

Course 10231A:

Designing a Microsoft SharePoint 2010 Infrastructure

Length: 5 Days
Published: October 26, 2010(In development)
Language(s): English
Audience(s): IT Professionals
Level: 300
Technology: Microsoft SharePoint Server 2010
Type: Course
Delivery Method: Instructor-led (classroom)

About this Course

This 5 day ILT course teaches IT Professionals to design and deploy Microsoft SharePoint 2010

Audience Profile

This course is intended for IT Professionals who use Microsoft SharePoint 2010 in a team-based, medium-sized to large environment. While they may have implemented a SharePoint deployment, they have limited experience in designing a SharePoint infrastructure. They likely work as a senior administrator who acts as a technical lead over a team of administrators. Members of this audience should have at least 6 months experience with SharePoint 2010 (including pre-released versions of the product)

At Course Completion

After completing this course, students will be able to:

- Create a logical architecture design
- Create a logical Service Application architecture
- Create a capacity and performance plan for SharePoint 2010
- Map the logical architecture, service application architecture, and the capacity and performance plan against a physical architecture
- Design a security plan for SharePoint 2010 based on the principle of least-privilege
- Create an authentication plan for SharePoint 2010 that meets the business requirements
- Create a corporate taxonomy plan for a SharePoint 2010 environment and enable consumption of the terms within the term store

- Design a SharePoint 2010 environment that supports social computing features including user profiles and My Sites
- Design and implement search strategy in SharePoint 2010
- Translate business requirements for content management into an Enterprise Content Management solution
- Create a plan that reflects the role of SharePoint in an overarching corporate Business Intelligence strategy
- Develop the key SharePoint elements of a governance plan that is in agreement with the overarching corporate governance strategy
- Develop a plan for maintaining and monitoring a SharePoint 2010 deployment
- Develop a business continuity plan for SharePoint 2010
- Plan an upgrade from a previous SharePoint Product and Technologies version to SharePoint 2010

Course Outline

Module 1: Designing a Logical Architecture

This module explains how to create a logical architecture design

Lessons

- Identifying Business Requirements
- Overview of SharePoint 2010 Logical Architecture
- Documenting Your SharePoint 2010 Environment
- Documenting the Logical Architecture

Lab : Designing a Logical Architecture

- Mapping Business Requirements to a Logical Architecture Design
- Creating a Logical Architecture Diagram

After completing this module, students will be able to:

- Identify business requirements and describe how business requirements affect the logical architecture of a SharePoint 2010 deployment.
- Map business requirements to SharePoint 2010 architecture components.
- Explain the importance of documentation and describe the options for documenting logical architecture.
- Describe how to document a logical architecture design.

Module 2: Planning a Service Application Architecture

This module explains how to create a logical Service Application architecture

Lessons

- Introduction to the Service Application Architecture in SharePoint 2010
- Service Application Architecture and Components
- Topologies for Service Applications
- Mapping Service Applications to Your Logical Architecture

Lab : Planning a Service Application Architecture

- Identifying and Designing Service Applications
- Creating Service Applications and Assigning Proxy Groups

After completing this module, students will be able to:

- Describe the service application architecture in SharePoint 2010 and list the available service applications.
- Describe the components and options that are available in the service application architecture in SharePoint 2010.
- Describe some of the topology options for service applications and their respective benefits.
- Describe how to map and document business requirements to service applications.

Module 3: Planning for Performance and Capacity

This module explains how to create a capacity and performance plan for SharePoint 2010

Lessons

- Principles of Performance Planning
- Designing for Performance
- Principles of Capacity Planning
- Designing for Capacity

Lab : Planning for Capacity and Performance

- Creating a Performance Plan
- Creating a Capacity Plan

After completing this module, you will be able to:

- Describe the principles of designing to maximize performance.
- Create a SharePoint 2010 performance design that mitigates performance problems.

- Describe how capacity planning affects the design of a SharePoint 2010 implementation.
- Create a SharePoint 2010 farm design that caters for current and future capacity demands.

