

Virtualization for SAP

Why EMC when building a virtual data center for SAP

Increase operational flexibility and efficiency with rapid applications and services deployment and shortened time to productivity.

Realize cost savings with lower TCO by enabling effective use of resources and helping to decrease operational costs.

Minimize risk and enhance IT service levels with zero-downtime maintenance capabilities, rapid recovery times for high availability, and streamlined disaster recovery scenarios.

Business Challenge

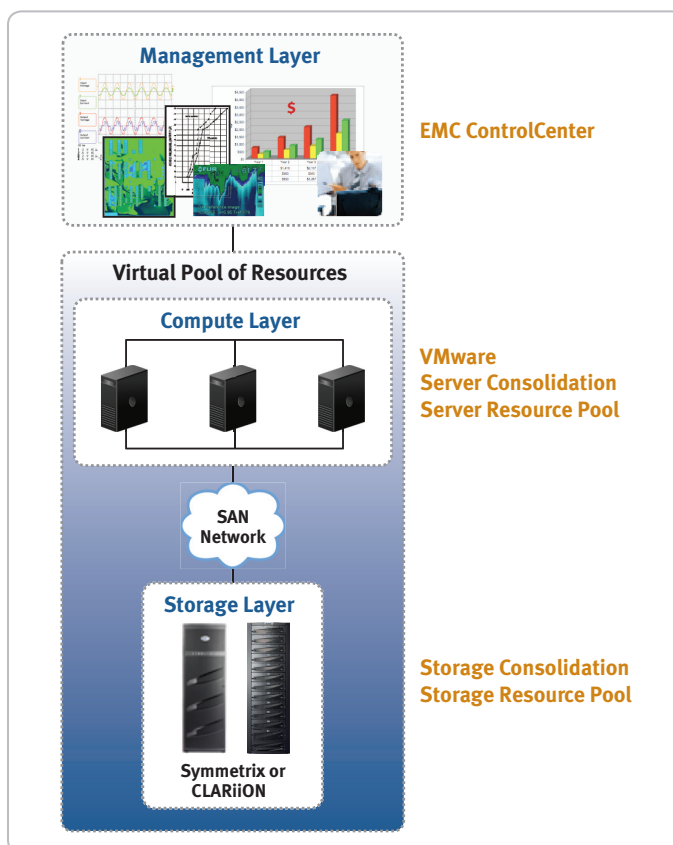
It is not uncommon for IT departments to support eight to ten production environments and 50 to 100 SAP application and database servers. Every component of SAP traditionally gets its own server, including Product, DR, Backup, QA, Test, Training, Development, and Sandbox. These SAP landscapes tend to be highly federated with stringent business continuity and backup and recovery requirements, creating a growing need to streamline SAP upgrades and migrations. EMC helps our customers build robust infrastructures to support every step in a SAP landscape.

Why Virtualize SAP?

Virtualization makes it possible to pool common infrastructure resources and break the legacy “one application to one server” model. Virtualizing your SAP infrastructure reduces hardware in the data center, leading to reductions in real estate, power, and cooling requirements, resulting in significantly lower IT costs. Virtualization also offers a new way of managing your SAP infrastructure and will reduce IT administrator time spent on repetitive tasks such as provisioning, configuration, monitoring, and maintenance. It is possible to securely back up and migrate entire virtual environments with no interruption in service, leading to the ability to eliminate planned downtime and to recover quickly from unplanned outages.



EMC Virtualization



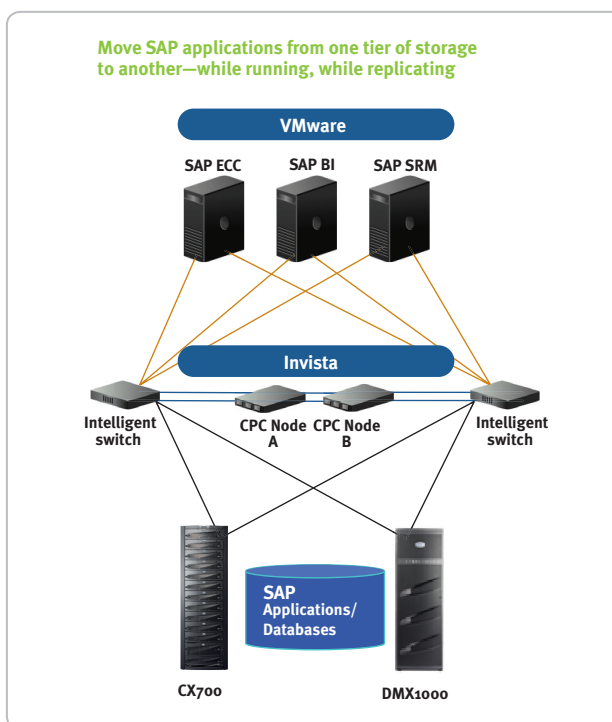
EMC Delivers

EMC seamlessly integrates solutions to create a virtualized SAP infrastructure. The foundation of our SAP virtualization strategy is support of SAP Adaptive Computing. Adaptive Computing is the decoupling of application services from specific physical servers to enable dynamic reassignment to the best-fitting available resources—including servers, networks, and storage—to meet realtime business and operational requirements. EMC then utilizes applied technologies in the compute, the connectivity, and the storage layers of the infrastructure.

Compute layer (or server) virtualization enables dynamic allocation of memory and CPU resources. Utilizing technologies such as VMware® VMotion™ provides SAP servers with high availability, performance optimization, and supports dynamic business growth. Used in combination with EMC® storage and business continuity solutions, SAP customers can better optimize backups and resource utilization during month-end processing.

Connectivity layer (network) virtualization enables non-disruptive data movement of LUNs, providing for online storage tiering within the SAP landscape. You can migrate across heterogeneous storage for optimal performance and resources utilization. In addition, SAP technology refreshes, such as dynamic add and remove of infrastructure components, can occur non-disruptively. EMC delivers this capability through partnerships with Cisco and Brocade.

Finally, by virtualizing the storage layer of the SAP landscape with EMC Invista®, IT managers can establish a virtual storage pool across the SAP instance. Invista leverages intelligent SAN switches for deployment of network-based storage virtualization. This gives SAP IT managers the ability to dynamically allocate storage based on changing business requirements.



As your SAP environment is virtualized you will continue to experience the quality of service, business continuity, and high availability at every level of the infrastructure that you expect and need. EMC and its partners have the expertise to help you combine these powerful technologies to virtualize your storage, connectivity, and compute resources.

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