

Microsoft Exchange Migration

(On-prem and Cross Tenant)

Duration (5 Days)

Course outline

Module 1: Planning and Managing Exchange Online

Lessons

- What is Exchange Online
- Managing Exchange Online Mailboxes
- Managing Office 365 Groups in Exchange Online
- Configuring Exchange Online Permissions
- Managing Exchange Online using PowerShell
- Plan and Configure Mail Flow
- Plan and Configure Email Protection

Module 2: Managing Recipient Objects and Resources

This module examines some of the most common tasks that messaging administrators perform - creating and configuring email recipients, lists, and resources. This module examines the different types of Exchange Server recipients, including how they differ from each other. The module then focuses on the various tasks that require you to create and manage Exchange recipients in Exchange, including user mailboxes, resource mailboxes, shared mailboxes, mail contacts, and mail users. You will also learn how to manage permissions for recipients, and how to create and manage groups.

Lessons

- Exchange Recipients
- Creating and Managing Exchange Recipients
- Managing Email Addresses, Lists, and Resources

Lab:

- Create Exchange Recipients
- Create Groups

Module 3: Managing the Transport Pipeline

In this module, you will learn about the different transport components of Exchange, how the message routing works, and how to configure the message flow for your organization. You will examine the tasks that messaging administrators must complete to configure message transport. You will review the message transport options and learn how to configure domains and connectors and how to implement an approval workflow for messaging. You will also learn how to manage transport rules, which are a very powerful configuration to control the message flow in your organization.

Lessons

- Overview of Transport Services
- Configuring Message Transport
- Managing Transport Rules

Lab:

- Configure Message Transport
- Create Connectors
- Create Mail Flow Rules

Module 4: Managing Role-Based Permissions

This module examines how messaging administrators manage role-based permissions, which is an essential task for any messaging administrator. Since Exchange Server and Exchange Online both use the Role Based Access Control (RBAC) permission model, this module examines the basics of RBAC management. The module concludes by examining how a messaging administrator must plan and configure permissions carefully so as not to put their environment or their entire Active Directory at risk.

Lessons

- Managing Admin Roles
- Managing User Roles
- Exchange Setup - RBAC and AD Split Permission

Lab:

- Manage Roles and Permission Policies

Module 5: Planning a Hybrid Environment

In this module you will examine the requirements necessary to implement a hybrid deployment, and you will learn about the features and components that are required when implementing a hybrid deployment. This module examines all planning aspects that are required before running the Hybrid Configuration Wizard. This includes the configuration options of the HCW, as well as the details on Organization Configuration Transfer (OCT) and the Hybrid Agent. The module concludes with a review of the mail flow options for a hybrid deployment.

Lessons

- Exchange Hybrid Deployment Requirements
- Planning to Run the Hybrid Configuration Wizard

Lab:

- Prepare Azure AD for Hybrid Synchronization

Module 6: Performing Mailbox Migrations

This module examines the options that are available for migrating email to Exchange Online, such as performing a migration or using FastTrack to move mailboxes from your existing mail servers to Exchange Online. This module summarizes the migration and co-existence options and recommends when to use which option. The module then examines the requirements for running an IMAP migration, the migration options that are available, and the steps that are performed during a migration. The module then examines how to plan and perform both a cutover and staged migration. It compares each of these two migration approaches, and you will learn about the requirements, planning activities, and migration process for each option. The module concludes by examining important additional migration tasks, such as migrating a PST file and the considerations for a Public Folder migration.

Lessons

- Planning Mailbox Migrations
- Performing IMAP Migrations
- Performing Cutover and Staged Migrations
- Performing Advanced Migrations (Hybrid)

Module 7: Deploying and Troubleshooting a Hybrid Environment

In this module you will learn the key areas to plan for regarding Edge Transport servers. You will then learn about the requirements and best practices to configure a hybrid deployment, which is the first step for your Exchange organization, regardless of whether you want to connect your Exchange on-premises and Exchange Online organizations for long-term coexistence or as part of a cloud migration strategy. In this module, you will then examine how to manage a hybrid deployment and implement advanced hybrid functionality. You will cover the features that require a successful hybrid deployment such as Public Folder coexistence or OneDrive for Business attachment storage for on-premises mailboxes. This module concludes with an introduction to troubleshooting techniques for a hybrid deployment. You will learn how to troubleshoot directory synchronization issues including pass-through authentication (PTA) and single sign-on, Exchange transport, and client access troubleshooting as well as mailbox replication service troubleshooting.

Lessons

- Deploying and Managing an Edge Transport Server
- Configuring a Hybrid Deployment using the HCW
- Implementing Advanced Hybrid Functionality
- Troubleshooting Hybrid Deployments

Lab:

- Set Up your Hybrid Deployment
- Test your Hybrid Deployment

Module 8: Performing Cross tenant mailbox migration

In this module, you will learn about planning and executing mailbox migrations across different tenants. The module covers essential considerations, best practices, and configuration steps for a seamless cross-tenant migration.

