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Binary Tree Migrator Pro for Exchange 20.11.0

Installation and Configuration Guide



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Legend

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CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

IMPORTANT, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.

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1. Introduction

1.1 Purpose

The purpose of this document is to provide information on how to get started using Binary Tree Migrator Pro for Exchange including prerequisites, installation and configuration instructions, and an introduction to the Admin Portal.

1.2 Audience

This document assumes the reader has some experience using Microsoft Exchange and some basic Administration skills. If Outlook Client and Exchange Administration topics mentioned in this document are not understood, please reference the Microsoft Outlook and Exchange System Administration documentation.

1.3 Getting More Information

The Migrator Pro for Exchange *User Guide* provides information on how to use Binary Tree Migrator Pro for Exchange to perform a migration from Microsoft to Microsoft Exchange or Microsoft Office 365 Exchange Online.

For additional resources, refer to Support: https://support.guest.com

1.4 About Migrator Pro for Exchange

Migrator Pro for Exchange enables migration from one version of Microsoft Exchange to another. It combines a backend policy engine with front-end management components, which give project managers and administrators more control across their Exchange upgrades.

Key Features and Functions

- The workflow engine allows administrators to create migration tasks, select objects, schedule jobs, and provide user self-service.
- The unified console enables flexible filtering and selection of mailbox objects.
- Content included in the mailbox is moved in one transaction, therefore mailbox security and permissions (delegates) are retained.
- Reports on object state and migration status feed into the console to reduce the effort required to create tasks.
- Does not require server hosted agents for any of its functionality.
- Public Folder migration support for Exchange 2003, Exchange 2007, Exchange 2010, Exchange 2013, Exchange 2016, and Office 365.
- Support for migrations to Office 365, resource forest migrations, and Outlook 2003 profile updates.

2. Installing Migrator Pro for Exchange

This section provides information for:

- Upgrading Migrator Pro for Exchange from an Earlier Version
- Necessary Pre-Installation Preparations
- Migrator Pro for Exchange Default Installation
- Migrator Pro for Exchange Advanced Installation or Upgrade
- Uninstalling Migrator Pro for Exchange

2.1 Upgrading Migrator Pro for Exchange from an Earlier Version

Migrator Pro for Exchange can be easily upgraded to a newer version by running the installation wizard for the new release. The wizard will detect any previous version and offer you the option to upgrade. The previously existing SQL database and configuration settings are preserved when upgrading.



Migrator Pro for Exchange provides a direct upgrade path only from its most recent prior GA version (and any subsequent minor releases). If you want to upgrade from an earlier version, we recommend incremental upgrades, one version at a time.

If the Migrator Pro for Exchange Installer detects a previous version of Migrator Pro for Exchange, it will skip the screen that offers the *Default Installation* option (as described in section 2.3 below), and will perform an upgrade using the *Advanced Installation* (as described in section 2.4 below).



Even if a prior Migrator Pro for Exchange version has been uninstalled, the Installer will still perform the installation as an upgrade (by an Advanced *Installation*) if it finds this entry remaining in the Windows registry:

HK_Local_Machine\Software\Binary Tree\E2E

If you have uninstalled a prior Migrator Pro for Exchange version and now want to run the *Default Installation* option for the new version, you must first remove that entry from the registry.

2.2 Necessary Pre-Installation Preparations

The Migrator Pro for Exchange server should be installed in one of the following locations:

- For Intra-org (same forest) or Office 365 installations the Migrator Pro for Exchange server should be installed in the Source forest.
- For Inter-org (cross forest) migrations, the Migrator Pro for Exchange server should be installed in the Target forest.
- For migrations to an Exchange resource forest, the Migrator Pro for Exchange server should be installed in the resource forest.

Prior to installing Migrator Pro for Exchange, you need to identify the primary Exchange 2010 and/or Exchange 2013 servers utilized as the PowerShell hosts.

Note also that Outlook must be installed on the Migrator Pro for Exchange server to facilitate MAPI transport for migrations. See the Migrator Pro for Exchange *Requirements* document for supported versions and other relevant notes.



Migrator Pro for Exchange supports either non-SSL or SSL mode for the PowerShell provider. If you want to utilize non-SSL, then no further action is required; however, if you want to utilize SSL mode for the PowerShell provider, you must make sure that the Migrator Pro for Exchange system trusts the certificate on your Exchange server.

Migrator Pro for Exchange requires a non-self-signed certificate on the Exchange 2010 and/or 2013 servers that will host PowerShell. This can be a public certificate (i.e., VeriSign) or a private certificate (i.e. Windows Certificate Services). The PowerShell host servers need not also be a Client Access Server (CAS) host.

The image below displays the Exchange Certificates in Exchange 2010. The interface in other versions of Exchange is different.

			E2	E-EX10
			b	Manage Mailbox Role
E2E-EX10		1 object		Manage Client Access
Exchange Certificates				Manage Hub Transport
Name 🔺	Self Signed	Status Servic		Manage Diagnostic Log
5 E2E-Ex10	False	The certificate is valid for Exchange Server usage. IMAP,		New Exchange Certific
				Import Exchange Certi
				Properties

It is recommended that the PowerShell host servers be under-utilized servers, so that any additional load on the production Exchange server can be avoided.

Note also that your remote PowerShell connection will require port 5985 be open for http, and port 5986 for https.

Once the PowerShell machine is identified, perform the following prerequisite PowerShell commands. This applies to both SSL and non-SSL modes.

To execute these commands, launch the Exchange Management Shell:

- Click Start, and then point to All Programs. Expand Microsoft Exchange Server 2010 (shown in the image below), Microsoft Exchange Server 2013, or Microsoft Exchange Server 2016 and then click Exchange Management Shell.
- 2. In the Exchange Management Shell window, execute the following command:

Enable-PSRemoting

This command configures the machine on which it is run, to receive Windows PowerShell remote commands.



- 3. Press < Y> to continue.
- 4. Press < Y> again to confirm.



5. The next command lets you authenticate against the server being used as the remote PowerShell host server:

Set-PowerShellVirtualDirectory "<Exchange Server name>\PowerShell (Default Web Site)" -BasicAuthentication \$true

If using non-SSL mode, Windows Authentication should also be enabled using this command that includes the additional Windows Authentication command:

Set-PowerShellVirtualDirectory "<Exchange Server name>\PowerShell (Default Web Site)" -BasicAuthentication \$true-WindowsAuthentication \$true



NOTE !

When the command is executed, even though it configures the system for basic authentication, all the data, including passwords, are encrypted using SSL.

Default Installation vs. Advanced Installation

Migrator Pro for Exchange is installed by an Installation wizard. The Installation wizard offers you a choice of two installation types:

- **Default Installation:** The wizard will scan your environment to determine the information necessary for installation, and then will install according to those specifications. This option will automatically install SQL Express if no SQL server is detected on the local machine.
- Advanced Installation: The wizard will lead you through a series of screens for you to specify where you want to install Migrator Pro for Exchange, and the names, locations, and access credentials for certain network and program components, and will then perform the installation to those specifications.

