
Internet for Guests

VM Installation VMware ESXI

1.0.0

English

Software Version V 3.6.2736 or newer

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1. Introduction



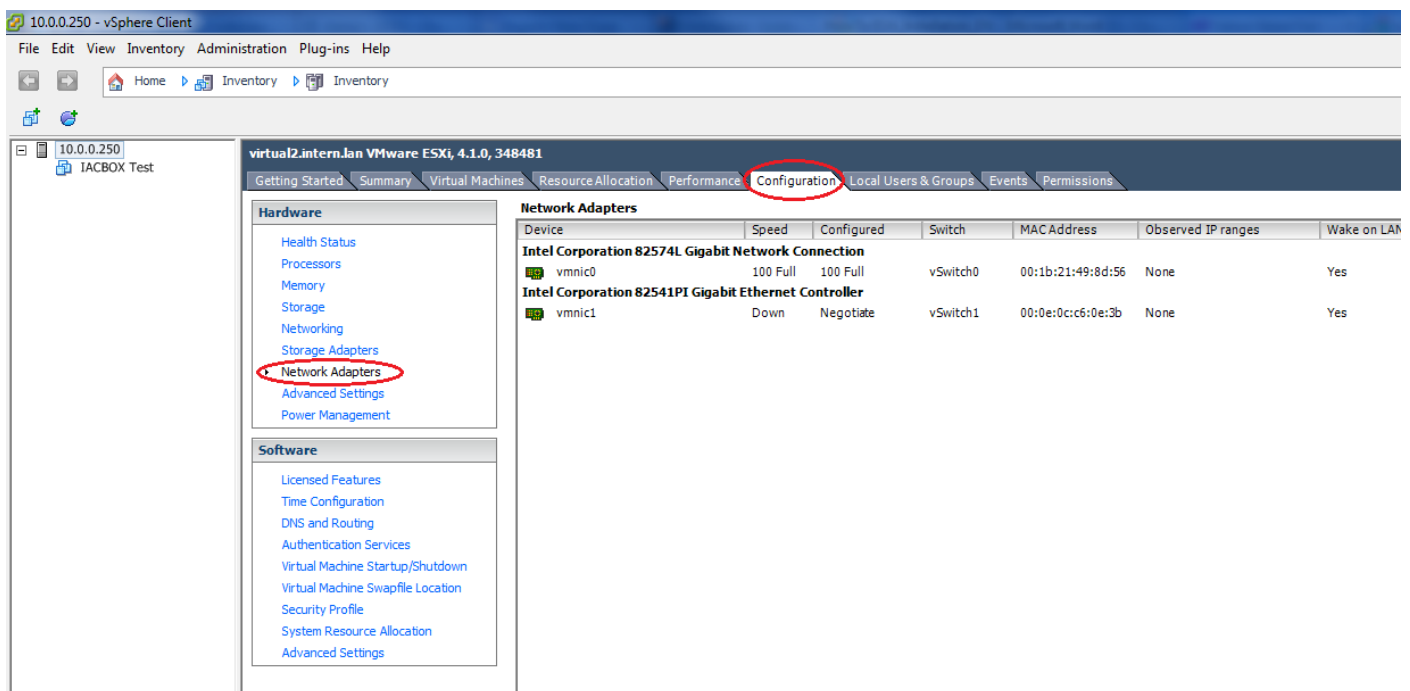
- A 64 bit host system is required!
- A dedicated network interface is required for the Surf-LAN.
- The system has to be permanently online because the license has to be synchronized periodically with the licensing server.
- Virtualization at locations with more than 50 concurrent users is not recommended!
- The Advanced Web Filter may cause negative side effects within the virtual machine and is therefore unsupported in virtual environments!

2. Installation on a ESXi Server

2.1 Configuration of the Network Card

Before beginning with the installation you must prepare the Network Card.

