POWERSHIELD TROUBLESHOOTING GUIDE



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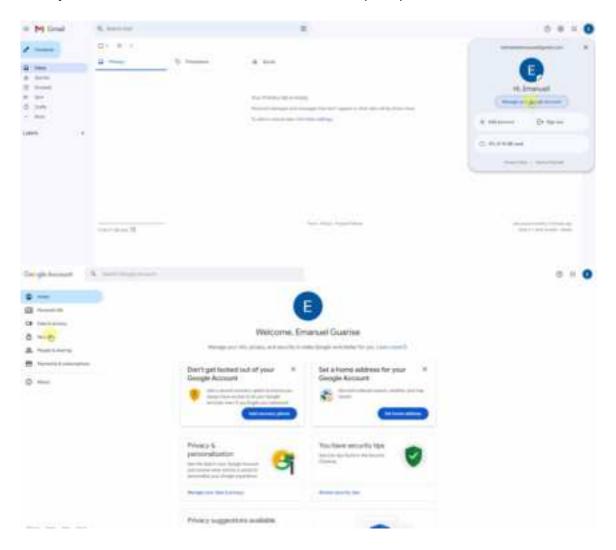
1. When should I enable the secure connection?

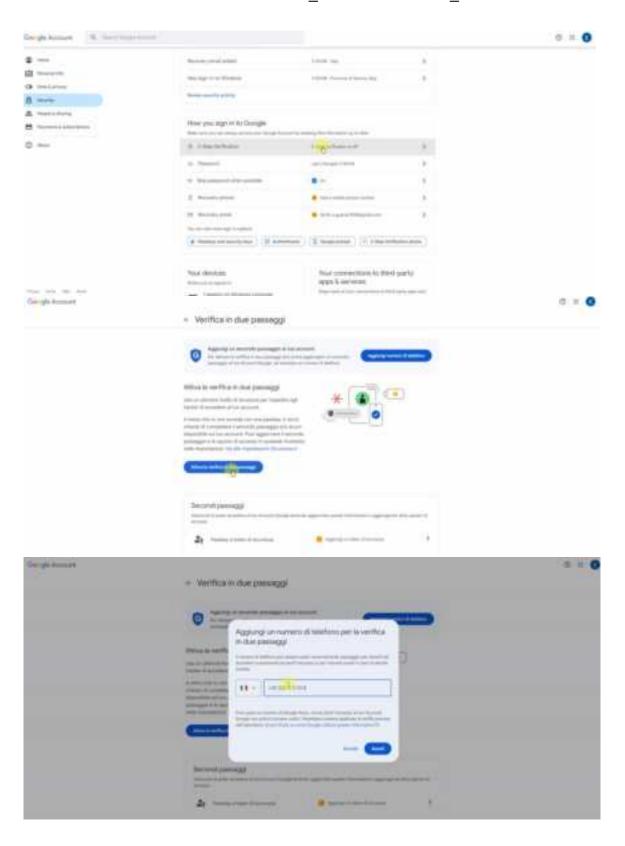
The secure connection field is disabled by default.

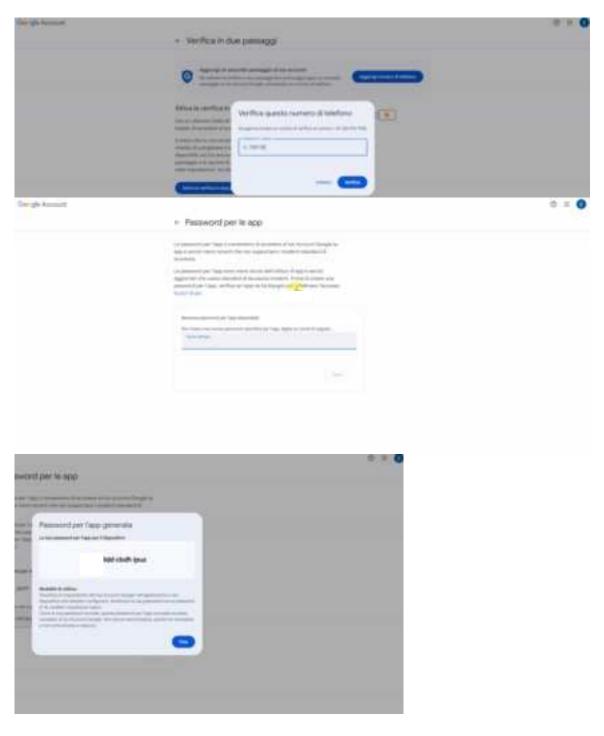
This function should only be used when using a NetMan certified for cybersecurity. It must not be used in any other cases.

