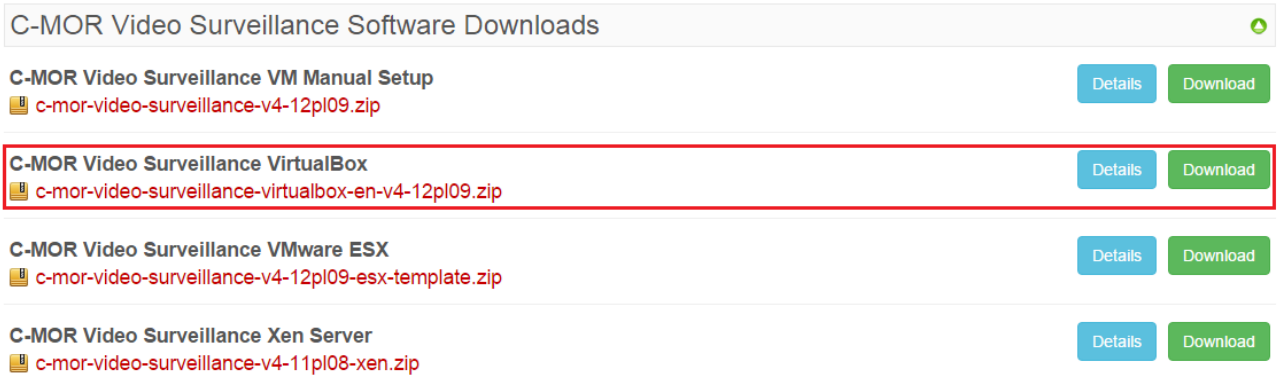
Guideline for the installation of the free C-MOR Video Surveillance Virtual Machine on VirtualBox

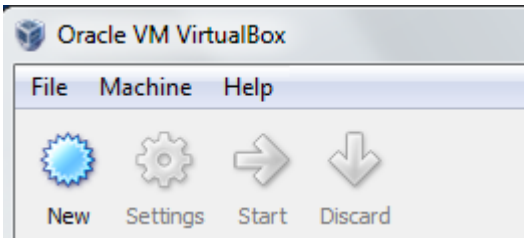
This guideline illustrates the installation of the C-MOR Video Surveillance Virtual Machine with the free Virtualization Software VirtualBox from Oracle. The free VM version of C-MOR is here available: http://www.c-mor.com/video-surveillance-download.



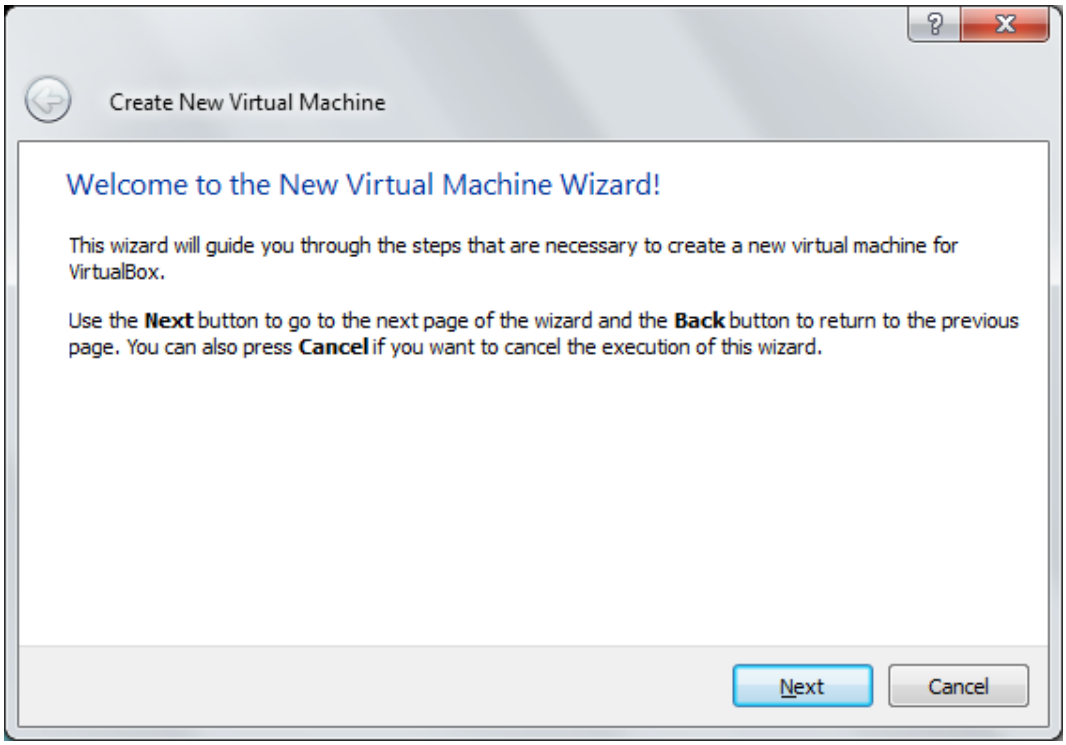
The first step of the installation is the download of Oracle's VirtualBox. This package is freely available under http://www.virtualbox.org.

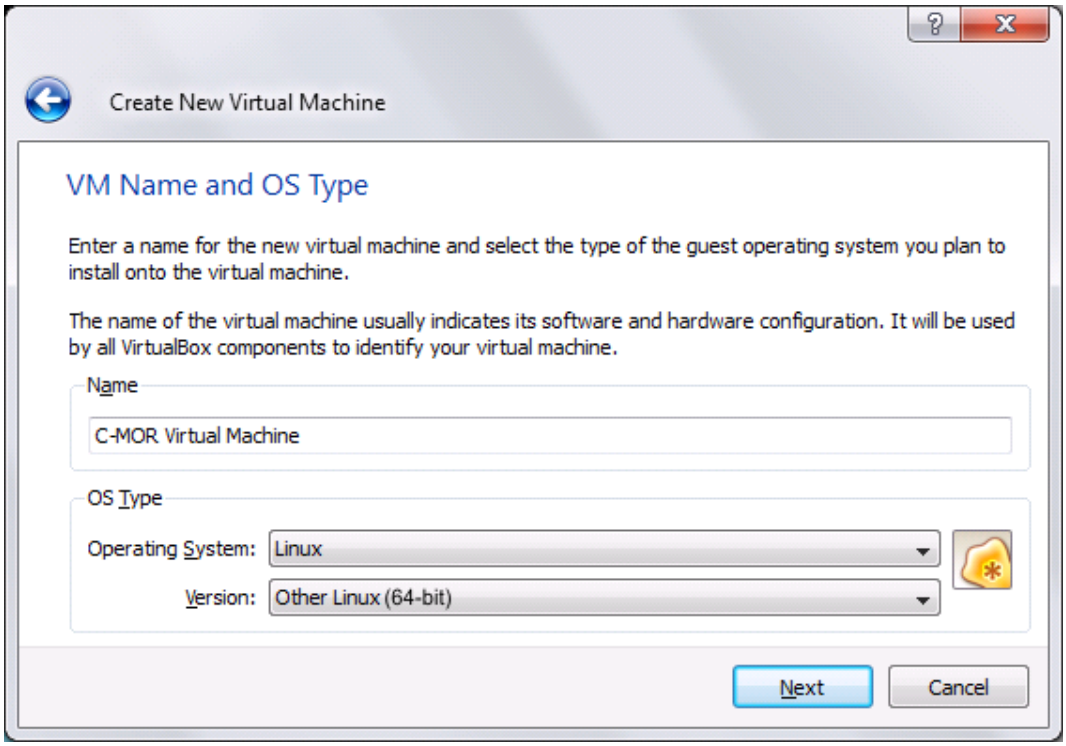
If another virtualization software like VMware, Xen, HyperV or other is already in use then this can be used instead, if the installation process is known. VirtualBox is available for Windows and for Linux.

Once VirtualBox is installed it will start by clicking on the program icon. Click on "New" in the VirtualBox to start the installation of the new C-MOR VM.

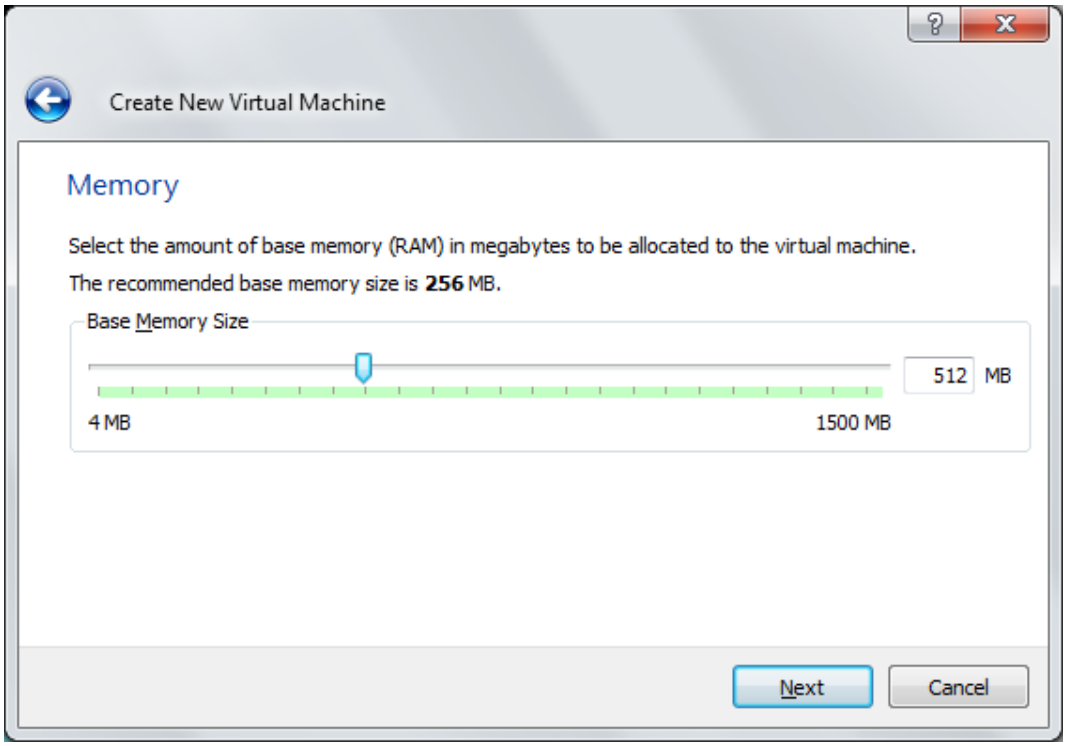


VirtualBox collects some information about the installation now:

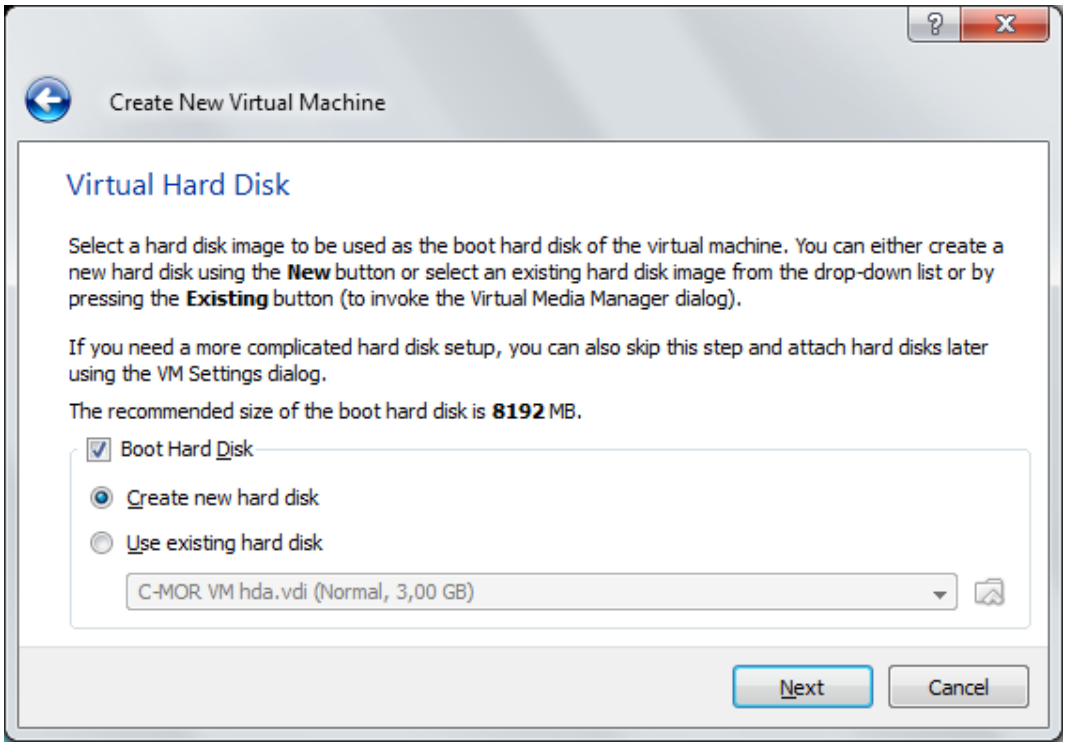

Create New Virtual Machine
Welcome to the New Virtual Machine Wizard!
This wizard will guide you through the steps that are necessary to create a new virtual machine for VirtualBox.
Use the Next button to go to the next page of the wizard and the Back button to return to the previous page. You can also press Cancel if you want to cancel the execution of this wizard.
Next
Cancel

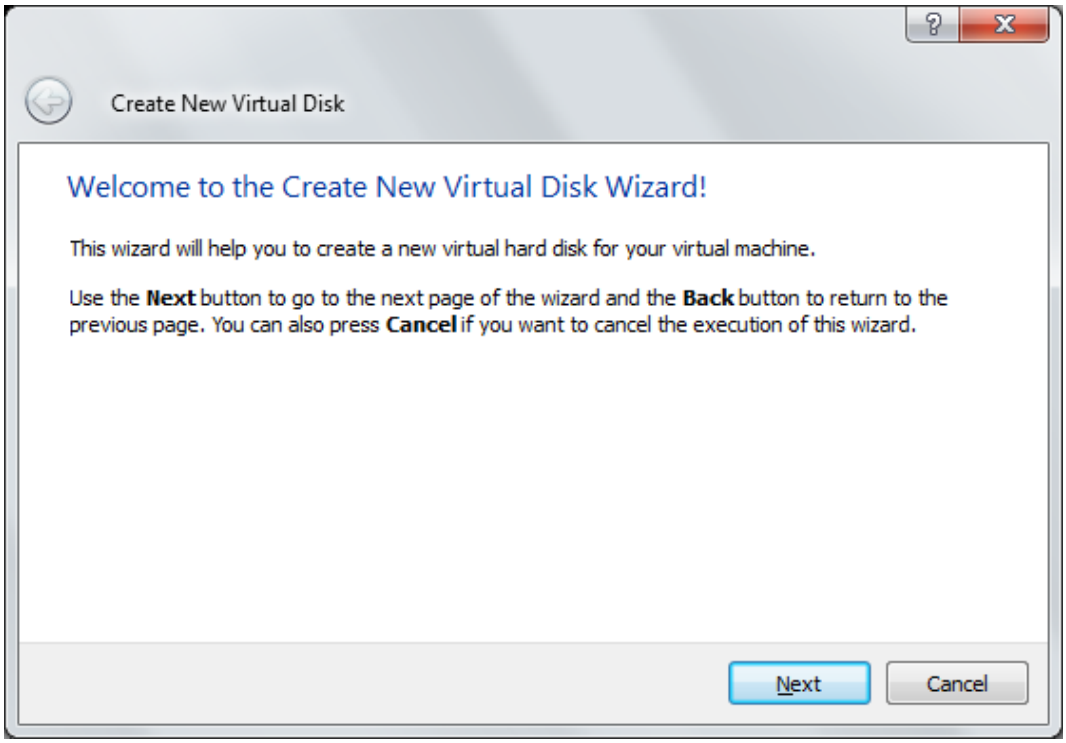

Create New Virtual Machine
VM Name and OS Type
Enter a name for the new virtual machine and select the type of the guest operating system you plan to install onto the virtual machine.
The name of the virtual machine usually indicates its software and hardware configuration. It will be used by all VirtualBox components to identify your virtual machine.
Name
C-MOR Virtual Machine
OS Type
Operating System: Linux
Version: Other Linux (64-bit)
Next
Cancel

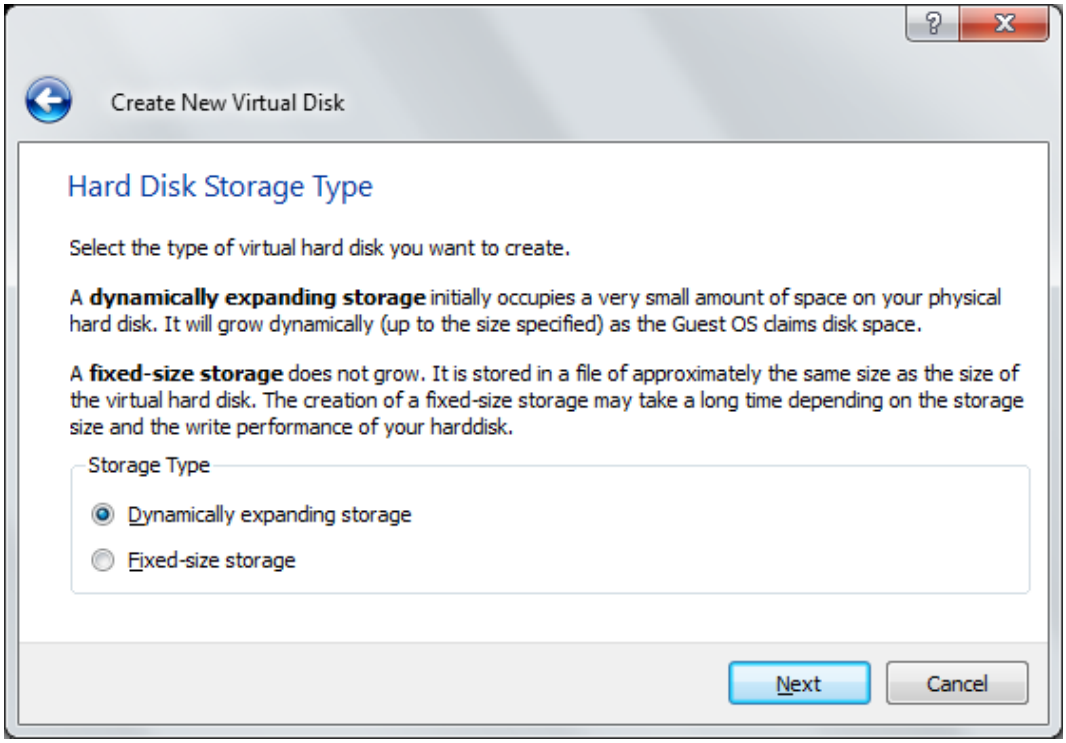
Afterwards you reach the settings where you have to assign memory for your virtual machine. Attention! The size shouldn't be too big. We suggest to assign 1024MB virtual memory. C-MOR just with one camera is able to work with 512MB virtual memory. This depends on the size of the total memory you have in your system left.



