

Sun™ Data Center Reference Architecture

Reduce data center consolidation costs and time to production with an integrated, tested solution



Key Benefits

- Help preserve and improve data center system reliability, availability, and serviceability as the dependency on each (larger) single system increases
- Manage higher levels of complexity associated with data center class systems
- Help ensure security policies can be met or exceeded
- Facilitate compliance with data management and privacy regulations
- Address business continuity requirements for mission-critical applications
- Help ensure optimal data center operations, administration, and manageability
- Provide the data center with an integrated, tested solution that can be deployed quickly to help reduce cost and risk

Cost-effective, efficient management of a data center is no easy task. IT managers face a myriad of challenges on an ongoing basis to keep systems running smoothly, including:

- Deploying, upgrading, and retiring services quickly to meet rapidly changing business demands
- Ensuring that services are highly available and scalable to meet service level agreements
- Maintaining high levels of resource utilization to minimize total cost of ownership (TCO)
- Conducting all operations in a secure manner to ensure that corporate and client data is protected

Many IT managers view data center consolidation as key to addressing many of these dilemmas.

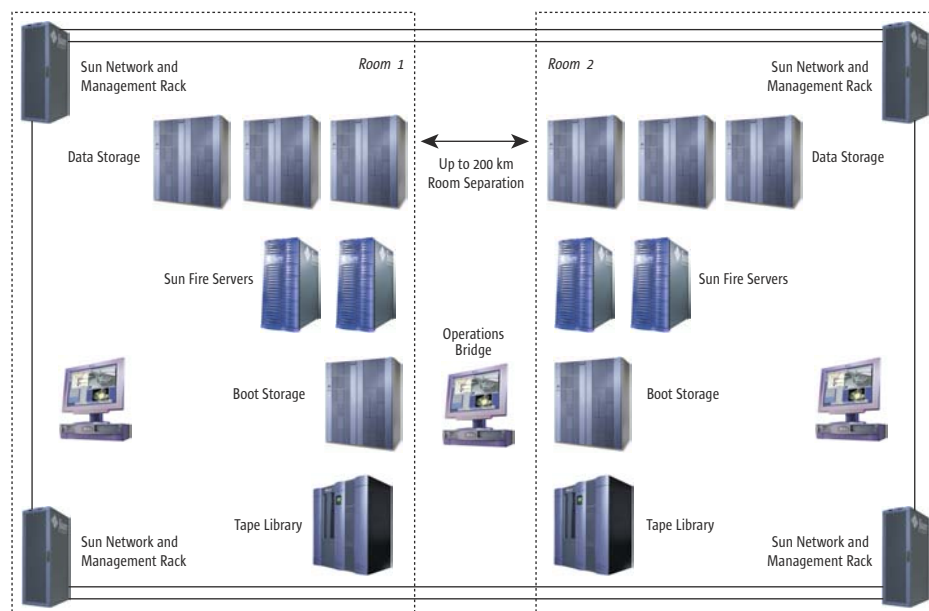
Sun Data Center Reference Architecture

To help you implement an optimal data center consolidation solution, Sun developed the Sun™ Data Center Reference Architecture. Data Center Reference Architecture Implementations are *instantiations* of the Sun Data Center Reference Architecture that provide complete details with actual hardware and software products and technologies, along with services, to meet customer requirements. Data Center Reference Architecture Implementations are pre-designed, pre-tested groups of components for small, medium, and large data centers, and provide a production-ready target environment for enterprise consolidation and migration projects.

The Sun Data Center Reference Architecture Implementation framework is a flexible combination of Sun Fire™ servers, Sun StorEdge™ storage arrays, Sun Java™ Enterprise System and Solaris™ software, as well as LAN and SAN infrastructure.

Increase Performance while Reducing TCO and Time to Production

The Sun Data Center Reference Architecture incorporates Sun best practices and expertise, and provides you with a number of advantages over an ad-hoc approach to creating a production-ready system. This solution helps you improve availability, scalability, security, flexibility, and manageability, while helping you achieve lower cost of ownership and a reduced time to production readiness.



Data Center Reference Architecture Implementation

These advantages are achieved by:

- Designing a solution that has no single point of hardware failure and combining it with a set of runbooks that minimize the downtime caused by procedural error. The system can also help protect against local disasters when deployed across two sites separated by up to 200 Km.
- Using components that can be doubled in capacity from their initial configuration without disrupting services that are already in production.
- Virtualizing all servers and storage resources. Services can be quickly provisioned by allocating resources from these pools or by migrating existing services to new systems.

- Consolidating compute and storage into highly utilized resource pools. Large, scalable servers host multiple services under the control of a resource manager, thereby reducing the points of management while still meeting service level agreements.

Sun Reference Architectures

The Data Center Reference Architecture Implementation is designed from the start for a dual location deployment, and provides the basis for business continuity in the event of a disaster impacting a complete room. Clever design enables this to be achieved with minimal cost impact.

End-to-End Service

With our relentless innovation and depth of expertise, Sun and our iForceSM partners team with you to build optimized network computing solutions and translate that innovation into business value. We help you leverage Reference Architectures to get it right, and keep it right.

Ready-to-Deploy Infrastructure

The Sun Customer Ready Systems (CRS) program delivers added value for customers looking to leverage Sun Reference Architectures. The CRS program offers flexible Sun factory integration capabilities and a wide range of services that help deliver enhanced reliability and faster deployment times.

SunToneSM Quality Initiative

To help you enhance IT service quality and availability, Sun offers the SunToneSM initiative. SunTone validates IT operations excellence through people and process. SunTone compliant Reference Architectures provide a building block to service delivery quality.

Take the next step.

To learn more about the Sun Data Center Reference Architecture, visit sun.com/integration/refarch or contact your Sun sales representative or authorized reseller.

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