

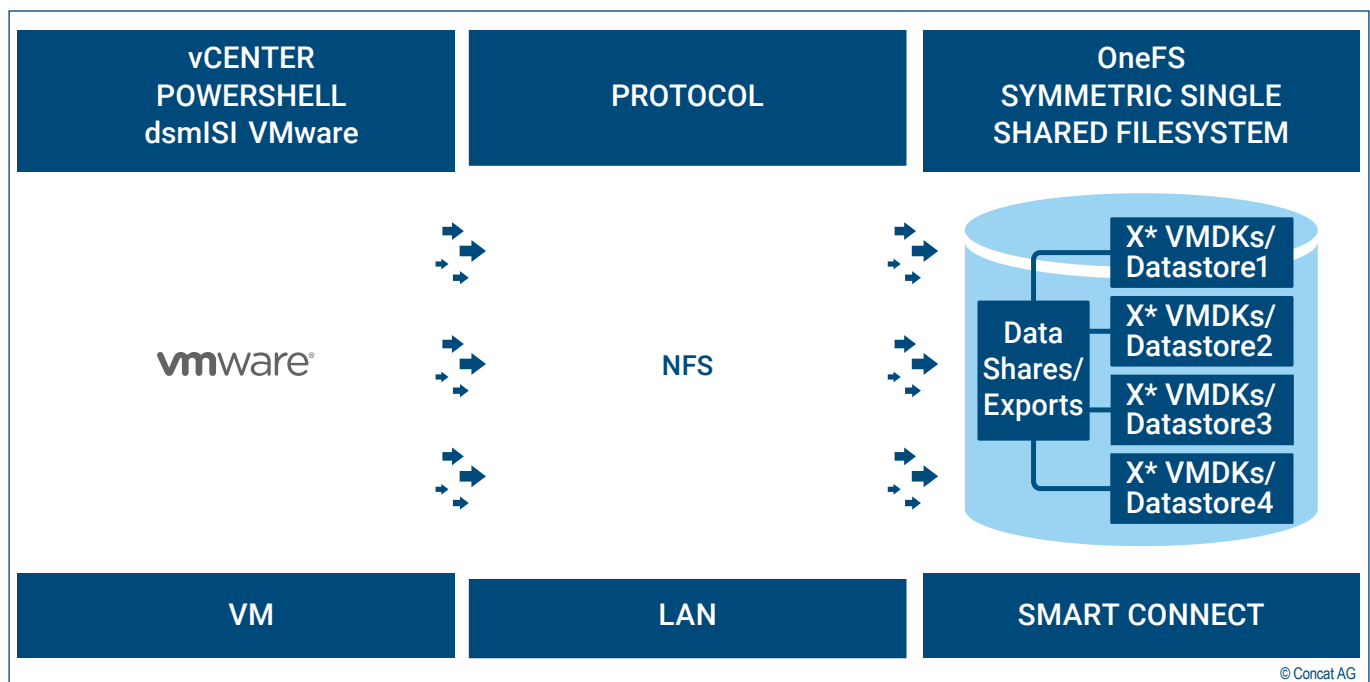
dsmlSI for VMware

**Maximum throughput of
PowerScale as VMware Datastore**

dsmlSI
vmware®



With dsmlSI for VMware, Concat AG and General Storage* are launching a new module. The solution is aimed at customers who want to use VMware efficiently with Dell PowerScale.



dsmlSI for VMware enables organizations to integrate VMware and PowerScale (OneFS scale-out NAS) in an almost fully automated manner.

dsmlSI ensures that maximum throughputs of PowerScale clusters are achieved when used as VMware datastores. At the same time, the software provides automated and easy-to-manage monitoring for capacity and performance utilization. dsmlSI for VMware uses VMware's standard APIs to communicate with vCenter via PowerShell.

Datastores and Virtual Machine Disk files (VMDK) are automatically distributed on PowerScale in such a way that a symmetrical utilization of the nodes of a PowerScale cluster is guaranteed. In the event of a node expansion of the PowerScale cluster, this distribution is automatically adjusted with dsmlSI for VMware in order to make optimal use of the additional resources at all times.



With dsmlSI for VMware, capacity distribution is generally based on throughput requirements. A classic, capacity-based distribution would be pointless, since in a PowerScale cluster the capacity across all nodes always represents the sum of all capacities.

Rebooting an affected VM activates an updated distribution as needed. No data is physically moved during a re-configuration. It merely ensures that a VMDK is accessed via a different datastore/node.

Since PowerScale is a single distributed file system, all data is write and read active/active across all nodes at all times.

dsmlSI for VMware also enables monitoring for performance utilization and capacity planning. Even in a large environment with thousands of VMDKs, petabytes of data and a correspondingly large number of PowerScale nodes, VMs and VMDKs, administration and monitoring thus remain simple, and the advantages of PowerScale's unrivaled scalability remain manageable even with rapid expansion. Operating costs remain low.

dsmlSI for VMware supports all applications that want to use a PowerScale environment in VMware. It is important to note that this solution makes most sense with applications generating a sequential workload, as PowerScale is less suitable for transaction-oriented access patterns (random workload).

In general, however, dsmlSI for VMware is suitable for all applications prioritizing capacity and scalability over latency (e.g. backup applications such as Spectrum Protect Plus).

dsmlSI for VMware supports protection against ransomware attacks based on PowerScale snapshots, which can be triggered application-consistently via dsmlSI on PowerScale.

In addition, it is possible to store data worth protecting that is required for recovery with backup software (scripts, install images, documentation, etc.) on the PowerScale cluster and prevent manipulation using hardware snapshots. This also lays the basis for copying such data to tape and/or other targets if necessary.

dsmlSI for VMware thus offers the possibility to optimally use and easily manage scale-out NAS for VMware datastores and as classic NAS storage.

Advantages and Benefits:

- Easy integration of PowerScale scale-out NAS storage with VMware
- Seamlessly grows from a few hundred terabytes to many dozens of petabytes
- Automatically distributes VMDKs across datastores in seconds with no data movement at all
- Maintains manageability – even with thousands of VMDKs
- Reliably secures the entire environment against ransomware through non-manipulable integration of PowerScale hardware snapshots