After setting up the main memory the hard disk space is set:




Create New Virtual Disk
Welcome to the Create New Virtual Disk Wizard!
This wizard will help you to create a new virtual hard disk for your virtual machine.
Use the Next button to go to the next page of the wizard and the Back button to return to the previous page. You can also press Cancel if you want to cancel the execution of this wizard.
Next
Cancel


Create New Virtual Disk
Hard Disk Storage Type
Select the type of virtual hard disk you want to create.
A dynamically expanding storage initially occupies a very small amount of space on your physical hard disk. It will grow dynamically (up to the size specified) as the Guest OS claims disk space.
A fixed-size storage does not grow. It is stored in a file of approximately the same size as the size of the virtual hard disk. The creation of a fixed-size storage may take a long time depending on the storage size and the write performance of your harddisk.
Storage Type
Dynamically expanding storage
Fixed-size storage
Next
Cancel

Also the hard disk space which C-MOR will use later should be selected well. To install the operating system the virtual machine feature space. Now you are able to choose the space you need. **Attention!** The space limit of C-MOR is 2TB! Now you have to decide for a virtual disk space. If you want to do the installation automatically it isn´t necessary to remember the space later. But if you want to do your own partitioning you have to remember the space you choose for the installation later. For simple tests the total space of 3 Gigabytes will be enough. Experts may change the disk space later. Please read the steps to increase the disk space on a virtual C-MOR in the forum: http://www.c-mor.com/video-surveillance-forum

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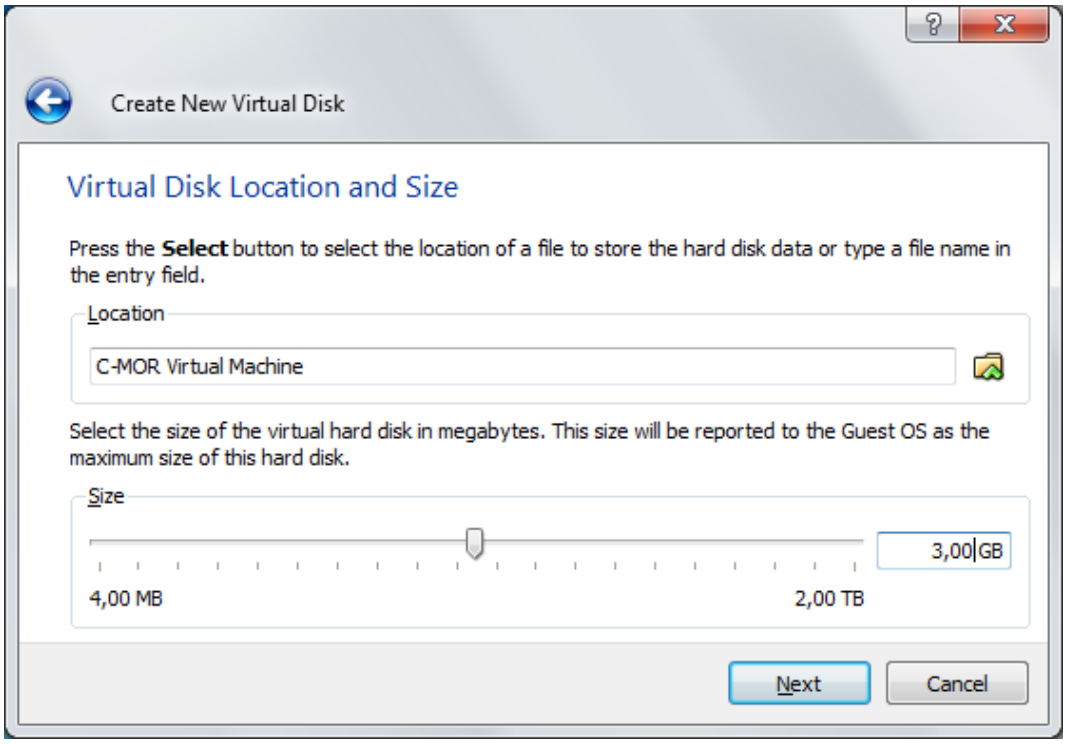
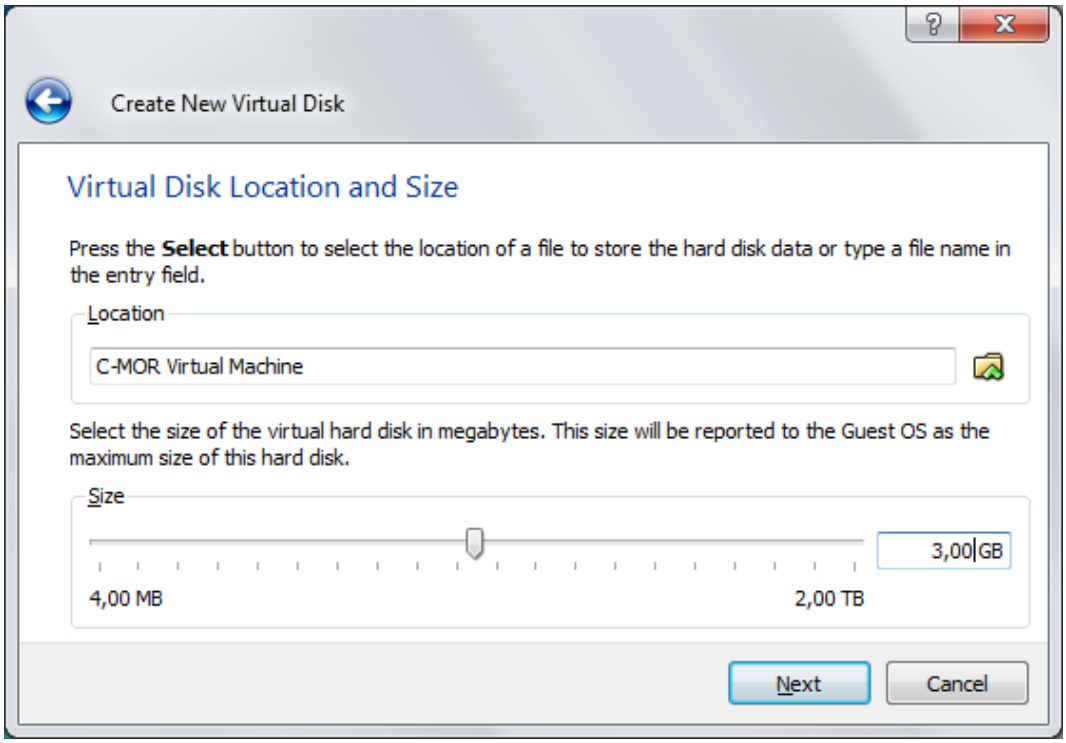
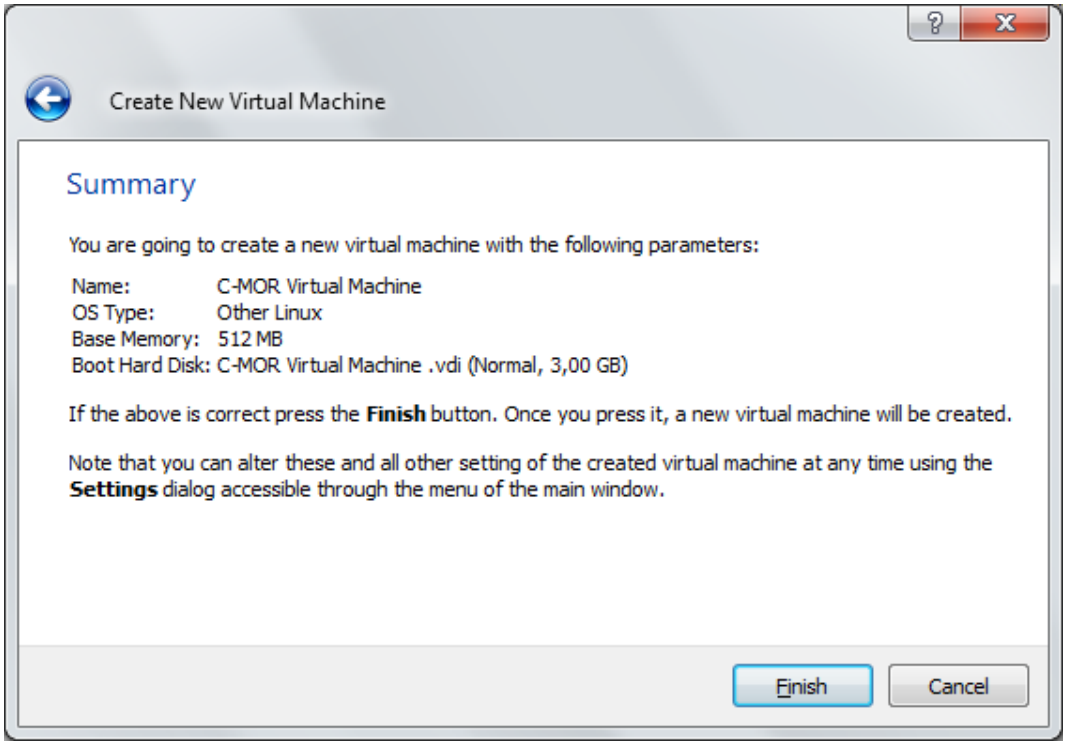
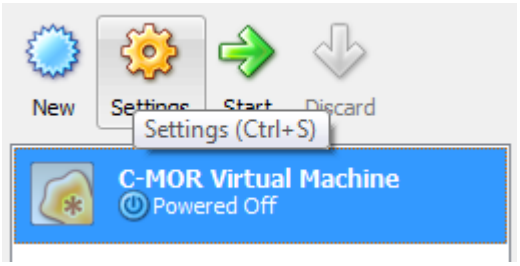
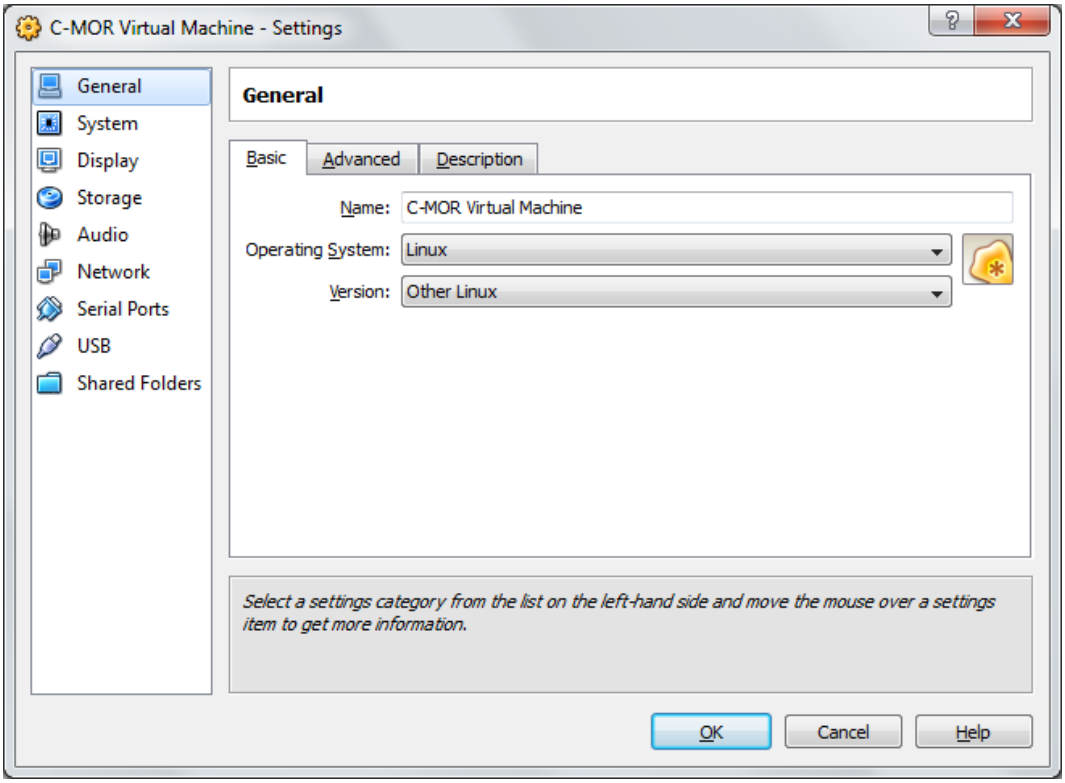



