NOVASCALE UNIVERSAL

R421
R422
R422-INF

HOW TO: Create a Virtual Media Drive

REFERENCE
Rev03v01

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HOW TO: Create a Virtual Media Drive

Hardware

July 2007

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Trademarks and Acknowledgements

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Preface

This HOW TO explains how to use Virtual Media, one of the features offered by the AOC-SIMSO+ Add_On Card for the following servers:

- NovaScale Universal R421
- Novascale Universal R422
- Novascale Universal R422-INF

All items, including firmware, BIOS, tools, packages or manuals, which are included in this manual with an * character can be downloaded from the Bull web site:

Bull S.A.S. support Web site

http://support.bull.com

Intended readers

This HOW TO is written for very qualified user's or Bull SAS support technicians.

Terminology

Before using this mini user's guide, it is necessary to read firstly,

Bull's *NovaScale R42x AOC-SIMSO/SIMSO + Installation and User's Guide* (86 A1 96ET 00),

and secondly, the *IPMI View User's Guide* (CDR-SIMIPMI-1.10\Manuals\IPMIView20.pdf) and to familiarize yourself with the following terms:

Term	Definition
Technician computer	A computer connected to the AOC-SIMSO+ of the Destination Computer. This computer contains IPMI tools for AOC-SIMSO+, the Windows CD Image and the "third party OEM disk driver" Floppy Image.
Destination Computer	A computer on which you want to have Virtual Media. This computer is equipped with the AOC-SIMSO+ Add-On Card.
Virtual Media	This is one of the features of AOC-SIMSO+ card and creates a Virtual Media (Virtual Floppy Disk or Virtual CDROM) on the Destination Computer based on the image files on the Technician Computer. The Virtual Media may be created on the Destination Computer by sharing the physical Floppy Disk or CDROM drive attached to Technician Computer. In this case, this Virtual Media technology is called Media Redirection. Virtual Media is more than a Windows Share folder: once created, the Virtual Media is present on the destination computer, as **USB CDROM PepperC Virtual Disc** or **USB LS120 PepperC Virtual Disc** , for all the different phases of the destination computer. These devices are seen as storage drives by the Operating System using Windows Share and also by Bios Setup / Boot Order.

Chapter 1. How to create a Virtual Floppy Disk and/or CDROM drive

On the Technician computer:

1. Install and configure **IPMI View** on the Technician computer. The IPMI View software can be found on the Resources CD.

2. Create the **.ISO** image of the CDROM disc you want to have on the Destination computer (using a CDROM utility). Skip this step if you have already this image.

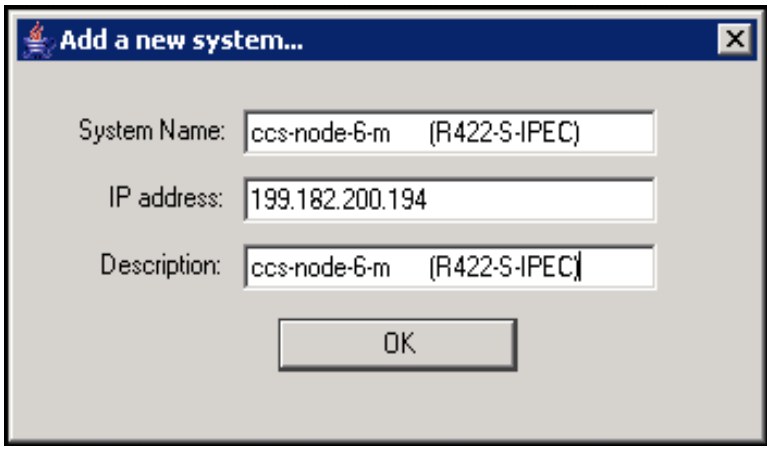
3. Create the **.IMG** floppy image from the floppy disk you want to have on the Destination computer by using the following tools :

   a. **Floppy Image Creator 5**
   Disk to file, file to disk floppy disk utilities, virtual floppy drive, SFX
   License: Shareware By: Tanon Technologies

   b. **Floopy v1**
   Floppy image creation tool
   License: Freeware Price: Free By: MaXPert Inc

