

# About Folder Sync

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This section includes the following topics:

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- [About Folder Sync](#)
- [About Exchange Online folder synchronization](#)
- [About support for multiple instances of Folder Sync](#)
- [Changes introduced in version 1.13.3](#)
- [Changes introduced in version 1.13](#)
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## About this guide

### About this guide

This guide describes the Enterprise Vault.cloud Folder Sync 1.14.0 application, which provides mailbox folder synchronization to Personal.cloud for both on-premises Microsoft Exchange and Microsoft Office 365.

This guide describes how to:

- Install and configure Folder Sync for on-premises Exchange, Office 365, or hybrid environments.
- Use Folder Sync to perform and manage the replication of the mailbox folder structures to Personal.cloud.
- Monitor the results of the folder synchronizations.
- Monitor the migration of folder synchronization., in hybrid configurations where you migrate mailboxes from on-premises Exchange to Office 365.
- Troubleshoot issues with Folder Sync.

This guide is also available in Veritas Help Center format at the following location: <http://help.veritas.com/Welcome?context=EVCFS1.0>.

Prerequisite knowledge

Folder Sync should be installed, configured, and maintained by a qualified Microsoft Exchange Server or Office 365 administrator, as appropriate.

## About Folder Sync

Folder Sync version 1.14.0 provides an add-on service for Enterprise Vault.cloud that synchronizes users' on-premises Exchange and Office 365 mailbox folder structures to Personal.cloud. Folder Sync 1.14.0 also supports folder synchronization in hybrid environments where both on-premises and Office 365 mailboxes coexist.

A Folder Sync synchronization does the following for each targeted mailbox, if the mailbox has an account in your company's Enterprise Vault.cloud archive:

- It synchronizes the mailbox's folder structure to Personal.cloud.
- It moves the archived items in Personal.cloud to their synchronized folders.

If users create, rename, or move their mailbox folders, or move items between mailbox folders, Folder Sync updates the Personal.cloud folder structure and the item locations during subsequent synchronizations.

If you migrate a synchronized mailbox from on-premises Exchange to Office 365, Folder Sync can map the migrated mailbox to its on-premises original, and reassociate the synchronized folders in Enterprise Vault.cloud.

The initial setup procedure takes you through the steps to create the Folder Sync SQL Server database, and to install Folder Sync's management console. You can then use the management console to configure the connections with Enterprise Vault.cloud and your on-premises Exchange servers, or Office 365, or both.

From Folder Sync's management console you can then run, schedule, and manage the Folder Sync task that performs the mailbox folder synchronizations. You can start a synchronization manually at any time. You can also set up regular scheduled synchronizations. The scheduled synchronizations can be set to target automatically any new mailboxes that get added between synchronizations.



**Note:** Personal.cloud supports up to 10000 synchronized folders.



Folder Sync is purchasable on a per-user basis. Contact your Enterprise Vault.cloud support representative for more information about purchasing the service.

## About Exchange Online folder synchronization

Exchange Online folder synchronization is an add-on service for Enterprise Vault.cloud to synchronize Exchange Online mailbox folders of users to Personal.cloud.

At present, customers are using the Folder Sync feature for folder synchronization. However, the cloud users are recommended to use the Exchange Online Folder Sync feature. Using Exchange Online folder synchronization is easy and beneficial for the following reasons:

- No need of any on premise hardware
- No need of any licenses like SQL Server, Windows Server, and so on
- Everything can be managed using Enterprise Vault.cloud management console.

You must perform the following activities while managing Exchange Online folder synchronization.

- Enabling the Exchange Online Folder Synchronization service
- Enabling individual users for folder synchronization
- Configuring App in Azure AD with required permissions
- Configuring Exchange Online folder synchronization
- Viewing status of individual users for Exchange Online folder synchronization

For more information on Exchange Online folder synchronization, see [Archive Administration Help](#).