Create New Virtual Disk
Virtual Disk Location and Size
Press the Select button to select the location of a file to store the hard disk data or type a file name in the entry field.
Location
C-MOR Virtual Machine
Select the size of the virtual hard disk in megabytes. This size will be reported to the Guest OS as the maximum size of this hard disk.
Size
3,00 GB
4,00 MB
2,00 TB
Next
Cancel

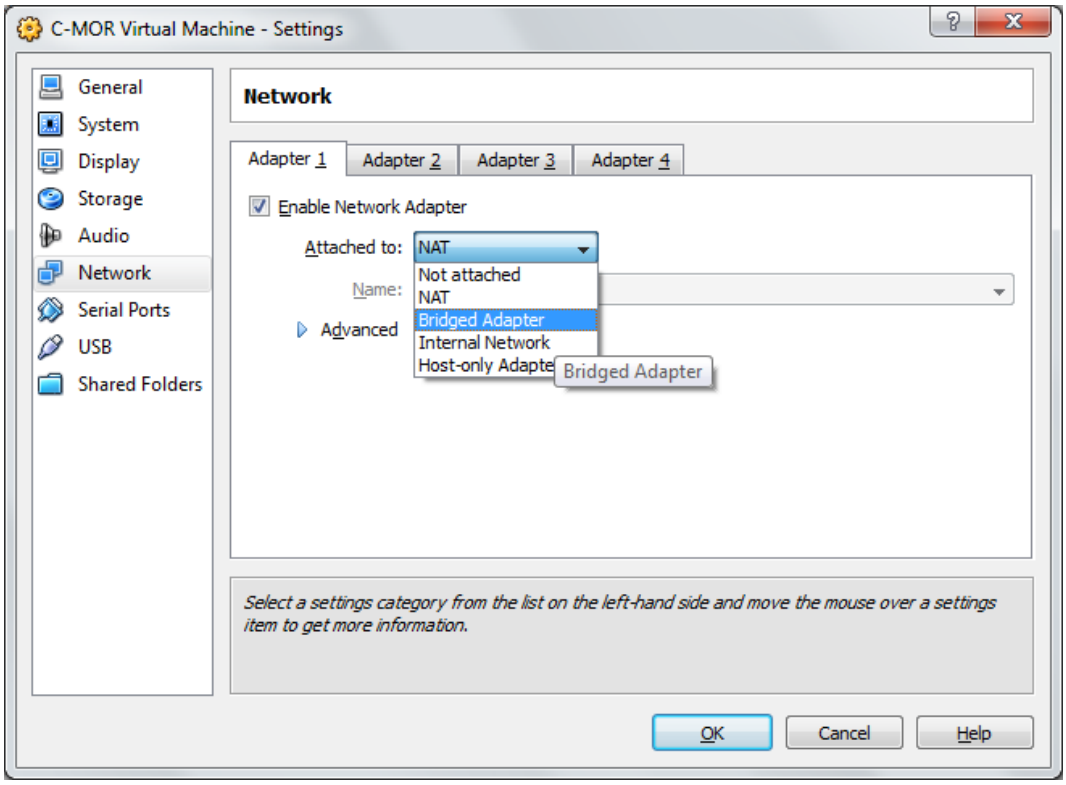

Create New Virtual Machine
Summary
You are going to create a new virtual machine with the following parameters:
Name: C-MOR Virtual Machine
OS Type: Other Linux
Base Memory: 512 MB
Boot Hard Disk: C-MOR Virtual Machine .vdi (Normal, 3,00 GB)
If the above is correct press the Finish button. Once you press it, a new virtual machine will be created.
Note that you can alter these and all other setting of the created virtual machine at any time using the Settings dialog accessible through the menu of the main window.
Finish
Cancel

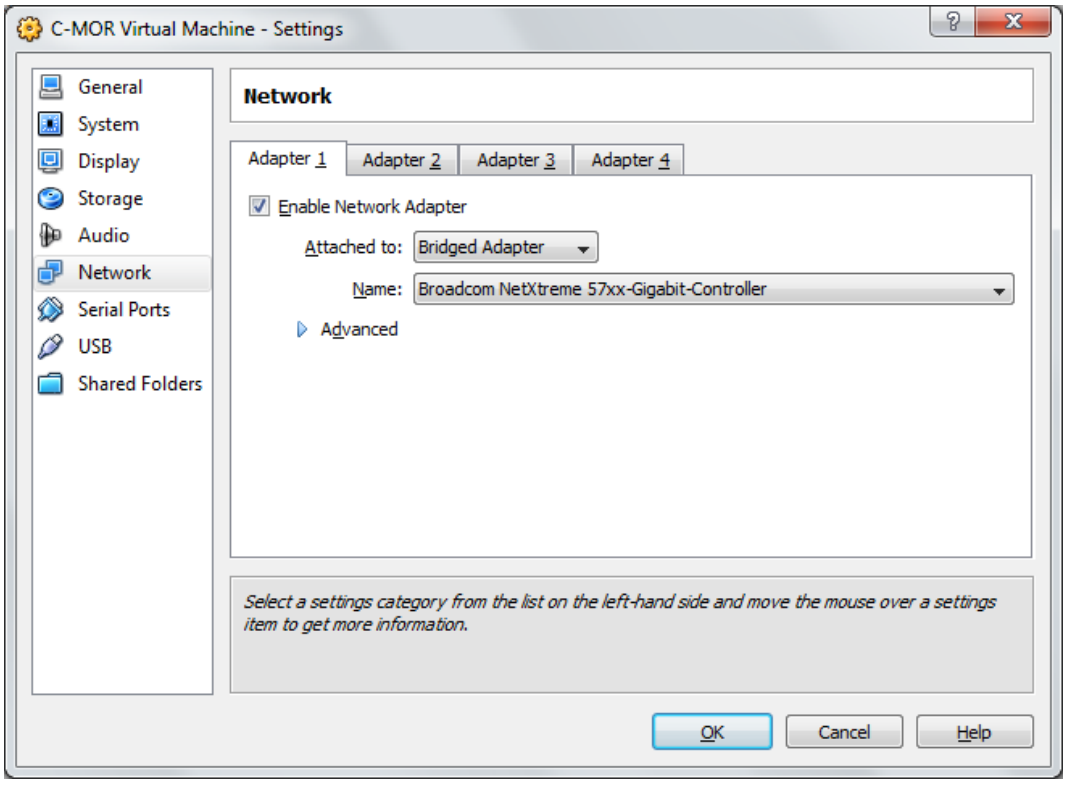
Before the just created virtual C-MOR can be started two settings need to be set that the installation runs fine later. Select the just created VM and click on “Settings”.



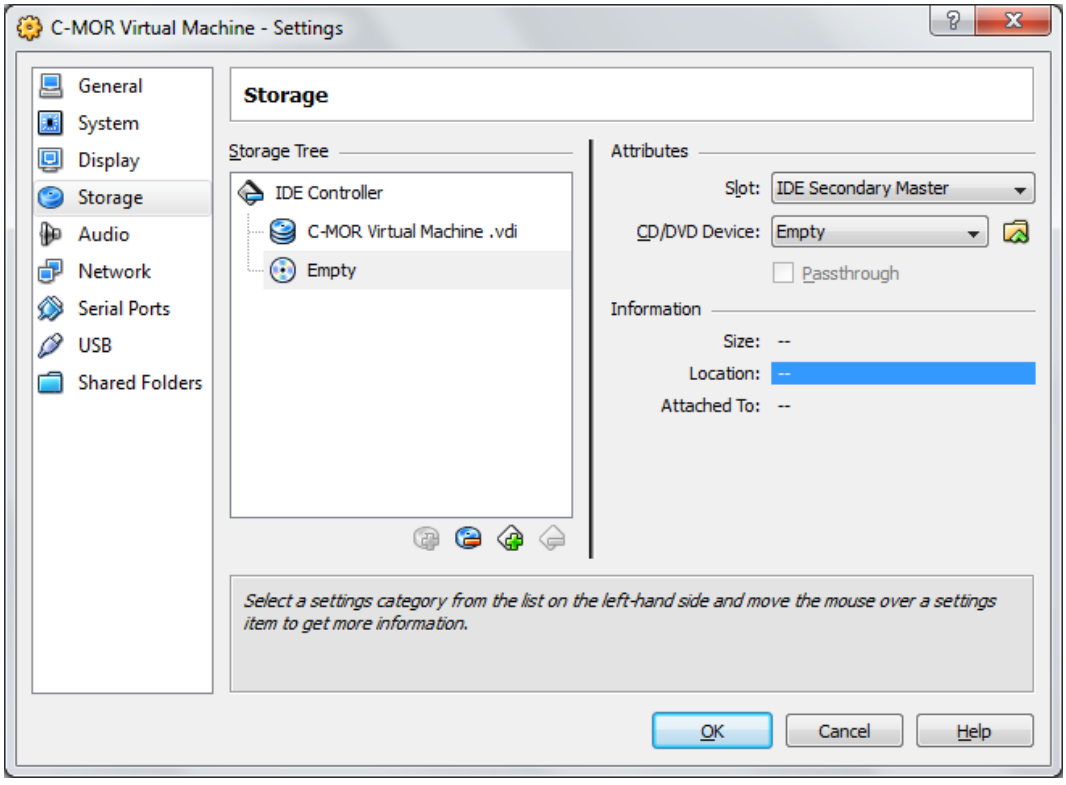


Select “Network” in the left menu and set “Bridged Adapter” for the “Adapter 1” as the “Attached to:” value. This is required to make C-MOR available from the attached network later.