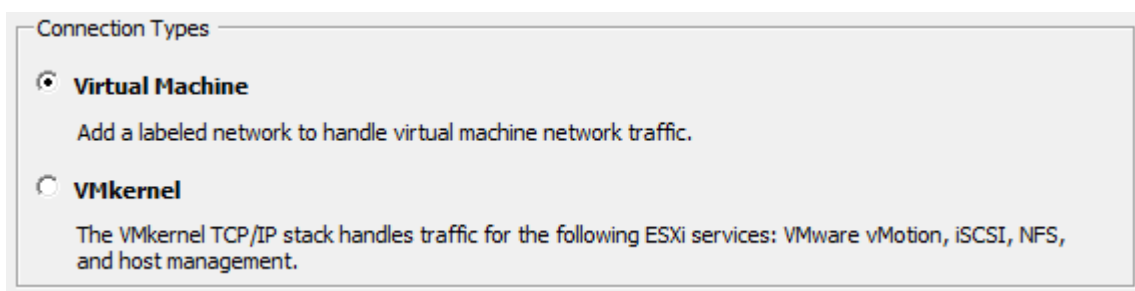
Therefore start the vSphere Client. Go to the menu **Configuration/Network Adapters** on the host view of the system. Here you can see all the available Network Cards.



Note the name of the SurfLan Network Adapter (e.g. vmnic1).

Now we need to define a virtual Switch which simulates the SurfLan part of the network. Therefore go to the menu **Networking** on the left.


There you click on **“Add Networking”** on the top right site to start the Network Wizard. Now use all the settings as showing below on the pictures:



Select which virtual switch will handle the network traffic for this connection. You may also create a new virtual switch using the unclaimed network adapters listed below.

<input checked="" type="radio"/> Create a virtual switch	Speed	Networks
<input checked="" type="checkbox"/> vmnic1	Down	None
<hr/>		
<input type="radio"/> Use vSwitch0	Speed	Networks
<input type="checkbox"/> vmnic0	100 Full	None

Preview:

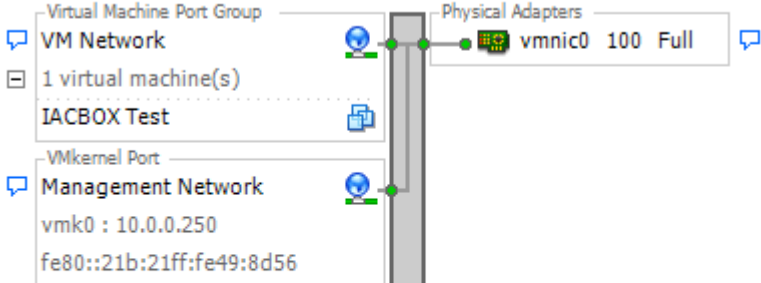


Select the SurfLan Adapter (here vmnic1).

In the following dialog you need to enter a name to identify the network (e.g. SurfLan). The VLAN – ID field is left empty.

After finishing this, you will see the new Virtual Switch for the SurfLan you just defined.

Virtual Switch: vSwitch0 [Remove...](#) [Properties...](#)



Virtual Switch: vSwitch1 [Remove...](#) [Properties...](#)



2.2 Create a virtual Computer

To create a new virtual computer, click on **Inventory** → **Host** → **new virtual machine** at the title border. A new window opens where you can create the new virtual machine now.

2.2.1 Configuration

Configuration

Typical
Create a new virtual machine with the most common devices and configuration options.

Custom
Create a virtual machine with additional devices or specific configuration options.

Choose the custom configuration and continue by clicking on “Next”.

2.2.2 Name and location for the Datastore

Name:

IACBOX Test

Virtual machine (VM) names may contain up to 80 characters and they must be unique within each vCenter Server VM folder.

VM folders are not viewable when connected directly to a host. To view VM folders and specify a location for this VM, connect to the vCenter Server.

Enter a proper name for the system.

