

## Deploying MicroStrategy High Performance BI

### Overview:

This two-day course presents the best practices of implementing MicroStrategy BI achieving High Performance results. In this course, you will first be introduced to the MicroStrategy High Performance initiative. Then, you will learn about the components of performance and about how to optimize the five main areas of a BI system: in-memory caching and cubes, data transfer, system configuration, client rendering, and data source access. Finally, students will learn the basics about performance testing methodology, gaining solid knowledge that will enable them to choose the right type of tests for their specific performance requirements. Finally, students are required to perform a three-hour workshop that will reinforce the skills learned from this course. The goal of this course is to provide you with the skills to deploy your BI applications, achieving High Performance in every step of the way.

### MicroStrategy Products Covered:

- MicroStrategy Desktop
- MicroStrategy Intelligence Server
- MicroStrategy Web
- MicroStrategy OLAP Services
- MicroStrategy Health Center

### Number of Days:

- 2 days

### Who Should Attend:

- MicroStrategy Administrators
- Project Managers
- Developers
- Architects

### Prerequisites:

- MicroStrategy Administration: Configuration and Security
- MicroStrategy Administration: Application Management and Tuning
- MicroStrategy Report Services: Dynamic Dashboards

### Topics:

- Introduction to High Performance
  - The High Performance Initiative
  - High Performance Highlights
  - Components of Performance Overview
- In-memory Caching and Cubes
  - Computational Distance
  - The Importance of 64-Bit
  - Report, Document, Element, and Object Caching
  - Cache Sizing Recommendations
  - Intelligence Cubes (Publication process, sizing recommendations, incremental refresh, report execution against cubes)
- Data Transfer
  - Network Performance
  - Distribution Services Performance
- System Architecture and Configuration
  - Performance Measurement Primer
  - Server Specifications
  - Intelligence Server Configuration
  - Web Server Configuration
- Data Presentation: Reports, Dashboards, and Mobile
  - High Performance Reports
  - High Performance Dashboards (Dataset and design techniques to optimize performance)
  - Optimizing Performance for Mobile
- Data Source Access
  - Schema Design Optimizations
  - SQL Generation Optimizations
  - Data Architecture Optimizations
  - Other Query Performance Optimizations (Multi Source, ODBC)
- Performance Testing Methodology
  - Introduction to Performance Testing
  - Performance Testing Methodology
- Workshop
  - Designing a High Performance Dashboard