

EMC IT Management Solutions for Managing the VMware-enabled Data Center

The Big Picture

- Provides a realtime, automated view of IT services and their virtual and physical dependencies across the supporting data center infrastructure
- Optimize efficiencies and deliver service excellence through intelligent process automation, web-based deployment, and end-to-end IT Service Management (ITSM) integration across VMware environments
- Drive compliance with best practices for VMware in support of internal standards or external regulatory requirements
- Build data protection plans for VMware environments with Site Recovery Manager
- Proactively manage change across virtual environments
- Eliminate the time required to resolve IT infrastructure problems in a VMware environment by automating root-cause analysis
- Simplify the complexity of managing change in your virtualized information infrastructure by leveraging automated, service-oriented views

Leveraging the power of automation to increase service visibility and control in VMware environments

Today, IT operations teams are rapidly deploying VMware® server virtualization solutions to take advantage of operational efficiencies and lower costs while rapidly addressing changing business and customer requirements. Virtual servers are becoming the new standard for application deployments, creating new management complexities for large and growing virtualized server and application environments. The management complexity that virtualization creates, introduces new requirements to understand the dynamic relationships between “silos” of physical and virtual components—which represents the next critical IT operations management challenge.

To meet this new challenge, EMC offers the products and services to complement, extend, and thrive in this dynamically changing virtual and physical world. EMC leads the way with automated IT Management Solutions for VMware-enabled Data Centers.

How does virtualization expand your IT operational management requirements?

Customers are telling us that as VMware virtual servers become the foundation of their data center, they are turning to EMC for management solutions to complement their existing VMware toolset. EMC® solutions help IT to include VMware management within their day-to-day IT operations.

The following are examples of customer situations that drive the need to include VMware management within day-to-day IT operations management processes:

- **Visualize VMware environments from application context:** Actively planning to virtualize large mission-critical applications like Siebel and SAP, you will need the right level of application and infrastructure accuracy and detail to ensure a successful transition.
- **Comply with operational best practices for VMware:** Enforce VMware best-practice policies, such as improving utilization by finding VMs no longer in use or checking VMotion™ activity for optimal configurations.
- **Build data protection plans for VMware:** Leverage EMC to determine the start order of Virtual Machines for disaster restart in conjunction with VMware Site Recovery Manager.
- **Automatically manage critical configurations and ensure their compliance:** Save time and reduce costs by automating server configuration, change, and compliance management for VMware servers.
- **Improve availability/fault management for ESX Servers and VMs:** Operate VMware for mission-critical “heavy use” production applications and use VMotion for load balancing and performance management. Server virtualization makes configuration and problem management much more complex.
- **Manage shared storage for VMware:** Resolve issues with shared capacity management for VMware from VM partition to storage; end-to-end VM shared storage capacity planning and VMFS and VMDK reporting will be critical.

The Benefits of EMC IT Management Solutions for VMware Data Centers

Minimize or even eliminate the management impact associated with a large and growing virtualized environment. With EMC IT Service Management Solutions for VMware, your organization can:

- **Lower operational costs:** Automate rules maintenance and reporting to eliminate ongoing consulting or staff costs.
- **Improve operational efficiency:** Automate problem analysis for faster problem identification, resolution, and higher quality results.
- **Manage change:** Leverage automated configuration tracking and policy-based change management across the virtualized infrastructure.
- **Support IT Best Practices:** Implement security and compliance controls to address internal standards or external industry regulations.

EMC IT Management Products

- **EMC Infra:** Automates IT Service Management processes.
- **EMC Server Configuration Manager (SCM):** Collects, stores, fixes, and manages configuration settings from servers and workstations across physical and virtual environments.
- **EMC Smarts® Application Discovery Manager (ADM):** Discovers servers, applications, VMware environments and their dependencies, and can populate a CMDB to automate configuration and change management processes.
- **EMC IT Compliance Analyzer—Application Edition:** Automatically extracts ADM data and applies policies that define internal rules or external regulations. Ships with a preconfigured PCI template.
- **EMC ControlCenter®:** Provides a unified management environment for multi-vendor tiered storage. Compliments the VMware management toolset by managing shared storage for both physical and virtual environments.
- **EMC Smarts Server Manager:** Automatically identifies service-affecting problems across the virtual and physical infrastructure to dramatically improve service delivery.
- **EMC Professional Services and Solutions for VMware:** EMC has virtualization assessment and design services to make it easier for customers to exploit virtualization technologies. Services include EMC Assessment for Virtualization, EMC Design for Server and Storage Virtualization, EMC Design for File Storage Virtualization, and EMC Design for Block Storage Virtualization. These services are targeted at customers that have complex, inflexible infrastructures with extensive, underutilized server and storage assets that are difficult to manage.



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