Select a datastore in which to store the virtual machine files:

Name	Capacity	Provisioned	Free	Type	Thin Provisioning	Access	Hardware Acceleration
[datastore1]	144,00 GB	82,09 GB	62,91 GB	VMFS	Supported	Single host	Unknown

Confirm this dialog with “Next”.

2.2.3 Version of this Machine

Virtual Machine Version

This host or cluster supports more than one VMware virtual machine version. Specify the virtual machine version to use.

Virtual Machine Version: 4

This version will run on VMware ESX Server version 3.0 and later, and VMware Server 1.0 and later. This version is recommended when sharing storage or virtual machines with ESX Server versions up to 3.5.

Virtual Machine Version: 7

This version will run on VMware ESX Server version 4.0 and later, and VMware Server 2.0. Choose this version if you need the latest virtual machine features and do not need to migrate to ESX 3.

As Version choose Virtual Machine Version: 7.

2.2.4 Guest Operating System

Guest Operating System:

Microsoft Windows

Linux

Novell NetWare

Solaris

Other

Version:

Suse Linux Enterprise 11 (32-bit) ▼

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

As Guest Operating System choose **Suse Linux Enterprise 11 (32-bit)**.

2.2.5 CPUs

Number of virtual processors:

The number of virtual processors that can be created for a VM depends on the number of licensed CPUs on a host and the number of processors supported by the guest OS.

Click Help for information on the number of processors supported for various guest operating systems.

Select 1 for the number of virtual processors.

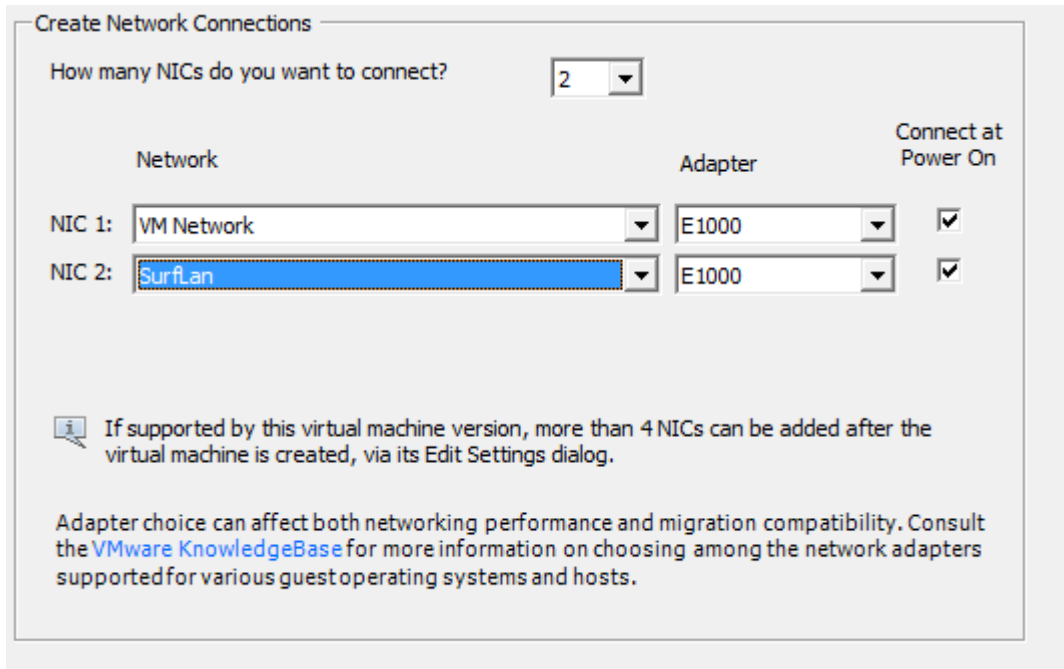
2.2.6 Memory Configuration

Memory Size:

- Maximum recommended for this guest OS: 64 GB.
- Maximum recommended for best performance: 2036 MB.
- Default recommended for this guest OS: 512 MB.
- Minimum recommended for this guest OS: 256 MB.

