

KOENIG SOLUTIONS · COURSE OUTLINE

Planning and Administering SharePoint 2016

Learn to plan, deploy, configure and secure SharePoint 2016 environments, from information architecture to search and ongoing monitoring.

14

MODULES

82

TOPICS

58

HANDS-ON ACTIVITIES

COURSE OVERVIEW

This course covers the structure and deployment options of SharePoint 2016, followed by designing information, logical and physical architectures. It then addresses installing and configuring SharePoint farms, web applications and site collections, along with service applications, user permissions, authentication and platform security. Later modules cover managed metadata, user profiles and Enterprise Search, before concluding with monitoring, performance tuning, caching and troubleshooting a SharePoint 2016 environment.

WHO THIS COURSE IS FOR

SharePoint Administrators

IT Professionals

Infrastructure Specialists

Systems Engineers

Solution Architects

LEARNING OBJECTIVES

- Identify SharePoint 2016 architecture, features and deployment options
- Plan an information architecture based on business requirements
- Design logical and physical architectures for a SharePoint farm
- Install and configure SharePoint 2016 farm settings
- Create and configure web applications and site collections
- Configure service applications, user permissions and authentication
- Secure a SharePoint deployment at the platform and farm level
- Configure managed metadata, user profiles and Enterprise Search

14 Modules, 82 Topics

01

Introducing SharePoint 2016

This module describes the structure and capabilities of a SharePoint environment, and the major changes for IT professionals in SharePoint 2016. This module also describes the options available for deploying SharePoint 2016.

LESSONS

- Key components of a SharePoint deployment
- New features in SharePoint 2016
- SharePoint 2016 deployment options

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Identify the architecture and capabilities of SharePoint 2016
- Identify new and deprecated features in SharePoint 2016
- Identify deployment options for SharePoint 2016

02

Activity

Activity

Designing an Information Architecture

This module describes how to gather business requirements, and the key elements of a successful information architecture project. This module also explains how to structure information within a SharePoint 2016 deployment and make it easy to find and retrieve.

LESSONS

- Identifying business requirements
- Understanding business requirements
- Organizing information in SharePoint 2016
- Planning for discoverability

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Explain how understanding business requirements drives the design of an organizational information architecture
- Describe the key components available in SharePoint 2016 to deploy an information architecture
- Plan for discoverability as part of an information architecture deployment

Designing a Logical Architecture

This module explains how to approach a logical architecture design and how to document it.

LESSONS

- Overview of the SharePoint 2016 logical architecture
- Documenting your logical architecture

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Map business requirements to SharePoint 2016 architecture components
- Explain the importance of documentation and describe the options for documenting the logical architecture

Designing a Physical Architecture

This module describes the physical design requirements for SharePoint 2016, and the physical components necessary to fulfill the physical architecture design. It also explains the SharePoint farm topologies, and describes how to map a logical architecture design to a physical architecture design.

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

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Describe the requirements for the physical components that are needed for a SharePoint 2016 deployment
- Describe the requirements for the supporting components that are needed for a successful SharePoint 2016 deployment
- Identify SharePoint farm topologies
- Map a logical architecture design to a physical architecture design

Installing and Configuring SharePoint 2016

This module explains how to install SharePoint 2016 in different topologies, script the installation, and configure a SharePoint 2016 environment. This module also explains how to configure the core farm-level settings in a SharePoint 2016 deployment.

LESSONS

- Installing SharePoint 2016
- Scripting installation and configuration of SharePoint
- Configuring SharePoint 2016 farm settings

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Install SharePoint 2016
- Deploy and configure SharePoint 2016
- Script the installation and configuration of SharePoint 2016
- Configure SharePoint 2016 farm settings

Creating Web Applications and Site Collections

This module explains how to create web applications in SharePoint 2016 and how to configure these applications. It also explains how to create and configure site collections in SharePoint 2016 and SharePoint Online.

LESSONS

Creating web applications · Configuring web applications · Creating and configuring site collections

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

Create web applications · Configure web applications · Create and configure site collections

Planning and Configuring Service Applications

This module describes the service application architecture in SharePoint 2016, and how to provision and manage service applications.

