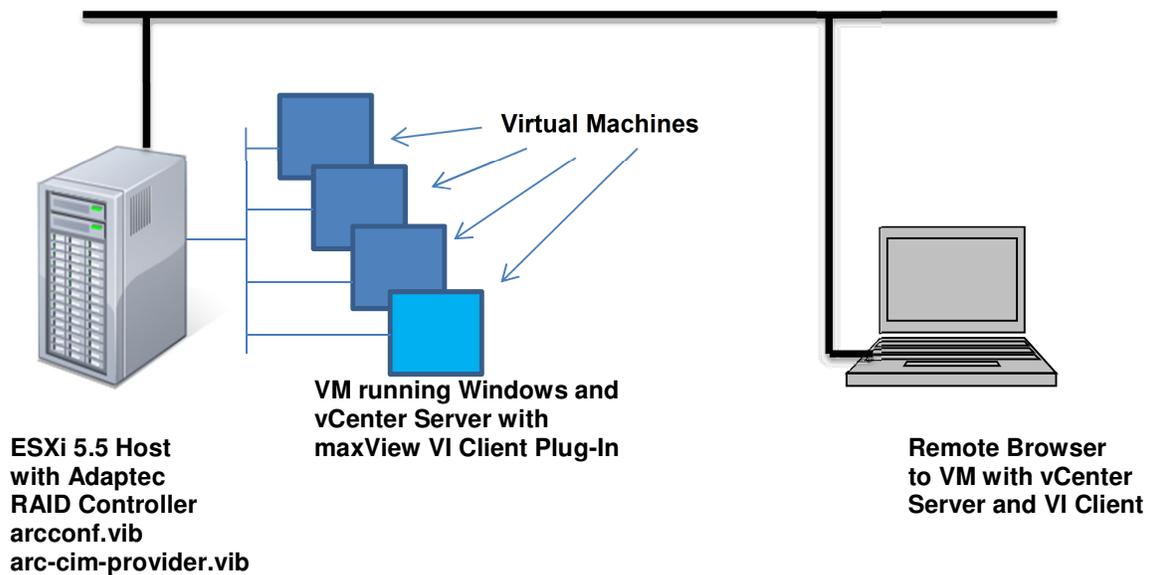


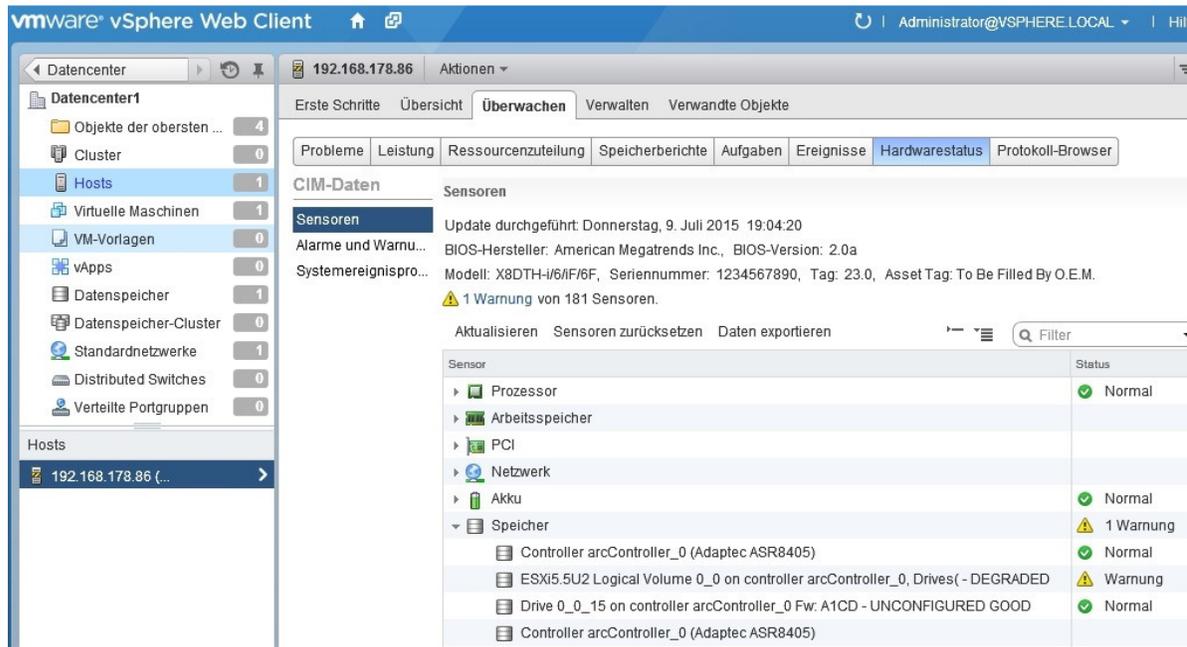
Installing the maxView Storage Manager web-based VI Client Plug-In on VMware ESXi 5.5