The *Default Installation* option will suit most organizations. The *Advanced Installation* will be appropriate if you want to specify particular components other than those the wizard would find and use by default. The two options are described separately in the next two sections below.

2.3 Migrator Pro for Exchange Default Installation

To run the Default Installation option in the Installation wizard:

- 1. Once the PowerShell commands are successfully executed, navigate to the folder where you saved the Migrator Pro for Exchange Installation files, then right-click on the *Migrator Pro for Exchange Install* file and select to **Run as Administrator**.
- 2. Click Run on the security warning, and then click Next on the Welcome screen:



3. The wizard then prompts you to review and accept the Migrator Pro for Exchange license and maintenance agreement. To accept the agreement, select the **I accept...** radio button and click **Next**.



4. If you accept the license terms the wizard then prompts you to choose between **Default Installation** and **Advanced Installation**. Click on the **Default Installation** option.



If the Migrator Pro for Exchange Installer detects a previous version of Migrator Pro for Exchange, it will skip this screen that offers the *Default Installation* option, and will perform an upgrade using the *Advanced Installation* process. Even if a prior Migrator Pro for Exchange version has been uninstalled, the Installer will still perform the installation as an upgrade (by an *Advanced Installation*) if it finds this entry remaining in the Windows registry:

HK_Local_Machine\Software\Binary Tree\E2E

If you have uninstalled a prior Migrator Pro for Exchange version and now want to run the *Default Installation* option for the new version, you must first remove that entry from the registry.

The wizard then scans your environment to gather the information it needs, and to determine whether you need to install any of several required accessory applications. A progress meter shows the wizard's progress:

Installin	g Binary Tree Migrator Pro for Exchange	¢
5	The program features you selected are being installed. Installing Windows features/roles	

These accessory components are required for the Migrator Pro for Exchange installation:

• Windows features IIS and .NET Framework 4.8 full

- SQL Server 2017 Express
 - [local]\SQLEXPRESS installs as a named instance using the format servername\SQLExpress
 - o Installs in Mixed mode with install account as SA, and local SA password is Password1
- Silverlight 5
- Microsoft Online Sign-on assistant
- Azure AD PowerShell module

If you already have these accessory apps installed, you can just skip ahead to the next step below. Otherwise, the Migrator Pro for Exchange installer will prompt you to authorize the installation of the ones you need. In that case, click the **Install** button to accept. If you have to install Microsoft .NET 4.8 Framework, you may also be prompted to accept Microsoft's license agreement. If so, mark the checkbox for **I have read and accept...**, and click **Install**.

The installation of accessory applications may take several minutes. Some of the newly installed components may then require a system reboot, in which case the wizard will also prompt you to authorize the reboot. Click **Yes** to authorize the reboot. If you do have to reboot, the wizard will automatically resume at the next screen in this process (next step below).

5. The wizard then prompts you for the login credentials Migrator Pro for Exchange should use for its MCP Service and the Migrator Pro for Exchange AppPool. Enter the credentials and click **Next**.

Binary Tree Migrator Pro for Excha	nge	×
Logon credentials are necessary	to continue.	
	Enter credentials to use for the 'Binary Tree Migrator Pro for Exchange MCP Service' and Exchange Pro Approof	-
Quesť	The 'MCP Service' user must have permission to access SQL if you selected 'windows authentication'.	
	This user will also be added to the Active Directory Security Group 'E2E_Admins' to limit access to the Migrator Pro for Exchange Administration Portal .	
	Example: DOMAIN\username	
	User Name.	
	AZLab054\D0 admin]
	Password:	
	••••••]
InstaliShield	< Back (Next) Cancel]



The installation resumes when you click **Next**, and a progress meter shows the progress, and notifies you when the installation is complete:

- 6. Click the **Finish** button to close this portion of the wizard. Another progress meter shows the process progress through this last phase of the installation, and the wizard then notifies you when the process is complete:
- 7. Click this **Finish** button to close the Migrator Pro for Exchange Installer.

Now that the physical installation is complete, see section 3 below to configure Migrator Pro for Exchange for your environment and purposes. The first time you run the Migrator Pro for Exchange Admin Portal after this installation, Migrator Pro for Exchange will prompt you to define your target forest.

2.4 Migrator Pro for Exchange Advanced Installation or Upgrade

To run the *Advanced Installation* option in the Installation wizard (for either a fresh installation or an upgrade):

1. Once the PowerShell commands are successfully executed, navigate to the folder where you saved the Migrator Pro for Exchange Installation files, then right-click on the *Migrator Pro for Exchange Install* file and select to **Run as Administrator**.

2. Click Run on the security warning, and then click Next on the Welcome screen:



 The wizard then prompts you to review and accept the Migrator Pro for Exchange license and maintenance agreement. To accept the agreement, select the I accept... radio button and click Next.



4. If you accept the license terms the next prompt asks you to choose between **Default Installation** and **Advanced Installation**. Click on the **Advanced Installation** option.



If the Migrator Pro for Exchange Installer detects a previous version of Migrator Pro for Exchange, it will skip this screen that offers the *Default Installation* option, and will perform an upgrade using the *Advanced Installation* process.

The wizard then scans your environment to gather the information it needs for installation, and to determine whether you also need to install any required accessory applications. A progress meter shows the progress:



These accessory components are required for the Migrator Pro for Exchange installation:

- Windows features IIS and .NET Framework 4.8 full
- Silverlight 5
- Microsoft Online Sign-on assistant
- Azure AD PowerShell module

If you already have these accessory apps installed, you can just skip ahead to the next step below. Otherwise, the Migrator Pro for Exchange installer will prompt you to authorize the installation of the ones you need. In that case, click the **Install** button to accept. If you have to install Microsoft .NET 4.8 Framework, you may also be prompted to accept Microsoft's license agreement. If so, mark the checkbox for **I have read and accept...**, and click **Install**.

The installation of accessory applications may take several minutes. Some of the newly installed components may then require a system reboot, in which case the wizard will also prompt you to authorize the reboot. Click **Yes** to authorize the reboot. If you do have to reboot, the wizard will automatically resume at the next screen in this process (next step below).

5. On the installation wizard Welcome screen, click Next.

Binary Tree Migrator Pro for Excha	nge >	<
Quest		2
	Welcome to the installation wizard for Binary Tree Migrator Pro for Exchange	
1	This will install Binary Tree Migrator Pro for Exchange version 20.11.0000 on your computer. To continue, click Next.	
InstanSheld	< Back [Next>] Cancel	1

- 6. On the *Destination Location* screen, select the destination folder for the installation and then click **Next**.
- On the Database Server Login screen, select or browse to the Migrator Pro for Exchange database server you are installing to, select the connection authentication method, and enter the Name of database (or Browse to it and select it). Then click Next.
- 8. The *Database Server Login* screen appears again, this time for the Migrator Pro for Exchange Logging Database. Select or browse to the logging database server you are installing to, select the connection authentication method, and enter the **Name of database** (or **Browse** to it and select it).