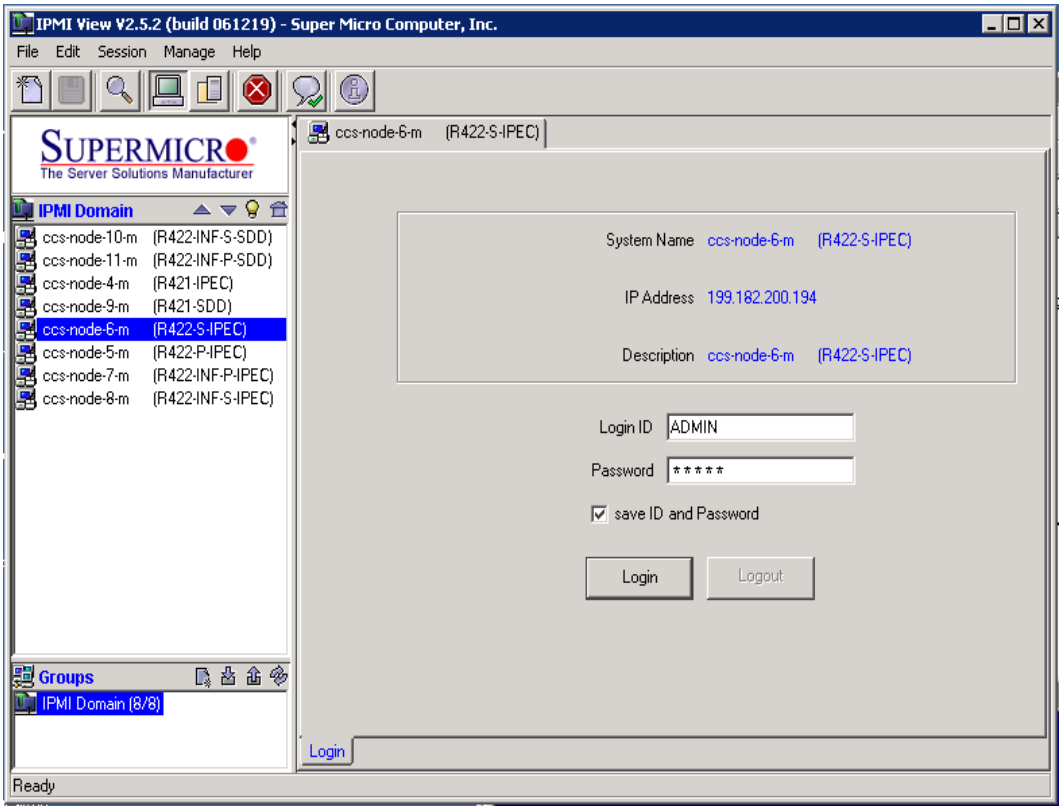
   c. **Diskcopy of FreeDOS**
   License : GNU

4. Under IMPI View, click **File ->New...->System** to add the destination computer to IPMI View. When the **Add a new system** dialog box appears, enter the AOC-SIMSO+ IP address of the destination computer.



The new system is added to IPMI View (left panel)

