

VMware Healthcheck script

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Introduction:

Healthcheck is a Powershell script that reports information like **snapshots, VMware tools version, datastore space, CDROM and/or floppy drives connected, VM details** etc. to HTML and e-mail the output. This script can be scheduled so that for example you get every week a rapport in your mailbox with the status of the VMware environment.

Reason for creating this script:

As VMware Consultant I see a lot of common problems in VMware environments like:

- Snapshots are enabled and forgot the commit to the VM.
- Datastores are almost full (for example if snapshots are enabled)
- VMware tools versions are different
- CDROM and floppy drives are still mounted to the VM
- Virtual Machines have CPU and Memory limits or reservations (VMs are swapping)
- In the VM, the VMware Tools timesync option is not enabled

In the Virtual Infrastructure Client (VIC) it is difficult to see this sort of information. By creating a Powershell script, I can do a quick inventory. In a lot of VMware environments I created a scheduled tasks, so the script runs once a week and sent to HTML rapport to the administrator.

What does the script:

I wrote a Powershell script with HELP from the VMTN community that makes a HTML file and sent the output by e-mail to a person or distribution list. The Healthcheck script does the following checks:

- VMware ESX hardware
- VMware ESX versions
- VMware VirtualCenter versions
- Active snapshots

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- CDROM and Floppy drive(s) mounted to the VM
- Datastore information like capacity, free space and the percentage free space
- VirtualMachine (VM) information like VMware tools version, CPU, Memory reservations and limits etc.
- On what VMs VMware Tools timesync is not enabled

Requirements:

The following software must be installed:

Microsoft Powershell 1.0 (

<http://www.microsoft.com/windowsserver2003/technologies/management/powershell/download.mspx>)

VMware Infrastructure (VI) toolkit for Windows 1.0

<http://www.vmware.com/download/sdk/>

Set the ExecutionPolicy in Windows Powershell to RemoteSigned by using the following command:

set-ExecutionPolicy RemoteSigned

Installation:

- Unzip the Healthcheck.zip script to a directory on the VC server for example.
- When the ZIP is unpacked there are two files:
- Healthcheck.ps1, this is the Powershell script
- Style.CSS, controls the HTML layout

Configuration:

- Edit the Powershell.ps1 file

edit the following variables:

```
$vcserver="localhost"
```

Enter the VC server, if you execute the script on the VC server you can use the localhost name

```
$filelocation="D:\temp\Healthcheck.htm"
```

Specify the location where to store the HTML output

```
$enablemail="yes"
```

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Enable (yes) or disable (no) to sent the script by e-mail

```
$smtpServer = "mail.ivobeerens.nl"
```

Specify the SMTP server in your network

```
$mailfrom = "VMware Healtcheck <mailto:powershell@ivobeerens.nl>"
```

Specify the from field

```
$mailto = mailto:ivo@ivobeerens.nl
```

Specify the address where the e-mail to sent to

Usage:

Manually run the Healthcheck.ps1 script":

1. Open Powershell
2. Browse to the directory where the Healthcheck.ps1 script resides
3. enter the command:

```
./Healthcheck.ps1
```

To create a schedule task in for example Windows 2003 use the following syntax in the run property:

```
Powershell -command "& 'path\Healthcheck.ps1'
```

edit the path

```
Powershell -command "& 'path\Healthcheck.ps1'
```

edit the path .

Future:

- List Orphaned VMDK's
- Add performance information like VM usage
- Check timesync on the VMware hosts

Happy testing 😊