

# Optimize Your Data Platform Infrastructure



## Overview

As enterprises continue to revolutionize their data centers, they will need to move toward building a fully optimized infrastructure. In other words, they will need to establish a consolidated, compliant, cost-effective, environmentally and operationally optimized data management platform. An architecture design session and/or proof-of-concept workshop at the Microsoft® Technology Center (MTC) can help your organization learn about Microsoft solutions for optimizing your data platform infrastructure. For the technical decision maker, topics can include defining and successfully managing service-level agreements (SLAs) with your business stakeholders, lowering the costs charged back to the business for your data applications, using historical performance reporting to better forecast demand, and managing your data utility as instances employing policy-based management.

## Objectives

The following are the objectives for an MTC architecture design session that focuses on the impact of business drivers on infrastructure and security. A proof-of-concept workshop in an MTC lab is where a specific architecture is validated.

- *Deploy a data platform infrastructure based on the Microsoft server product portfolio:* Help reduce the cost of ownership and help ensure an exact fit to your business needs. With the increased scalability and performance gained from Microsoft SQL Server® 2008 data management software, you can support more users and process more transactions, on a more streamlined infrastructure. Having a streamlined infrastructure can reduce implementation times.
- *Ensure predictable and reliable database performance:* Implement data platform and business intelligence architectures that tested and proven by product group and deployment experience.
- *Gain a simplified and integrated data management infrastructure:* Learn the potential of the Microsoft Operations Framework and products like Microsoft System Center Operations Manager. The outcome of a proof-of-concept workshop or architecture design session will help you proactively manage your data platform environment by capturing and aggregating
- *Gain agility:* Use the Windows Server System Reference Architecture to provide guidance to respond to ever-changing customer needs and deal with technological change. Such guidance is vital if your organization is to control unstructured growth and the proliferation of custom solutions. Adopting a standardized technology infrastructure that forms the basis of all solutions within an organization is one method of exercising that control. This will help you address typical scenarios in the planning and implementation phases. During the session, the design choices for implementing a technology architecture are discussed, which helps your development team formulate its approach to obtaining a standardized architecture.
- *Improve security:* With a focus on security, the MTC provides prescriptive guidance on assessing security risk and implementing security technologies that offer defense in depth.

## Microsoft Products/Methodologies Involved

Some or all of the following may be involved in the engagement:

- Active Directory®
- Microsoft System Center
  - System Center Configuration Manager
  - System Center Operations Manager
- Microsoft Windows Server 2008 Hyper-V™
- Microsoft SQL Server
- Windows Server®
- Secure Web services
- Patterns & Practices

ARCHITECTURE DESIGN SESSION	PROOF-OF-CONCEPT WORKSHOP
<p><b>OVERVIEW</b></p> <p>This intensive, two-day session delivers in-depth, technical information on optimizing and securing your data platform infrastructure. Architecture design demonstrations and white-board discussions are customized to address your organization's needs. The purpose of this session is to design a solution that standardizes and rationalizes your organization's data infrastructure by consolidating services on fewer servers, and then to provide the processes, technologies, and guidance to help you manage those servers.</p>	<p><b>OVERVIEW</b></p> <p>This two- to three-week workshop pairs our experts with your data infrastructure team as they work side by side, transferring operational best practices. A proof-of-concept workshop will ensure that you feel confident that the Microsoft technology solution can help your organization meet its business goals. Your engagement can include detailed demonstrations, hands-on training sessions, and the development of a working prototype.</p>
<p><b>DELIVERABLES</b></p> <p>During the architecture design session, you will gain a deep understanding of the Microsoft data platform infrastructure optimization model, and how our related technologies can be tied to the design goals of your organization. You will also have acquired information about how Microsoft provides one or more of the following:</p> <ul style="list-style-type: none"> <li>• Efficient server deployment, monitoring, and configuration management across the data platform infrastructure.</li> <li>• Capacity planning and virtualization for database applications.</li> <li>• Server consolidation within the data platform infrastructure.</li> <li>• Performance optimization through scalability capabilities of the SQL Server 2008.</li> <li>• Secure and highly available data infrastructure.</li> <li>• Business continuity and disaster recovery planning across the data infrastructure.</li> </ul>	<p><b>DELIVERABLES</b></p> <p>At the conclusion of the workshop, your development team will have acquired the working knowledge you need to:</p> <ul style="list-style-type: none"> <li>• Build a solution that scales to the enterprise using the Windows Server System Reference Architecture and best practices.</li> <li>• Efficiently manage your Windows Server-based data platform environment through monitoring, software deployment, and patch management.</li> <li>• Implement server consolidation strategies through SQL Server instancing and virtualization.</li> <li>• Ensure that your data platform infrastructure is secure.</li> </ul> <p>The MTC team will work with your team to provide an engagement report that documents the results, so you can make an informed decision about deploying a production system as well as a proposal to support continued site development.</p>
<p><b>PRIMARY AUDIENCE</b></p> <ul style="list-style-type: none"> <li>• Technical decision makers</li> <li>• Chief information officers</li> <li>• Chief technology officers</li> <li>• IT managers</li> <li>• Technical analysts</li> <li>• Business analysts</li> </ul>	<p><b>PRIMARY AUDIENCE</b></p> <ul style="list-style-type: none"> <li>• Technical staff (database administrators and operations)</li> <li>• Technical leads (database administrators and operations)</li> <li>• Infrastructure architects</li> </ul>

### Contact Information

To schedule an architecture design session or proof-of-concept workshop, contact the Microsoft Technology Center in your area:

Atlanta • Bangalore • Beijing • Boston • Chicago • Dallas • Dubai • Dublin • Irvine • Munich • New York • Paris • Reston  
 • Silicon Valley • Taipei • Thames Valley (UK)