These instructions address the installation of the *Adaptec by PMC* plug-in to the VMware **web-based** VI Client. The web-based VI Client requires an installation of the Windows version of VMware's vCenter Server. Please refer to VMware's documentation for the installation of vCenter Server.

There exists a Windows and a Linux version of vCenter Server. The current *Adaptec by PMC* plug-in is for the Windows version of vCenter Server only. The vCenter Server software can be installed on a virtual machine (as depicted below) or on a Windows physical machine (not shown).



This maxView plug-in provides a “**read-only**” monitoring capability in the web-based VI Client. *Adaptec by PMC* controllers appear in the overall monitoring status as shown below in (the German version of) vCenter Server with a degraded RAID-1 and the corresponding warning.



When you install the *Adaptec by PMC maxView* plug-in (please refer to Appendix C http://download.adaptec.com/pdfs/user_guides/msm_v1_08_21375_users_guide_for_das.pdf), you can optionally choose to install the *Adaptec by PMC arconf* CLI on that same Windows machine. You can then access the controller(s) in the ESXi host with all of the read and write capabilities that you would have with arconf on a stand-alone machine containing the controller(s). Here, having seen the warning above, we open the CLI and investigate further, for example:

```

Administrator: Windows PowerShell

Command completed successfully.
PS C:\Users\Administrator> arconf getconfig 1 ld
Controllers found: 1

-----
Logical device information
-----
Logical device number 0
Logical device name           : ESXi5.5U2
Block Size of member drives   : 512 Bytes
RAID level                     : 1
Unique Identifier             : 0CDDCA2B
Status of logical device      : Degraded
Additional details            : Initialized with Build/Clear
Size                          : 2956950 MB
Parity space                  : 2956960 MB
Read-cache setting            : Enabled
Read-cache status             : On
Write-cache setting           : Enabled
Write-cache status            : On
Partitioned                   : Yes
Protected by Hot-Spare       : No
Bootable                      : Yes
Failed stripes                 : No
Power settings                : Disabled

-----
Logical device segment information
-----
Segment 0                     : Present (Controller:1,Enclosure:0,Slot:11) P8GR9A1U
Segment 1                     : Missing

Command completed successfully.
PS C:\Users\Administrator>

```

For further information please see

http://download.adaptec.com/pdfs/user_guides/cli_v1_08_21375_users_guide.pdf

Additionally, or exclusively, you can install the full version of maxView Storage Manager on a virtual machine residing on the ESXi host and have read/write capabilities to the controllers in that single ESXi host. Please refer to [maxView Installation Instructions for ESXi 5.5.pdf](#) included in this download.