Database Server Login		×
Select database server and auth	entication method	
	Connection Name: Logging_Database	
	Database server that you are installing to:	
Quest	local)/SQLEXPRESS	~
		Browse
	Connect using:	
	Windows authentication	
	C SQL Server authentication using Login ID and password below	
	Login ID:	
	Password:	
	Name of database:	
	ExchangePro_20.7.1.5_Log	
		Brgwse
InstaliShield	< Back Next >	Cancel
Binary Tree Migrator Pro for Excha	nge	×
Database Server Login		
Select database server and auth		
	entication method	
	Connection Name: ExchangePro_Database	
	Connection Name: ExchangePro_Database Database server that you are installing to:	
Quest	Connection Name: ExchangePro_Database	~
	Connection Name: ExchangePro_Database Database server that you are installing to:	Sconse
	Connection Name: ExchangePro_Database Database server that you are installing to: [liocal)\SQLEXPRESS	V Browse
	Connection Name: ExchangePro_Database Database server that you are installing to:	Biowse
	Connection Name: ExchangePro_Database Database server that you are installing to: [local)(SQLEXPRESS	Bgowse
	Connection Name: ExchangePro_Database Database server that you are installing to: [local)\SQLEXPRESS Connect using: C Windows authentication	Stowse
	Connection Name: ExchangePro_Database Database server that you are installing to: [.jocal)\SQLEXPRESS Connect using: C Windows authentication © SQL Server authentication using Login ID and password below	Browse
	Connection Name: ExchangePro_Database Database server that you are installing to: [.jocal)(SQLEXPRESS Connect using: C Windows authentication SQL Server authentication Login ID:	Вромзе
	Connection Name: ExchangePro_Database Database server that you are installing to: [local)(SQLEXPRESS Connect using: C Windows authentication SQL Server authentication using Login ID and password below Login ID: Sa	Browse
	Connection Name: ExchangePro_Database Database server that you are installing to: [local)\SQLEXPRESS Connect using: C Windows authentication SQL Server authentication using Login ID and password below Login ID: Sa Password:	Browse
	Connection Name: ExchangePro_Database Database server that you are installing to: [/local)\SQLEXPRESS Connect using: C Windows authentication SQL Server authentication using Login ID and password below Login ID: Sa Password: Name of database:	Browse
	Connection Name: ExchangePro_Database Database server that you are installing to: [local)\SQLEXPRESS Connect using: C Windows authentication SQL Server authentication using Login ID and password below Login ID: Sa Password:	Browse
	Connection Name: ExchangePro_Database Database server that you are installing to: [/local)\SQLEXPRESS Connect using: C Windows authentication SQL Server authentication using Login ID and password below Login ID: Sa Password: Name of database:	V Browse
	Connection Name: ExchangePro_Database Database server that you are installing to: [/local)\SQLEXPRESS Connect using: C Windows authentication SQL Server authentication using Login ID and password below Login ID: Sa Password: Name of database:	

Then click Next.

9. On the *Passphrase* screen, enter a passphrase to secure secrets stored in the SQL database. Then click **Next**. Store this phrase in a secure place for future reference. This phrase will be needed for all installations that access the SQL database.

Binary Tree Migrator Pro for Exchan Enter a Passphrase to secure to		×
Quest	Store this phrase in a secure place for future reference. You will need this phrase for all installations that access the SQL database.	_
	Passphrase	
	Re-Enter	
.		
Installaned	< Back Next > Canc	cel

10. On the *Login* screen, enter the **User Name** and **Password** to use for the Binary Tree Migrator Pro for Exchange MCP Service and Migrator Pro for Exchange AppPool and then click **Next**.

Binary Tree Migrator Pro for Exch Login Logon credentials are necessary		×
Quesť	Enter credentials to use for the 'Binary Tree Migrator Profor Exchange MCP Service' and 'Exchange Mro AppMoor The 'MCP Service' user must have permission to access SQL if you selected 'windows authentication'. This user will also be added to the Active Directory Security Group 'E2E_Admins' to limit access to	•
	the Migrator Profor Exchange Administration Pottal . Example: DOMAIN/username User Name. AZLab054/D0.admin	
	Password:	
InstallShield	< Back [New >] Cancel	1

11. On the *Migrator Pro for Exchange Administrative Group* screen, enter an Active Directory Security Group to limit access to the Migrator Pro for Exchange Admin Portal, and then click **Next**. Note that *E2E_Admins* is the default group but a different group name can be entered.

Binary Tree Migrator Pro for Exc Edit Data	hange	×
Binary Tree Migrator Pro for Excha Ready to Install the Program The wizard is ready to begin insta		-
Quesť	Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
		_
Instalishield	< Back Next > C	ancel

12. On the Ready to Install the Program screen, click Install.

The installation process may take a few minutes, and the window shows a progress meter while you wait.

Click **Cancel** if you want to cancel. The installer will first check to determine if the server has adequate disk space, and will alert you if there is not enough space available for installation.

13. When installation is complete, the wizard Complete screen appears. Click **Finish** to close the installer program and return to the Migrator Pro for Exchange Installer.



14. And click Finish again to close the Installer.

When the installation completes, the wizard creates a shortcut icon on the Desktop to launch **Migrator Pro for Exchange**. This entry is also added to the Windows **Start** menu along with entries for the **Migrator Pro for Exchange Worker**.



Now that the physical installation is complete, see section 3 below to configure Migrator Pro for Exchange for your environment and purposes. The first time you run the Migrator Pro for Exchange Admin Portal after this installation, Migrator Pro for Exchange will prompt you to define your target forest.

2.5 Uninstalling Migrator Pro for Exchange

To uninstall Migrator Pro for Exchange, go to Programs and Features from the Windows Control Panel:

- 1. Click Start, and then click Control Panel.
- 2. Click Programs and Features, and then select Migrator Pro for Exchange from the list.
- 3. Click **Uninstall**. Uninstalling Migrator Pro for Exchange also uninstalls Migrator Pro for Exchange Worker that is installed on the Migrator Pro for Exchange console.

NOTE !

If other Migrator Pro for Exchange Workers have been setup on other machines, they may need to also be uninstalled.

- 4. Click Yes.
- 5. Click Finish.

3. Configuring Migrator Pro for Exchange

The first time you run the Migrator Pro for Exchange Admin Portal after installing the software (in section 2 above), Migrator Pro for Exchange will prompt you to define your target forest. Your target forest can reside in a local Exchange environment, or may be a tenant forest in Office 365.