Lessons

- Licensing
- Preparing source and target tenants
- Prepare target user objects for migration

Lab:

- Demonstration of Cross tenant mailbox migration

Custom pre-requisites for SharePoint Migration

(5 Days)

➤ Module 1: Introducing SharePoint (On-prem)

o Module Overview

- Lesson 1: Key components of a SharePoint deployment
- Lesson 2: New features in SharePoint
- Lesson 3: SharePoint deployment options

➤ Module 2: Creating web applications and site collections (On-prem)

o Module Overview

- Lesson 1: Creating web applications
- Lesson 2: Configuring web applications
- Lab A: Creating and configuring web applications
- Lesson 3: Creating and configuring site collections
- Lab B: Creating and configuring site collections

➤ Module 3: Planning and configuring service applications (On-Prem)

o Module Overview

- Lesson 1: Introduction to service application architecture
- Lesson 2: Creating and configuring service applications
- Lab: Planning and configuring service applications

➤ Module 4: Configuring user profiles (On-Prem)

▪ Module Overview

- Lesson 1: Configuring the User Profile Service Application
- Lab A: Configuring user profiles
- Lesson 2: Managing user profiles and audiences
- Lab B: Configuring My Sites and audiences

➤ Module 5: Configuring Enterprise Search (On-Prem)

o Module Overview

- Lesson 1: Understanding the Search Service Application architecture
- Lesson 2: Configuring Enterprise Search
- Lab A: Configuring Enterprise Search
- Lesson 3: Managing Enterprise Search
- Lab B: Optimizing the search experience

➤ Module 6: Monitoring and maintaining a SharePoint 2016 environment (On-Prem)

o Module Overview

- Lesson 1: Monitoring a SharePoint 2016 environment
- Lab A: Monitoring a SharePoint 2016 deployment
- Lesson 2: Tuning and optimizing a SharePoint 2016 environment
- Lesson 3: Planning and configuring caching
- Lesson 4: Troubleshooting a SharePoint 2016 environment
- Lab B: Investigating page load times

➤ Module 7: Introduction to Office 365 and SharePoint Online (SPO)

o Module Overview

- Create an Office 365 Tenant for Personal Skills Development
- Overview of Office 365
- Overview of SharePoint Online
- Accessing Administration Portals in Office 365
- Managing SharePoint Online with PowerShell

➤ Module 8: Configuring SharePoint Policies and Setting (SPO)

o Module Overview

- External Access in Office 365▪ SharePoint Access Controls
- SharePoint Settings
- OneDrive Settings

➤ Module 9: Working with Site Collections (SPO)

o Module Overview

- Creating Site Collections
- Using with Site Templates
- Define Site Collection Administrators and Site Owners
- Configure External Sharing Settings at Site Collection Level
- Delete and Restore Site Collections
- Working with Hub Sites
- Managing Site Collections with PowerShell

➤ Module 10: Working with Sites (SPO)

o Module Overview

- Apps, Lists and Libraries
- Pages and News
- Site Permissions
- Navigation and Site Settings

➤ Module 11: SharePoint and Microsoft Teams (SPO)

o Module Overview

- What is Microsoft Teams
- How Microsoft Teams integrates with SharePoint Online
- Permissions with Microsoft Teams
- Private and Shared Channels

➤ Module 12: User Profiles (SPO)

o Module Overview

- User Profiles in SharePoint Online
- Using Delve to customize a profile

➤ Module 13: Managed Metadata and Content Types (SPO)

o Module Overview

- Site Columns
- Using the Term Store incl Managed Metadata Columns
- Site Content Types and Tenant Content Types

- Content Types for List \ Content Types for Libraries

- Module 14: Microsoft Search (SPO)

- o Module Overview

- What is Microsoft Search
 - Configure Integrations
 - Configure Answers
 - Review Insights and Usage Statistics

- Module 15: Troubleshooting SharePoint Online (SPO)

- o Module Overview

- Monitoring Office 365 Service Health
 - Troubleshooting Office 365 Connectivity and Service Issues
 - Troubleshooting SharePoint Online▪ Reporting and Monitoring SharePoint Online Usage

SharePoint Migration Table of Content

(4 Days)

Module 1: Introduction to Migration ○ Module Overview

- Lesson 1: Migration Overview
- Lesson 2: Migration Options
- Module 2: Tools and Services for Migration ○ Module Overview
- Lesson 1: Tools for Migration
- Lesson 2: Services for Migration
- Lesson 3: Comparing Tools for Migration
- Module 3: SPMT - SharePoint Migration Tool ○ Module Overview
- Lesson 1: Understanding SPMT (one Drive migrations)
- Lesson 2: Understanding additional feature of the tools
- Lesson 3: Boundaries and limits
- Lesson 4: Update history and improvement
- Module 4: Migration stages ○ Module Overview
- Lesson 1: Pre-Migration check points
- Lesson 2: Migration Configuration
- Lesson 3: Initiating Migration
- Lesson 4: Migration Monitoring
- Lesson 5: Post Migration Verification
- Module 5: Migration Report Review/Analysis ○ Module Overview
- Lesson 1: Exporting Reports
- Lesson 2: Review and analysis of reports
- Lesson 3: Remediation (If there is an issue)
- Module 6: Conclusion
- Lesson: Review of the course