## About support for multiple instances of Folder Sync

You can configure multiple instances of Folder Sync 1.14.0 on separate servers to provide either or both of the following functions:

- Load sharing. The multiple instances of Folder Sync load-balance automatically.
- Continued synchronization in the event of a host server failure. If one of the servers that hosts Folder Sync fails, the additional instance or instances can continue to perform the folder synchronization while you get the failed server back on line.

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**Note:** Each Folder Sync instance must be set up to share the same Folder Sync SQL Server database.

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Each Folder Sync server has its own management console, from which you can manage and monitor all of the Folder Sync tasks.

## Changes introduced in version 1.13.3

Folder Sync 1.13.3 (V1.94.6662 binaries) is the latest version of Folder Sync. This version contains the following update:

- The Enterprise Vault.cloud region names have changed. The new names replace the old names in the drop-down list when you select the Enterprise Vault.cloud server during the configuration of the Folder Sync task.

The new names map to the old names as shown in the following table.

**Table: Enterprise Vault.cloud region name changes**

OLD REGION NAME	NEW REGION NAME
North America	Americas - US1
US - US3	Americas - US3
Australia	APJ - AU1
Europe	EMEA - EU1
Custom	Custom

In earlier versions of Folder Sync, each old region name maps to the equivalent new region name automatically. The region data center URLs have not changed.

Should I upgrade to Folder Sync 1.13.3?

- If you currently use the Folder Sync 1.13 original release (V1.94.6460 binaries) or any earlier version of Folder Sync, you should upgrade to version 1.13.3 to ensure optimum operation as well as access to the new features.
- If you currently use Folder Sync 1.13.1 or 1.13.2, it is not necessary to upgrade to 1.13.3. The changes in 1.13.2 and 1.13.3 affect the Enterprise Vault.cloud regions and region naming only.

## Changes introduced in version 1.13

Folder Sync 1.13 introduced the following new features and improvements:

- Support for mailbox folder synchronization for both on-premises Microsoft Exchange and Microsoft Office 365.
- Support for hybrid environments, where both on-premises Exchange and Office 365 mailboxes exist. If you migrate a synchronized mailbox from on-premises Exchange to Office 365, Folder Sync can map the migrated mailbox to its on-premises original, and reassociate the synchronized folders in Enterprise Vault.cloud.
- You can now configure multiple instances of Folder Sync to provide load sharing, or to provide redundancy in the event of a server failure.
- A revised and redesigned All Mailboxes table shows the synchronization status of all mailboxes, whatever their Exchange location. You can filter the information using the column filters, or use the group view to group the information based on the values in a selected column.
- Improved performance, with an increase in the number of supported concurrent processing threads.
- Improved scheduling. Previously for a scheduled synchronization the ScheduleRestartPeriod value set the delay period after all mailbox synchronizations completed, before reprocessing started. Now, the reprocessing of the mailboxes starts if the ScheduleRestartPeriod has elapsed since the oldest processed mailbox was processed.
- The Item Synchron task has been renamed the Folder Sync task.
- The task configuration settings now include an Include Shared Mailboxes option. If you select this option, Folder Sync includes shared mailboxes in the list of mailboxes that can be selected for folder synchronization.

This option replaces the Folder Sync 1.12 configuration file setting for including shared mailboxes.



**Note:** The supported versions of Microsoft SQL Server, on-premises Exchange server, and the Folder Sync server have changed for this version.



## Folder Sync revision history

Table: Folder Sync revision history lists the changes to Folder Sync in recent releases.

### Table: Folder Sync revision history

FOLDER SYNC VERSION	RELEASE DATE	CHANGES
Folder Sync 1.13.3	April 2018	The Enterprise Vault.cloud region names have changed when you select your Enterprise Vault.cloud data center server during the configuration of the Folder Sync task.
(V1.94.6662 binaries)		See <a href="#">Changes introduced in version 1.13.3</a> .
Folder Sync 1.13.2	January 2018	This version adds support for the Enterprise Vault.cloud US-US3 region data center.
(V1.94.6584 binaries)		
Folder Sync 1.13.1	November 2017	This version added support for Exchange forest child domains. This version also added support for the handling of folder names that include invalid XML characters.
(V1.94.6506 binaries)		