Use the New Forest wizard to define your target forest.

Double-click the Migrator Pro for Exchange shortcut on the Desktop, or Migrator Pro for Exchange in the Windows **Start** menu.

1	Exchange Pro ^
Binary Tree	Binary Tree Migrator Pro for Excha
Migrator Pro for Exchange	Dinary Tree Migrator Pro for Excha

The Admin Portal opens, and Migrator Pro for Exchange starts its New Forest wizard with the **Migrator Pro for Exchange License** screen:

Select License File	
	Browse
OR Paste License Kev	
	Add License
No Licenses Found! License Details	

Click **Browse** to locate your license file (*.*lic*) or copy and paste the license key and click **Add License**. Then click **Next**. Migrator Pro for Exchange then validates the license file and displays the license details. Click **Next**.

Migrator Pro for Exchange then begins a series of screens for you to define your target forest.

Office 365 Migration ^{2 of 6}
Is this an Office 365 Migration?
• Yes
O No
Previous Next Finish

This screen asks whether your target forest is a local Exchange forest, or a tenant forest in Office 365.

If you are migrating to an Office 365 target forest: Click the **Yes** option, then click **Next**, and continue this procedure in section 3.1.1 below.

If you are migrating to an on-premises Exchange forest: Click the **No** option, then click **Next**, and continue this procedure in section 3.1.2 below.



If you are migrating to Office 365 but you don't configure the O365 forest now, you can configure an on-premises Exchange forest first, and then the O365 forest later, and Migrator Pro for Exchange will automatically switch the two. That is, Migrator Pro for Exchange will correctly configure the onpremises forest as the source and the O365 forest as the target.

3.1 Defining an Office 365 (Tenant) Target Forest

If your target forest is in a local Exchange environment (not in Office 365), skip ahead to section 3.1.2 below.

Continuing this procedure from the Office 365 Migration screen, where you clicked **Yes** to begin defining an Office 365 Tenant forest:

O365 Forest	3 of 6
Please enter the name of the Forest you v add to Exchange Pro. This should be the top-level domain. O365 Forest	
ır606469.onmicrosoft.com	
Previous Next	Finish

Enter the name of the tenant target forest, and click **Next**.

Please enter the account used t	ne o make Exchange (Online calls.
	o mane exchange e	Collar
User Name minstrator@mmr606469.onmicr	soft com	
ministrator @miniode405.0mmet	55011.0011	
Password		
•••••		
Public Folders Migration Mode		
<no selection=""></no>	~	
Msol PowerShell Host Name		
for modern domented don en		
'outlook.office365.com' as the	hostname for	
'outlook.office365.com' as the Microsoft 365 tenant. For basis	hostname for	
For modern authentication en 'outlook.office365.com' as the Microsoft 365 tenant. For basis authentication enter 'ps.outloo	hostname for	
'outlook.office365.com' as the Microsoft 365 tenant. For basis	hostname for	
outlook.office365.com' as the Microsoft 365 tenant. For basis authentication enter 'ps.outloc	hostname for : :k.com'.	
'outlook.office365.com' as the Microsoft 365 tenant. For basi authentication enter 'ps.outloc Refer to this <u>link</u> for hostname	hostname for bk.com'.	
'outlook.office365.com' as the Microsoft 365 tenant. For basis	information DOD, 21Vianet	
"outlookoffice365.com" as the Microsoft 365 tenant. For basis authentication enter 'ps.outloo Refer to this <u>link</u> for hostname regarding Microsoft 365 GCC/	information DOD, 21Vianet	
"outlookoffice365.com" as the Microsoft 365 tenant. For basis authentication enter 'ps.outloo Refer to this <u>link</u> for hostname regarding Microsoft 365 GCC/	information DOD, 21Vianet	
"outlookoffice365.com" as the Microsoft 365 tenant. For basis authentication enter 'ps.outloo Refer to this <u>link</u> for hostname regarding Microsoft 365 GCC/	information DOD, 21Vianet	
"outlookoffice365.com" as the Microsoft 365 tenant. For basis authentication enter 'ps.outloo Refer to this <u>link</u> for hostname regarding Microsoft 365 GCC/	information DOD, 21Vianet	
'outlook.office365.com' as the Microsoft 365 tenant. For basis authentication enter 'ps.outloc Refer to this <u>link</u> for hostname regarding Microsoft 365 GCC/	information DOD, 21Vianet	

These *Exchange Online* settings are required for Migrator Pro for Exchange program access to Office 365.

Enter the **User Name** and **Password** for the account Migrator Pro for Exchange should use to access Office 365.

Specify a **Public Folders Migration Mode** from the drop-down list. *PowerShell* and *MAPI* are the two available methods. If the **Migration Mode** is not specified here, Migrator Pro for Exchange will use the *MAPI* migration method by default.

For **Msol PowerShell Host Name**, enter the Office 365 endpoint URL. The default Msol Host Name value is

outlook.office365.com. Refer to this <u>link</u> for hostname information regarding Microsoft 365 GCC/DOD, 21Vianet or Office 365 Germany dedicated tenants.

When you have entered the requested information, click Next.

Exchange (MAPI)	5 of 6
Please enter the account you would like to ma Exchange (MAPI) calls. This account is used t mailbox statistics and public folders as well a: & sync public folder contents.	o collect
User Name	
itor@mmr606469.onmicrosoft.com	
Domain\User Name or Username@Domain	
Password	
•••••	
Email Address	
itor@mmr606469.onmicrosoft.com	
Outlook Profile	
No Profile 🔹	
No Profile	
Blue	
HVH	
Previous Next Fir	nish

These *Exchange (MAPI)* settings are required only when migrating public folders in cross-forest migrations where no trusts exist.

Enter the **User Name**, **Password** and **Email Address** for the account Migrator Pro for Exchange should use for program calls to Exchange (MAPI), and specify the **Outlook Profile** the program should use.

When you have entered the requested information, click Next.



If Migrator Pro for Exchange is installed on a Windows 2012 server with Outlook 2010 as the MAPI provider: You must use an Outlook Profile to connect to a secondary forest.

If the MAPI provider is Outlook 2013: Both trusted and non-trusted Exchange 2013 forests can be reached without an Outlook Profile.

Summar	у ^{6 о}	f6
License	E2EComplete- BinaryTreeTrainingUseOnly.li c	
Forest	mmr606469.onmicrosoft.com	
Exchange Online User	administrator@mmr606469.o nmicrosoft.com	
Public Folder Migration Mode	MAPI	
MAPI User	administrator@mmr606469.o nmicrosoft.com	
MAPI Email	administrator@mmr606469.o nmicrosoft.com	
L		
Previous	Next Finish	

The *Summary* screen shows the settings and choices you have entered to configure your tenant target forest. Review the settings to make sure they are correct for the designated tenant forest. (If you want to change anything you can click **Previous** to return to an earlier screen.)

