

Storage Policy Based Management

Integrating Data Protection into Storage Policies with Dell EMC PowerProtect Data Manager

Eliminate Policy Proliferation

- Assign protection policies from within the native vSphere environment, using well-known, established workflows
- Manage data protection strategies, governing underlying storage (vSAN or vVols) as well as cloud management solutions, with one set of policies.
- Protect VMs at scale providing peace of mind and more efficiencies at scale

Integration with vSphere

- Data Protection from the native vSphere interface
- Proactive assignment of VMs to Data Manager policies
- Monitoring and triggering backup and restore from vSphere console
- Driving consistent behavior across Data Manager and vSphere console.

Automate & Simplify

- Proactive approach to data protection with vSphere automation
- Integration with vRealize Automation (vRA) with one set of policies governing all underlying storage and cloud management solutions
- Inclusion of data protection into mainstream conversation through direct integration of protection policies with the storage provisioning strategy

Innovations at Work to Eliminate Policy Proliferation

The ability to quickly and easily create virtual machines (VMs) allows environments to scale on demand and is a key part of why virtualization gives businesses such an advantage. That said, many customers today are not only dealing with VM sprawl, but VMs and the associated data protection strategies are managed by different teams.

When new VMs are added, data protection is often an afterthought – and the backup team is not taking note of all the new VMs or more importantly, their lifecycle.

When it comes to VM data protection, there is often disconnect at the center of VM data protection strategy. There is a lack of coordination between development and operations teams and the backup admins that creates opportunities for data protection for a wide range of VMs to simply fall through the cracks. As the scope and number of VMs continue to grow, it becomes increasingly difficult to ensure that every VM is in fact discovered and its data protected from loss or failure.

Although customers can leverage vSphere’s Storage Policy Based Management (SPDM) capabilities to overcome some storage provisioning problems in the traditional model for VMs, there’s no integrated capability to address the data protection needs.

PowerProtect Data Manager: Integration with vSphere

Working closely with VMware, a new feature of PowerProtect Data Manager offers native vSphere integration of Data Manager policies with VMware storage policies taking the guesswork out of VM protection. Data Manager provides next generation cloud data protection for database workloads, Kubernetes containers, virtual machines and filesystems. Data Manager makes meeting your real-time business needs easier to obtain and enables you to drive new business outcomes.

The integration of Data Manager with vSphere for Storage Policy-Based Management lets users pair storage and protection policies so users can meet their VMs storage and protection needs within vSphere without having to use a separate interface for protection. Data Manager protection policies can now be assigned by the vAdmin from within the native vSphere environment, using well-known, established workflows.

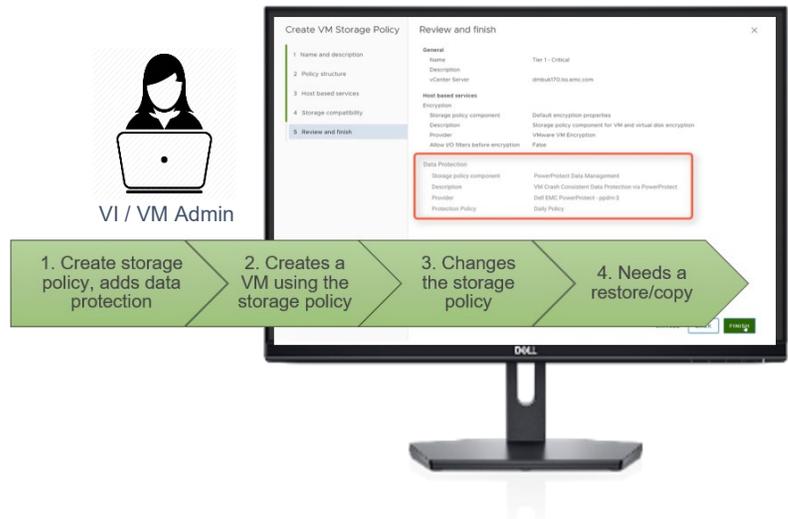
With this feature, users will be able to:

- Add new or existing assets to a policy; then reassign and remove assets
- View the status of policy compliance, including data protection information
- Establish persistent, continuous policy association after VM recovery
- Have data protection already defined when VMs are created and establish data protection as a primary benefit to storage and strategic provisioning
- Protect VMs at scale and help admins overcome upfront challenges such as capacity planning, differentiated service levels and manage capacity resources

Automate & Simplify

With vSphere automation, there is a proactive approach to data protection. This visibility avoids most of the confusion due to various operations performed by the two admins and, hence, reducing costly mistakes. There is also the ability to work with vRealize Automation (vRA) to automate policies so administrators have one set of policies ruling all underlying storage (vSAN or vVols) as well as cloud management solutions. This brings simplicity to a whole new level - just the way it should be.

Storage Policy Based Management is the vSphere administrator's answer to take more control within their environments. It is also the backup administrators' key to making data protection a mainstream conversation, by integrating protection policies directly into the storage provisioning strategy.



How does it work?

Dell Technologies and VMware provide customers with a trusted solution to manage VMs at scale, create automated protection policies where users are managing many VMs or customers are using storage policies to manage their VM footprints, and aligning the storage with application demands of your VMs.

1. With Data Manager, users register storage awareness through vSphere so that storage provisioning information flows between PPDM and vCenter.
2. Within vCenter's storage policy component creation workflow, users then select the Data Manager storage awareness provider which will expose the list of Data Manager protection policies to be selected by the user.
3. Users can now assign the preferred protection policy to a storage policy that will be automatically assigned to the VMs when they are instantiated.
4. Users are now able to monitor the status of storage compliancy of their assets that are protected by Data Manager within the vSphere interface.

Thanks to the tight vSphere integration of vCenter and Data Manager, storage and backup admins as well as VM owners can choose a storage policy that will be applied to every VM automatically when it is instantiated—with no intervention needed. Data Manager also includes powerful monitoring tools to ensure compliance and governance mandates are being met and to ensure that desired protection is in place. Should a loss occur, Data Manager applies a persistent, continuous policy association even after VM recovery to ensure smooth, uninterrupted operations.

The result is the simplification of VM infrastructure, with integration of VM data protection from inception. In this manner, data protection is no longer an afterthought but a part of the VM lifecycle, whether the VMs reside on premises, in the cloud or in a hybrid environment.

Dell Technologies and VMware

Customers have a sustainable advantage working with Dell Technologies and VMware by taking a proactive approach to monitoring and protecting their storage infrastructure, and now it is easier than ever with storage policy-based management. This provides peace of mind, monitors the status of storage compliancy of assets, and provides more efficiencies at scale. With Storage Policy Based Management, Dell's deep integration with VMware becomes essential to a successful long-term business continuity and data protection strategy.

Learn more: www.DellTechnologies.com/DataProtection