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Optimizing Data Center Operations with Virtualization

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Virtualization solves this problem by minimizing the need for physical hardware as virtual servers are substituted, as well as implementing capacity management software, which provides real-time monitoring and maintenance of power, usage, cooling (more software and less hardware is used being monitored), and downtime (data is easily transferred from one virtual memory to another instead of going from one piece of hardware to another).

Benefits
- Power
- Cooling
- Hardware
- Maintenance
- Downtime
- Space
- Backups
- Recovery testing
- Compatibility
- Hardware
- Software

Virtualization creates great benefits for, not only data centers, but computer desktops, in which applications such as VMWare's Workstation allows users to juggle multiple operating systems on one piece of hardware, and network virtualization, which implements all the features of a physical network, with added rapid provisioning, faster deployment, automatic maintenance, and more.