Module 4: Designing a Physical Architecture

This module explains how to map the logical architecture, service application architecture, and the capacity and performance plan against a physical architecture

Lessons

- Designing Physical Components for SharePoint Deployments
- Designing Supporting Components for SharePoint Deployments
- SharePoint Farm Topologies
- Mapping a Logical Architecture Design to a Physical Architecture Design

Lab : Designing a Physical Architecture

- Planning the Physical Architecture
- Troubleshooting a Name Resolution Problem

After completing this module, you will be able to:

- Describe the physical design requirements for SharePoint 2010.
- Describe the supporting requirements for a successful SharePoint 2010 physical design.
- Identify SharePoint farm topologies.
- Map a logical architecture design to a physical architecture design.

Module 5: Designing a Security Plan

This module explains how to design a security plan for SharePoint 2010 based on the principle of least-privilege

Lessons

- Designing to Secure SharePoint 2010
- Planning for Service Accounts
- Planning Security for Users and Groups
- Planning for SSL

Lab : Designing a Security Plan

- Designing for Least-Privilege Security
- Identifying and Resolving Potential Security Issues
- Granting Read Access to the Production Auditors Group

After completing this module, you will be able to:

- Describe the security architecture in SharePoint 2010 and the importance of the principle of least privilege.
- Identify and plan security for core service accounts.
- Describe the considerations for implementing security for users and groups.
- Explain the options for implementing Secure Sockets Layer (SSL) in SharePoint 2010.

Module 6: Planning Authentication

This module explains how to create an authentication plan for SharePoint 2010 that meets business requirements

Lessons

- Overview of Authentication
- Introduction to Claims-based Authentication
- Selecting Authentication Methods

Lab : Planning Authentication

- Planning Authentication for Contoso, Ltd
- Enabling Claims-Based Authentication

After completing this module, you will be able to:

- Describe the different authentication and authorization methods that SharePoint 2010 uses.
- Describe claims-based authentication in SharePoint 2010.
- Select the most appropriate authentication method for a given SharePoint 2010 design.

Module 7: Planning Managed Metadata

This module explains how to create a corporate taxonomy plan for a SharePoint 2010 environment and enable consumption of the terms within the term store

Lessons

- Metadata in SharePoint 2010
- Overview of Content Types
- Mapping Managed Metadata to Business Requirements

Lab : Planning Managed Metadata

- Designing Content Types and a Term Set Framework
- Creating the Managed Metadata Service Application
- Importing Term Sets
- Publishing a Content Type

After completing this module, you will be able to:

- Describe the function of managed metadata in SharePoint 2010.
- Describe the function of content types and explain how to apply them to business requirements.
- Match the managed metadata architecture in SharePoint 2010 to business requirements.

Module 8: Planning Social Computing

This module explains how to design a SharePoint 2010 environment that supports social computing features including user profiles and My Sites

Lessons

- Overview of Social Computing
- Planning for Social Computing Functionality in SharePoint 2010
- Planning for the User Profile Service

Lab : Planning Social Computing

- Planning User Profiles
- Configuring User Profile Synchronization

After completing this module, you will be able to:

- Describe the social computing functionality that is available in Microsoft SharePoint 2010.
- Describe how the social computing functionality in SharePoint 2010 meets business needs.
- Plan user profiles for providing social computing functionality.

Module 9: Designing an Enterprise Search Strategy

This module explains how to design and implement search strategy in SharePoint 2010

Lessons

- Overview of SharePoint 2010 Search Architecture
- Search Topologies in SharePoint 2010
- Capacity and Performance Planning for Search
- Mapping Business Requirements to Search Design

Lab : Designing an Enterprise Search Strategy

- Planning for Search
- Planning Physical Topology
- Creating Search Service Applications
- Configuring Search

After completing this module, you will be able to:

- Describe the search architecture and process in SharePoint 2010.
- Describe the topologies that are available in SharePoint 2010 to service a range of search requirements across business models.
- Plan and document enterprise search for capacity and performance.
- Describe how to map business requirements to the SharePoint Enterprise and FAST search architectures.

Module 10: Planning Enterprise Content Management

This module explains how to translate business requirements for content management into an Enterprise Content Management solution.