2. What are the SMTP settings with gmail?

To configure Gmail as the mail provider it is essential to follow specific steps Firstly, ensure that two-factor authentication (2FA) is enabled on the Gmail account:







Please note that the app password generated by Gmail may include spaces. When entering this password into the Powershield, make sure to remove all spaces for proper functionality.

Next, use the app password generated in the Gmail account to enable the Powershield to send emails successfully

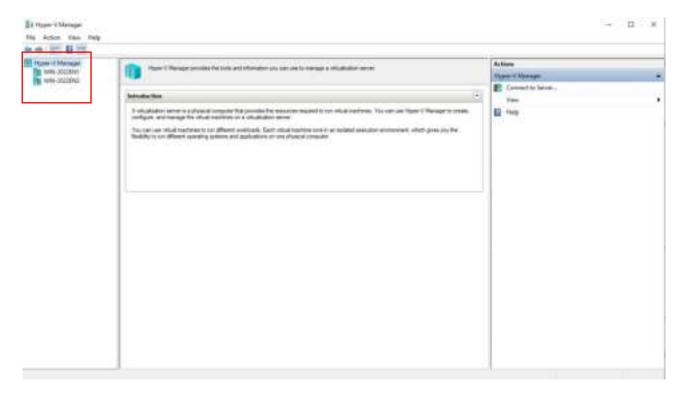
3. Is Poweshield compatible with Hyper-V management?

Powershield³ can manage **Hyper-V**. It's possible to shutdown the virtual machine and one or more host.

An example of the configuration of **UpsConfigHyper-V** is described as following.

3.1 How to configure Powershield to manage Hyper-V?

This is an example of the structure of a Hyper-V, where two or more hosts are available. This structure has been taken from the Hyper-V Manager that is running on the host Windows Server 2022 EN1:



Powershield3 has been installed in Windows Server 2022 EN1 (**WIN-2022EN1**) and UpsConfigHyper-V is present in this host. We can say that, for Powershield3, this is the **local host**. This is referred to as the local host because Powershield3 is running on it.

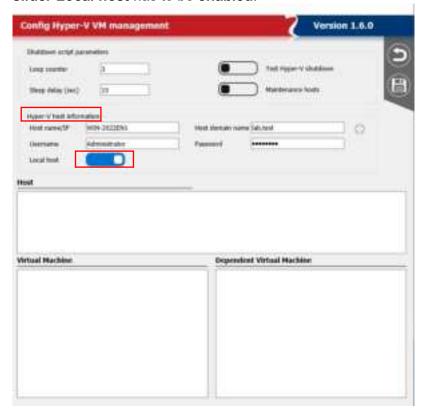
The first goal of this installation is to shutdown the virtual machines present in the host **WIN-2022EN2** and then to shutdown the host itself.

The second goal of this installation is to shutdown the virtual machines present in the host **WIN-2022EN1** and then to shutdown the host itself.

