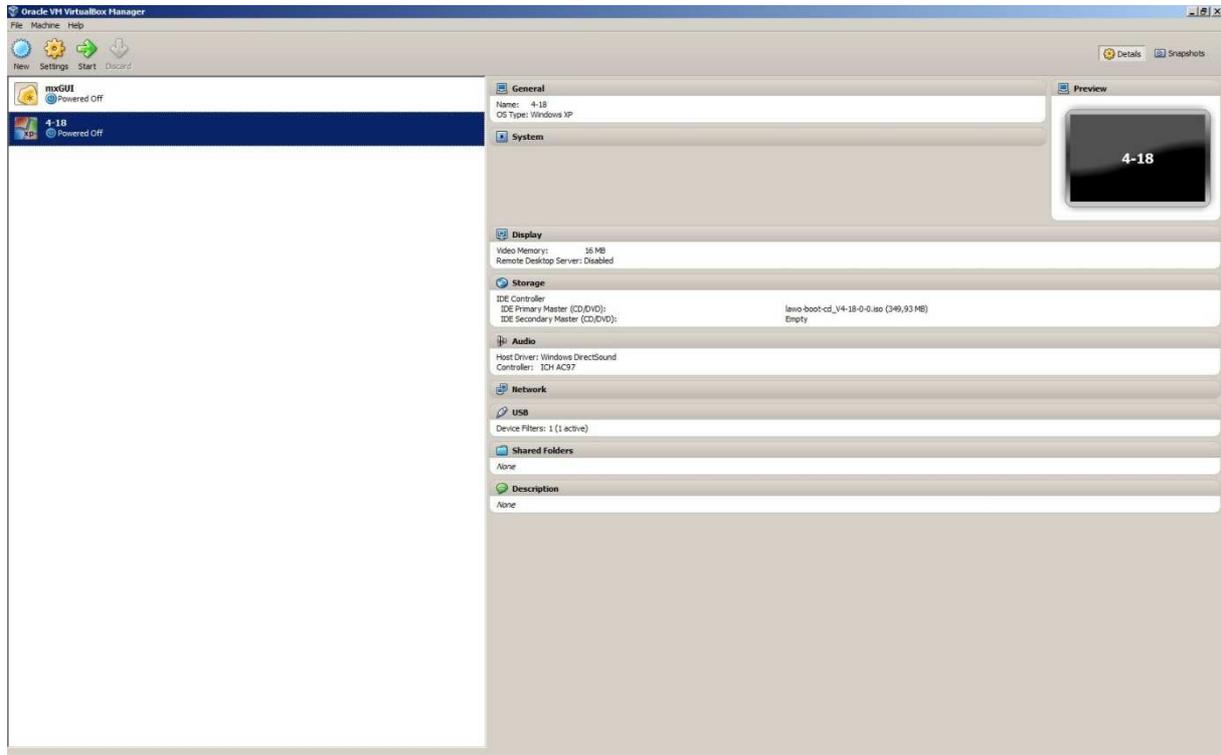
15. Select and choose the ISO file for your system software (e.g. **Lawo-boot- cd_V4-18-0-0.iso**), which is part of the LAWO software release:



16. Click **OK**



You should now see the CD / DVD-ROM ISO file and the USB device listed within the main menu:

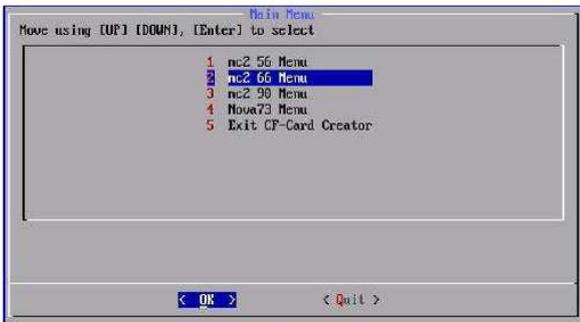


17. Click on **Start** to start the virtual machine:

The control system boots within the VirtualBox window.

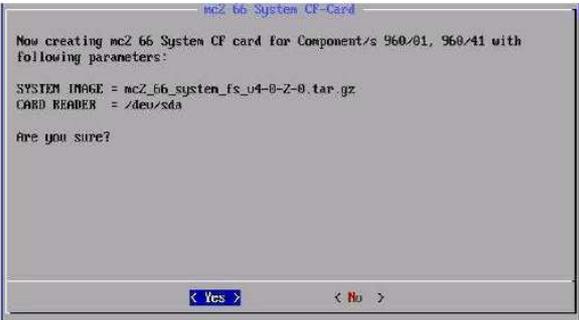
3 Creating the CF Cards

When you start the virtual machine, use the following menus to create the new system CF-card (Please use the original Lawo CF-cards):

1. 

The screenshot shows a terminal window titled "Main Menu". The prompt is "Move using [UP] [DOWN], [Enter] to select". The menu items are: 1 mc2 56 Menu, 2 mc2 66 Menu (highlighted), 3 mc2 90 Menu, 4 Nova73 Menu, and 5 Exit CF-Card Creator. At the bottom, there are buttons for "< OK >" and "< Quit >".
2. 

The screenshot shows a terminal window titled "mc2 66 Main Menu". The prompt is "Move using [UP] [DOWN], [Enter] to select". The menu items are: 1 mc2 66 Menu (highlighted), 2 mc2 66 Bayserver Menu, 3 mc2 66 nk2 Menu, and 4 Return to Main Menu. At the bottom, there are buttons for "< OK >" and "< Main Menu >".
3. 

The screenshot shows a terminal window titled "mc2 66 Classic CF-Card Menu". The prompt is "Move using [UP] [DOWN], [Enter] to select". The menu items are: 1 mc2 66 System CF-Card (960/01, 960/41) (highlighted), 2 mc2 66 Data CF-Card (960/01, 960/41, 960/43), 3 HD Core Teleporter CF-Card (980/31, 980/32), and 4 Return to mc2 66 Menu. At the bottom, there are buttons for "< OK >" and "< mc2 66 Menu >".
4. 

The screenshot shows a terminal window titled "mc2 66 System CF-Card". The text reads: "Now creating mc2 66 System CF card for Component/s 960/01, 960/41 with following parameters: SYSTEM IMAGE = mc2_66_system_fs_u4-0-2-0.tar.gz, CARD READER = /dev/sda. Are you sure?". At the bottom, there are buttons for "< Yes >" and "< No >".

The backup card will now be created; the system reports back its progress. The text will read "CF Card now ready – it can be removed safely" when the operation is complete.

For details on how to replace a flashcard, please refer to your Technical Manual.

For further assistance, please contact the Lawo Service Department at service@lawo.de

