

# SHAREPOINT 2016 ADMINISTRATION (55355)

Course Code: 821559

This SharePoint 2016 Administrator course is design for Administrators who are new to SharePoint Server Administration or who are upgrading from previous versions of SharePoint including SharePoint 2007 and 2010. There is a separate course for those upgrading from SharePoint 2013.

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## What You'll Learn

- The Installation and configure a SharePoint 2016 Farm
- How to manage a SharePoint 2016 Farm through the GUI and PowerShell
- How to create site collections via GUI and PowerShell
- How to create and configure the all the required service applications for SharePoint 2016
- How to backup and restore in SharePoint 2016

## Who Needs to Attend

This course is intended for a IT person wanting to learn about administrating SharePoint 2016.

## Prerequisites

- No previous experience of SharePoint is required
- Basic knowledge of Active Directory
- Basic knowledge of Internet Information Server (IIS)

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CLASSROOM LIVE

\$2,995 USD

5 Day

## Classroom Live Outline

### **Module 1: Hardware, Installation and patching**

This module will look at the planning and architecture of the SharePoint platform as well as the hardware requirements and minimum / recommended hardware configurations including virtualization good practices. It will include lessons on SQL good practices and understanding how SharePoint and SQL work together. It will also go through a step by step installation of a SharePoint server and scaling out with multiple servers including scripted installations and configuration. You will also learn all about the new Min Role deployment templates and you will build a Min Role farm as part of the lab. Finally we will look at the new patching options for SharePoint 2016 including zero downtime patching.

#### **Lessons**

- How to build a Min Role Farm
- How to View ULS Logs
- How to document and check IIS Settings for SharePoint 2016

### **Module 2: Farm Management**

This module will be a tour of Central Administration and PowerShell management understanding the various configuration options for a farm including post installation good practice such as log file locations, The Distributed cache, Farm solutions, mail server connection using TLS and security management of SharePoint Administrators. You will also be using ULS viewer in order to troubleshoot SharePoint deployments and installations. Finally you will learn about server to server trusts to enable SharePoint to communicate with other applications.

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### **Module 3: Web Applications**

In this module we will explore the new changes to Web Applications and discover the creation and management of them in both Central Administration and PowerShell. You will learn how to use certificates with your SSL Web applications and secure them with the TLS 1.2 protocol. We will also cover the creation of hosting Web Applications for the use of host named site collections. Finally you will learn how to optimize your Web Applications including Throttling and access policies.

#### **Lessons**

- How to define a new Managed Account
- How to add new IP Addresses to a SharePoint Server
- How to create a claims based web application in SharePoint Central Administration
- How to create a claims based web application in PowerShell
- How to create a hosting web application in PowerShell

### **Module 4: Site Collections**

This module covers the creation and management options for Site Collections including good practices for database sizing and management, migrating site collections to new databases and understanding the differences between path based and host named site collections. You will learn how to create and manage site collections through central administration and PowerShell.

#### **Lessons**

- How to create a managed path
- How to create a site collection using SharePoint Central Administration
- How to create a site collection using PowerShell
- How to create a site collection in its own database using SharePoint Central Administration
- How to create a site collection in its own database using PowerShell
- How to create a host named site collection using PowerShell

### **Module 5: Service Applications**

In this module we will look at what is new, changed and depreciated in SharePoint 2016 and the architecture behind the core service applications. You will also learn how to work with multiple farm scenarios including publishing services between farms and how to scale the services. You will also learn how Min Role and service Applications align to each other and learn to scale services through both Min Role and custom farm deployment scenarios.

#### **Lessons**

- How to create a State Service Application

- How to create a Search Service Application
- How to create the Managed Metadata Service

## **Module 6: Application Management**

A key Service to SharePoint 2016 that allows SharePoint 2016 Administrators to setup their own on premise App marketplace hub and maintain control of the Apps stored in it and those subscribed to from the Internet Marketplace. In this module we will go through setup and configuration and publish commercial Apps into your SharePoint farm.

### **Lessons**

- How to add a new IP and Certificate to a SharePoint Web Application
- How to configure DNS for SharePoint Web Application
- How to Create a Subscription Settings Service Application
- How to create the Application Management Application Service
- How to configure the application URLs
- How to create the App Catalog Site Collection
- How to Add Apps to the catalog

## **Module 7: Managing the User Profile Service**

In this module you will learn how to build the User Profile Application and what is new in SharePoint 2016 and the options for populating your user profiles in SharePoint from various directory sources. You will learn how to leverage the new Microsoft Identity Management 2016 server for two way synchronization and also importing objects from other LDAP sources. Finally you will look at the new My Sites and the social options provided by this service.

### **Lessons**

- How to create the My Site Web Application
- How to create the User Profile Service Application
- How to Configure the User Profile Synchronization Permissions
- How to create the Active Directory Import Connection
- How to assign permissions for the AD Group to create a My Site
- How to create a My Site

## **Module 8: Search**

This module will look at the architecture of the Search Service and discover how the new components are configured, managed and optimized for performance and resilience. You will be learning about the crawl and query capabilities in SharePoint 2016 as well as the changes from a user's perspective. Finally you will learn about Search scalability and deploying it's components across multiple servers in your farm including custom deployed farms and Min Role farms.

### **Lessons**

- How to view the current Search Topology
- How to create an Enterprise Search Centre
- How to configure a new search schema property

- How to create a site collection-level result source
- How to create a new content source

## **Module 9: Office Online Server**

Despite its name this is a module that takes you through the planning and deployment of the on premises version of Office Online Server previously known as Office Web Application Server. You will discover hardware and software requirements and be taken through a full installation and connection to SharePoint 2016. You will then discover how the service then gets leveraged by users in SharePoint through document and search preview.

