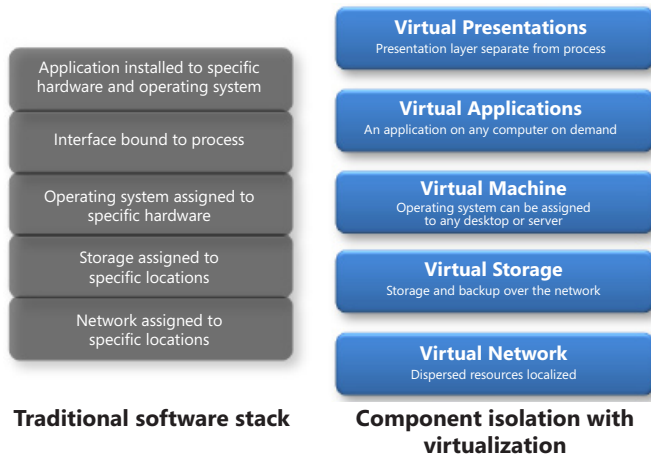


# Virtualization from the data center to the desktop



## Building an end-to-end virtualization strategy.

Virtualization is a technology that isolates one computing resource from others. By separating the logical operation from the physical hardware, a virtualized environment provides greater operational flexibility and streamlines system changes, to provide an operating environment that strengthens business continuity and scales rapidly to meet business demands. Virtualized environments enhance the IT organization's capacity to deliver powerful, robust solutions to meet business needs quickly and efficiently. IT no longer needs to configure each component for them to all work together, reducing complexity and freeing up resources.



A well-designed and well-managed virtualization strategy delivers value to the organization in three ways:

| Control costs  | Improve availability   | Drive agility  |
|--|--|--|
| Simplify, automate, and centralize IT operations to optimize resource utilization. | Integrate management and security tools to maximize system uptime. | Adapt the IT infrastructure rapidly according to business needs. |

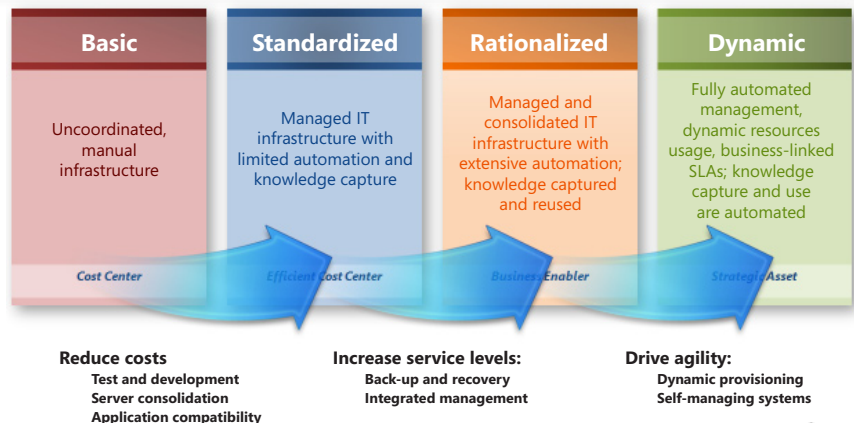
## Virtualization in a dynamic IT environment.

Microsoft believes that virtualization is a key component of dynamic IT, an environment that helps people anticipate and respond to business challenges and opportunities. Virtualized computing resources provide the flexibility to quickly add capability when business demands it, while improving business continuity and supporting a robust disaster-recovery failover plan.

While virtualization is commonly associated with server consolidation, applying virtualization technologies broadly across the entire IT infrastructure yields important improvements in efficiency, flexibility, continuity, and agility. Whether the particular challenge is server utilization, application compatibility, centralized data processing, or managing legacy applications, Microsoft has a powerful solution that integrates seamlessly with your IT infrastructure.

## Microsoft Infrastructure Optimization model.

The vision of infrastructure optimization is to help organizations realize the value of their investments in IT infrastructure, to convert IT from a cost center to a strategic asset, and ultimately to help support a people-ready business. The Microsoft® Infrastructure Optimization (Core IO) model provides guidance on where and when to deploy virtualization in the IT architecture.







For more information, see [www.microsoft.com/io](http://www.microsoft.com/io).



## Microsoft solutions for end-to-end virtualization.

Microsoft offers a comprehensive set of technologies to virtualize servers, applications, and desktop computers. Equally as important, Microsoft provides a powerful toolset for managing both the virtual and physical resources in a unified environment, reducing system complexity and streamlining management tasks.



| Virtualization scenario   | Microsoft solutions  | Benefits  |
|---|--|---|
| <p><b>Server Virtualization</b></p>  <p>Consolidate workloads for more efficient resource utilization</p>                      | <ul style="list-style-type: none"> <li>Windows Server 2008 Hyper-V</li> <li>Microsoft System Center Virtual Machine Manager 2007</li> <li>Microsoft System Center</li> </ul> | <ul style="list-style-type: none"> <li>Provide the virtual operating system that facilitates consolidated infrastructure, application, and branch office server workloads with rapid deployment and provisioning.</li> <li>Manage host configuration, virtual machine creation, library management, intelligent virtual machine placement, monitoring, rapid recovery, self provisioning, and automation.</li> <li>Seamlessly manage virtual and physical server environments with existing, familiar, physical server management tools.</li> </ul> |
| <p><b>Desktop Virtualization</b></p>  <p>Create an isolated operating system environment on standard desktop</p>              | <ul style="list-style-type: none"> <li>Microsoft Virtual PC</li> <li>SoftGrid Application Virtualization</li> <li>Microsoft Terminal Services</li> </ul>                     | <ul style="list-style-type: none"> <li>Host applications not compatible with desktop operating systems.</li> <li>Simplify desktop images by decoupling application layer from image, reduce application-to-application conflicts.</li> <li>Virtualize the presentation of entire desktops.</li> </ul>   |
| <p><b>Application Virtualization</b></p>  <p>Decouple applications from desktop operating systems and deliver on demand</p>  | <ul style="list-style-type: none"> <li>SoftGrid Application Virtualization</li> <li>Microsoft Terminal Services</li> </ul>   | <ul style="list-style-type: none"> <li>Virtualize applications and deliver them as an on-demand, streaming service to desktop users.</li> <li>Virtualize the presentation of applications.</li> </ul>   |
| <p><b>Presentation Virtualization</b></p>  <p>Centralize processing and data storage; present the user interface locally</p> | <ul style="list-style-type: none"> <li>Windows Server® Terminal Services</li> </ul>  | <ul style="list-style-type: none"> <li>Consolidate applications and data in a central location for compliance and security, while providing broad access for local and remote users.</li> </ul>   |

### Further reading and resources:

Follow these links for more information, and contact your Microsoft representative to learn how your company can benefit from Microsoft virtualization technologies:

- Microsoft Virtualization: [www.microsoft.com/virtualization](http://www.microsoft.com/virtualization)
- Windows Server 2008 Hyper-V: [www.microsoft.com/windowsserver2008/en/us/virtualization-consolidation.aspx](http://www.microsoft.com/windowsserver2008/en/us/virtualization-consolidation.aspx)
- Microsoft System Center: [www.microsoft.com/systemcenter](http://www.microsoft.com/systemcenter)
- Soft Grid Application Virtualization: [www.microsoft.com/softgrid](http://www.microsoft.com/softgrid)
- Terminal Server: [www.microsoft.com/terminalserver](http://www.microsoft.com/terminalserver)