The instructions included below are required to install the web-based VI Client. This information overlaps with the instructions for installing a full maxView version on a virtual machine. After completing these steps, please refer to Appendix C of this document in order to install the web-based plug-in.

http://download.adaptec.com/pdfs/user_guides/msm_v1_08_21375_users_guide_for_das.pdf

Basic Information

The maxView software (vibs and GuestOS Windows/Linux 32b/64b installation files) can be found here http://www.adaptec.com/en-us/speed/raid/storage_manager/msm_vmware_v1_08_21375_zip.php

This procedure requires one or more reboots. If virtual machines are running they should be shut down and the host should be placed in Maintenance Mode before beginning.

SSH on the ESXi host must be enabled - From the ESXi host console, select F2 and enter the root password. Select "Troubleshooting Options", then select "Enable SSH". Hit ESC twice.

Recommended tools are PuTTY, Secure Copy or similar. They are needed to communicate with the ESXi host from a remote system (SSH client). This link might be useful:

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

Installing the required vibs on the ESXi 5.5 host

1. PuTTY: Connect to the ESXi host through SSH, enter its IP address and port 22. Log in as root.
2. Ensure that the aacraid driver version 1.2.1-41021 or newer is installed on the ESXi host. From the SSH client:

```
SSHclient# esxcli software vib list | grep aacraid
scsi-aacraid      5.5.5.2.1.41021-1OEM.550.0.0.1331820  Adaptec_Inc
```

If that driver vib is installed, proceed to step 4. If an older version is installed, go to step 3.

3. Copy the aacraid vib to the SSH client. Then copy it to the ESXi host using Secure Copy.

For a Linux client:

```
# scp ./vmware-esxi-drivers-scsi-aacraid-550.5.2.1.41021.-
1.5.5.1331820.x86_64.vib root@<esxihost-ip>:/tmp/
```

For a Windows client, with pscp.exe and the vib file in the root directory, open a DOS window and change to that root directory. Then:

```
c:> pscp c:\vmware-esxi-drivers-scsi-aacraid-550.5.2.1.42021.-
1.5.5.1331820.x86_64.vibroot@<esxihost-ip>:/tmp/
```

Next, update the aacraid vib from the SSH client.

```
SSHclient# esxcli software vib update -v /tmp/vmware-esxi-drivers-scsi-  
aacraid-550.5.2.1.41021.-1.5.5.1331820.x86_64.vib
```

A reboot of the host is now required.

4. Check to see if previous instances of arcoconf and/or arcsmis and/or arc-cim-provider are installed on the host.

```
SSHclient# esxcli software vib list | grep arc
```

Example:

```
arcoconf      1.08-21375  Adaptec      unknown      2015-06-24  
arcsmis       1.08-21375  Adaptec      unknown      2015-06-24  
scsi-arcmsr   1.20.00.19-1vmw.550.0.0.1331820  VMware      can be ignored!
```

If arcoconf and arcsmis are installed, **and they are older than the versions shown above**, remove them:

```
SSHclient# esxcli software vib remove -n arcoconf  
SSHclient# esxcli software vib remove -n arc-cim-provider
```

5. If the vibs are older than shown above, copy those v1.08 vibs

```
vmware-esx-provider-arcoconf.vib  
vmware-esx-provider-arc-cim-provider.vib
```

from the SSH client to the /tmp directory of the ESXi host.

```
c:> pscp c:\vm*.* root@<esxihost-ip>:/tmp/
```

6. From the SSH client, stop the VMware CIM Agent and install the arcoconf vib immediately afterwards.

```
SSHclient# /etc/init.d/./sfcdb-watchdog stop
```

```
SSHclient# esxcli software vib install --no-sig-check -v /tmp/vmware-esx-  
provider-arcoconf.vib
```

If the host complains about the Acceptance Level of the arcoconf vib, reduce the Acceptance Level of the host and then execute the previous command lines again .

```
SSHclient# esxcli software acceptance set --level=PartnerSupported
```

7. Install the new arc-cim-provider vib.

```
SSHclient# esxcli software vib install --no-sig-check -v /tmp/vmware-esx-  
provider-arc-cim-provider.vib
```

8. Reboot the host and continue.