



Virtualization Systems

Virtualization can help organizations save on Information Technology (IT) costs by consolidating computing workloads from several servers onto just a few. This makes the most of underutilized processing potential and reduces the total number of servers in operation. The cascading effect of consolidation means reduced hardware expenditures, reduced administration and maintenance manpower costs, and a reduced power and cooling footprint for the enterprise.

In addition to cost considerations, virtualized systems can enhance security. Sandboxes, or virtual code execution areas, can be configured to isolate customer operating systems (OS) from untrusted and potentially harmful software applications. In the sandbox, untrusted code can run free and be observed and analyzed while the remainder of the system is protected. Virtualization can also protect systems by hiding underlying system complexity. When only a single OS is exposed, rather than the ten different systems that may actually operate beneath it, hackers and intruders know less about the true target environment. This gives them fewer vulnerabilities, exploitation schemes, and hacking tricks to work with.

Our Virtualization Systems Services

- ▶ Independent Verification and Validation
- ▶ Network Security Engineering
- ▶ Privilege Management
- ▶ Security Testing and Evaluation

Technica[®]

Technica engineers can help your organization understand the options available for virtualization, how to unlock potential savings, and how to avoid the pitfalls of consolidated systems through detailed modeling and analysis. We are knowledgeable and experienced in both virtualization products and environments and virtualization schema. Technica currently provides virtualized systems that support the US warfighter in conflict areas around the globe.

The Virtual Desktop Service (VDS) is a Citrix and VMWare-based capability that provides deployed soldiers with access to popular entertainment, shopping and social networking sites in a secure, controlled network environment that is monitored for both malware threats and information leakage. VDS presents the user with the appearance of local computer access while in reality, the solution intercepts and isolates web sessions and performs security and confidentiality checks before displaying the page as a Java applet for users to view and interact with. VDS provides deployed soldiers overseas with secure access to websites used daily by millions of Americans. The Department of Defense (DoD) recognizes the enhancement to military morale made possible by VDS and Technica is proud to be the sole engineering resource for development and deployment of the system.

What Sets Technica Apart

Our engineers and scientists use advanced tools and methodologies, including in-depth virtualization modeling. Our application developers maintain credentials in Java, Microsoft .NET, Citrix, Sun, and many other product and technology areas that support virtualization. Technica has decades of experience covering virtually every aspect of systems engineering, and our knowledge provides:

- ▶ **Real-world experience** developing and deploying virtualized systems for the DoD
- ▶ **Hands on expertise** with virtualization technology concepts and tools
- ▶ **Detailed modeling and analysis** to fully validate solutions in the early stages of system development
- ▶ **Engineering cross-pollination** to support solution development in several virtualization areas, including hardware, desktop, storage
- ▶ **Training and certification** credentials in key areas to support our practical knowledge

System virtualization can help boost efficiency when budgets are tight. Optimal asset utilization is the goal, but planning and realizing effective virtualization for mission-critical production systems requires a clear understanding of the possibilities and how best to apply solutions that work. Technica's multi-disciplinary approach to problem-solving, coupled with our current experience in virtual systems development, can provide the support needed to meet your goals.



Company Information

- ▶ Veteran and Minority Owned
- ▶ Small Disadvantaged Business
- ▶ CMMI Level 2 Program Management
- ▶ Certified PMP Resources
- ▶ Certified ITIL v3 Expertise

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