

# Server Virtualization for Healthcare Datacenters

Virtualization is transforming healthcare IT into a dynamic and agile computing environment where greater efficiency translates directly into better patient care. And Zones is ready to help your organization take full advantage of this emerging technology.

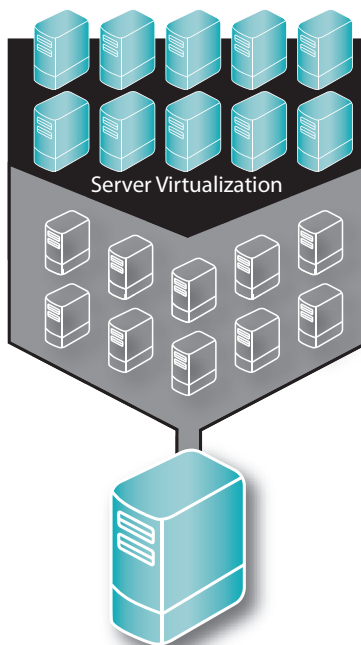
The Zones team of virtualization specialists will help you develop a virtual server solution that meets the business continuity, security, and budgetary goals established by your organization. We will also provide the necessary services, support and training to ease the transition of your server environment, and most importantly ensure uninterrupted patient care to the community.

## Benefits of server virtualization

To increase server utilization and reduce server sprawl, virtualization technology bundles a complete server – hardware, operating system, applications and configuration – into a portable virtual machine package. It does this by inserting a thin layer of software directly on the computer hardware or on a host operating system. This software layer creates virtual machines and contains a virtual machine monitor or “hypervisor” that allocates hardware resources dynamically and transparently.

Benefits of server virtualization include:

- Consolidate and continuously optimize server, storage and network hardware to reduce costs
- Preserve the flexibility to choose between multiple operating systems, hardware types and applications
- Dynamically allocate system resources to accommodate peak workload requirements
- Shift workloads to available servers during periods of scheduled server or storage maintenance
- Maintain continuous availability, without any data loss or downtime in the event of hardware failures
- Decrease energy consumption by idle servers as well as reduce cooling needs and space requirements



*Most servers operate at about 5% to 15% of their total load capacity. With server virtualization, you can increase server utilization and eliminate server sprawl by decreasing the number of servers on your network by at least 10:1 and increase utilization rates up to 80 percent.*

## Security and regulatory compliance

Any IT initiative your healthcare organization engages in requires that security, audit and regulatory compliance be a high priority. By taking advantage of the intrinsic attributes of virtualization, you improve manageability and reduce security risks.

- Accelerate the migration and adoption of an Electronic Health Records or Electronic Medical Records system (EHR/EMR)
- Enforce corporate security policies at the application level in a shared environment, while still maintaining trust and network segmentation of users and sensitive data
- Maintain compliance with privacy and

information regulations without inhibiting caregivers' mobility or productivity

- Enable access to appropriate data regardless of location and minimize the number of copies of sensitive patient data
- Simplify data management by storing patient records, images and other information on a virtualized image that you secure and patch

## Enhancements to patient care

Virtual machines act as files, so they can be backed up, replicated, moved, recovered and secured. Because of this, server especially when coupled with desktop virtualization enhances patient care in several ways.

- Place information in the hands of providers at the point of care, improving decision making abilities
- Provide continuity of care by providing a highly available and resilient computing environment
- Enhance patient care through secure, timely sharing of accurate information between doctors, nurses and labs
- Ease the mind of patients, by keeping data and information secure and protected

## Zones ExpertConnect™ Virtualization

Zones ExpertConnect™ Virtualization team will collaborate with you and your Zones account executive to design a best-in-class virtualization solution. The ExpertConnect Virtualization team is made up of experienced professionals with an extensive understanding of all aspects of virtualization.

Whether you are interested in virtualization around server consolidation, desktop/thin clients, applications or storage, our team of experts can help you craft the best solution for your unique situation. Call your Zones account executive to discuss the direct benefits within your environment and engage our specialists in a virtualized server plan for your healthcare environment.

- Quality solutions that resolve the complex issues facing the healthcare industry
- Technology experts in virtualization, storage, software and security

- Strategic partnerships with leading IT manufacturers
- Nationwide professional services that ease IT planning, deployment and lifecycle management

Call **1-888-485-3273** or visit us online at **zones.com/hc**

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