

## Windows Server 2008 Product Overview

Windows Server 2008 is the most advanced Windows Server operating system yet, designed to power the next-generation of networks, applications, and Web services. With Windows Server 2008 you can develop, deliver, and manage rich user experiences and applications, provide a highly secure network infrastructure, and increase technological efficiency and value within your organization.

Windows Server 2008 builds on the success and strengths of its Windows Server predecessors while delivering valuable new functionality and powerful improvements to the base operating system. New Web tools, virtualization technologies, security enhancements, and management utilities help save time, reduce costs, and provide a solid foundation for your information technology (IT) infrastructure.

### A Solid Foundation for Your Business

Windows Server 2008 provides a solid foundation for all of your server workload and application requirements while also being easy to deploy and manage. The all new Server Manager provides a unified management console that simplifies and streamlines server setup, configuration, and ongoing management. Windows PowerShell, a new command-line shell, helps enable administrators to automate routine system administration tasks across multiple servers. Windows Deployment Services provides a simplified, highly secure means of rapidly deploying the operating system via network-based installations. And Windows Server 2008 Failover Clustering wizards, and full Internet Protocol version 6 (IPv6) support plus consolidated management of Network Load Balancing, make high availability easy to implement even by IT generalists.

The new Server Core installation option of Windows Server 2008 allows for installation of server roles with only the necessary components and subsystems without a graphical user interface. Fewer roles and features means minimizing disk and service footprints while reducing attack surfaces. It also enables your IT staff to specialize according to the server roles they need to support.

### Virtualization Built-in

Windows Server Hyper-V, the next-generation hypervisor-based server virtualization technology, allows you to make the best use of your server hardware investments by consolidating multiple server roles as separate virtual machines running on a single physical machine. You can also efficiently run multiple operating systems - Windows, Linux, and others - in parallel on a single server. With Hyper-V and simple licensing policies, it's now easier than ever to take advantage of the cost savings of virtualization.

Applications can also be efficiently virtualized using Windows Server 2008 centralized application access technologies. Terminal Services Gateway and Terminal Services RemoteApp allow easy remote access to standard Windows-based programs from anywhere by running them on a terminal server instead of directly on a client computer - without the need for a complicated virtual private network (VPN).

### Built for the Web

Windows Server 2008 comes with Internet Information Services 7.0 (IIS 7.0), a Web server and security-enhanced, easy-to-manage platform for developing and reliably hosting Web applications and services. A major enhancement to the Windows Web platform, IIS 7.0 includes a componentized architecture for greater flexibility and control. IIS 7.0 also provides simplified management, powerful diagnostic and troubleshooting capabilities that save time, and comprehensive extensibility.



Internet Information Server IIS 7.0 together with the .NET Framework 3.0 provides a comprehensive platform for building applications that connect users and data, enabling them to visualize, share, and act on information. Additionally, IIS 7.0 plays a central role in unifying Microsoft's Web platform technologies—ASP.NET, Windows Communication Foundation Web services, and Windows SharePoint Services.

### **High Security**

Windows Server 2008 is the most secure Windows Server yet. The operating system has been hardened to help protect against failure and several new technologies help prevent unauthorized connections to your networks, servers, data, and user accounts. Network Access Protection (NAP) helps ensure that computers that try to connect to your network comply with your organization's security policy. Technology integration and several enhancements make Active Directory services a potent unified and integrated Identity and Access (IDA) solution. And Read-Only Domain Controller (RODC) and BitLocker Drive Encryption allow you to more securely deploy your AD database at branch office locations.

### **High Performance Computing**

The benefits and cost savings of Windows Server 2008 extend to Windows HPC Server 2008 for your high performance computing (HPC) environment. Windows HPC Server 2008 is built on Windows Server 2008, x64-bit technology and can efficiently scale to thousands of processing cores with out-of-the-box functionality to improve the productivity, and reduce the complexity of your HPC environment. Windows HPC Server 2008 enables broader adoption by providing a rich and integrated end-user experience that scales from the desktop application to the clusters, and includes a comprehensive set of deployment, administration, and monitoring tools that are easy to deploy, manage, and integrate with your existing infrastructure.

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