5. Double Click on the newly added system to open a session for the Destination computer

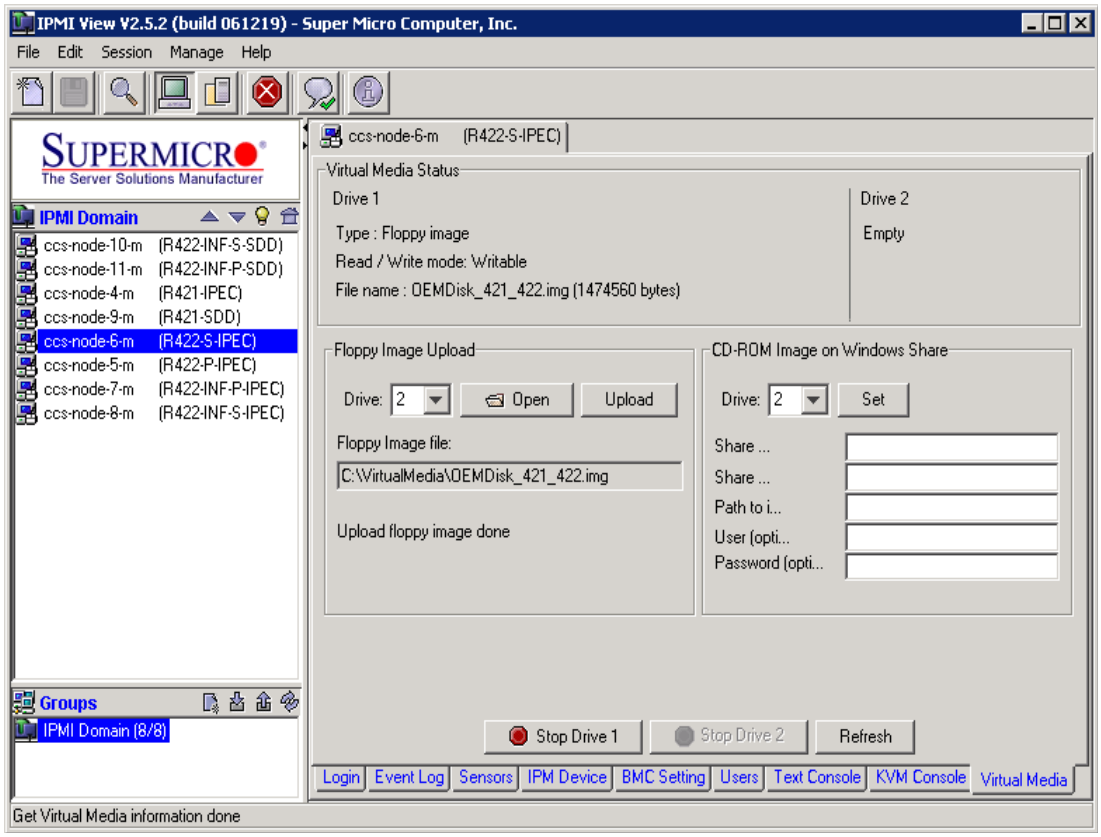


The default Login ID is "ADMIN" and the default password is "ADMIN". Both the Login ID and Password are case-sensitive.