### **Lessons**

- How to install the pre-requisites for Office Online Server
- How to install the Office Online Server Binaries
- How to create the Office Online Server SSL Certificate
- How to create the Office Online Server Farm
- How to connect to the farm from SharePoint
- How to test the connectivity

## **Module 10: Enterprise Content Management**

In this module you will be looking at all the components that make up an ECM story including Lifecycle management, compliancy and EDiscovery. You will learn Records Management, hold and delete policies and you will learn how to leverage discovery of Email as well as data from SharePoint and file shares plus learn how Data Loss Protection works in SharePoint 2016.

### **Lessons**

- How to create and Apply a site policy
- How to create discovery sets
- How to configure In Place records management
- How to configure the records center
- How to configure DLP

## **Module 11: Web Content Management**

This module will focus on the publishing aspect of SharePoint including Intranet hosting, publishing pages, multi-language site variations and leveraging search and the product catalog for building aggregated publishing sites. You will also learn about the options for deploy content between farms using content deployment and working with master pages and page layout templates.

### **Lessons**

- How to configure cross-site publication
- How to configure content deployment

## **Module 12: Workflow Server**

Building workflows is a key part of the SharePoint ECM story, in this module you will learn the architecture, hardware and planning and then learn how to build and

deploy the workflow manager server and connect it to your SharePoint farm. You will then see how you can now create legacy SharePoint workflows and the newer workflows using the workflow manager server.

### **Lessons**

- How to install Workflow Manager server and Client Binaries
- How to configure the workflow farm
- How to patch the workflow farm manager and clients
- How to register the workflow service in SharePoint
- How to test Workflow creation

### **Module 13: Business Connectivity Services and Secure Store**

In this module you will learn how to plan, build and configure the Business Connectivity Service (BCS) along with the Secure Store Service and Single Sign on to create data connections to back end data applications and then consume them in SharePoint using data web parts.

### **Lessons**

- How to configure the secure store service
- How to create the BCS service Application
- How to setup the products database
- How to import the BCS Definition
- How to use the BDC file in a list web part

### **Module 14: Hybrid SharePoint**

This module focuses on the new capabilities for SharePoint in a hybrid world including options for DR and scalability through Azure, using the Hybrid Search crawl appliance and configuring the Office 365 options for consuming and redirecting services such as One Drive, My sites and Yammer. You will gain an overall understand of hybrid as a concept and what are the business considerations that need to be discussed when considering hybrid deployment options. You will learn about the differences between infrastructure as a service (IaaS) for SharePoint and Software as a service (SaaS) plus directory replication for user account synchronization.

### **Lessons**

- Shown and Demonstrated the Hybrid features of SharePoint 2016

### **Module 15: Backup and Restore**

Disaster recovery should be a key focus for any SharePoint administrator. In this module you will learn all aspects of SharePoint DR along with backup and restore including the infrastructure element such as SQL databases as well as specific SharePoint components and content. You will learn about farm backups, web applications, service applications as well as site collection, list/libraries and item level restore capabilities out of the box. As part of this module you will also learn about the 3rd party options available and the pro's and con's and around all the options.

## **Lessons**

- How to backup SharePoint 2016 Content
- How to delete SharePoint 2016 Content
- How to restore SharePoint 2016 Content via PowerShell
- How to recover a unattached content database

## **Module 16: Upgrade**

This module is concentrating on the options available for upgrading from previous versions of SharePoint and some of the key design and planning elements that need to be considered before starting an upgrade process. We will cover upgrading from SharePoint 2007, 2010 and 2013. You will learn to upgrade both content databases and service applications to SharePoint 2016.

## **Lessons**

- How to restore and attach a SharePoint 2013 Database
- How to upgrade a SharePoint 2013 MMS Service Application

## **Classroom Live Labs**

### **Lab: Hardware and Installation**

- Building a Farm using Min Role
- View ULS Logs
- Document IIS Settings

### **Lab: Farm Management**

- Manage the Farm Administrators group
- Configure Outgoing Email
- Configure Incoming Email
- Configure Diagnostic and Usage Log options

### **Lab: Web Applications**

- Define a new Managed Account
- Add two new IP addresses to SharePoint1
- Create a Claims based web application in CA
- Create a Claims Web Application using PowerShell
- Create a Hosting web application using PowerShell

### **Lab: Site Collections**

- Create a new Managed Path in Portal Web App
- Create a new Site collection using CA
- Create a new Site collection using PowerShell
- Create a site collection in its own database using CA
- Create a site collection in its own database using PowerShell
- Create a host named site collection using PowerShell

### **Lab: Service Applications**

- Create the State Service Application
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#### **Lab: Application Management**

- Create new CK Apps IP Address and Certificate
- Configure App DNS Domain Name
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#### **Lab: Search**

- Viewing Current Search Topology
- Create an Enterprise Search Centre
- Configure a new Search Scheme property
- Create a site collection-level result source
- Create a new content source

#### **Lab: Office Online Server**

- Install the pre-requisites
- Install the binaries
- Create the OOS Certificate
- Create the OOS Farm
- Connect to the farm from SharePoint1
- Test Connectivity from SharePoint2

#### **Lab: ECM**

- Creating and Applying a Site Policy
- Discovery sets in eDiscovery
- Configure In-Place Records Management
- Configure the Records Center
- Configure DLP

#### **Lab: WCM**

- Configure Cross-site Publication
- Configure Content Deployment

#### **Lab: Workflow**



- Install workflow manager server and client binaries
- Configure the workflow farm
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**Lab: BCS and Secure Store**

- Configure the secure store service
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**Lab: Disaster Recovery**

- Backup Content
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PRIVATE GROUP TRAINING

5 Day

Visit us at [www.globalknowledge.com](http://www.globalknowledge.com) or call us at 1-866-716-6688.

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