3.2 UpsConfigHyper-V configuration

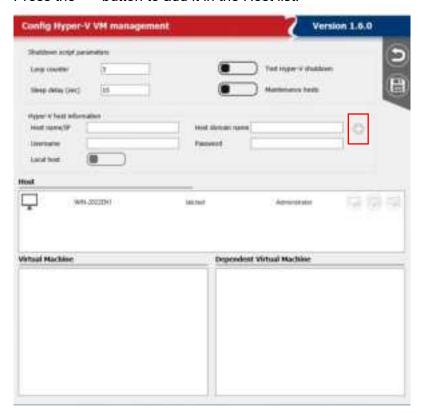
First, set the **Hyper-V host information.**

The first host that should be added is the host where Powershield³ is running (**local host**) and the **slider Local host** has to be **enabled**:



NOTE: The username (user) must be a local administrator account or in case it's not a local administrator account it must be added to the Hyper-V Administrator group

Press the "+" button to add it in the Host list:

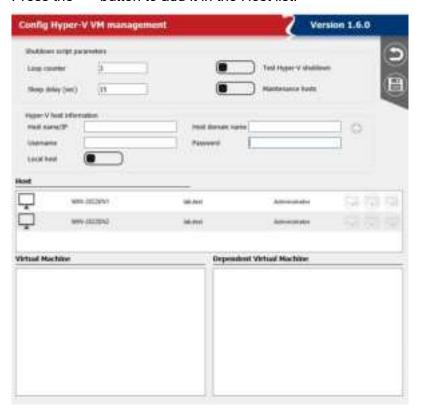


Then add all the other hosts. In this example, there is only one host left to be added. It's the **WIN-2022EN2** host. As it's not a local host, the slider is not to be enabled:



NOTE: <u>The username</u> (user) must be a <u>local administrator account</u> or in case it's not a <u>local administrator account</u> it must be added to the <u>Hyper-V Administrator group</u>

Press the "+" button to add it in the Host list:

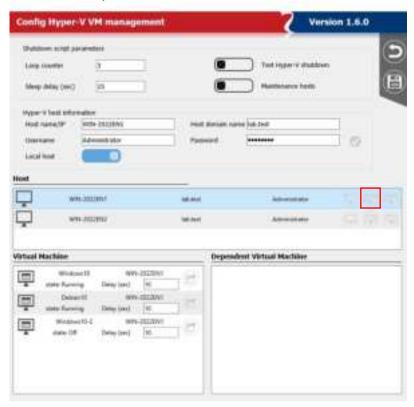


Repeat the action to add the hosts for all the hosts you want to manage / shutdown

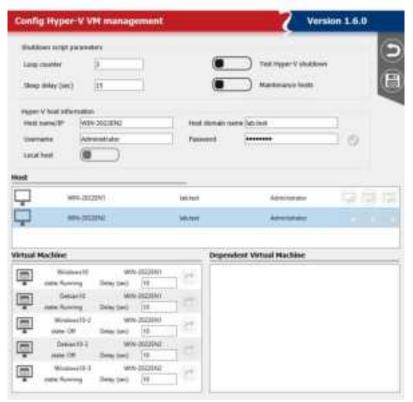
3.3 Retireving the virutal machines inside each host

Select the host and press the button "**Retrieve VM from host**" to get the virtual machine(s) running on that host.

Below **WIN-2022EN1** is selected and VMs are retrieved from it. You can see that three virtual machines are present in that host:



Below **WIN-2022EN2** is selected and VMs are retrieved from it. You can see that two virtual machines are present in that host:



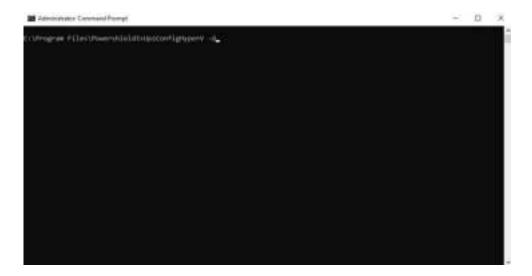
Note: not all the virtual machines are running. Some of the virtual machines are off.

3.4 Retireving the virutal machines inside each host

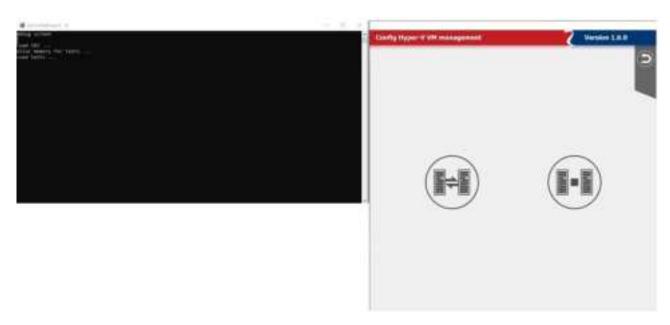
If it's not possible to retrieve the virtual machines from a host, it may be necessary to run the **UpsConfigHyperV** in **debug mode** to determine the cause.

