

User's Manual

Management of Esxi 5.x and 6.x with PowerShield³ and Powercli



vmware®

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1 Introduction

RPS Spa have tested these scripts successfully in a 5.5 and 6.0 VMware environment.

RPS Spa assumes no liability or warranty for any damage caused by the use of these scripts in your VMware environment.

IMPORTANT!

To be able to perform a vMotion, an Enterprise Plus license must be present in the **VMware ESXi**:

Enterprise Plus license

To operate the vMotion the script uses DRS (Distributed Resource Scheduler) VMware feature which automatically moves VMs when a host is put in Maintenance mode.



ALL OPERATIONS MUST EXCLUSIVELY BE CARRIED OUT BY QUALIFIED AND TRAINED PERSONNEL.

2 Requirements

1. At least one **ESXi 5.x or 6.x** host with virtual systems
2. The **VMware-Tools** should be installed. Under following link, it is possible to download the corresponding instructions guide:
http://www.vmware.com/pdf/osp_install_guide.pdf
3. A “**vCenter Server**“ or **computer** with **PowerCLI** and our UPS-Software **PowerShield/Upsmon** to manage the shutdown
4. The managing system can be a physical or a virtual system

<p>Notice: It is assumed that during installation and configuration you are logged in on the system as administrator all the time!</p>

3 Installation and configuration of PowerCLI

1. Download the PowerCLI from VMware:
<http://vmware.com/downloads/download.do?downloadGroup=PCLI510>

2. Install on the managing system the **PowerCLI**

Notice: **PowerShield³** is a **32Bit program** and therefor you have to start the **32Bit PowerCLI**. It might be that only **PowerShell** starts.

Then you must execute following command:

Set-ExecutionPolicy RemoteSigned

After this stop the **PowerShell** and restart the **PowerCLI**

3. Start und test **PowerCLI**:
Insert following command:

Connect-VIServer -Server [IP-Nummer]

Notice: It's possible that a login window appears. After insert "username" and "password", you will be connected with the managing system

The information on licensing can you ignore

Insert following command: **Get-VM**

If it works a list of **all** virtual systems appears which are managed by this system

Lastly, close the connection:

Disconnect-VIServer

4 Installation and Configuration of the UPS-Software and Scripts

1. Download from our website the current **PowerShield/Upsmon** and the **scripts**
2. Install **PowerShield³/Upsmon** on the managing system
3. Configure **PowerShield³/Upsmon**
4. Unzip the zipped file "**vCenter_scripts_xx**" and copy the scripts into the same directory where the file "**upsmon.ini**" are installed.

Depending from which Windows version are installed, following directories are possible:

"C:\Program Files\Upsmon"
"C:\Program Files (x86)\Upsmon"
"C:\Programme\Upsmon"
"C:\ProgramData\Upsmon" [This directory is hidden]

5. Change the path in file "**ups_shut.bat**" as described on point 4

-psc "C:\Program Files..."
-command "&{c:\ProgramData\Upsmon..."

6. Set the file "**ESXshutdown.ps1**" against your requirements and environment

<u>Variable</u>	<u>Description</u>
\$RUN_TEST	If this variable has the value " \$true " (default), only a test run is realised and the information found about the virtual systems and hosts are logged . Only if this variable has the value " \$false ", in addition to logging all virtual systems and hosts are shutdown .
\$SHUT_UPS_HOST	At end it's only possible to shutdown \$UPS_VM or \$UPS_HOST. Therefore you must configure, which of them to be shutdown. Default is \$true
\$VI_SERVER	Insert here the IP number of the vCenter Server or ESXi host.
\$UPS_VM	If this script running on a virtual machine, then you must insert in the variable \$UPS_VM the name of this VM. Because this system cannot be shutdown. Notice: If this script running on a physically system, then leave it blank.
\$UPS_PATH	Insert here the path, including a backslash at the end, of the installation directory. Default "c:\programdata\upsmon\"
\$UPS_LOG	Name of the log file. If it's blank no log file is written. Default "ups.log"
\$VM_KEY	This is the key to decrypt your login data. Notice: It must be the same as in "password.ps1"
\$DOWN_LOOP	Counter of how often to be tested wheter VMs are down. Default "3"
\$DOWN_SLEEP	Delay in seconds for the next loop. Default "10"
\$VM_DEPENDS	Only available if you use a "vCenter Server" . If you have dependencies between your VMs then you have to configure this part. Notice: For detail read the "ESXshutdown.ps1"
\$HOST_EXCLUDE	Only available if you use a "vCenter Server" . If you manage external hosts which not to shutdown. Please insert his/here hostname(s) in this array. Notice: For detail read the "ESXshutdown.ps1"
\$VM_EXCLUDE	Only available if you use a "vCenter Server" . If \$HOS_EXCLUDE configured please insert his VMs in this array. Notice: For detail read the "ESXshutdown.ps1"
\$VM_LAST	If you want VMs to shutdown at end please insert his name in this array. Notice: For detail read the "ESXshutdown.ps1"