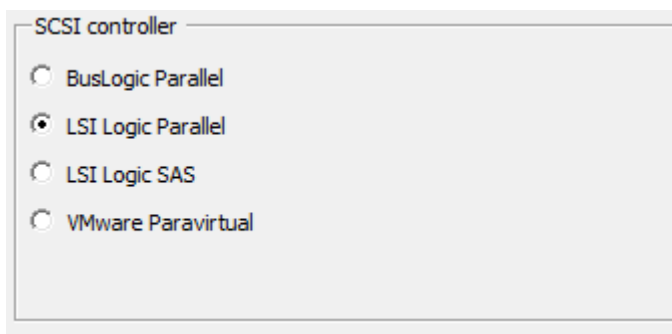
Select at least 1024MB Memory Size.

2.2.7 Network



Select 2 Network Cards as Number of NIC's. Then select the defined SurfLan for NIC2.

2.2.8 SCSI-Controller



For SCSI – Controller select **LSI Logic Parallel** as displayed on the picture.

2.2.9 Select a disk

A virtual disk is composed of one or more files on the host file system. Together these files appear as a single hard disk to the guest operating system.

Select the type of disk to use.

Disk

- Create a new virtual disk
- Use an existing virtual disk
Reuse a previously configured virtual disk.
- Raw Device Mappings
Give your virtual machine direct access to SAN. This option allows you to use existing SAN commands to manage the storage and continue to access it using a datastore.
- Do not create disk

Select “Create a new virtual disk” and continue with “Next”.

2.2.10 Create a disk

Capacity

Disk Size:

Disk Provisioning

- Allocate and commit space on demand (Thin Provisioning)
- Support clustering features such as Fault Tolerance

Location

- Store with the virtual machine
- Specify a datastore:

As Disk Size you should select at least 40GB. Define the other settings as displayed on the picture above.

2.2.11 Advanced Options

Use the default settings on this dialog and create the virtual machine by clicking on “Finish”.