To do so, you need to **open command prompt** and to set the proper directory where UpsConfigHyper-V is running.

Then run the command "UpsConfigHyperV -d":



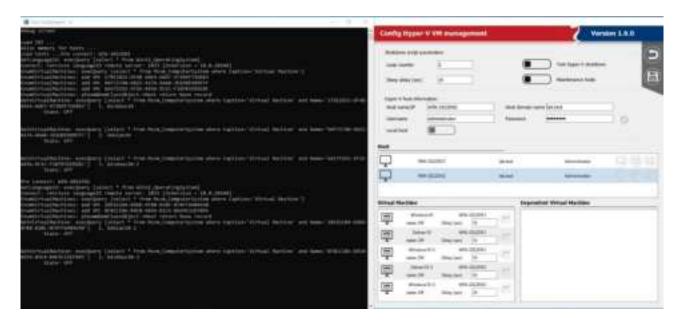
You will get:



Select "Configuring Hyper-V VM Shutdown", select the host, and select "Retrieve VM from host":



In the prompt window a log will be written, and the same log will be written in the file "debugs.log". In this file you will be able to determine the reason why the VMs cannot be retrieved. In case of further information, please send the file debugs.log to the service dept.



This procedure can be repeated for all the hosts.

3.5 Test Hyper-V shutdown

It's suggested to perform a test when the configuration have been completed.

Enable the "Test Hyper-V shutdown" with the slide and save:



From the directory "C:\ProgramData\Upsmon" run the file "ups_shut.bat"

The test can be performed ONLY running the file "ups shut.bat"

The test cannot be performed removing the mains from the UPS.

Once the file has been executed, you will find in the same directory a log file called "ups.log" where you can see the result of the test.

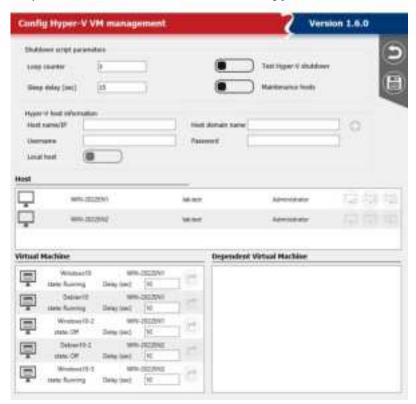
Taking as reference the above configuration, here the content of the file ups.log:

```
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of an into 12 mile fortune.
                                                                                                                                                                           sin-iscorni
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87-82-3825 12-86-54-5ne
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```

Note: In the log there will be present only the virtual machines that, in the moment of the shutdown, were running.

3.6 Hyper-V shutdown

To perform a real shutdown, the "Test Hyper-V shutdown" must be disabled:



Remove the mains on the UPS. The shutdown will be executed for all the virtual machines and for all the hosts.

NOTE: The host where Powershield3 is running (local host) will be shutdown last. To shutdown the host (local host), enable the shutdown in Upssetup:



In the file ups.log you will find the log of the real shutdown:

```
HVHutaweRFS.jssT.[RFW, H006]
88.02 2021 15:52:21 Start
88.92.3921 15:52:21 Hostname
                                                                  1 1419-2022000
00.02.2023 15:52:21 Major
00.02.2023 15:52:21 Major
00.02.2023 15:52:21 Multil
00.02.2023 15:52:21 05 Version
00.02.2023 15:52:21 05 Language
                                                                  | B
| 38568
| Microsoft Windows Server 2022 Standard
66,82,3925 15:52:31 ns independent VM(s) found for Shutdoor!
68.63.2633 15:52:21 Hottniee
                                                                   M3H-3603EHE
88.82,2823 15:52:21 Major
88.02,2823 15:52:21 Minor
88.02,2823 15:52:21 Bulld
88.02,2823 15:52:21 05 Vereton
                                                                18
8
20008
Microsoft Ideoles Server 2022 Standard
en-US
88.02.3925 15:52:21 05 Language.
00.02,2023 15:52:21 xxx Shuraknan all Independent MM(x)...
00.02,2023 15:52:21 Esecute shuradown : Windows18
08.02,2023 15:52:21 Esecute shuradown : Debiar18
00.02.2021\ ln:52:21 Mait 13 seconds, to give <math display="inline">W(s) time for statistics. 00.02.2025\ 15:52:36 Walt for statistics: | Mindows19 00.02.2021\ 15:52:36 Walt 13 seconds more..
08.03.3023 15:52:31 >>> Shutuban all Mosts adthout UPS-Most -> MIN-J0225NI ...
08.03.2023 15:52:51 Securis shutdoom : 403-20225NI
08.02.2023 15:52:52 Total elapsed time: 31.1654409 seconds
88.82.2821 11:52:52 Ded.
                                                                  | HVshutdoweRPS.psl (NEW, MODE)
```

4. How to setup a USB connection over MAC?

1. Stop Powershield/Upsmon service from command line by typing:

sudo launchetl stop com.rps.upsmon

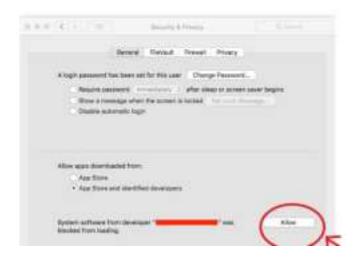
and pressing enter key

NOTE - It is recommended to use a user with root permissions

2. Verify if our application is allowed to load by following the steps shown in the screenshots below, it must be allowed:







- 3. Type cd /Library/Extensions and press enter
- 4. Type **Is** and press enter, for checking that in list appear **USBUPSDriver** items, and if so, do for each **USBUPSDriver** item command sudo kextload as below:
 - If USBUPSDriver is present, type sudo kextload USBUPSDriver.kext and press enter
 - If USBUPSDriver2 is also present, type **sudo kextload USBUPSDriver2.kext** and press enter
 - If USBUPSDriver3 is also present, type **sudo kextload USBUPSDriver3.kext** and press enter

. . .

NOTE – If kextload command not allowed, type **sudo kextutil** for each USBUPSDriver

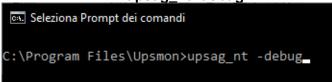
- 5. Repeat step 2
- 6. If the USB cable is connected, disconnect and reconnect it
- 7. Restart the Powershield/Upsmon service from the command line by typing: sudo launchctl start com.rps.upsmon

and pressing enter

5. How to run upsagent in debug?

If a communication issue occurs, you can run UpsAgent in debug mode to generate a debug file, which should then be sent to the service department for analysis.

- 1. Open prompt
- 2. Open C:\Program Files\Upsmon directory or C:\Program Files\Powershield3
- 3. Run the command upsag_nt -debug



This window will apperar:

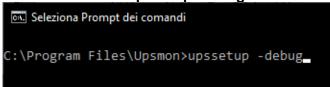


- 4. Stop the debug after 20 or 30 seconds pressing ctrl+c
- 5. Open C:\ProgramData\Upsmon
- 6. Locate the file **debug.log** and send it to your service contact

6. How to run upssetup in debug?

If a mail issue occurs, you can run UpsSetup in debug mode to geenrate a debug file, which should then be sent to the service department for analysis.

- 1. Open prompt
- 2. Open C:\Program Files\Upsmon directory or C:\Program Files\Powershield3
- 3. Run the command **upssetup -debug**



This window will appear:



4. Open Mail and messages and perform a test mail command, this window will appear:



- 5. Leave the above window running till the end
- 7. Exit from the UpsSetup window
- 8. Open C:\ProgramData\Upsmon
- 9. Locate the file **debugmail.log** and send it to your service contact

Changelog

DocRev	Data	Change
rev00	28/03/2025	First release