When these Summary screen values appear as they should, click **Finish** to save the forest configuration information.

When the forest configuration is saved, it appears on the *Configuration Settings* screen of the Migrator Pro for Exchange Admin Portal.

3.2 Defining a Local Exchange Target Forest

3 of 11

This section 3.2 applies only if your target forest is in a local Exchange environment (not in Office 365). A local Exchange target forest is defined when migrating Intra-org (no other forests would be needed), or when migrating Inter-org (a source forest would be defined).

Office 365 Migration ^{2 of 11}
Is this an Office 365 Migration?
○ Yes
⊙ No
Previous Next Finish

Please enter the name of the Forest you would like to

add to Migrator Pro for Exchange. This should be the

Target Forest

name of the top-level domain.

Target Forest

Resource Forest

Continuing this procedure from the Office 365 Migration screen, where you clicked No (as shown here) to begin defining a target forest in your local Exchange environment.

The first screen in this sequence to define a local target forest is this *Target Forest* screen. Enter the name of the **Target Forest** (top-level domain).

If the target forest you specify is configured as an Exchange Resource Forest environment, select the **Resource Forest** check box to create a "Linked User" relationship between the source and target account. This option applies only for an interorg migration where the target Exchange environment is located in a resource forest. For more information about resource forests, see Microsoft's article <u>http://technet.microsoft.com/enus/library/aa998031.aspx</u> and other Microsoft resources. Click **Next**.

In this Active Directory screen: Enter the **User Name** (in *Domain\Username* format) and **Password** of the account to use for Active Directory calls.

You can either automatically select a global catalog by selecting the **Auto-Detect a Global Catalog for this Forest** checkbox, or manually specify one in the Global Catalog field. Click **Next**.

Active Directory 4 of 11
Please enter the account you would like to make Active Directory calls. This account should have Read access to all Exchange objects in the Forest.
User Name
HVH\administrator
Domain\User Name or Username@Domain
Password
•••••
Auto-detect a Global Catalog for this Forest
Global Catalog
Previous Next Finish

PowerShell	5 of 11
Please enter the account you would like to m PowerShell calls. This account should have PowerShell Remoting access within the Exch organization. By default the AD account spe previously is used.	ange
User Name HVH\administrator Domain\User Name or Username@Domain	
Password	
Auto-detect PowerShell Hosts Exchange 2010 Host	
Exchange 2013 Host	
Exchange 2016 Host	
Verify PowerShell Host(s)	
Previous Next Fi	nish

In this *PowerShell* screen: Enter the **User Name** and **Password** of the account to use for PowerShell calls. By default, the program sets these values to the User Name and Password specified on the previous Active Directory screen, but you can change them here.

You can either automatically select the PowerShell hosts by keeping the Auto-detect the PowerShell Hosts checkbox selected, or deselect it to manually specify the Exchange 2010 Host, Exchange 2013 Host, and Exchange 2016 Host. If specifying the hosts manually, click the Verify PowerShell Host(s) button to validate connectivity to the PowerShell host servers.

Click Next.



When specifying a PowerShell Host manually, you must use a Fully Qualified Domain Name (FQDN). If you use an IP address, it will generate an SSL certificate error.

In this Exchange (MAPI) screen: Enter the User Name, Password and Email Address, and specify the Outlook Profile of the account to use for Exchange (MAPI) calls.

Click Next.

6 of 11



If Outlook is installed on the Migrator Pro for Exchange Server, an **Outlook Profile** should be used.

Exchange (MAPI)	6 of 11
Please enter the account you would like t Exchange (MAPI) calls. This account is us mailbox statistics and public folders as w & sync public folder contents.	ed to collect
User Name	
HVH\administrator	
Domain\User Name or Username@Domain	
Password	
•••••	
Email Address	
istrator@hiddenvalleyhospital.com	
Outlook Profile	
HVH 🔹	
No Profile	
Blue	
HVH	

SMTP	7 of 11
Please enter the account you would like to ma SMTP calls. This account should have SMTP re rights. We don't recommend using the 'administrator' account.	
User Principal Name	
histrator@hiddenvalleyhospital.com	
Password	
Reply Email Address	
histrator@hiddenvalleyhospital.com	
SMTP Server	
HVHex13.hiddenvalleyhospital.com	
SMTP Port	
25	
Send Test Email	
Previous Next Fini	sh

Staged Migrations	8 of 11
If you plan on migrating from Exchange 200	
Exchange 2013 or Exchange 2016, you will stage these migrations through an Exchang	
server. If you plan on migrating from Excha	-
to Exchange 2016, you will need to stage th migrations through an Exchange 2010 serve	
Exchange 2013 server. If needed, please sp information below.	ecify this
Enable staged migrations on this forest.	
Exchange Staging Server	
HVHEX13 ·	
Exchange Staging Database	
Mailbox Database 0496228736 🔻	
Previous Next F	inish

Mailboyaa	9 of 11
Mailboxes	
Select the sites, servers and databases to a Mailboxes. By default all content is include	
Default-First-Site-Name	
▲ IVHEX13	
Mailbox Database 049622	8736
Previous Next	Finish

In this *SMTP* screen: Enter the **User Principal Name**, **Password**, **Reply Email Address** (e.g., *user@domain.com*), **SMTP Server**, and **SMTP Port** of the account to use for SMTP calls.

Click Next.



Specifying SMTP information is not required at the time of configuration.

You must specify the **User Principal Name** (*user@domain.com*) and **Password** for the account that will be used to send email communications to end users.

By default, the Exchange 2010/2013 Simple Mail Transfer Protocol (SMTP) receives connector rejects mail from any "well known accounts" such as *Administrator*. We recommend you designate a different account for this purpose.

Make sure the service account being used has access to the Exchange 2003/2007 and 2010/2013/2016 servers.

On this *Staged Migrations* screen: Specify the Exchange 2010 or Exchange 2013 staging server/database that Migrator Pro for Exchange should use when migrating from Exchange 2003 to Exchange 2013, or from Exchange 2007 to Exchange 2016. Click **Next**.

On this *Mailboxes* screen: Select the sites, servers, and databases to search for mailboxes. All content is selected by default. Right-click in the list area to select options to expand/collapse the list or select/deselect all items. Click **Next**.



Forest

AD User

User

Hosts

MAPI User

SMTP User

SMTP Server

Previous

Staged Migrations Mailboxes

hvhex13.hiddenvalleyhospital

Finish

.com:25 Disabled

Sites: 0

Skip

In this Public Folders screen: Select the sites, servers, and databases to search for Public Folders. All content is selected by default. Right-click in the list area to select options to expand/collapse the list or select/deselect all items. Click Next.