FOLDER SYNC VERSION	RELEASE DATE	CHANGES
Folder Sync 1.13 original release	September 2017	This version of Folder Sync was the first version to provide folder synchronization for both on-premises Exchange and Office 365, including hybrid environments.
(V1.94.6460 binaries)		A full list of the changes in this version is provided elsewhere. See <a href="#">Changes introduced in version 1.13</a> .
Folder Sync 1.12	March 2017	This was the first generally available version of Folder Sync for Office 365 folder synchronization.
(V1.94.6296.26980 binaries)		<b>Note:</b> You were unable to upgrade from previous versions of Folder Sync to this version.
Folder Sync 1.11	February 2016	This version of Folder Sync for on-premises Exchange introduced the following enhancements\:
(V1.93.5735 binaries)		- A new Auto Select New Targets configuration option. If the option is selected, scheduled Folder Sync synchronizations target any new mailboxes that are added between synchronizations.
		- Support for SQL Server 2012 as the Folder Sync database.

FOLDER SYNC VERSION	RELEASE DATE	CHANGES
		<ul style="list-style-type: none"> <li>- Support for Windows Server 2012 R2 as the Folder Sync host server.</li> </ul>
		<p>This version also includes a number of bug fixes, including the following:</p>
		<ul style="list-style-type: none"> <li>- If the default language of the Folder Sync service account's SQL login was set to a language other than British English that supports an international date format, synchronizations could fail to run.</li> </ul>
		<ul style="list-style-type: none"> <li>- Folder Sync threw an exception when you created a new scheduled synchronization, if you typed a value in the minute field.</li> </ul>
		<ul style="list-style-type: none"> <li>- Folder Sync did not synchronize a folder if the folder name consisted of a tab character only, or a tab and a space.</li> </ul>
		<ul style="list-style-type: none"> <li>- The Job Type column of the job list always displayed Messages , regardless of the job type. Also the Processed column did not include processed folders, only messages.</li> </ul>
		<ul style="list-style-type: none"> <li>- The Is equal to filter option for the Started and Stopped columns of the job list did not work.</li> </ul>

FOLDER SYNC VERSION	RELEASE DATE	CHANGES
Folder Sync 1.10.1	March 2015	This version of Folder Sync for on-premises Exchange included fixes for the following issues\:
(V1.92.5493 binaries)		- During an upgrade, database index creation sometimes timed out and resulted in an incompatible database schema error.
		- Under some circumstances, transactions that failed due to a connection error were not retried when the connection was restored. This issue sometimes resulted in folder display issues in Personal.cloud.
		- If the default language of the Folder Sync service account's SQL login was set to British English, Folder Sync failed to start new jobs after the 12th day of each month.
Folder Sync 1.10	March 2014	This version of Folder Sync for on-premises Exchange contained the following enhancements\:
(V1.92.5155 binaries)		- Support for Exchange 2013
		- Support for Exchange 2013 DAG (Database Availability Groups)

FOLDER SYNC VERSION	RELEASE DATE	CHANGES
		- Support for Active Directory resource forests
		- Support for child domain synchronization
		- A new Workers configuration option lets you set the number of threads to use for concurrent mailbox synchronizations.

# Requirements for Folder Sync

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This section includes the following topics:

- [Compatibility with Microsoft Exchange](#)
- [Folder Sync Microsoft SQL Server requirements](#)
- [Where to install Folder Sync](#)
- [Requirements for the servers on which Folder Sync is installed](#)

## Compatibility with Microsoft Exchange

For information on the versions of on-premises Microsoft Exchange Server that Folder Sync 1.14.0 works with, see the Enterprise Vault.cloud Compatibility List, at <http://www.veritas.com/docs/000016792>.

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**Note:** If you use Exchange database availability groups (DAG), the mailboxes that Folder Sync synchronizes must be a part of a mailbox store that is DAG enabled.