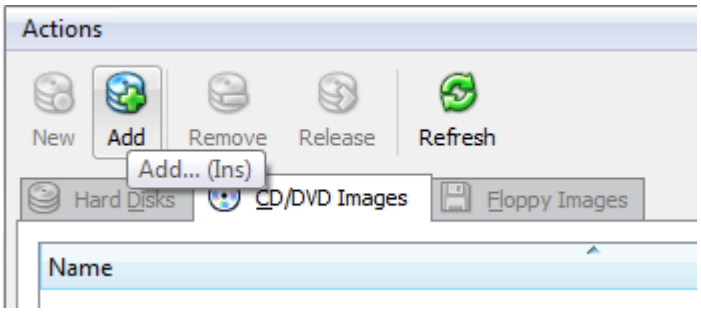




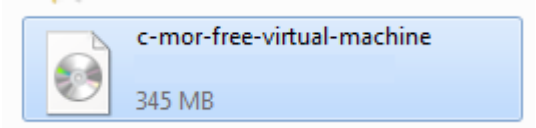
The second change which needs to be made prior starting the VM is the mounting of the ISO image which covers the C-MOR VM. Select “Storage” in the left menu and change the “IDE Controller” “CD/DVD Device” by clicking on the folder symbol:

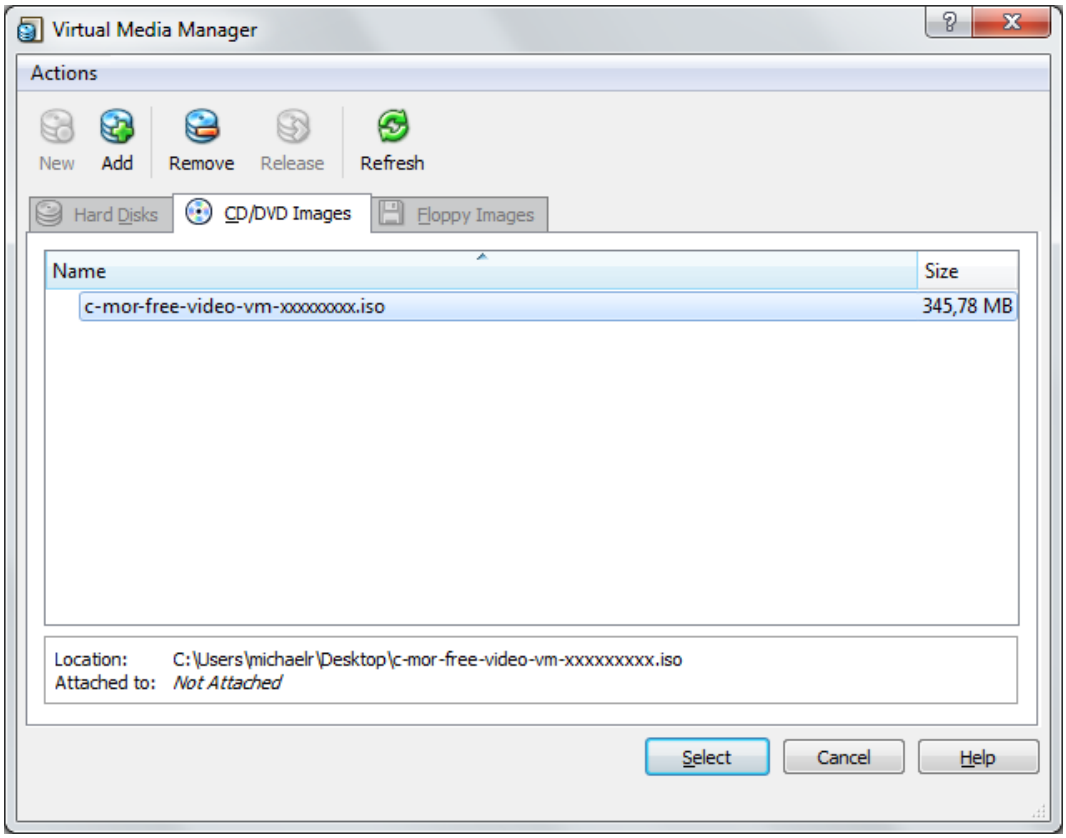


Select “Add“ in the opening menu and add the ISO Image which was downloaded from the C-MOR web.

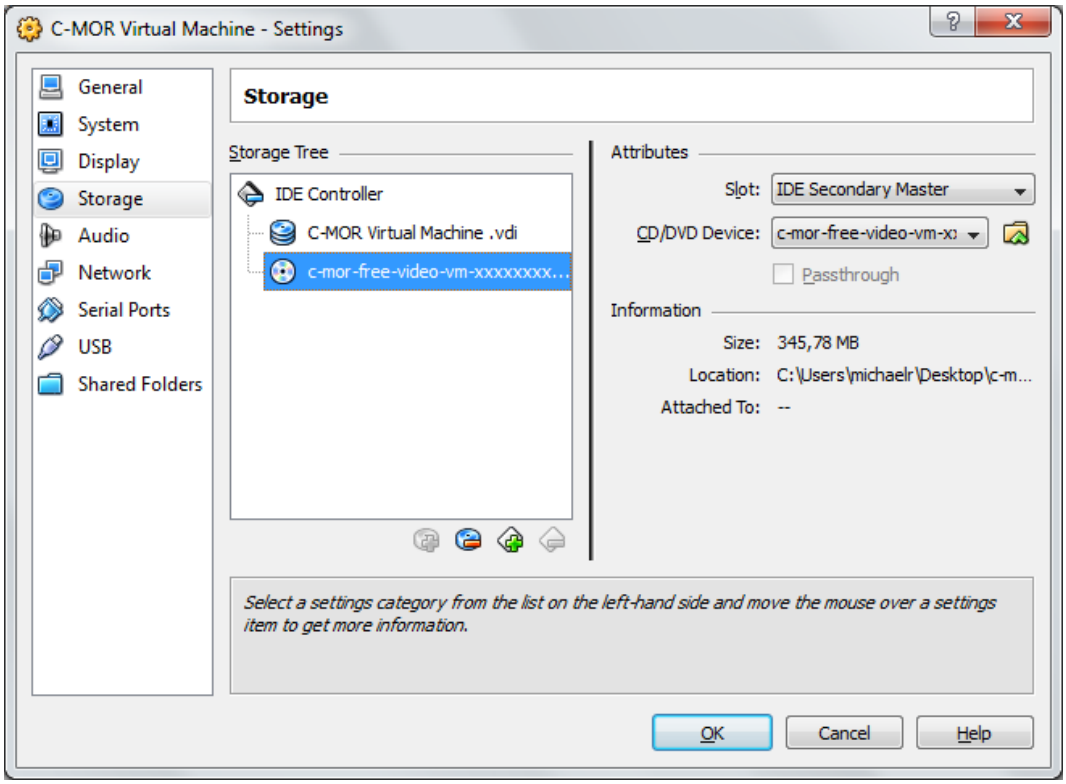


Select the file in the menu:

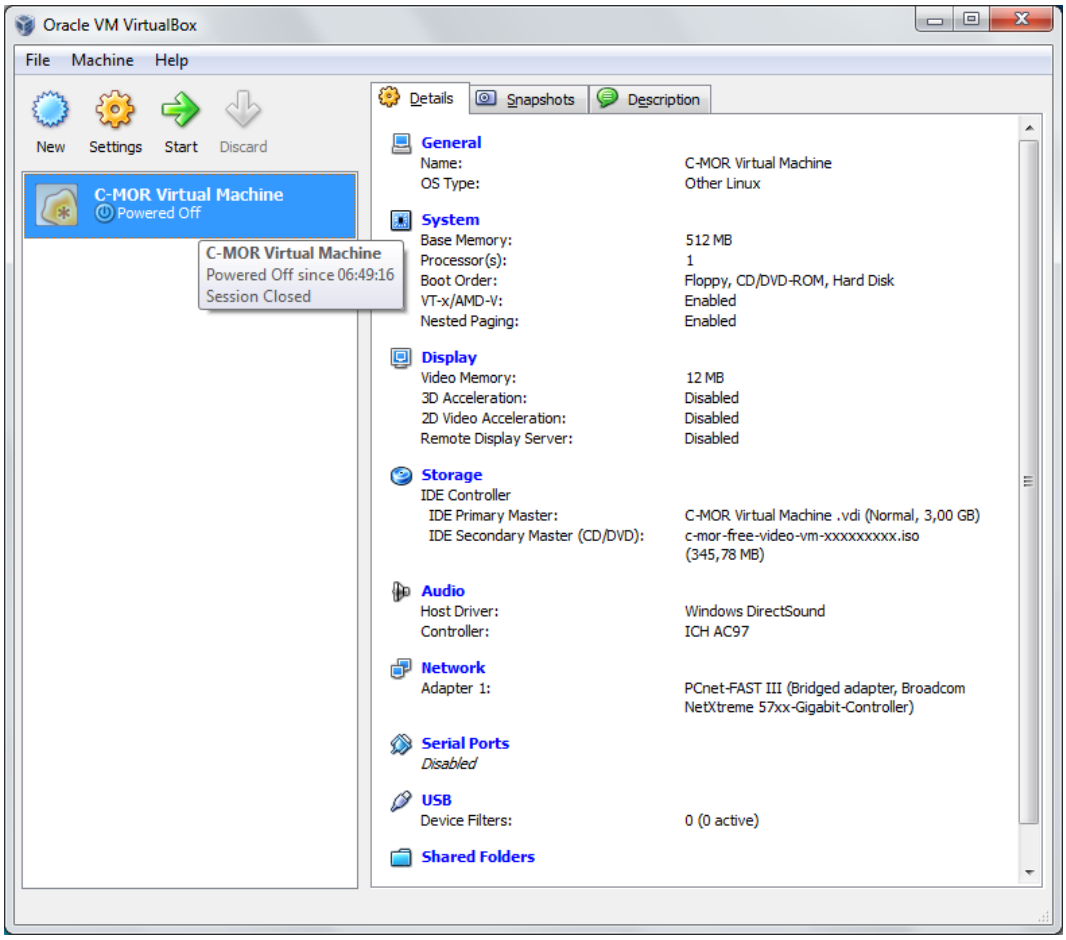




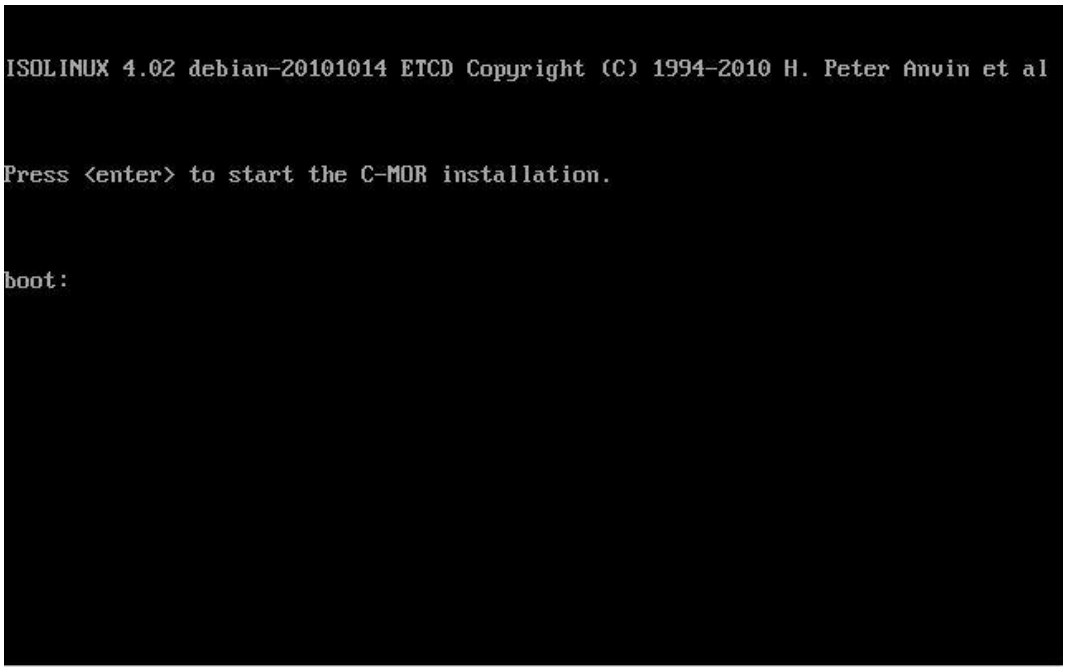
After the correct selection the storage menu looks like following:



Has the virtual C-MOR been configured the software has to be installed as next step. The C-MOR VM has to be started now by selecting the “C-MOR Virtual Machine” and clicking on the “Start” Button on the left top:

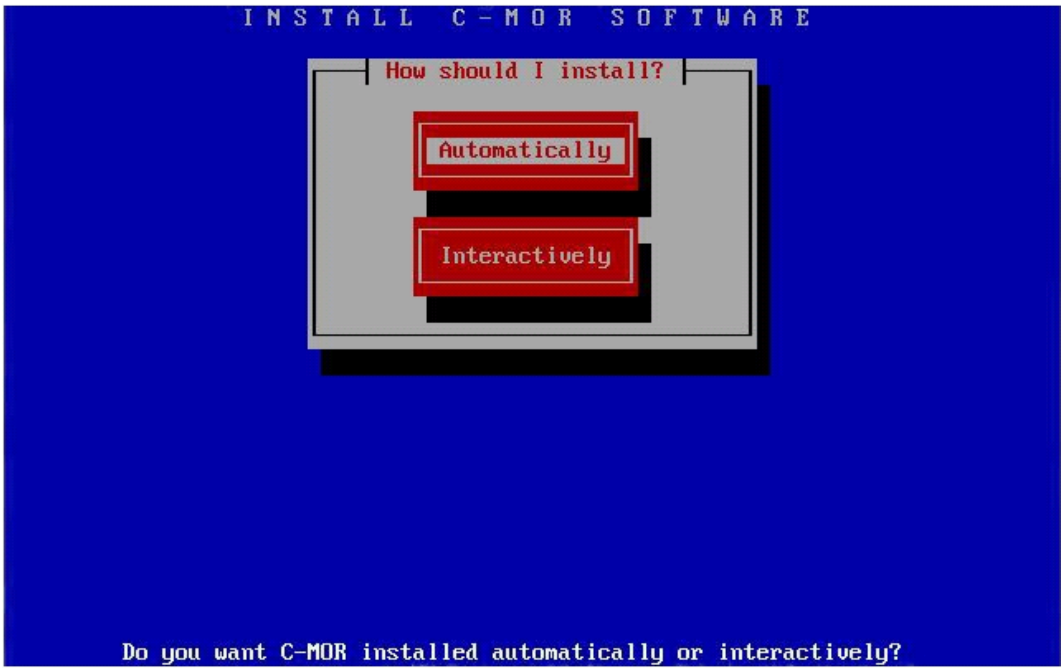


The virtual C-MOR starts with the following start screen you simply needs the Enter key to start the installation program:

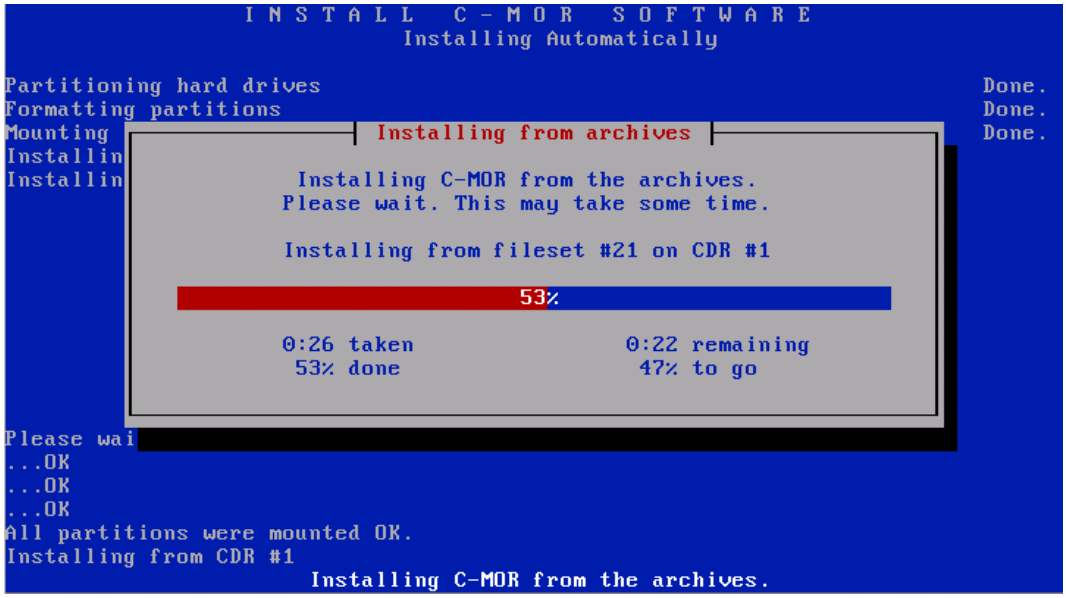


Right after that the installation menu appears. Select “Automatically” to install the C-MOR VM:

If you want to install C-MOR with your own partition, you have to change now the manual. From this step you should use the documentary http://www.c-mor.com/pdf/c-mor-expert-installation.pdf.

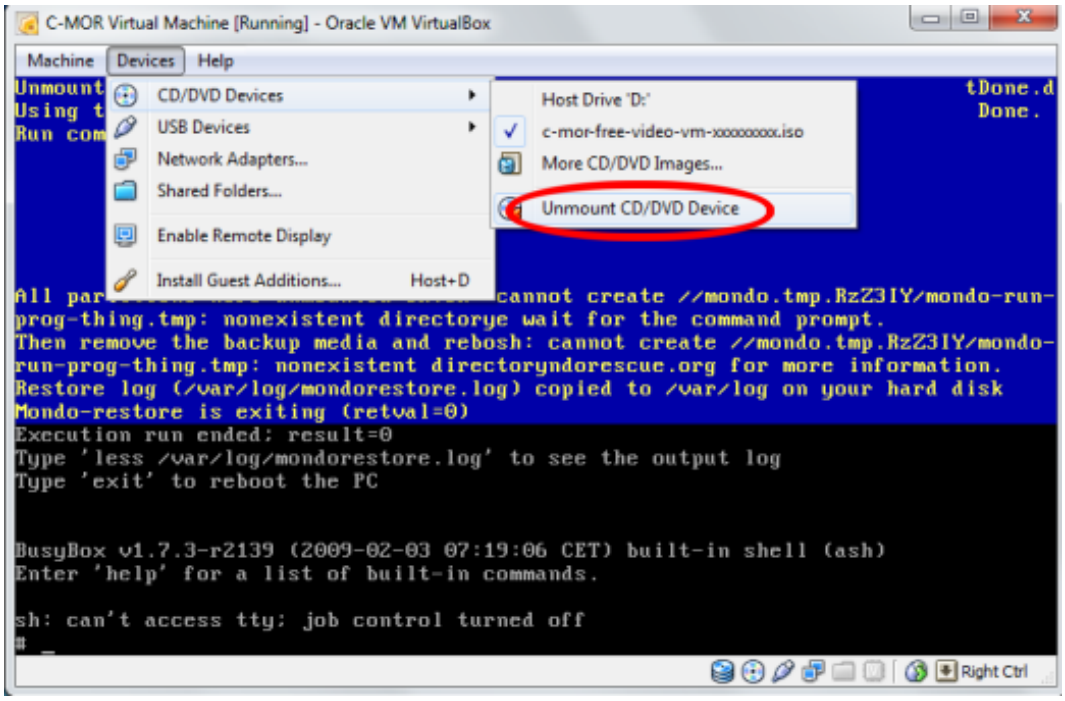


The installation progress is shown:

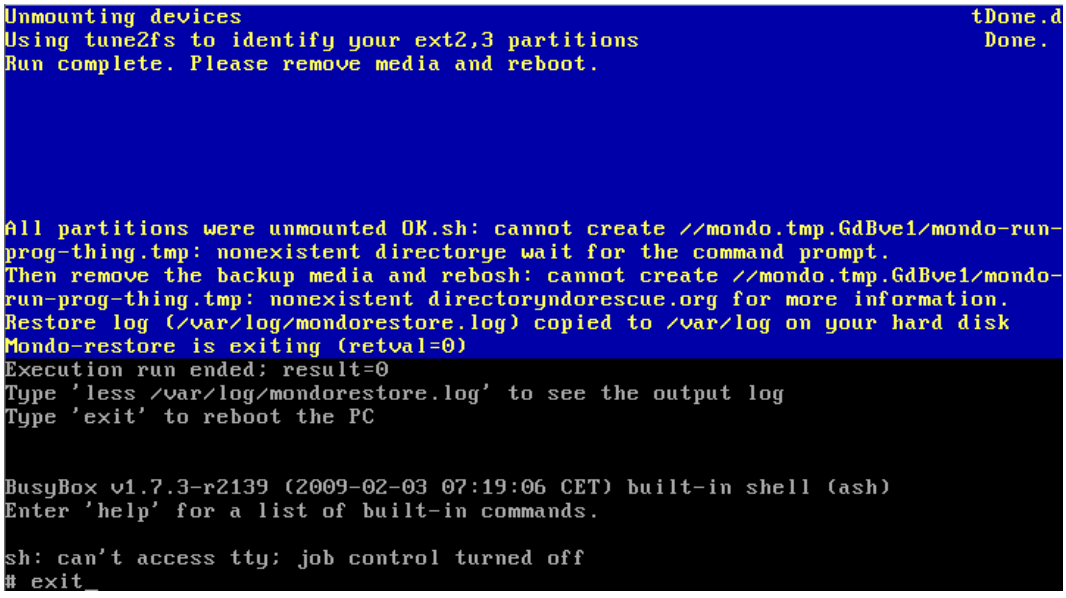


The C-MOR Virtual Machine is installed now. Move on by pressing the Enter key:

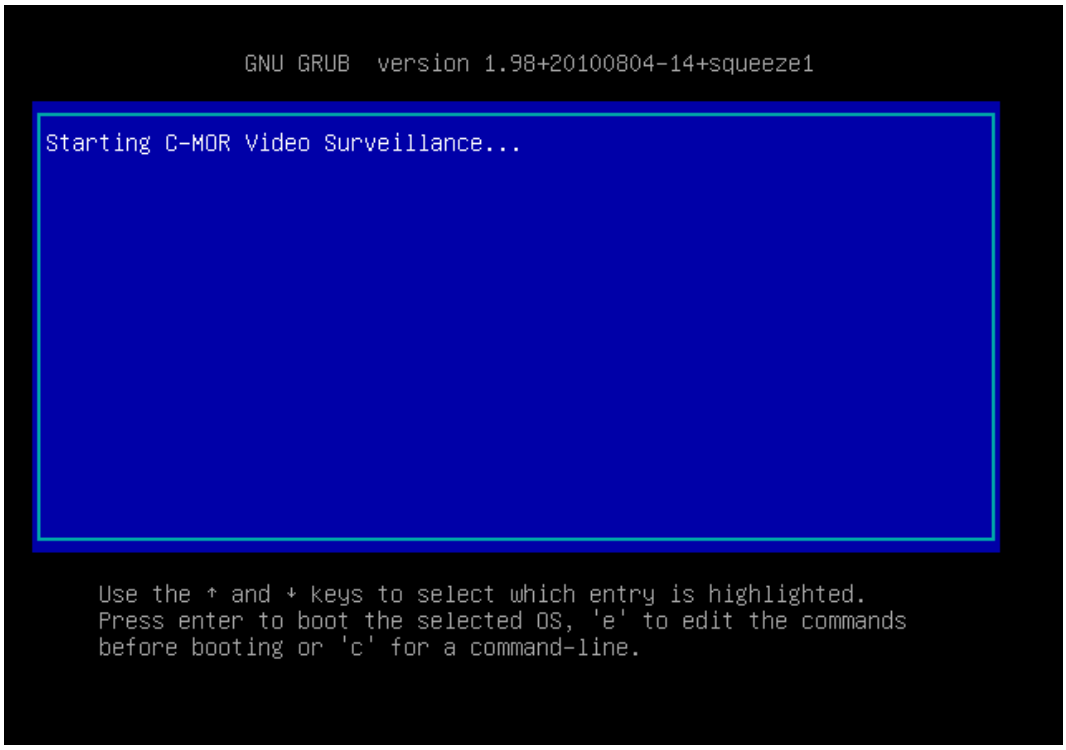
Before the installation finishes with the command “exit” the CDROM must be un-mounted (ejected) through the Devices menu on top left:



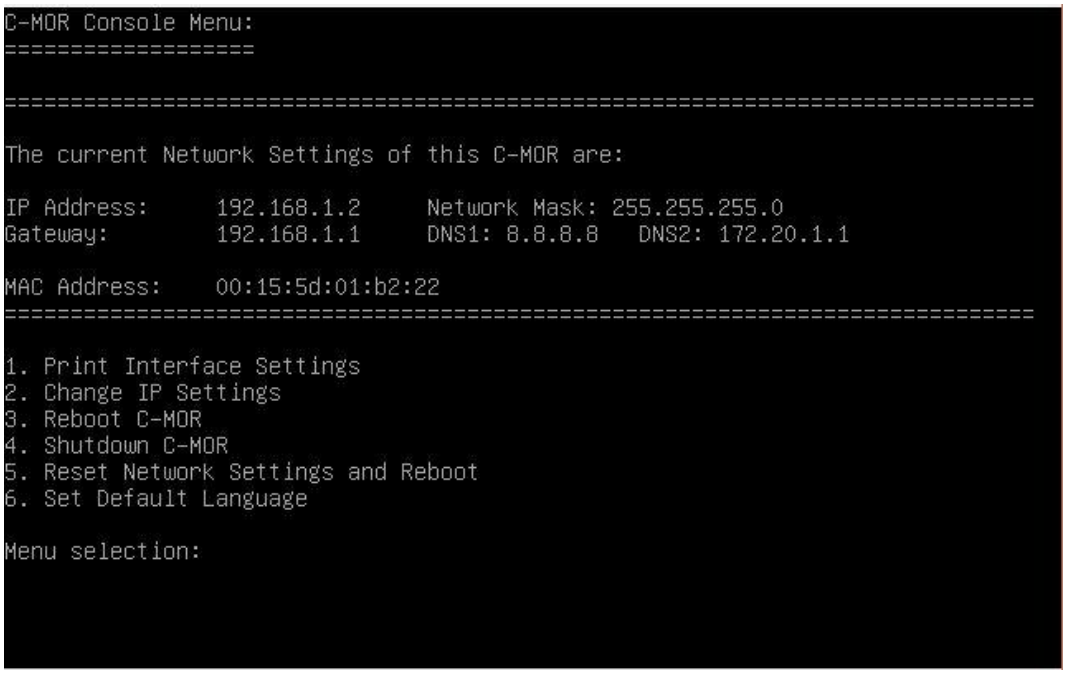
After the CDROM was unmounted the command “exit“ finishes the installation. The new C-MOR VM reboots first time now:



The installation has almost finished. The C-MOR VM starts now and show following start screen after booting once automatically:



After the automatic reboot the standard IP address is set to 192.168.1.2 with the netmask 255.255.255.0:

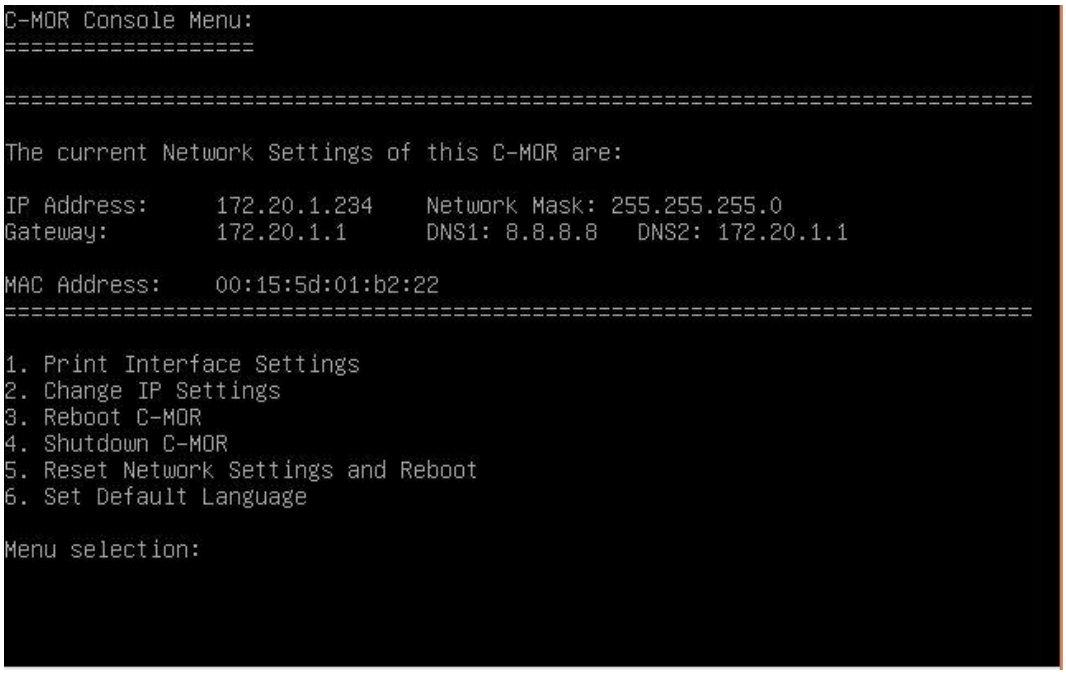


Now select menu number 2 to change the IP to fit to your network: You are asked for the admin password. The default password of C-MOR is “admin”.

```
1. Print Interface Settings
2. Change IP Settings
3. Reboot C-MOR
4. Shutdown C-MOR
5. Reset Network Settings and Reboot
6. Set Default Language

Menu selection: 2

Enter the C-MOR admin password:

Menu 2 selected

Enter new IP address (no validation check): 172.20.1.234

Enter new netmask (use 255.0.0.0 if not sure): 255.255.255.0

Enter new gateway address (no validation check): 172.20.1.1

================================================================================

The Name Servers are set to: 8.8.8.8, 172.20.1.1.

Do you want to change the Name Servers? This is optionally! (y/N) y
```

