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E2E Complete 4.0

Requirements

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Section 1. Introduction

This document details the requirements for implementing Binary Tree’s E2E Complete.

Section 2. Prerequisites

2.1 Hardware Prerequisites

E2E Complete requires the use of a Windows 2008 R2 or 2012 R2 server to host the migration management software.

Component	Requirement
Processor	Minimum: Intel Xeon quad core 1.8 Ghz (x64) or AMD equivalent
Memory	Minimum: 8 GB 8GB of RAM on the E2E Complete server should be sufficient for an environment containing 15,000 mailboxes or less. But for larger environments, or for environments containing large Public Folder hierarchies, increasing the memory to 16GB is recommended.
Disk Space Requirements	Minimum: 100 MB for application installation and 2 GB for database storage.
Display	1280 x 768 or higher resolution monitor
Other	DVD Drive, Keyboard and Microsoft Mouse (or compatible pointing device), Internet access

Notes

E2E Complete should not be installed on an Exchange server.

2.2 Software Prerequisites

General Installation Requirements

- Windows Server 2008 R2 or 2012 R2
- PowerShell 2.0, 3.0, or 4.0
- IIS (included in Windows Server 2008 R2)
- .NET 3.5.1

- .NET 4.5.2 Framework (if not already installed, it will be downloaded and installed automatically if there is an Internet connection)

Notes

When running E2E Complete with PowerShell 3.0 or 4.0 installed, you may experience a small increase in memory usage of the MCP service compared with environments which use PowerShell 2.0.

Networking Requirement

During installation, any prerequisites missing will be downloaded automatically and thus require internet connection.

SQL Server Installation Requirements

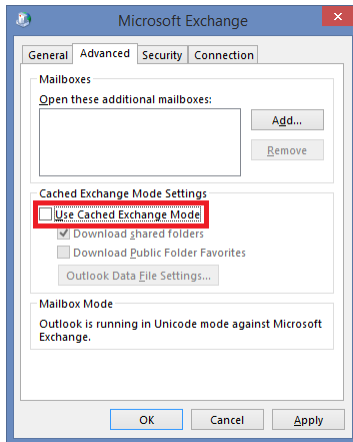
- SQL Server 2008 R2 or 2012
- SQL Server 2008 R2 Express with Advanced Services (SQL browsing service does not run by default. Please ensure this service is running.) (If running SQL Server 2008 R2 Express on a remote server, ensure that the TCP/IP protocol (at SQL Server Configuration Manager>SQL Server Network Configuration>Protocols for SQLEXPRESS) is enabled and the TCP port (at Properties>IP Addresses>IPAll) is set to 1433. Refer to the [E2E: SQL Server \(or Express\) Setup](#) Knowledge Base article for additional set up information.
- Network connectivity to SQL Server

Additional Requirements

- E2E Complete utilizes the remote abilities of PowerShell 2.0 to communicate with Exchange 2010 or Exchange 2013. Therefore, **provide a Fully Qualified Domain Name (FQDN) of the Exchange 2010 or Exchange 2013 server** that would communicate remotely through PowerShell. Ensure that PowerShell Remoting is enabled on the Exchange Server.
- FQDN of SQL server.
- Internet Explorer Enhanced Security Configuration (IE ESC) must be disabled.
- Public Folder migration to Exchange 2013 requires Exchange 2013 CU5+.
- The registry must be modified to disable User Account Control (UAC). In the registry, navigate to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\policies\system, set DWORD EnableLUA to 0, and then reboot.



- If using Outlook profiles, if Use Cached Exchange Mode is enabled, E2E Complete will automatically disable this mode when the profile is selected.



Supported Outlook Versions

The following Outlook versions are supported on the E2E Complete Migration Server.

- Outlook 2010 SP2 32bit
- Outlook 2013 32bit

2.3 Account Requirements

Account Services

- Administrative account(s) are needed for the following:
 - MCP Windows service
 - Active Directory access
 - Exchange 2010/2013/2016 access (PowerShell)
 - Exchange 2003 access (WMI)
 - Exchange 2007 access (EWS)
 - Public folder access (MAPI)
 - SMTP notifications
 - SQL Server database

Account Permissions

- Administrative account(s) require the following permissions:
 - Member of the "Exchange Organization Administrators" and "Organization Management" group
 - Local administrator on the E2E server

Inter-Org Public Folder Migration Requirements

- The Target/Home account must be mailbox enabled and added to the Exchange "Public Folder Management" security group in the target forest.



- The Source account must be mailbox enabled and added to the Exchange “Public Folder Management” security group (“Exchange Public Folder Administrators” in Exchange 2003 and 2007) in the source forest.

Notes

Both the Source and Target mailbox enabled accounts for Public Folder migration should be logged into first, to avoid a warning during E2E Configuration.

