

VMShutdownManager

Reliable and Structured Shutdowns and Restarts of Complex Data Center Environments!

Although unpopular with both users and administrators, shutdowns are sometimes unavoidable. Whether it's a planned shutdown for moves and repairs or an unplanned shutdown due to blackouts or power interruptions, complex IT infrastructures require strict adherence to the correct shutdown sequence of individual components. Unfortunately, errors in the shutdown and restart processes may lead to unintended consequences (e.g. extended interruptions, process errors, or data loss). To avoid such

errors, some employees must focus intensely on executing all necessary steps in exactly the right order, but this leaves many other employees idle, costing the company both time and money.

With the VMShutdownManager, the shutdown and restart process becomes automated, coordinated, and surprisingly simple. This offers correct shutdown sequencing for all components in complex data center environments, preventing errors and loss of time for the company.



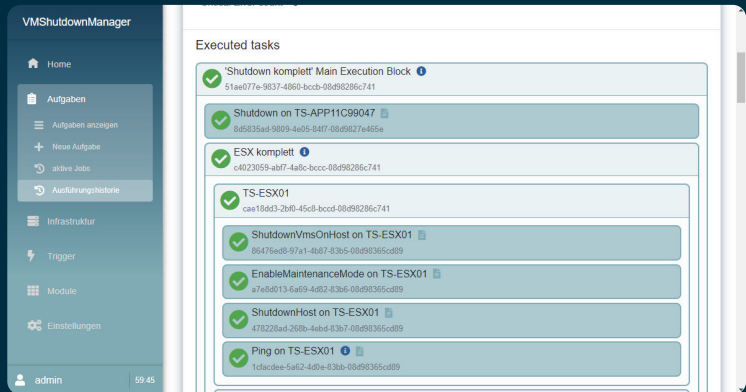
All individual components (such as SAN systems, virtualization hosts, etc.) are registered in the configuration process. The graphical user interface makes it easy to define various execution plans. At the same time, individual triggers link these to specific events (such as a power outage) and ensure integration with the UPS. When an event occurs, the corresponding execution plan is automatically started, and individual tasks are conducted through standardized interfaces. This standardized interface means that no

software needs to be installed on the individual target systems. With VMShutdownManager, even comprehensive and multi-stage scenarios can be structured using various blocks that can be executed parallel or serially. Due to its modular design, the VMShutdownManager can easily be extended to address additional target systems, significantly simplifying the process, and ensuring a smooth and coordinated shutdown and restart of complex server environments.

VMShutdownManager

Use-case scenario with the VMShutdownManager:

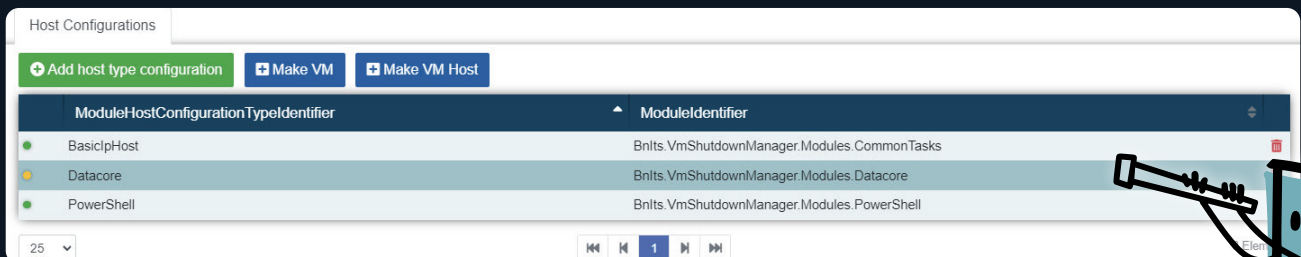
In a typical shutdown, the VMs are shut down first in a defined sequence. SSH or PowerShell scripts can also be executed automatically on the individual target systems during this process. Next, the ESXi hosts are put into maintenance mode and shut down. Finally, the SAN systems are shut down.



Easy to Use - Hard to Endanger!

The VMShutdownManager is operated through a modern web interface that runs in your browser. To ensure the system's smooth operation, automatic connectivity tests run hourly in the background and every time there is a modification or expansion to the

VMShutdownManager configuration. The results are immediately visible in the user interface. In the event of a connection issue, an email notification is automatically sent to the system administrator or other designated person.



System Requirements & Compatible/ Tested Systems

For the operation of the VMShutdownManager, a physical machine with Windows OS (from Windows 10 or Windows Server 2012 R2 onwards) is required. We recommend using the Chrome or Edge browsers for accessing the web interface.

Additional requirements:

- DotNetCore 5 Hosting Bundle (Version 5.0.13)
- Microsoft SQL Server (SQL Express)
- TCP/IP connectivity between the VMShutdownManager and the systems to be managed

Currently, VMShutdownManager supports following components:

- VMware (vSphere 5.5 to vSphere 8.0)
- Any systems with SSH access (e.g., vCenter Server, open-e DSS, Synology DSM, QNAP QTS)
- Current Windows systems with enabled PowerShell remoting
- DataCore SANsymphony (from version 10.0)

Additional SAN and NAS systems can be integrated in the future through supplementary modules as needed.

vmShutdownManager

Your advantages:

- + Proper shutdown of all configured components.
- + Freely configurable shutdown and start up sequences via a graphical frontend.
- + Compatible with most UPS manufacturers.
- + Works with any data center infrastructure by operating on independent hardware.
- + Ability to execute defined commands before shutdown (e.g. stopping a service).
- + Automatic and routine connection tests with a disruption alert system.
- + Modular design allows for easy and flexible extensions.
- + Ability to define multiple execution plans for different UPS systems.
- + No installation of agent modules or similar software on hardware components and virtual machines is required.

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