11 of 11 Summary с hiddenvallevhospital.com hvh\administrator earlier screen.) Global Catalog Autodetect PowerShell hvh\administrator NOTE ! PowerShell Autodetect administrator@hiddenvalleyh ospital.com MAPI Email administrator@hiddenvalleyh ospital.com administrator@hiddenvallevh ospital.com SMTP ReplyTo administrator@hiddenvalleyh ospital.com

The Summary screen shows the settings and choices you have entered to configure your local target forest. Review the settings to make sure they are correct for the designated forest. (If you want to change anything you can click Previous to return to an

When these Summary screen values appear as they should, click Finish to save the forest configuration information.

> In a non-English locale, the date-time format of the operating system must be set to mmddyyyy (rather than *ddmmyyyy*) for Migrator Pro for Exchange to rationalize Office 365 mailboxes.

When the forest configuration is saved, it appears on the Configuration Settings screen of the Migrator Pro for Exchange Admin Portal.

4. Installing Migrator Pro for Exchange Public Folder Workers

This section includes instructions for the installing Migrator Pro for Exchange Public Folder Workers. Public Folder Workers can be used to allow distribution of Public Folder processing. Public Folder Workers can be assigned specific Public Folder processing roles including provisioning, content sync, change detection, and reporting.

To install the Migrator Pro for Exchange Public Folder Worker:

- Download or copy the Migrator Pro for Exchange Public Folder Worker installation executable (*Migrator Pro for Exchange Worker Installer*) to the device that will be used as a Public Folder Worker.
- 2. Right-click on the *Migrator Pro for Exchange Worker Installer* file and select to **Run as Administrator**. Click **Run** on the security warning.
- 3. The installer then scans your environment to gather the information it needs for installation, and to determine whether you need to install any of several required accessory applications.

If these accessory apps are already installed, just skip ahead to the next step below. Otherwise, the Migrator Pro for Exchange installer will prompt you to authorize the installation of the ones you need. In that case, click the **Install** button to accept. If you have to install Microsoft .NET 4.8 Framework, you may also be prompted to accept Microsoft's license agreement. If so, mark the checkbox for **I** have read and accept..., and click **Install**.

The installation of accessory applications may take several minutes.

4. When the accessory components are installed, the Migrator Pro for Exchange Worker installer *Welcome* screen appears. Click **Next**.



5. On the *Choose Destination Location* screen, you may **Browse** to an installation location and then click **Next**.

Binary Tree Migrator Pro for Excha	nge Worker	×
Database Server Login		
Select database server and auth	entication method	
	Connection Name: Logging_Database	
Ouert	Database server that you are installing to:	
Quesť	local)\SOLEXPRESS	~
		Browse
	Connect using:	
	 Windows authentication 	
	C SQL Server authentication using Login ID and password below	
	Login ID:	
	Password:	
	Name of database catalog:	
	ExchangePro_20201118165240_Log	
	[Browse
Instalishield	<back next=""></back>	Cancel

- 6. On the *Database Server Login* screen, select or browse to the Migrator Pro for Exchange database server you are installing to and select the connection authentication method. Then, in the **Name of database catalog** field, browse to and select the database configured for Migrator Pro for Exchange (Do not enter a new name). Click **Next**.
- 7. The *Database Server Login* screen appears again, this time for Migrator Pro for Exchange logging database. Select or browse to the logging database server you are installing to, select the connection authentication method, and enter or browse to the database. The logging database name should be specified in the Name of database catalog field. Click **Next**.

Binary Tree Migrator Pro for Excha Database Server Login Select database server and auth		>
Joiet, database server and auto	Connection Name: ExchangePro Database	
Ourset"	Database server that you are installing to:	
Quesť	Jocal)\SQLEXPRESS	~
		Browse
	Connect using:	
	 Windows authentication 	
	$ \mathbb{C}$ SQL Server authentication using Login ID and password below	
	Lagin ID:	
	sa	
	Password:	
	Name of database satalog:	
	ExchangePro_20201118165240	Brown
		Brgwse
InstallShield	<back next=""></back>	Cancel

8. On the Ready to Install screen, click Install.



9. Wait while the installation proceeds. This may take a few minutes. A dialog box displaying installation progress will appear. Click **Cancel** if you want to cancel.

Binary Tree Migrator Pro for Excha	nge Worker X
Setup Status	
Quest	The InstallShield Wizard is installing Binary Tree Migrator Pro for Exchange Worker
	Writing system registry values

10. When installation is complete, the wizard Complete screen appears. Click Finish to close.

Binary Tree Migrator Pro for Excha	nge Worker
Quest	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Binary Tree Migrator Pro for Exchange Worker. Click Finish to exit the wizard.
	☑ Start Exchange Pro Worker
_	

When the installation completes, it creates a shortcut icon on the Desktop to launch Migrator Pro for Exchange Worker. This Migrator Pro for Exchange Worker icon is also added to the toolbar.



5. Components of Migrator Pro for Exchange

The main components of Migrator Pro for Exchange are: the MCP Windows Service, the Admin Portal, and the User Portal.

5.1 MCP Windows Service

The MCP Windows Service (BinaryTree Migrator Pro for Exchange MCP Service) is the controlling service for all Migrator Pro for Exchange functions. This service should automatically start. Make sure that BinaryTree Migrator Pro for Exchange MCP Service is started in Windows Services.

Omponent Services									
🧑 File Action View Window Help									
♦ ♦ 2 10 2 3									
Console Root	Name 🔺	Description	Status	Startup Ty					
🕀 🙆 Component Services	Application Information	Facilitates		Manual					
🛨 🛃 Event Viewer (Local)	Application Layer Gateway Service	Provides s		Manual					
E Services (Local)	Application Management	Processes i		Manual					
	ASP.NET State Service	Provides s		Manual					
	Background Intelligent Transfer Service	Transfers f		Manual					
	🔍 Base Filtering Engine	The Base F	Started	Automatic					
	Binary Tree Exchange Pro MCP Service	Binary Tre	Started	Automatic					

5.2 Admin Portal

Migrator Pro for Exchange's Admin Portal is a friendly user interface that lets you configure and execute most administrative tasks associated with a migration. The Admin Portal is a Microsoft Silverlight application that runs in a web browser.

To launch the Admin Portal, double-click the **Migrator Pro for Exchange** shortcut on your Windows desktop, or select **Migrator Pro for Exchange** from the Windows **Start** menu:



The Admin Portal opens in a browser window. Migrator Pro for Exchange supports Internet Explorer 8 or later and Firefox.