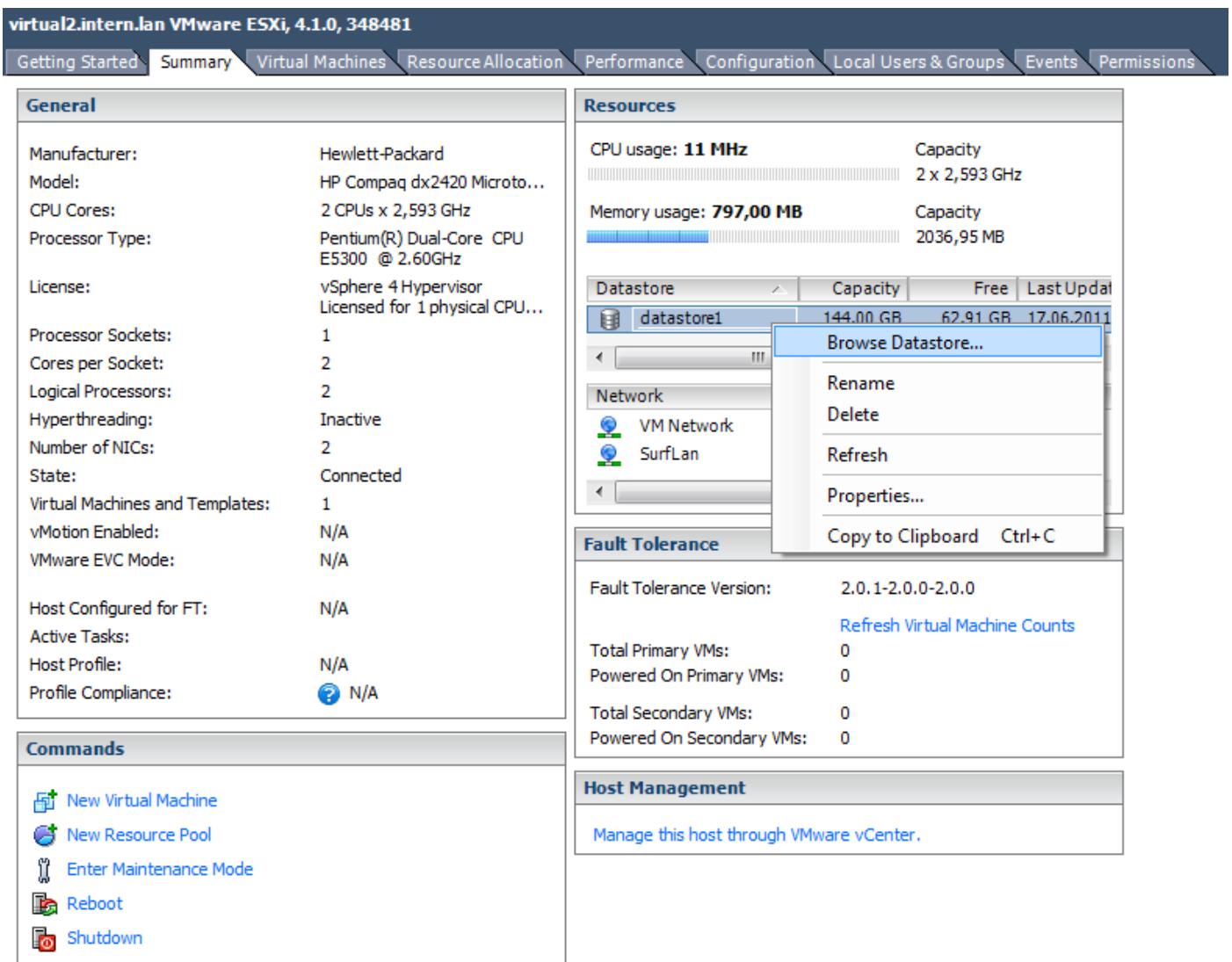
2.3 Operating System installation

2.3.1 Installation from CD or CD – Image (ISO Image)

Here you have to select if you want to install the Operating System from CD or CD – Image.

2.3.2 Prepare Image

Download the CD – Image from our Website (<http://www.iacbox.com/>) and switch to the hosts view.