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## Folder Sync Microsoft SQL Server requirements

Folder Sync requires a Microsoft SQL Server database to store the data it collects about the mailbox folders. When you perform the initial post-installation configuration of Folder Sync you must specify a SQL Server instance for Folder Sync to use.

If you install Folder Sync on multiple servers for load sharing or redundancy, all the instances of Folder Sync must use the same SQL Server instance, so that they can share the mailbox folder synchronization data.

For the versions of SQL Server that Folder Sync version 1.14.0 supports, see the Enterprise Vault.cloud Compatibility List, at <http://www.veritas.com/docs/000016792>.

We recommend that you locate SQL Server on a standalone computer, not the computer on which Folder Sync is installed. The computer that hosts SQL Server requires the following hardware resources:

- For the synchronization of fewer than 5000 mailboxes, a minimum of 2 CPU and 8 GB RAM.
- For the synchronization of more than 5000 mailboxes, a minimum of 4 CPU and 16 GB RAM.

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**Note:** You may want to consider a high-availability solution for your SQL Server environment. A high-availability solution can help to minimize or mitigate the effect of system downtime. See the following Microsoft article, or its equivalent for your SQL Server version:[https://msdn.microsoft.com/en-us/library/ms190202\(v=sql.130\).aspx](https://msdn.microsoft.com/en-us/library/ms190202(v=sql.130).aspx).

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## Where to install Folder Sync

For optimal performance, we recommend that you install each instance of the Folder Sync application on a separate standalone server or virtual machine.

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**Note:** We recommend that you do not install Folder Sync on an Active Directory domain controller, SQL Server computer, or Exchange server, due to the effect on performance.

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The location requirements for Folder Sync depend on the type of Exchange environment that you support:

**Table: Folder Sync application location requirements**

EXCHANGE ENVIRONMENT	REQUIREMENTS	NOTES
On-premises Exchange, or hybrid on-premises/Office 365	An instance of the Folder Sync application must be installed in each Active Directory domain that contains Exchange Servers that you want to process, excluding related child domains.	If you use Veritas CloudLink for your on-premises Exchange mailbox synchronization you can install Folder Sync on the CloudLink server, if the server meets all of the Folder Sync server requirements.
		If you install CloudLink and Folder Sync on the same server, then to run either application you must log on with that application's service account.
Office 365 only	At least one instance of the Folder Sync application must be installed. Each instance must be installed on a standalone server or standalone virtual machine.	-

As explained elsewhere, you can install multiple instances of Folder Sync for load sharing or redundancy.

See [About support for multiple instances of Folder Sync](#).

## Requirements for the servers on which Folder Sync is installed

[Table: Folder Sync server requirements](#) specifies the requirements for any server on which you install Folder Sync version 1.14.0.

**Table: Folder Sync server requirements**

ITEM	REQUIREMENT AND DETAILS
Server operating system	Microsoft Windows Server 2016, Standard Edition or Enterprise Edition
	Microsoft Windows Server 2012 R2 Standard Edition or Enterprise Edition
	Microsoft Windows Server 2008 R2 Standard Edition or Enterprise Edition, 64-bit.
	This version of Folder Sync requires a 64-bit operating system.
	<b>Note:</b> User Account Control (UAC) must be turned off, or you must install and run Folder Sync as an administrator.
CPU and RAM	4 CPU with at least 4 GB RAM. 8 GB RAM or more is recommended.
	For more information about the recommended requirements for your particular configuration, contact <a href="#">Veritas Services &amp; Support</a> .
Network connection	Fast Internet connection.
Microsoft .NET Framework versions	Microsoft .NET Framework 4.5.2
	For Windows Server 2008 R2 only, Microsoft .NET Framework 3.5 SP1 must also be installed.
PowerShell	For Windows Server 2008 R2 only, PowerShell 4.0 or higher must be installed.
SQL Report Viewer	Microsoft Report Viewer 2012 runtime redistributable package.
	<b>Note:</b> This version is required even if you use another version of SQL Server.