Lessons

- Overview of Enterprise Content Management
- Planning Tasks for Content Management
- Planning Features and Policies for Content Management
- Planning Web Content Management

Lab : Planning Enterprise Content Management

- Developing a Content Management Plan
- Enabling and Configuring Document IDs and Content Organizer
- Configuring Retention Policies and Records Management

After completing this module, you will be able to:

- Describe the core functionality of ECM in SharePoint Server 2010 that influences your design.
- Describe the major steps that you should take when you plan a content management solution in SharePoint Server 2010.
- Describe the considerations for planning features and policies for content management for SharePoint Server 2010.
- Describe how to plan for Web content management in SharePoint Server 2010.

Module 11: Planning a SharePoint 2010 Implementation of a Business Intelligence Strategy

This module explains how to create a plan that reflects the role of SharePoint in an overarching corporate Business Intelligence strategy

Lessons

- Overview of Business Intelligence Principles
- Planning Data Access by Using BCS
- Planning SharePoint 2010 Business Intelligence Solutions
- Planning for Reporting and Presentation

Lab : Planning a SharePoint 2010 Implementation of a Business Intelligence Strategy

- Planning the SharePoint Business Intelligence Implementation
- Creating a BI Center and Enabling Excel Services

After completing this module, you will be able to:

- Describe the principles of BI.
- Describe how to plan for data access by using BCS.
- Describe data and security planning concerns for key BI tools.
- Describe the roles of SQL Server Reporting Services and the BI Center in reporting and presenting BI components.

Module 12: Developing a Plan for Governance

This module explains how to develop the key SharePoint elements of a governance plan that is in agreement with the overarching corporate governance strategy

Lessons

- Overview of Governance
- Key Elements of a Governance Plan
- Planning for Governance in SharePoint Server 2010
- Governance Implementation Features and Policies in SharePoint Server 2010

Lab : Developing a Plan for Governance

- Creating a Governance Plan
- Implementing the Governance Plan

After completing this module, you will be able to:

- Describe the concept of governance.
- Describe the key elements of a governance plan.
- Plan for governance in SharePoint Server 2010.
- Describe the governance implementation features and policies in SharePoint Server 2010.

Module 13: Designing a Maintenance and Monitoring Plan

This module explains how to develop a plan for maintaining and monitoring a SharePoint 2010 deployment

Lessons

- Principles of Maintenance and Monitoring
- Creating a Maintenance Plan for SharePoint 2010
- Creating a Monitoring Plan for SharePoint 2010
- Considerations for the Maintenance and Monitoring of Associated Technologies

Lab : Designing a Maintenance and Monitoring Plan

- Resolving an Error in SharePoint 2010
- Splitting a Content Database

After completing this module, you will be able to:

- Describe the essential principles of a maintenance and monitoring plan.
- Create a maintenance plan for SharePoint 2010.
- Create a monitoring plan for SharePoint 2010.
- Describe the considerations for developing a maintenance and monitoring plan that incorporates technologies that support SharePoint 2010.

Module 14: Planning Business Continuity

This module explains how to develop a business continuity plan for SharePoint 2010

Lessons

- Overview of Business Continuity Management
- Developing a Business Continuity Plan for SharePoint Server 2010
- Creating a Backup and Restore Plan for SharePoint Server 2010

Lab : Planning Business Continuity

- Creating a Backup and Restore Plan
- Testing the Recovery Process

After completing this module, you will be able to:

- Describe business continuity management.
- Describe how to develop a business continuity plan for SharePoint Server 2010.
- Describe how to create a backup and restore plan for SharePoint Server 2010.

Module 15: Planning for Upgrading to SharePoint 2010

This module explains how to plan an upgrade from a previous SharePoint Products and Technologies version to SharePoint 2010

Lessons

- Identifying Upgrade Scenarios
- Planning Your Upgrade
- Upgrade Considerations

Lab : Planning for Upgrading to SharePoint 2010

- Creating an Upgrade and Migration Plan

After completing this module, you will be able to:

- Describe the range of upgrade requirement options and the available upgrade methods.
- Describe how to plan an upgrade to SharePoint 2010.
- Explain the key upgrade considerations.