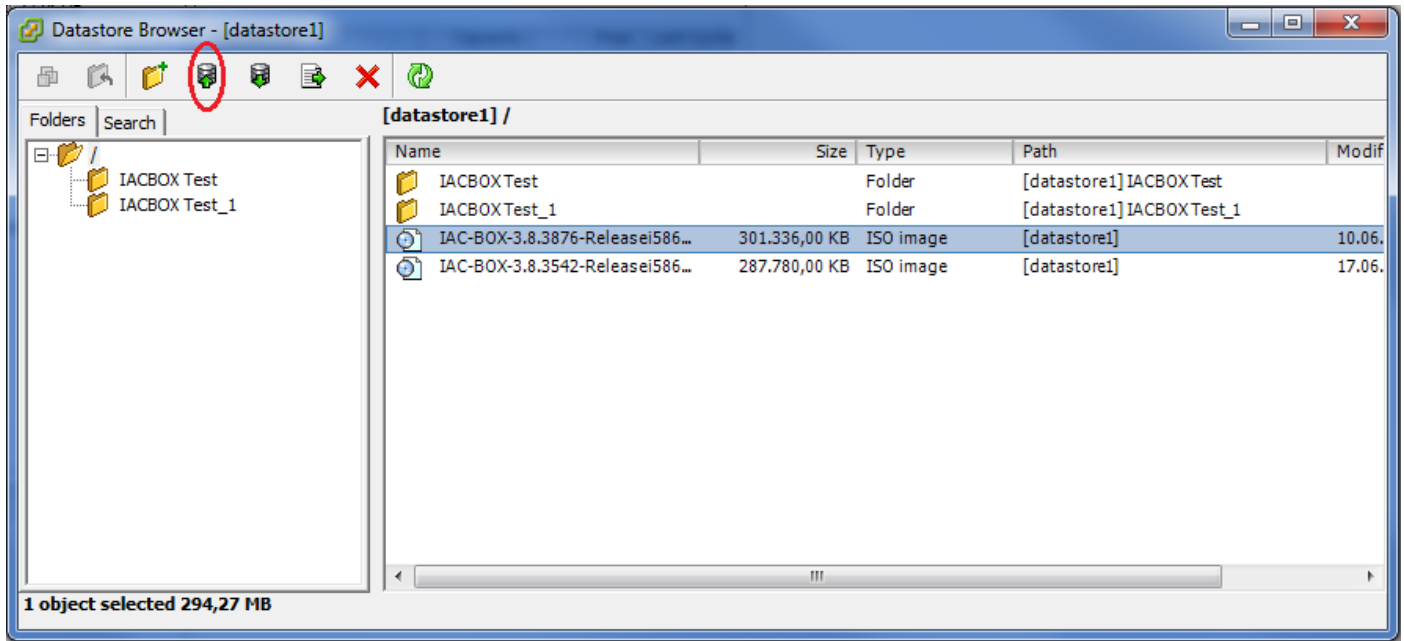


The screenshot shows the VMware ESXi configuration interface for host 'virtual2.intern.lan'. The 'Resources' section contains a table for Datastore:

Datastore	Capacity	Free	Last Updated
datastore1	144.00 GB	62.91 GB	17.06.2011

A context menu is open over the 'datastore1' row, showing options: 'Browse Datastore...', 'Rename', 'Delete', 'Refresh', 'Properties...', and 'Copy to Clipboard Ctrl+C'. The 'Browse Datastore...' option is highlighted.

Right – click on Datastore and go forward with “Browse Datastore...”.

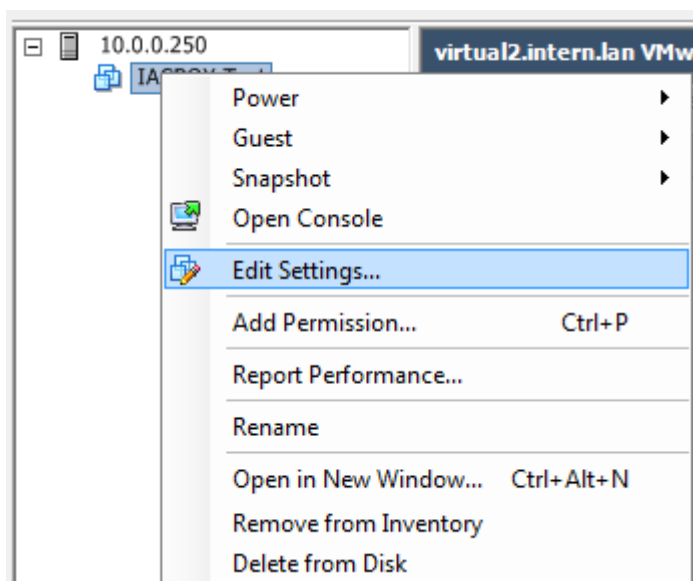


On this dialog you can now upload the CD-Image (which you downloaded from our IACBOX website) to the VM datastore. This can be done with the button, marked red on the picture above. Now you are ready to install the VM using a CD – Image.

