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5.8 Storage Spaces

As you study this section, answer the following questions:

- What components are used to create storage spaces?
- What is the difference between a storage pool and a storage space?
- Which hardware devices can be used to make storage pools?
- What are the benefits of using storage pools?
- You are comparing the hardware required for two-way mirroring and three-way mirroring. What is the minimum number of disks required for each data resiliency type?
- How does thin provisioning allow you to allocate more storage space to users than is available in the pool?

In this section, you will learn to:

Implement storage spaces

Key terms for this section include the following:

| Term | Definition |
|-----------------------------|---|
| Storage Space | A Windows function that allows you to group physical disks into storage pools and create virtual disks from the available capacity. |
| Parity | Parity requires that you have at least three storage devices. It uses parity information to reconstruct data if one of the storage devices fails. Parity uses less space for redundancy than the mirror options, but performance is not as good as the mirror options if a device failure occurs. Parity requires only 50 percent more redundancy space than storage space. |
| Simple data Provisioning | This option simply adds space from the storage pool to the storage space. When you select the Simple option, all of the data in the storage space is lost if one of the drives fails. |
| Thin provisioning | An option that allows you to allocate larger storage spaces than the disk space available in the pool. |
| Three-way mirror | Three-way mirror requires at least five storage devices. The data is written to three storage devices. This option provides redundancy for the data if two storage devices fail at one time. |
| Two-way mirror | Two-way mirror requires at least two storage devices. The data is written to two devices. Two-way mirror requires twice as much device space as the amount of storage allocated to the storage space. This option protects you from a single storage device failure. |

This section helps you prepare for the following certification exam objectives:

| Exam | Objective |
|----------------|--|
| TestOut PC Pro | 1.3 Install and configure storage1.3.2 Configure and manage storage |

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1.5 Given a scenario, use Microsoft operating system features and tools.

Disk Management
Drive status
Mounting
Initializing
Extending partitions
Splitting partitions
Shrink partitions
Assigning/changing drive letters
Adding drives
Adding arrays
Storage spaces

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