ITEM	REQUIREMENT AND DETAILS
	You can download the Report Viewer package from the following Microsoft article:
	<a href="https://www.microsoft.com/en-gb/download/details.aspx?id=35747">https://www.microsoft.com/en-gb/download/details.aspx?id=35747</a>
SQL Server System CLR Types package	SQLSysClrTypes 2012
	<b>Note:</b> This version is required even if you are use another version of SQL Server.
	This package is a prerequisite for the Microsoft Report Viewer 2012. Download instructions are available from the Microsoft Report Viewer 2012 download page.
Office 365 and hybrid environments only : Microsoft Azure Active Directory Module for Windows PowerShell	See <a href="#">Installing the Azure Active Directory module for Windows PowerShell</a> .
Exchange Server 2007 only : Exchange Server Management Tools	Exchange Server 2007 Management Tools (64-bit)
	The Management Tools can be installed from the Exchange Server 2007 service pack.
	See How to Install the Exchange 2007 Management Tools at <a href="http://technet.microsoft.com/en-us/library/bb232090(v=exchg.80).aspx">http://technet.microsoft.com/en-us/library/bb232090(v=exchg.80).aspx</a> .
Internet Ports	Port 443 must be open to allow communication to the required Veritas websites and Office 365 endpoints.

## Installing the Azure Active Directory module for Windows PowerShell

If you use Folder Sync in Office 365 or hybrid environments, the servers on which you install Folder Sync require the Microsoft Azure Active Directory module for Windows PowerShell.

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**Note:** The following procedure requires the credentials of the Folder Sync Office 365 administrator account. See [Service account and administration account requirements for Folder Sync](#).

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To install the Azure Active Directory module for Windows PowerShell

1. Download the latest 64-bit version of *PackageManagement*.
2. Install the package on the server or servers on which you want to run Folder Sync.
3. Open Windows PowerShell as an administrator and run the following command to install the **MsOnline** module.

```
Install-Module -Name MSOnline
```

If you are prompted to install the NuGet provider, enter **Y**.

If you are prompted to install the modules from the PSGallery, enter **Y**.

1. When the package has installed, enter the following command to connect to Azure Active Directory:

```
Connect-MsolService
```

You need to provide the credentials of the Folder Sync Office 365 administrator account.

See [Service account and administration account requirements for Folder Sync](#).

1. To confirm that the installation has worked, run an Office 365 cmdlet, such as the following:

```
Get-MsolUser
```

# Preparing the service and admin accounts for Folder Sync

This section includes the following topics:

- [Service account and administration account requirements for Folder Sync](#)
- [Creating the Folder Sync service account](#)
- [Preparing the administration account for Exchange 2016 or 2013](#)
- [Preparing the administration account for Exchange 2010](#)
- [Preparing the administration account for Exchange 2007](#)
- [Preparing an administration account for Office 365](#)

## Service account and administration account requirements for Folder Sync

During the installation and configuration of Folder Sync 1.14.0 you need to supply the credentials of the following accounts.

**Table: Folder Sync: account requirements**

ACCOUNT	DESCRIPTION	REFERENCE FOR DETAILS
Folder Sync service account	During the installation of Folder Sync you must specify a Windows service account for the Folder Sync application to run under. This account must have the necessary attributes.	See <a href="#">Creating the Folder Sync service account</a> .
Exchange or Office 356 administrator account	During the configuration of the Folder Sync task's properties you must provide the credentials of an on-premises Exchange administration account or an	See <a href="#">Preparing the administration account for Exchange 2016 or 2013</a> .

ACCOUNT	DESCRIPTION	REFERENCE FOR DETAILS
	Office 365 administration account. The account must have the required administration roles assigned.	
	<b>Note:</b> For a hybrid environment you require administration accounts for both on-premises Exchange and Office 365.	See <a href="#">Preparing the administration account for Exchange 2010</a> .
		See <a href="#">Preparing the administration account for Exchange 2007</a> .
		See <a href="#">Preparing an administration account for Office 365</a> .
Enterprise Vault.cloud Admin service account	During the configuration of the Folder Sync task's properties you must provide the credentials of an Enterprise Vault.cloud Administrator account.	See the Enterprise Vault.cloud Archive Administration help for more information about Enterprise Vault.cloud administrator role assignment.
	The account must have the administrator role in the Enterprise Vault.cloud Administration Console under Role Management > Assign Accounts .	