6. Create a shared directory (**C:\VirtualMedia**), shared using the same name, on the Technician computer.

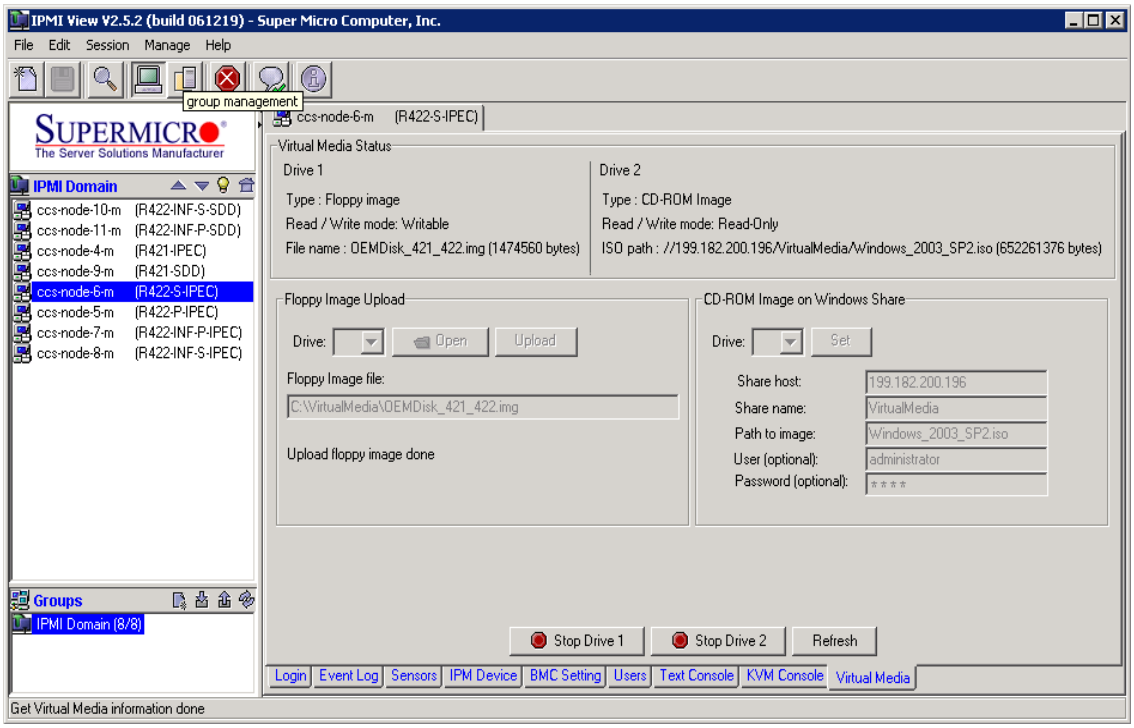
7. Copy the .ISO and/or .IMG image(s), above, into **C:\VirtualMedia**

8. Using the Virtual Media tab, Floppy Media Uploaded zone, Open **C:\VirtualMedia\OEMDisk_421_422.IMG** and click on **UpLoad** to create the Virtual Floppy on the Destination computer.



9. In the **Virtual Media** tab, CD-ROM Image on Windows share, specify the Windows image to install :

- **share host** is the IP address for the Technician computer
- **share name** is the Windows directory share name (**VirtualMedia**) where the Windows CD-ROM image is located
- **path to image** is the .ISO image of Windows CD to be installed (**Windows_2003_SP2.ISO**)
- **user/password** is the login/password used to access the above shared directory on the technician computer



On the Destination computer, you must have the virtual floppy and/or the Virtual CDROM. These virtual drives appear as follows in the boot order during the BIOS SETUP:

USB LS120 : PepperC Virtual Disc 1 is the Virtual Floppy Disk

USB CDROM : PepperC Virtual Disc 2 is the virtual CD-ROM

Under the Windows System, the virtual Floppy drives appear as standard **A:** or **B:** drives and Virtual CDROMs appear as standardl **E:** or **F:** drives.

Chapter 2. How to share the CDROM or floppy disk drive

On the Technician computer:

1. Install and configure **IPMI View** on the technician computer. The IPMI View software can be found on the Resources CD.

2. Create the **.ISO** image of the CDROM disc you want to have on the Destination computer (with a CDROM utility). Skip this step if you have already this image.

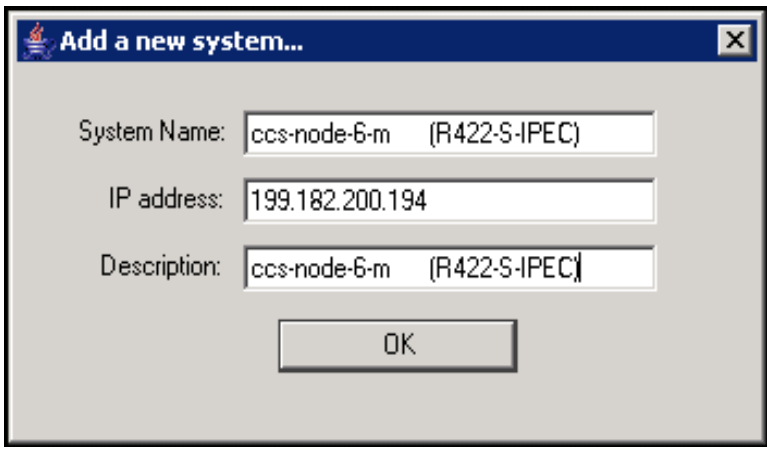
3. Create the **.IMG** floppy Image from the floppy disk you want to have on Destination computer by using the following tools :