LESSONS

- Introduction to the service application architecture
- Creating and configuring service applications

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Explain the key components and topologies for a SharePoint 2016 service application architecture
- Plan for service accounts and service application dependencies
- Understand the purpose of mapping service applications to business requirements
- Describe how to provision and manage SharePoint 2016 service applications

Managing Users and Permissions, and Securing Content

This module explains how to configure authorization in SharePoint 2016. It also explains how to configure site collection security in SharePoint 2016.

LESSONS

- Configuring authorization in SharePoint 2016
- Managing access to content

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Manage users and permissions in SharePoint 2016
- Manage access to content in SharePoint 2016

Configuring Authentication for SharePoint 2016

This module explains about the SharePoint 2016 authentication infrastructure, and how to configure claims, providers, and identity federation for SharePoint 2016. It also explains how to configure server-to-server authentication for SharePoint 2016.

LESSONS

- Overview of authentication
- Configuring federated authentication
- Configuring server-to-server authentication

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Explain the authentication infrastructure of SharePoint 2016
- Configure claims providers and identity federation for SharePoint 2016
- Configure server-to-server authentication for SharePoint 2016

Securing a SharePoint 2016 Deployment

This module explains how to secure a SharePoint 2016 deployment at the platform level, and how to configure farm-level security settings for a SharePoint 2016 deployment.

LESSONS

- Securing the platform
- Configuring farm-level security

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Secure a SharePoint 2016 deployment at the platform level
- Configure farm-level security settings for a SharePoint 2016 deployment

Managing Taxonomy

This module explains how to create and manage content types and content-type propagation. Additionally, it explains how to implement managed metadata in SharePoint web applications and site collections. It also explains how to configure the managed metadata service application in SharePoint 2016.

LESSONS

- Managing content types
- Understanding managed metadata
- Configuring the managed metadata service

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Create and manage content types and content-type propagation
- Explain how to implement managed metadata in SharePoint web applications and site collections
- Configure the managed metadata service application in SharePoint 2016

Configuring User Profiles

This module explains how to configure the User Profile service application, and how to manage user profiles and audiences.

LESSONS

- Configuring the User Profile Service Application
- Managing user profiles and audiences

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Configure the User Profile service application
- Manage user profiles and audiences

Configuring Enterprise Search

This module describes the Search Service Application and explains how to configure the Search service in SharePoint 2016. It also explains how to manage the search experience in SharePoint 2016.

LESSONS

- Understanding the Search Service Application architecture
- Configuring Enterprise Search
- Managing Enterprise Search

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Describe the Search service architecture in SharePoint 2016
- Configure the Search service in SharePoint 2016
- Manage the search experience in SharePoint 2016

Monitoring and Maintaining a SharePoint 2016 Environment

This module explains how to implement a monitoring plan for SharePoint 2016, and how to optimize the performance of a SharePoint 2016 deployment. It also explains how to plan for and configure SharePoint caching. Further, it explains how to identify and resolve problems in a SharePoint 2016 environment.

LESSONS

- Monitoring a SharePoint 2016 environment
- Tuning and optimizing a SharePoint 2016 environment
- Planning and configuring caching
- Troubleshooting a SharePoint 2016 environment

AFTER COMPLETING THIS MODULE, STUDENTS WILL BE ABLE TO

- Develop and implement a monitoring plan for a SharePoint 2016 environment
- Tune and optimize a SharePoint 2016 server farm on an ongoing basis
- Plan and configure caching to improve the performance of a SharePoint 2016 deployment
- Troubleshoot errors and other issues in a SharePoint 2016 deployment