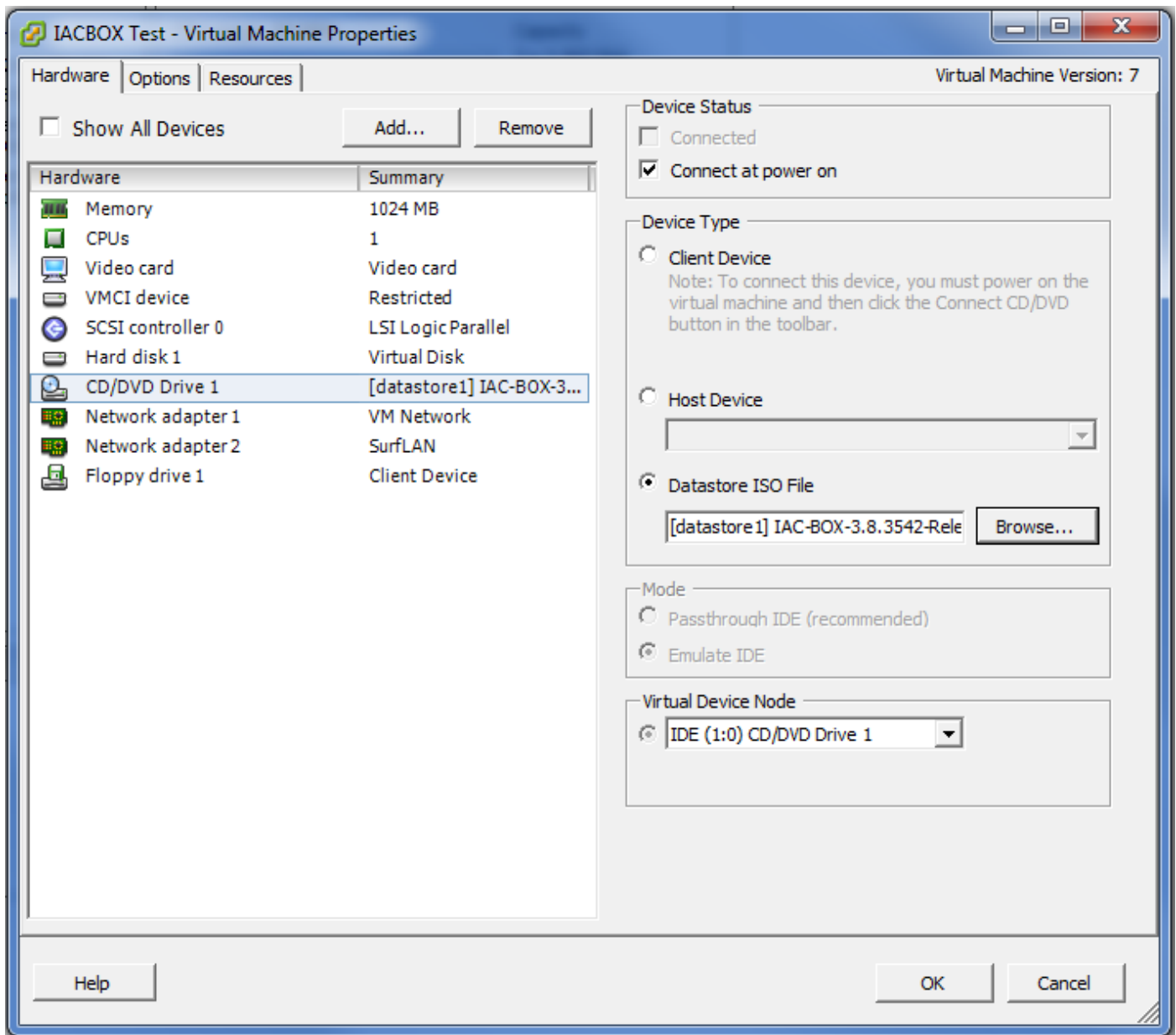
2.3.3 Prepare CD

Therefore insert the installation CD into your CD drive.

2.3.4 Select a installation medium (CD or CD-Image)



Right click on your Virtual Machine to **Edit Settings**.



A new dialog opens where you can select the installation medium.

If you want to install the Operating System from **CD-Image**, select **Datastore ISO File** and Browse for your CD-Image you uploaded to your VM datastore (as shown on 2.3.2 prepare Image).

If you want to install the Operating System from **CD**, select **Host Device**.

In addition activate **Connect at power on**.

2.3.5 Start the installation

Now you can start the machine with the Power-Button.



Now click on “Console” at your Virtual machine and you can see the boot screen.



By entering **g**, you can now start the graphical installation.
Follow the installation as described in our technically manual.