   a. **Floppy Image Creator 5**
   Disk to file, file to disk floppy disk utilities, virtual floppy drive, SFX
   License: Shareware By: Tanon Technologies

   b. **Floopy v1**
   Floppy image creation tool
   License: Freeware Price: Free By: MaXPert Inc

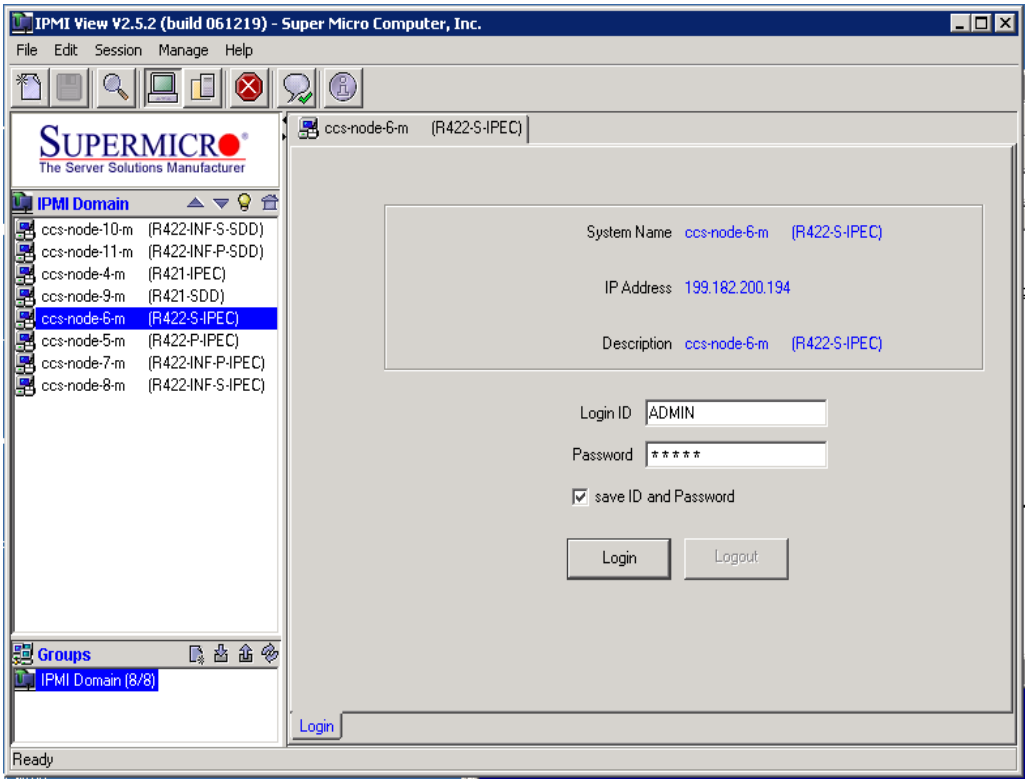
   c. **Diskcopy of FreeDOS**
   License : GNU

4. Under IMPI View, click **File ->New...->System** to add the destination computer in IPMI View. When the **Add a new system** dialog box appears, enter the AOC-SIMSO+ IP address of the destination computer.