Public Folder Migration to Office 365 using PowerShell Requirements

- The Public Folder account used for Office 365 must be a member of the PublicFolders and MailEnabledPublicFolders role groups (in Office 365 EAC, Permissions > Admin roles).

SQL Accounts and Permissions

The following accounts must be created with the respective permissions in SQL before commencing installation of E2E Complete.

If you are using a **single** account to connect to your database, and Active Directory and Exchange connectivity, you must grant these database permissions to the account:

- **E2E MCP Service Identity** - Only requires a SQL Login Account unless the account is also used as the SQL setup account, then it must have the following server role assigned:
 - dbcreatorAfter the database has been created, you can remove dbcreator and assign the following specific permissions:
 - db_datareader
 - db_datawriter
 - db_ddladmin

If you are using **multiple** accounts to connect to your database, and Active Directory and Exchange connectivity, you must grant the following database permissions:

- **Setup SQL Account** – This allows the SQL server administrator to retain accounts for E2E that require the least amount of privileges when the application is running in a production environment. The setup login must exist prior to the configuration and requires at a minimum dbcreator rights, and can either be a Windows or SQL Login.
 - dbcreator rights
 - Windows (Current User)
 - SQL Login
- **Application SQL Account**
 - db_datareader
 - db_datawriter
 - db_ddladmin
- **E2E MCP Service Identity**
 - public



- **Public Folders Identity** - The “E2E Public Folder Worker” runs in the context of the currently logged on user. This user must have read/write access to the E2E database if SQL Server authentication is not being used.

Notes

As stated, the SQL login account(s) must already exist in order for the mapping to be established to the database account using these rights. This is important as these database accounts and rights are established when the database is created. If you are using a single SQL account for application access, it will need db_datareader/db_datawriter /db_ddladmin.

The E2E MCP account requires db_ddladmin to control the schema (identity values and constraints) when using bulk copy operations as part of the data population.



2.4 Public Folder Worker Prerequisites

The E2E Public Folder worker can be installed on the following operating systems:

- Windows 7 64-bit (32 bit is not supported)
- Windows 8.1 64-bit
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2012 R2

E2E Public Folder worker requires a 64-Bit Operating System to run.

Hardware Requirements

Component	Requirement
Processor	Minimum: 2 processor cores for workstation OS's and 4 cores for server OS's
Memory	Minimum: 2GB Ram for workstation OS's, 4GB for 2008R2, and 6GB for 2012R2
Disk Space Requirements	Minimum: 4GB free disk space
Other	<p>The workstation requires Microsoft .NET 4.5.2 framework. The E2E Workstation installer will download this framework from Microsoft if it is not already installed. If the end user network environment does not allow the workstations to access the internet the end user must acquire and install this.</p> <p>It is recommended that ALL Microsoft updates and service packs are installed before using the E2E workstation</p> <p>The workstation requires that either Outlook 2010 SP2 32bit, Outlook 2013 32bit, or Microsoft Exchange Server MAPI and Collaboration Data Objects 1.2.1 (MAPI/CDO) is installed. Outlook is the preferred MAPI provider but it is the responsibility of the end user to install a licensed copy on each machine. If the end user does not want to use Outlook, the E2E Workstation installer contains the correct version of MAPI/CDO and will install it if Outlook is not present on the system. It is recommended that end users DO NOT pre-install MAPI/CDO. Note that, Outlook 2010 can connect to all versions of Exchange Server, Outlook 2013 cannot connect to Exchange 2003, and MAPI/CDO cannot connect to Exchange 2016 and O365.</p> <p>The workstation computers should be joined to the same domain as the main E2E server and logged into with the <domain>\E2EServiceAccount. This account should be a member of the workstations "Local Administrators" group.</p> <p>The registry must be modified to disable User Account Control (UAC). In the registry, navigate to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\policies\system, set DWORD EnableLUA to 0, and then reboot.</p>



About Binary Tree

Binary Tree is a singularly focused global provider of migration software and solutions for Lotus Notes, Microsoft Exchange, Active Directory, and Windows Server environments. Since 1993, Binary Tree has enabled more than 6,000 customers to migrate more than 35 million email users, and facilitated some of the most complex migrations on the planet. Its software solutions are available for migrating from Exchange 2003/2007/2010/2013 and Lotus Notes to on-premises and online versions of Microsoft Exchange, as well as migrations of Active Directory and Windows Server environments. Binary Tree is a Microsoft Gold Messaging Partner, an IBM Advanced Business Partner, and is one of Microsoft's preferred vendors for migrating to Microsoft Office 365. The Company is headquartered outside of New York City with offices in Hong Kong, London, Paris, Stockholm and Sydney. For more information, visit us at www.binarytree.com.

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