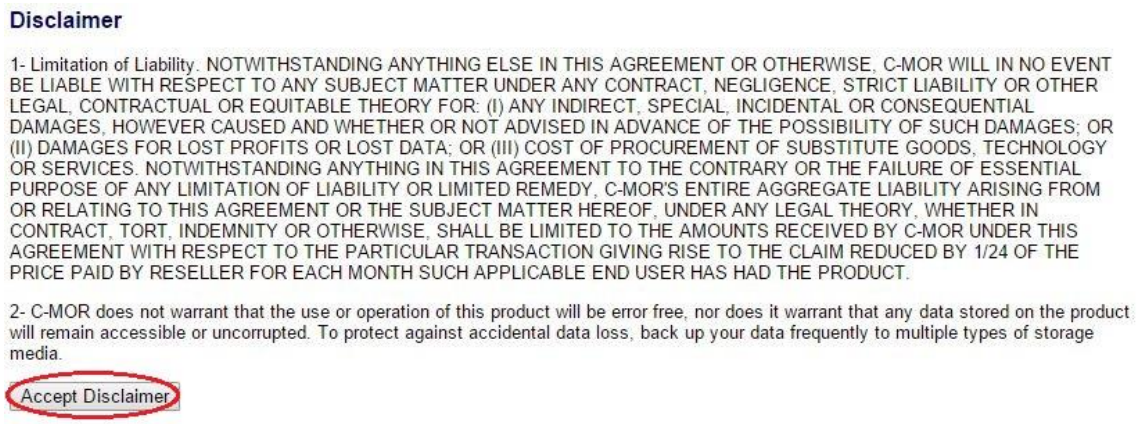
```
Enter new netmask (use 255.0.0.0 if not sure): 255.255.255.0

Enter new gateway address (no validation check): 172.20.1.1

================================================================================

The Name Servers are set to: 8.8.8.8, 172.20.1.1.

Do you want to change the Name Servers? This is optionally! (y/N) y

Enter first DNS Server
(use 8.8.8.8 if not sure): 8.8.8.8

Enter second DNS Server
(use 8.8.4.4 if not sure): 172.20.1.1

================================================================================

New IP address: 172.20.1.234
New Netmask: 255.255.255.0
New Gateway: 172.20.1.1
New DNS Server 1: 8.8.8.8
New DNS Server 2: 172.20.1.1

Is this correct? (y/N) y
```

The just made settings are displayed on the console.

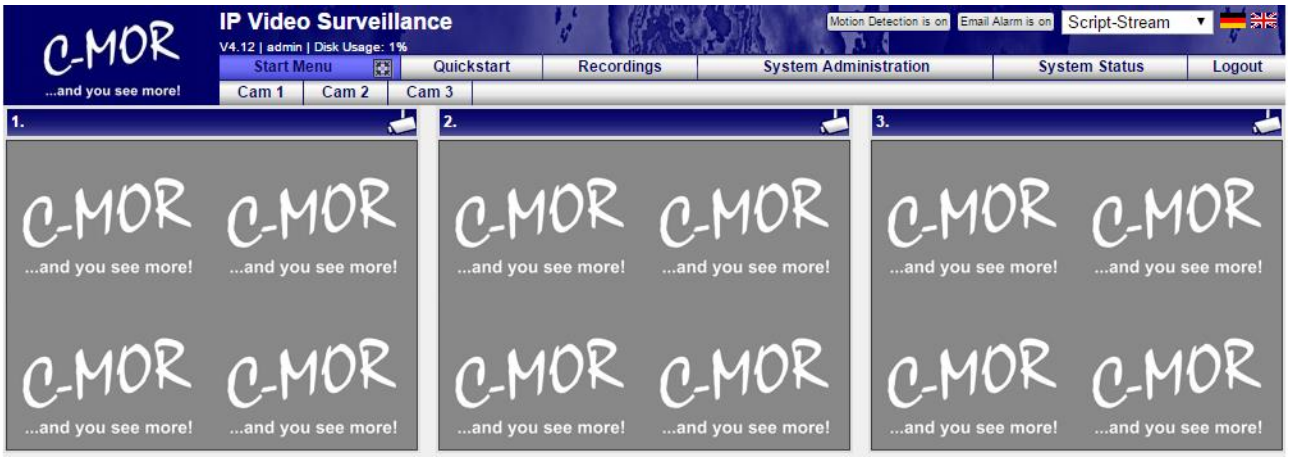


After setting up the IP information correctly the C-MOR will be available through the web. In this example simply type http://172.20.1.234 (or whatever you did set up) and use the username “admin” with password “admin” to log in.

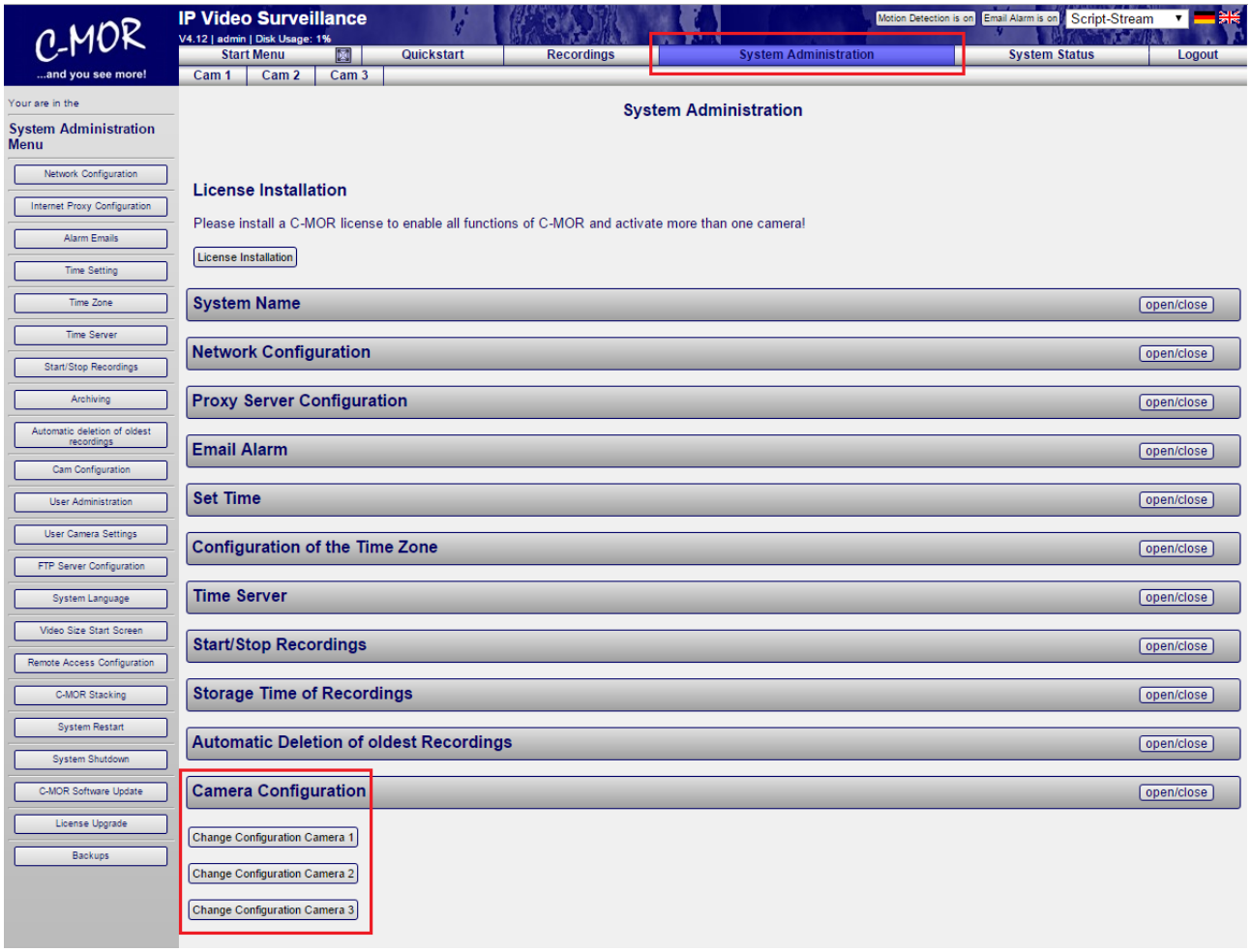
First of all a disclaimer is displayed. You have to accept the disclaimer to use C-MOR:



After clicking “Accept Disclaimer” the start screen of C-MOR shows up:



C-MOR was successfully installed now. Now move to the menu “System Administration” and configure your cameras.



More Information for the configuration of C-MOR you can find on „**User Manual for C-MOR IP V4 Video Surveillance**“.

The Note “License Installation” just appears at the free version of C-MOR. If you have a licensed version yet, this note will not appear anymore.