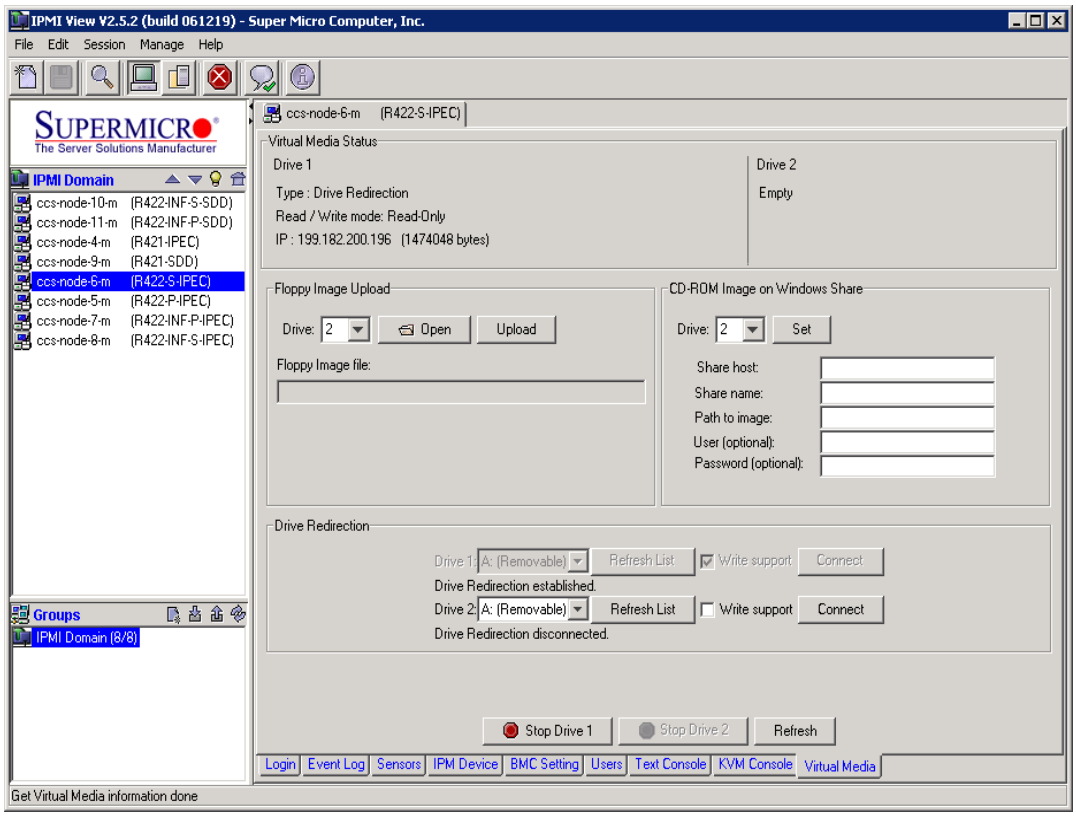
The new system is added to IPMI View (left panel)

