

# SHAREPOINT 2016 ADMINISTRATOR TRACK

Course Duration: 5 Days

## Overview

This SharePoint 2016 Administrator course is designed for Administrators who are new to SharePoint Server Administration or who are upgrading from previous versions of SharePoint including SharePoint 2007 and 2010.

## Prerequisites

Although no previous experience of SharePoint is required, some basic knowledge of Active Directory and Internet Information Server (IIS) is beneficial.

## Module 0 – Introduction

This module is a quick high-level overview of the course outline, content covered and objectives for the week. We also cover the lab environment and get you connected to the hosted servers ready for the class.

## 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.

## 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.

## 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 for external access. 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, access policies and Authentication provider options including forms-based authentication and ADFS.

## Module 4 – Site Collections

This module covers the creation and management options for Site Collections including good practices for database sizing, performance 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.

## 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 such as managed metadata service, state service and the secure store service. 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.

## Module 6 – Application Management

A service application in SharePoint that allows SharePoint 2016 Administrators to set up their own on-premises 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.

## 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.

## 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 its components across multiple servers in your farm including custom deployed farms and Min Role farms.

## 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 gets leveraged by users in SharePoint through document and search preview.

## 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.

## 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 deploying content between farms using content deployment and working with master pages and page layout templates.

## 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.

## 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.

## 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.

## 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 3<sup>rd</sup> party options available and the pros and cons around all the options.

## 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.