



**NetApp®**  
Go further, faster



Software

# NetApp Provisioning Manager

Speed provisioning workflows and boost capacity utilization with our automated provisioning solution

## KEY BENEFITS

**Enable business-policy compliance**  
Standardize provisioning processes for a consistent and repeatable method of storage delivery.

**Limit risk of data loss**  
Reduce the risk of data loss due to misconfigured storage with our policy-based automation.

**Maximize storage efficiency**  
Deliver high storage efficiency via thin provisioning, deduplication, and resource pools.

**Leverage advanced capabilities for virtualization and cloud support**  
Perform online migration using NetApp® Data Motion™

- Define a service catalog with storage services
- Provision MultiStore® vFiler™ units

## THE CHALLENGE

**Reduce provisioning complexities**  
Provisioning your company's storage resources is a complex job. There are lots of choices to make, and—given the manual processes most businesses use—there's lots of room for error. Most tools used to provision storage don't give you much room to configure the type of data your users and applications demand. Instead of maximizing your storage resources, you end up with poor storage utilization or, in some cases, the possibility of data loss.

If you're a cloud service provider or an enterprise moving to full virtualization or a cloud infrastructure, you need a single tool that eliminates storage provisioning complexity with simple, repeatable processes that make it easy to define and deliver the exact services your customers need.

## THE SOLUTION

**Streamline provisioning with Provisioning Manager**  
You can increase operating efficiency and eliminate hands-on complexity by streamlining the provisioning process with our Provisioning Manager solution. Because it's easy to use, you no longer have to be concerned with the complexities of the underlying storage.

Integration with Protection Manager allows you to provision and protect data at the same time. The moment you provision storage, you protect it. No additional steps or time are required. Provisioning Manager lets you:

- Automate complex provisioning processes.
- Leverage storage services to define and manage your service catalog.
- Check policy conformance.
- Provision storage within the confines set by the storage administrator.
- Easily migrate data sets between storage systems without disrupting access.
- Automate deduplication and thin provisioning and immediately see the benefits.

## REDUCE RISK OF ERRORS

Provisioning storage is efficient and accurate with Provisioning Manager. You can proactively manage your storage infrastructure and virtually eliminate the inherent potential for human error that comes with manual management. When you open Provisioning Manager, you see an at-a-glance dashboard that displays a variety of data metrics, including:

- Capacity utilization
- Snapshot™ usage
- Deduplication savings
- Space management events

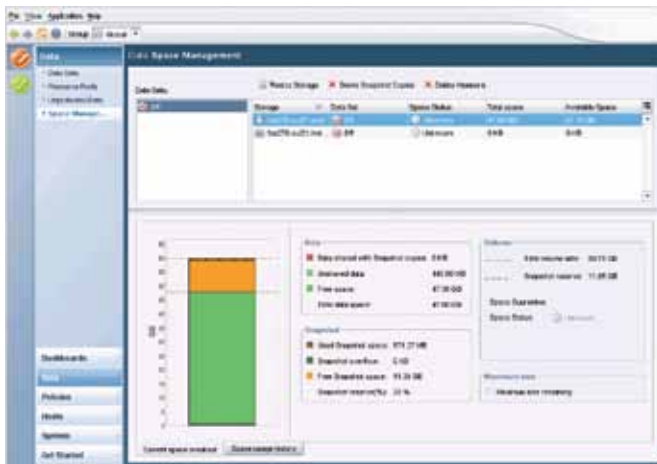


Figure 1) Provisioning Manager provides policy-based space management and reporting.

With this information, you can create policies that match the configuration of LUNs, volumes, and qtrees with their intended uses. You can then automatically apply those policies when new storage requests arrive, whether directly through the Provisioning Manager user interface or from other applications such as SnapDrive®, minimizing the risk of human error. Provisioning Manager notifies you when storage resources get out of conformance with policies you've set, allowing you to rectify the situation before it becomes a crisis.

### INCREASE PRODUCTIVITY

Provisioning Manager is intuitive and easy to use. With just a few clicks you can drill down to detailed information about your storage system. By replacing repetitive, time-intensive tasks with policy-based automation, your storage administrators become more productive. And the role-based access control on the centralized console makes it possible for server and database administrators to perform self-service provisioning. Because these tasks are only performed within the limits of policies defined by your IT architects based on your company's business requirements, the system remains stable and efficiently configured.

Policies include:

- Capacity
- Storage reliability
- Space provisioning requirements
- Access mechanisms
- Security settings

### MAXIMIZE STORAGE EFFICIENCY

To help make sure that you maximize use of your resources, Provisioning Manager includes multiple storage efficiency features. With Provisioning Manager you can automate thin provisioning and deduplication, eliminating unnecessary overprovisioning and providing storage to your users only when they need it.

Provisioning Manager resource pools provide more efficient aggregation of resources, freeing your administrators from worrying about which physical resources are the most appropriate for a given request. The software automatically selects the best resource to meet a provisioning request. As resource pools approach full allocation, Provisioning Manager notifies your storage administrators and suggests ways to increase available space.

### SIMPLIFY DATA MIGRATION AND LIFECYCLE MANAGEMENT

No matter how careful you are with your data placement, situations arise in which data sets need to be moved from one storage system to another to balance workloads or to satisfy other requirements. This process can be extremely complex, time consuming, and disruptive.

Provisioning Manager can take the complexity out of data migration. With just a few clicks, you can initiate NetApp Data Motion to migrate data between your NetApp storage systems without disrupting users or applications that are accessing that data. Maintenance, hardware and software upgrades, and technology refreshes can be conveniently performed by moving all data off a storage system, performing the desired activity, and then moving the data back.

### STORAGE SERVICES SIMPLIFY MANAGEMENT

With Provisioning Manager Storage Services you can quickly create services that automatically inherit a defined set of policies, resource pools, and MultiStore vFiler

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templates. These services can be used to create a storage service catalog. When you change a policy for a particular storage service, the policy change automatically applies to all data sets using that storage service. These services can be used to create a storage service catalog.

#### **CREATE EFFICIENT CLOUD SERVICES**

For those who are creating cloud services, moving toward a more cloudlike infrastructure, or supporting an advanced virtual environment, Provisioning Manager offers the capabilities you need:

- Flexible and efficient provisioning to meet the needs of the busiest infrastructures
- NetApp MultiStore vFiler provisioning for secure multi-tenancy
- NetApp Data Motion for lifecycle management activities—because planned downtime is impossible in highly shared environments
- Provisioning Manager Storage Services to build your service catalog

#### **MANAGE FROM A BUSINESS PERSPECTIVE**

Our goal is to help you manage data from a business perspective. That's why we made Provisioning Manager a key component of our Manageability Software Family, a comprehensive software solution set that enables administrators to manage data across applications, databases, servers, and storage. The software provides common management services, integration, security, and role-based access controls. The NetApp Manageability Software Family offers data and storage management tools that increase productivity, storage efficiency, and agility for organizations of all sizes.



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NetApp creates innovative storage and data management solutions that accelerate business breakthroughs and deliver outstanding cost efficiency. Discover our passion for helping companies around the world go further, faster at [www.netapp.com](http://www.netapp.com).

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