



VMT Delivers Virtualization For Your Microsoft and Linux Platforms



Virtualization is helping many enterprises manage the cost and performance metrics of their computer infrastructures and achieve a better overall total cost of ownership. VMT can help deliver and manage your virtualization needs.

The benefits of virtualization reach beyond the ability to take advantage of unused processor capacity. Here are some of those benefits:

- **Resource utilization:** virtualization provides economies of scale that allows existing platforms to be better utilized.
- **Infrastructure Cost Reduction:** IT can reduce the number of servers and related IT hardware.
- **Application and Network Design Flexibility:** Application programmers can design and build distributed applications that span systems and geography.
- **Operational Flexibility:** IT administrators can accomplish more with a single stroke in a virtual environment than the support and maintenance of multiple devices.
- **Portability:** Virtual machines combined with the encapsulation of virtual data makes it easy to move virtual machines from one environment to another:
 - For maintenance
 - For replication (disaster recovery)
 - For resource utilization
- **System Availability:** significant reductions in downtime for system maintenance can be achieved with virtualization.
- **Recovery:** in case of disaster, virtualized systems can be recovered more quickly.

VMT uses a variety of tools such as VMware® or Microsoft's Hyper-V to design and implement virtualized environments for our customers. In practical implementation, VMT creates virtualized environments for a variety of IT infrastructure challenges. Here are some examples:

- **Machine Virtualization** – multiple computers acting as one (metacomputers).
- **Operating System Virtualization** – enabling multiple isolated and secure virtualized servers to run on a physical server (the same OS kernel is used to implement the guest environments).
- **Application Virtualization** – using a software virtualization layer to encapsulate a server or desktop application from the local

operating system. The application still executes locally using local resources, but without being installed in the traditional sense.

- **Network Virtualization** – the network is configured to navigate to virtual devices where processing is completed – cross platform.

Managing the Virtualized Infrastructure



VMT provides comprehensive tools for monitoring and managing virtual infrastructures including servers, operating systems, applications, network, data storage, user systems (desktops, remote laptops, etc.), disaster recovery mechanisms and more.

VMT manages the following:

- Provisioning: allocation of resources within an infrastructure
- Resource management
- Windows and Linux integration
- Configuration standardization and management
- Shared storage architecture
- System and application availability
- Performance metrics
- Scalability architecture
- Virtual machine clustering
- Failover architecture and management
- Disaster recovery
- Data backup and recovery
- Load balancing
- Extensibility
- Cost allocation and chargeback
- Change management
- Release management

For more information on VMT virtualization implementation capabilities, please contact us at 770-751-1110 ext 111, or visit our website at www.VMTech.net.