HANDS-ON ACTIVITIES

Practise What You Learn

#	MODULE	ACTIVITY
02	Designing an Information Architecture	Lab: Designing an information architecture - Part one: Identifying site columns and content types Lab: Creating an information architecture - Part two: Designing a business taxonomy
03	Designing a Logical Architecture	LAB: DESIGNING A LOGICAL ARCHITECTURE ■ Planning a logical architecture ■ Producing a logical architecture diagram
04	Designing a Physical Architecture	LAB: DESIGNING A PHYSICAL ARCHITECTURE ■ Designing a physical architecture ■ Developing a physical architecture design diagram
05	Installing and Configuring SharePoint 2016	Lab: Deploying and configuring SharePoint 2016 - Part one: Provisioning a SharePoint 2016 farm LAB: DEPLOYING AND CONFIGURING SHAREPOINT 2016 - PART TWO ■ Configuring incoming email ■ Configuring outgoing email ■ Configuring integration with Office Online Server

#	MODULE	ACTIVITY
06	Creating Web Applications and Site Collections	LAB: CREATING AND CONFIGURING WEB APPLICATIONS ■ Creating a web application ■ Configuring a web application
		LAB: CREATING AND CONFIGURING SITE COLLECTIONS ■ Creating and configuring site collections ■ Creating a site collection in a new content database ■ Using Fast Site Collection Creation
07	Planning and Configuring Service Applications	LAB: PLANNING AND CONFIGURING SERVICE APPLICATIONS ■ Provisioning a Managed Metadata Service application with Central Administration ■ Provisioning a Managed Metadata Service application with Windows PowerShell ■ Configuring the Word Automation Services service application for document conversion ■ Configuring service application proxy groups
08	Managing Users and Permissions, and Securing Content	LAB: MANAGING USERS AND GROUPS ■ Creating a web-application policy ■ Creating and managing SharePoint groups ■ Creating custom permission levels LAB: SECURING CONTENT IN SHAREPOINT SITES ■ Managing permissions and inheritance ■ Managing site-collection security ■ Enabling anonymous access to a site
09	Configuring Authentication for SharePoint 2016	LAB: EXTEND YOUR SHAREPOINT 2016 TO SUPPORT SECURE SOCKETS LAYER (SSL) ■ Configuring Microsoft SharePoint 2016 to use federated identities ■ Configuring Active Directory Federation Services (AD FS) to enable a web application a relying party ■ Configuring SharePoint to trust AD FS as an identity provider ■ Configuring a web application to use the AD FS identity provider
10	Securing a SharePoint 2016 Deployment	LAB: SECURING A SHAREPOINT 2016 DEPLOYMENT ■ Configuring SharePoint Server communication security ■ Hardening a SharePoint server farm ■ Configuring blocked file types ■ Configuring Web Part security ■ Implementing security auditing
11	Managing Taxonomy	LAB: CONFIGURING CONTENT-TYPE PROPAGATION ■ Creating content types for propagation ■ Publishing content types across site collections LAB: CONFIGURING AND USING THE MANAGED METADATA SERVICE ■ Configuring the managed metadata service ■ Creating term sets and terms ■ Consuming term sets

#	MODULE	ACTIVITY
12	Configuring User Profiles	LAB: CONFIGURING USER PROFILES ■ Configuring the User Profile Service Application ■ Configuring directory import and synchronization
		LAB: CONFIGURING MY SITES AND AUDIENCES ■ Configuring My Sites ■ Configuring audiences
13	Configuring Enterprise Search	LAB: CONFIGURING ENTERPRISE SEARCH ■ Configuring the Search Service Application ■ Configuring a file share content source ■ Configuring a local SharePoint content source ■ Creating a search center
		LAB: OPTIMIZING THE SEARCH EXPERIENCE ■ Configuring a result source and a query rule ■ Customizing the search experience ■ Creating and deploying a thesaurus ■ Configuring entity extractors and refiners ■ Managing query spelling correction
14	Monitoring and Maintaining a SharePoint 2016 Environment	LAB: MONITORING A SHAREPOINT 2016 DEPLOYMENT ■ Configuring usage and health data collection ■ Configuring SharePoint diagnostic logging ■ Configuring Health Analyzer rules ■ Reviewing usage and health data
		LAB: INVESTIGATING PAGE LOAD TIMES ■ Analyzing network traffic ■ Analyzing SharePoint page performance

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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