Maill	boxes Mailbox			RATOR PRO
ores	t bluefishreso	rt.com -	Site All Sites Exchange Version All Versions Advanced Filter	
arc	ch		🕂 💥 Refresh 🜮 🗹 Auto Refresh Export •	179 items (1 selecte
	First Name 🕅	Last Name 🛛 🕅	4 money 4 migration ordap 4 blackoat frome 4 manbox batabase 4 black	V Source Server V A
1	Christen	Anderson	Canterinebocger generalistic com DEFAULT Mailbox Database 142/300771 Defau	ult-Firet-Site-Name BLUEFISHEY10
1		Akin	CindemAkin@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	
-1	Dana	Birkby	DanaBirkby@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	
-		Tiedt	DanielleTiedt@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	
-1-		Korzun	DariuszKorzun@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	
-1-	Derek	Brown	DerekBrown@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	
-	Dev		n DevBalasubramanian@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	
-		Zilch	DieterZilch@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
	Dita	Burianova	- DitaBurianova@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
	cominik	Dubicki	cominikDubicki@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
	Doug	Mahugh	DougMahugh@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
E	Erik	Jensen	ErikJensen@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
E	Erwin	Zischka	ErwinZischka@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
E	Euan	Garden	EuanGarden@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
E	Eugene	Kogan	EugeneKogan@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
E	Eva	Corets	EvaCorets@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
E	Evan	Basalik	EvanBasalik@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
F	Fabrice	Canel	FabriceCanel@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
F	Frank	Miller	FrankMiller@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10
F	Franziska	Fiegler	FranziskaFiegler@bluefishresort.com DEFAULT Mailbox Database 1427300771 Defau	ult-First-Site-Name BLUEFISHEX10

The Admin Portal launches with <u>http://localhost/exchangepro/admin/default.aspx</u>. You can use *localhost*, *<machinename>*, or the IP address to access the Admin Portal.

5.3 User Portal

The User Portal is available for users to postpone and schedule blackouts for their migrations and to provide alternative notification capabilities.

- The User Portal is located at: http://<MachineName>/exchangepro/user/default.aspx
- Windows Authentication is enabled for this virtual application. When performing cross-forest
 migrations, if the users in the source forest attempt to connect to the Migrator Pro for Exchange
 server in the target forest and a trust has not been established between the two forests, the users
 will be prompted for their target credentials.

6. Introduction to the Admin Portal

Migrator Pro for Exchange's Admin Portal is a friendly user interface that lets you control various administrative tasks related to Exchange mailbox migration.

The first time you run the Admin Portal after installing Migrator Pro for Exchange, the program leads you through a series of screens for you to enter your Migrator Pro for Exchange license key and configure Migrator Pro for Exchange communications with other programs and hardware. After that initial configuration, the Admin Portal lets you update configuration data, define new forests to Migrator Pro for Exchange, designate mailboxes and public folders for migration, schedule and execute migrations, pause and resume migrations, review migration statistics, and so forth.

To access the Admin Portal, double-click the **Migrator Pro for Exchange** shortcut on your Windows desktop, or select **Migrator Pro for Exchange** from the Windows **Start** menu:



The Admin Portal opens as a new tab in your browser called Migrator Pro for Exchange:

ailbox		Public P Folders Fold	Image: State of the state	
rest	bluefishresor	t.com -	Site All Sites - Exchange Version All Versions - Advanced Filter	
arch			A X Refresh ✓ Auto Refresh Export • 179 it	tems (1 selecter
		Last Name 🛛	Email V Priority V Migration Group V Blackout Profile V Mailbox Database V Site V Source Control Priority V Detroct	ce Server 🟹 🛛 A
-		Anderson	ChristenAnceson@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Cigo	dem	Akin	GigdemAkin@blefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Dan	na	Birkby	DanaBirkby@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Dan	nielle	Tiedt	DanielleTiedt@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Dar	riusz	Korzun	DariuszKorzun@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Den	rek	Brown	DerekBrown@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Dev	v	Balasubramanian	DevBalasubramanian@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Diet	ter	Zilch	DieterZilch@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Dita	a	Burianova	DitaBurianova@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
corr	ninik	Dubicki	cominikDubicki@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Dou	ug	Mahugh	DougMahugh@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Erik	k	Jensen	ErikJensen@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Erw	vin	Zischka	ErwinZischka@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Eua	an	Garden	EuanGarden@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Eug	gene	Kogan	EugeneKogan@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
Eva	9	Corets	EvaCorets@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUEI	FISHEX10
Eva	an	Basalik	EvanBasalik@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	FISHEX10
-		Canel	FabriceCanel@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	
Fran		Miller	FrankMiller@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUE	
Fra	inziska	Fiegler	FranziskaFiegler@bluefishresort.com DEFAULT Mailbox Database 1427300771 Default-First-Site-Name BLUEI	FISHEX10

Migrator Pro for Exchange's Main Toolbar appears across the top of the browser tab:

Mailboxes	Mailbox	Public	Public	Content	Blackout	Summary	28 Schedule	Metrics	View	A Forests	Workers	Settings	0
	Jobs	Folders	Folder Jobs	Analysis	Times				Delegation				

The toolbar buttons let you change the view of the Admin Portal, to show different types of information and different groups of available features below the Main Toolbar:

- **Mailboxes:** Lists mailboxes from all the sites in the specified forest. In addition, it allows you to sort, group, search, and select mailboxes to add to the migration queue.
- Mailbox Jobs: Manages the sequence of migration requests for the selected migration destination site.

- **Public Folders:** Displays the Public Folder tree from the selected Source and Target forest. In addition, it allows you to sort, group, search, and select public folders to add to the migration queue. Public folder migration is only enabled during on-premises cross forest migration projects.
- Public Folder Jobs: Manages the sequence of migration requests for the selected migration destination. Public folder migration is only enabled during on-premises cross forest migration projects.
- Content Analysis: Allows Public Folder content information collection and analysis in SQL for data remediation.
- Blackout Times: Allows the configuration of time periods when mailboxes cannot be migrated for the selected migration site.
- **Summary:** Displays high-level accounting of mailbox migrations, which allows you to view all status levels.
- **Schedule:** Displays estimated migration sequence for the selected migration site. It is a read-only view.
- Metrics: Provides historical data and throughput measurements of migrations in a graphical format.
- View Delegation: Displays delegation data, so you can migrate mailboxes associated by delegation rights together (to preserve delegation rights after the migration).
- Forests: Configure global forest settings, add new forest, etc.
- Workers: Administer Public Folder migration workers.
- Settings: Configure general settings, activities, mailboxes, Public Folders, workers, scripts, notification templates, and licenses.
- **Weip:** Open a browser window of information and field notes about the currently active Migrator Pro for Exchange screen or tab.
- **Operation Operation Ope**

In addition to the Main Toolbar, the Admin Portal also contains a Data Panel that displays data depending on the button that is currently selected.