5. Double Click on the newly added system to open a session for the Destination computer

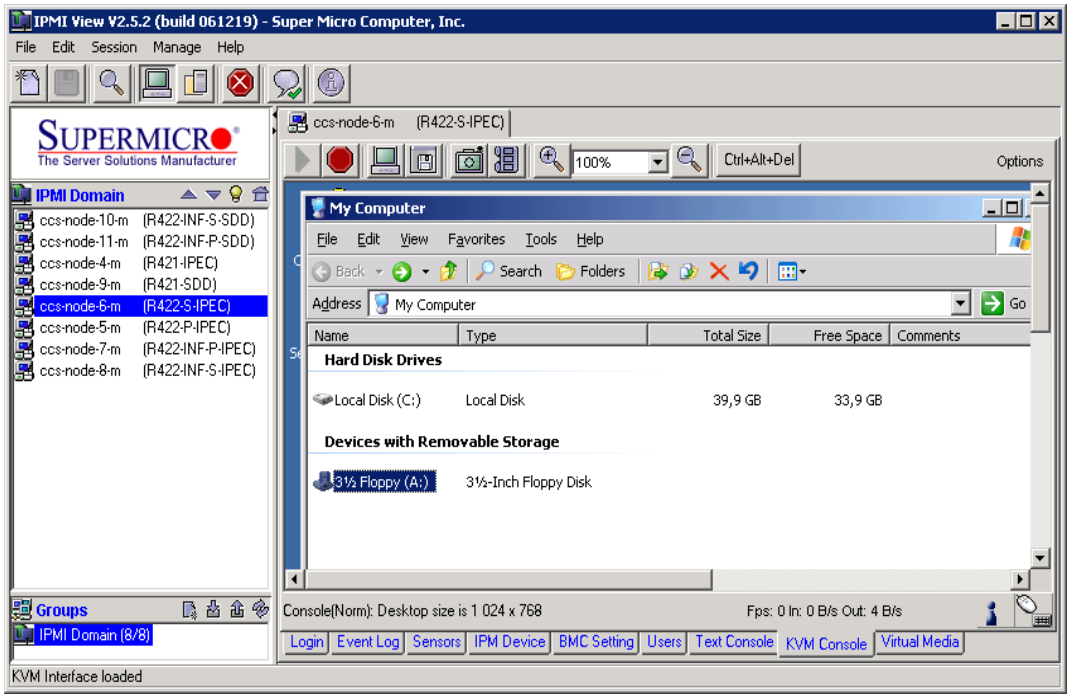


6. The default Login ID is **ADMIN**, which has the default password of **ADMIN**. Both the Login ID and Password are case-sensitive.

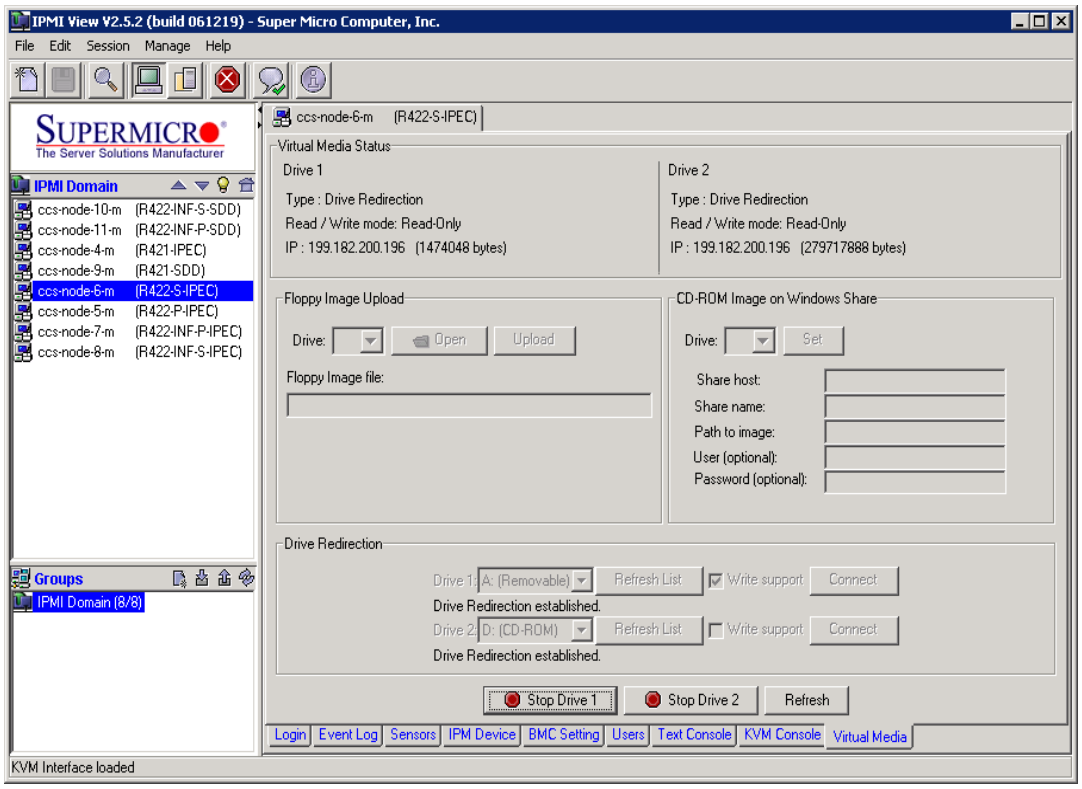
7. In Virtual Media tab, Drive Redirection zone, for Drive 1, select the local Floppy Drive you want to share with the Destination Computer and **Write support** to allow the Destination Computer to write to the Floppy Disk, then click on **Connect** to activate media redirection. The **Virtual Media Status** will be updated within 1 minute.



