Windows® Storage Server 2008 R2

Improve File and Data Management with Windows® Storage Server 2008 R2

Windows Storage Server 2008 R2 is built on the Windows Server® 2008 R2 operating system to provide a platform for Network Attached Storage (NAS) appliances. It is optimized to deliver a better file serving experience. Windows Storage Server-based products provide advanced storage solutions for small businesses to large enterprises. Storage technologies such as file deduplication, and an iSCSI software target provide unique storage features for these unified file and block I/O storage appliances. Windows Storage Server 2008 R2 provides simplified deployment and management of single node or dual-node, highly-available storage clusters. Microsoft partners offer specialized hardware and additional pre-configured software components to create Windows Storage Server 2008 R2 appliances.

Built on Windows Server 2008 R2 File Services

Taking advantage of the more efficient file services in Windows Storage Server 2008 R2 positions your organization to handle data more intelligently and minimize costs. As your organization grows, Windows Storage Server 2008 R2 scales to meet increased demand while helping to ensure that the data is highly available. With features like failover clustering and Multipath I/O, you can ensure that your data storage solution has no single point of failure and will continue to be available when your users need it.

- Preconfigured and ready to integrate into your IT environment
- Affordable and scalable
- Easy to use, and simple to deploy and manage storage

Advanced Storage Technologies

Windows Storage Server 2008 R2 adds to the functionality of Windows Server 2008 R2 file services by providing advanced storage technologies, including file and iSCSI block storage, and data deduplication capabilities. These additional functionalities are designed to be easy to use, function transparently to users, and require minimal maintenance.

Simplified Deployment and Management

Windows Storage Server 2008 R2 is deployed as an appliance, which means the hardware and software are preconfigured. This dramatically reduces the deployment effort normally associated with a new file server. The appliance form factor greatly reduces the amount of time to deploy a new file server, removing many management tasks, and minimizing the deployment impact on the organization's file infrastructure. In addition, the Initial Configuration Tasks user interface allows you to quickly configure stand-alone appliances or two nodes in a cluster configuration from a single console.

Windows Storage Server 2008 R2 is an advanced storage and file serving solution for any size organization that offers easy manageability and powerful storage features on a proven and reliable server platform.

Windows Storage Server 2008 R2 Workgroup	Windows Storage Server 2008 R2 Standard	Windows Storage Server 2008 R2 Enterprise
• Up to 25 remote connections • Single processor socket • Up to 32 GB memory	• Unlimited remote connections • Up to four processor sockets • Up to 32 GB memory • Networking services, including read-only domain controller, DHCP Server, and DNS Server	• Unlimited remote connections • Up to eight processor sockets • Up to 2 TB memory • Networking services, including read-only domain controller, DHCP Server, and DNS Server • Failover clustering for higher availability • BranchCache for reduced WAN utilization

Windows Storage Server 2008 R2 Features

Windows Storage Server 2008 R2 provides many user benefits, including:

- **Distributed access to files.** Windows Server 2008 R2 file services enable administrators to provide faster access to files while minimizing the effort required to manage distributed data. Users have fast access to information that can be managed more easily by IT pros, regardless of whether the data is stored in a data center or in a branch office.

- **More efficient and unified storage.** Storage requirements are intelligently monitored, and duplicate files are located and consolidated, saving storage space and freeing disk resources. iSCSI provides an affordable way to deliver block storage without the costly hardware and extensive training normally required to deploy such storage solutions. You can create Storage Area Network (SAN) gateway solutions that allow you to utilize existing SAN investments.

- **Faster deployments for file services and iSCSI block I/O.** As a preconfigured appliance, Windows Storage Server 2008 R2 is ready to go right out of the box. File services are preconfigured and deployment is quick and painless — often "in 30 minutes or less." iSCSI block I/O is perfect for Hyper-V™ deployments and enables Live Migration for virtualized environments.

- **Deployment solutions optimized for branch offices.** Windows Storage Server 2008 R2 is highly-optimized for small footprint, remote sites that require local file services and iSCSI block I/O, but have minimum management resources. Appliances can be remotely managed and operate in a headless configuration. In addition, WAN utilitization is dramatically reduced between the head office and branch offices using the SMB 2.1 protocol and the BranchCache feature.

- **Higher scalability and availability.** Windows Storage Server 2008 R2 leverages industry standard hardware, so you can scale up and scale out your solutions with minimal costs. Failover clustering allows you to create highly available solutions that are easy to deploy and operate to ensure business continuity and data protection.

Windows Storage Server Stand-alone NAS	Windows Storage Server Highly-Available NAS	Windows Storage Server NAS Gateway
Client Computers — Windows Storage Server — Internal or External Storage	Client Computers — Windows Storage Servers In Failover Cluster — Cluster Shared Storage	Client Computers — Windows Storage Servers In Failover Cluster — SAN

Learn more about Windows Storage Server 2008 R2 at *www.microsoft.com/storageserver*