Fore	est bluefishresort.com - Site All Sites - Exchange Version All Versions - Advanced Filter +										
Sear	ch		AA 🗙	Refresh 😂	Auto Refresh	Export.					179 items (1 selected
	First Name 🍸		Email		7	Priority 🟹	Migration Group 🟹	Blackout Profile 🕅			Source Server 🟹 🗛
	Guthering	bougu	catterineboeger@blachameaor.com					DEFROET	Hanbox Batabase 1427500771		
	Christen	Anderson	ChristenAnderson@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Cigdem	Akin	CigdemAkin@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Dana	Birkby	DanaBirkby@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Danielle	Tiedt	DanielleTiedt@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Dariusz	Korzun	DariuszKorzun@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Derek	Brown	DerekBrown@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Dev	Balasubramanian	DevBalasubramanian@bluefishresort.com	ı				DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Dieter	Zilch	DieterZilch@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10
	Dita	Burianova	DitaBurianova@bluefishresort.com					DEFAULT	Mailbox Database 1427300771	Default-First-Site-Name	BLUEFISHEX10

Detailed information about the Admin Portal is available in the Migrator Pro for Exchange User Guide.

Appendix A. STIG Environments

Please note the following considerations for STIG environments.

SQL Express

The SQL Express option should not be chosen when installing Migrator Pro for Exchange. SQL Express does not include the following settings or features needed for STIG environments:

• SQL Server must be monitored to discover unauthorized changes to stored procedures. (SQL Agents is not part of SQL Express) 41403, 41404, 41405

A dedicated SQL Server (full version) should be used.

Additional Information

<u>Microsoft SQL Server 2012 Database Security Technical Implementation Guide (stigviewer.com)</u> <u>Microsoft SQL Server 2012 Database Instance Security Technical Implementation Guide (stigviewer.com)</u> <u>MS SQL Server 2016 Instance Security Technical Implementation Guide (stigviewer.com)</u> <u>MS SQL Server 2016 Database Security Technical Implementation Guide (stigviewer.com)</u>

Appendix B. Deployment in FIPS Environment

Binary Tree Migrator Pro for Exchange 20.11.0 can be successfully deployed in a FIPS environment by following the procedure described in this document.

The audience for this section is technical implementation consultants deploying Migrator Pro for Exchange.

Cryptographic usage

Migrator Pro for Exchange relies on the following Third-Party cryptographic libraries for its cryptographic needs.

Cryptographic usage	Cryptographic algorithm	Cryptographic parameters
Communication – Website User Interface	SSL TLS 1.2	
Communication – SQL Server	SSL TLS 1.2	
Communication – (LDAP/Kerberos)	AES128_HMAC_SHA1, AES256_HMAC_SHA1	SESSION: Signing & Sealing
Symmetric encryption of bulk data	AES256 CBC Mode	KEY: 256-bit PBKDF2 (Constant) IV: 128-bit PBKDF2 (Constant)
Symmetric encryption of bulk data – Additional Entropy	RNG	64-bits (Random per encrypted value)
Symmetric encryption of secrets – (DPAPI) Configuration Parameters	AES256 CBC Mode	SCOPE: LocalMachine
Symmetric encryption of secrets – Additional Entropy	RNG	256-bits (Constant per node)
Hashing – (PBKDF2) Generation of encryption KEY/IV	HMACSHA1	HASH SIZE: 160-bit
Hashing – (DPAPI)	SHA512	HASH SIZE: 523-bit

Background

To execute in a FIPS compliant mode, a Windows environment requires the Microsoft Policy "System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing" setting enabled.

Microsoft states that "This policy is only advisory to applications. Therefore, if you enable the policy, it does not make sure that all applications will comply".

Migrator Pro for Exchange leverages Microsoft's CryptoAPI (CAPI) and CryptoAPI Next Generation (CNG) for its cryptographic needs

Microsoft Product Relationship with CNG and CAPI libraries is documented here: <u>https://technet.microsoft.com/en-us/library/cc750357.aspx</u>

"Rather than validate individual components and products, Microsoft chooses to validate only the underlying cryptographic modules. Subsequently, many Windows components and Microsoft products are built to rely on the Cryptographic API: Next Generation (CNG) and legacy Cryptographic API (CAPI) FIPS 140 validated cryptographic

modules. Windows components and Microsoft products use the documented application programming interfaces (APIs) for each of the modules to access various cryptographic services.

Prerequisites

External to Migrator Pro for Exchange, the following server configurations are necessary to set up the environment for FIPS Mode.

- 1. Windows Server 2012 R2 or later must be installed and up to date.
- 2. The following group policies must be enabled:
 - a. System Cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing.
 - i. Ensure this policy is enabled.
 - b. Network Security: Configure encryption types allowed for Kerberos.
 - i. Ensure the "AES128_HMAC_SHA1" and "AES256_HMAC_SHA1" values are selected.
 - ii. NOTE: Authentication of target accounts with synchronized passwords requires Kerberos encryption type "RC4_HMAC_MD5" to be allowed for participating devices.
- 3. Insecure SCHANNEL Server protocols must be disabled.
 - a. SSL 2.0, SSL 3.0, TLS 1.0, TLS 1.1
- 4. SSL certificate for Web Hosting issued by a trusted certificate authority.
- 5. SQL Server Encrypted Connections must be enabled.
 - a. See reference links for configuration details

Installation and operation

For environments with existing Migrator Pro for Exchange installations, the installation must be upgraded to version 20.11 or later. If the existing installation is configured with remote Migrator Pro for Exchange Workers, the remote Workers need to be upgraded to version 20.11 or later.

For new installations, Migrator Pro for Exchange 20.11 enforces all FIPS mode requirements, no additional steps are required.

WEBSITE SSL CERTIFICATE INSTALLATION

- 1. Ensure the certificate and CA certificate chain has been installed on the server.
- 2. Open Internet Information Services (IIS) Manager.
- 3. Expand the Sites node in the Connections pane.
- 4. Right-click the "Default Web Site" website node and choose "Edit Bindings...".
 - a. If the site has an "https" binding, select it and click "Edit..."
 - b. If the site does not have an "https" binding, click "Add..."

- i. From the "Type" drop-down, select "https".
- c. From the "SSL certificate" drop-down, select the appropriate certificate.
- d. Click OK.
- e. Remove the "http" binding.
- 5. In the IIS Manager Features View pane, double-click "SSL Settings".
 - a. Check the "Require SSL" checkbox and click "Apply" in the Actions pane.
- 6. Validate the website can be accessed and the bowers is indicating the certificate is valid and trusted.

References

System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing

Network security: Configure encryption types for Kerberos

Windows Server SCHANNEL Protocol Settings

Internet Information Services (IIS) 7.0 Set Up SSL Certificates

Internet Information Services (IIS) 8.0 Centralized SSL Certificates

Enable encrypted connections - SQL Server | Microsoft Docs

KB3135244 - TLS 1.2 support for Microsoft SQL Server