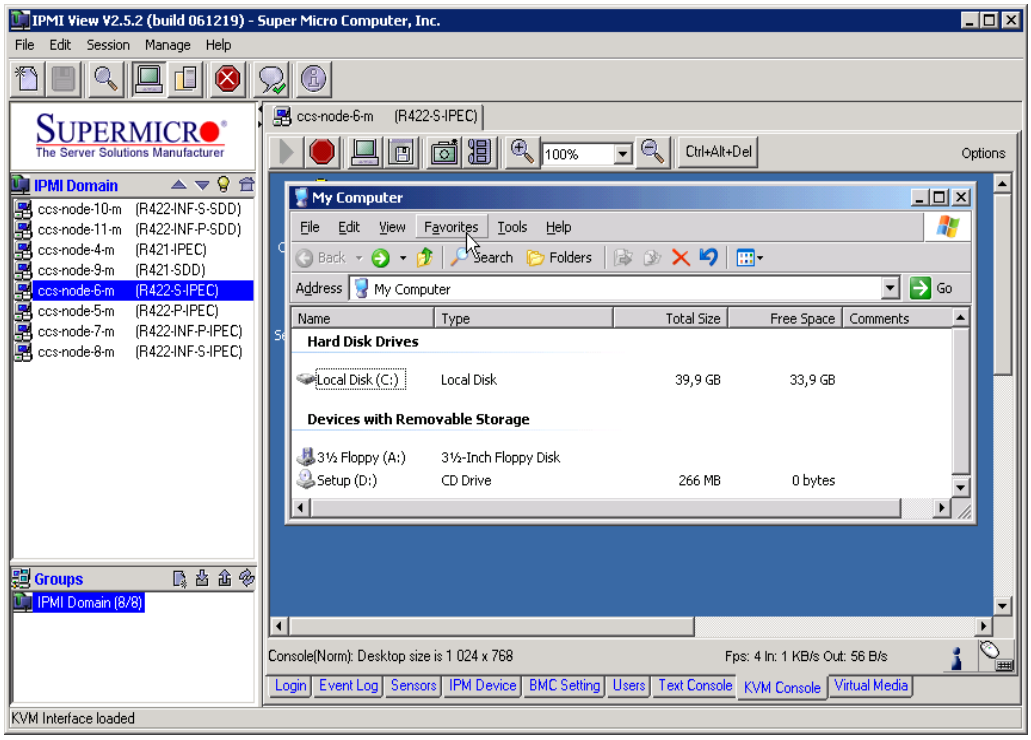
The Floppy Disk (A:) is now present on the destination computer, you can explore its contents and copy files into it, if the **Write Support** option was previously selected.



8. In Virtual Media tab, Drive Redirection zone, for Drive 2, select the local CDROM Drive you want to share with Destination Computer, then click on **Connect** to activate media redirection. The Virtual Media Status will be updated within 1 minute.



The CDROM drive (D:) will appear on the destination computer and you can explore its contents in the same way as with Windows Share.



If you restart the destination computer, the 2 drive redirections, above, will appear in the boot order as

- USB LS120 : PepperC Virtual Disc 1
- USB CDROM : PepperC Virtual Disc 2

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