## Creating the Folder Sync service account

You must prepare a Windows service account with the required attributes, for Folder Sync to run under.



**Note:** For an upgrade of Folder Sync you can use your existing Folder Sync service account.

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To create the Folder Sync service account

1. Create a Windows Active Directory domain user account, with a non-expiring password.
2. Make the account a member of the local Administrators group on the server on which Folder Sync is to be installed.
3. In SQL Server Management Studio, create a login for the account and give the SQL Server login the **dbcreator** server role. This server role is required to enable Folder Sync to deploy its SQL database.

## Preparing the administration account for Exchange 2016 or 2013

When you configure Folder Sync to synchronize folders for on-premises Exchange or hybrid environments, you must provide the credentials of an Exchange administration account that has the necessary permissions.

You must grant the administration account the required permissions on each Exchange Server that Folder Sync is to process.

To prepare the administration account for Exchange 2016 or 2013

1. Create a Windows Active Directory domain user account with a non-expiring password.

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**Note:** Alternatively you can use the Folder Sync service account as the administration account.

“ ”

2. Log on to the Exchange Server using administrator credentials.
3. In the Exchange Admin Center, go to **permissions > admin roles**.
4. Add the administration account to the built-in View-Only Organization Management role group.
5. Create a new Role Group for Folder Sync and give it a suitable name, such as **Folder Sync App Impersonation**.

6. Add to the new Role Group the ApplicationImpersonation management role, and add the administration account as a member.

## Preparing the administration account for Exchange 2010

When you configure Folder Sync to synchronize folders for on-premises Exchange or hybrid environments, you must provide the credentials of an Exchange administration account that has the necessary permissions.

You must grant the administration account the required permissions on each Exchange Server that Folder Sync is to process.

To prepare the administration account for Exchange 2010

1. Create a Windows Active Directory domain user account with a non-expiring password.

“ ”

**Note:** Alternatively you can use the Folder Sync service account as the administration account.

“ ”

2. Log on to the Exchange Server using administrator credentials.
3. Start the Exchange Management Console.

From the Exchange Management Console **Toolbox** , open the Role Based Access Control (RBAC) User Editor.

1. Use the RBAC User Editor to do the following:
  - Navigate to **Roles & Auditing > Administrator Roles**.
  - Add the administration account to the built-in View-Only Organization Management role group.
  - Create a new Role Group for Folder Sync and give it a suitable name, such as **Folder Sync App Impersonation** .
  - Add to the Role Group the ApplicationImpersonation management role, and add the administration account as a member.

## Preparing the administration account for Exchange 2007

For Exchange 2007, the Folder Sync service account must also act as the Exchange administration account.

The account requires the Exchange View-Only Administrator role and the Exchange Impersonation role on each Exchange Server that Folder Sync is to process.

To prepare the administration account for Exchange 2007

1. Log on to the Exchange Server using administrator credentials.
2. Click **Start > All Programs > Microsoft Exchange Server 2007 > Exchange Management Shell**.
3. Enter the following command to assign the Exchange View-Only Administrator role to the Folder Sync service account.

```
Add-ExchangeAdministrator -Role ViewOnlyAdmin -Identity domain\ "Service Account"
```

where `Service Account` is the name of the Folder Sync service account.

1. Exit from the Exchange Management Shell.
2. Initiate an Exchange PowerShell window.
3. Enter the following PowerShell command to grant the Exchange Impersonation role to the Folder Sync service account:

```
Get-MailboxDatabase | ForEach-Object {Add-ADPermission -Identity $_.DistinguishedName -User Service Account -ExtendedRights ms-Exch-EPI-May-Impersonate}
```

where `Service Account` is the name of the Folder Sync service account.

