

DYNAMIC SYSTEMS' HIGH AVAILABILITY

VIRTUAL DESKTOP INFRASTRUCTURE

OFFERS ARMY HEALTH CENTER
A COST-EFFECTIVE WAY TO MANAGE
DISPERSED WORKSTATIONS

ABOUT THE CLIENT

Industry: Government

Location: Undisclosed



AT A GLANCE

Challenge

This Army health center needed sophisticated control over patient care and information across dispersed workstations. However, its system which syncs patient records and expands access to ever-shifting physical locations proved to be complex and expensive.

Solution

Implement a highly-available Virtual Desktop Infrastructure (VDI) environment.

Results

- Enhanced patient care despite ever-shifting physical locations.
- Improved VDI user experience at the network and individual level.
- Simplified personnel support through highly flexible virtual desktop technology.
- Better defined access policies encompassing user roles.
- Significant long-term cost savings.

Overview

An Army health center has successfully implemented a high availability environment for its Virtual Desktop Infrastructure (VDI) users. By leveraging the Dynamic Systems' solution, they doubled user capacity and ultimately, reduced maintenance costs.

Challenge

This health center provides team-based and patient-centered high-quality patient care for soldiers and their family members, retirees, and beneficiaries of the local community. Timely patient care and business information are critical to this Army health center's business. Medical personnel and staff must be able to access this information from several locations throughout the facility using multiple devices.

Efficient and effective integrated systems are crucial for this client to provide a medically ready force. This requirement was previously met through the Army health center's use of a Virtual Desktop Infrastructure (VDI) solution.

However, the client was running their critical VDI environment on end-of-life hardware from multiple vendors, resulting in administration complexities.

This Army health center's previous legacy infrastructure and VDI environment presented several challenges:



Infrastructure complexities



Poor availability and response times



Soaring maintenance costs



Scalability issues of VDI environment



Solution

Dynamic Systems has a long-established key relationship with the Army health center's Chief Information Officer (CIO). As a result, the Information Technology (IT) expert was aware of the organization's IT complexities and inefficiencies in operating and maintaining its legacy infrastructure.



After learning more of the CIO's concerns, Dynamic Systems discussed various options to address their business challenges. Both parties agreed upon a fully redundant and scalable Virtual Desktop Infrastructure (VDI) solution.

The fully scalable Dynamic Systems' solution included:

Hardware refresh

Redundancy

Backup/Recovery

Consulting Assistance

Guided Migration to New Environment

The developed VDI solution was a high-availability environment. It consists of:

- Full single site infrastructure redundancy, replication, backup and restore,
- New redundant VDI servers (Oracle X8-2),
- New VMware servers (Oracle X8-2),
- New Network Attached Storage (Oracle ZS7-2),
- New tape library (Oracle SL150),
- New Cisco top-of-rack switches,
- Repurposed legacy storage (Sun 7120 and Oracle ZS3) for replication and data protection.

Dynamic Systems leveraged its Professional Services (e.g. consulting and assistance) as needed for the successful migration of the two existing VM enclaves and workloads from the legacy environment to the new infrastructure.



Improved patient care

High availability of critical VDI and access to patient care and business information independent from device allows for improved patient experience despite ever-shifting physical locations.



Strengthened support for additional medical personnel and staff

The highly flexible VDI simplifies the support healthcare staff would require when attending to patients and accessing crucial records.



Wider availability of patient care and critical business information

A clear advantage of a centrally-managed VDI is the powerful virtualization that enables medical personnel and to access records from anywhere – even from home as needed.



Enhanced reliability and availability of critical VDI and applications

VDI provides administrators the ability to ensure critical applications are secure, reliable, and available to significantly reduce the risk of a service outage or data loss.



Reduced IT support complexity

VDI helps ease the burden of managing too many types of devices across locations.

Through Dynamic Systems' Virtual Desktop Infrastructure solution, this Army health center doubled current user capacity, simplified support, reduced maintenance costs, increased availability of patient care and business information, as well as reduced risk of a service outage or data loss.

Using fully redundant and scalable solutions from only two vendors, the health center realized improved ability to support increasing medical personnel, staff, and patient workloads.



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