## Preparing an administration account for Office 365

When you configure Folder Sync for Office 365 folder synchronization you must provide the credentials of a Microsoft Office 365 account with the required permissions.

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**Note:** You must not use the account that Enterprise Vault.cloud Office 365 Sync uses for Office 365 account synchronization.



If you install Folder Sync on multiple servers for load sharing or redundancy, each instance of Folder Sync requires its own Office 365 service account. Create a separate Office 365 service account for each installation.

The Office 365 account must have the following role assignments:

- The account must be assigned to the following Office 365 administrator roles: Exchange administrator, Service administrator, User management administrator.
- In the Office 365 Exchange admin center, the account must be a member of an Exchange management role group that includes the management roles ApplicationImpersonation, View-Only Configuration, and View-Only Recipients.

The following procedure describes how you can create an account with these required permissions from the Office 365 Admin center.

To prepare an administration account for Office 365

1. Sign in to Microsoft Office 365 as a global administrator.
2. Click the Admin app to open the Office 365 Admin center.
3. Under Users > Active Users, click **+ Add a user**.
4. Complete the New user dialog, including the following role assignment:

Expand **Roles**, select **Customized administrator**, and then select the following roles:

- **Exchange administrator-Service administrator-User management administrator** Then click **Add** to add the new user.

1. In the left menu bar of the Office 365 Admin center, expand **Admin centers** (Admin in the old admin center), and select **Exchange**.
2. In the left navigation pane of the Exchange admin center, click **permissions**.
3. On the **admin roles** page, click the **\*\*+\*\*** icon to create a new role group.
4. In the new role group window, enter a suitable role group name in the Name field, such as **Folder Sync App Impersonation**.
5. In the Roles section of the new role group window, click the **+** icon.

6. In the Select a Role window, select each of the following roles from the list, and click **add** to add them to the role group:
  - **ApplicationImpersonation-View-Only Configuration-View-Only Recipients**
7. Click **OK** to close the Select a Role window and to return to the new role group window.
8. In the Members section of the new role group window, click the **+** icon.
9. In the Select Members window, select the new account that you are using as the Office 365 service account, and then click **Add**.
10. Click **OK** to close the Select Members window and to return to the new role group window.
11. Click **Save** to save the new role group.

The new role group now appears in the list of Admin Role Groups on the admin roles page.

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**Note:** If you do not see the new role group, wait several minutes and then refresh the page.

“ ”

1. Select the new role group in the **admin roles** list. Confirm that the three required roles are shown as assigned roles, and that the account that is to act as the Office 365 service account is listed as a member.

“ ”

**Note:** A long propagation time may be required for an account to acquire any new or changed role settings. You can also use PowerShell commands such as `asget-managementroleassignmentandget-rolegroupmemberto` confirm that the new settings have taken effect. For more information on PowerShell commands see Microsoft's support documentation.

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# Installing or upgrading Folder Sync

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This section includes the following topics:

- [About installing or upgrading Folder Sync](#)
- [Performing a new installation of Folder Sync](#)
- [Upgrading from the Folder Sync 1.13 original release or later](#)
- [Upgrading from Folder Sync 1.12](#)
- [Upgrading from Folder Sync 1.11 or earlier versions](#)

## About installing or upgrading Folder Sync

The latest version of Folder Sync is 1.13.3. If you have not used Folder Sync before, install this version.

The requirement to upgrade to version 1.13.3 depends on your current version.

See [Changes introduced in version 1.13.3](#).

If you upgrade from Folder Sync 1.11 or earlier, note that support has been withdrawn in Folder Sync 1.13 for the following:

- SQL Server 2005
- Exchange 2003
- The 32-bit version of Exchange 2007
- Windows Server 2005 as the host server operating system

For more information, see the Enterprise Vault.cloud Compatibility List, at <http://www.veritas.com/docs/000016792>.

Table [Table: Options for installing or upgrading Folder Sync](#) describes the options for installation and upgrade. Follow the appropriate installation or upgrade procedure, as indicated.

**Table: Options for installing or upgrading Folder Sync**

OPTION	REFERENCE
Perform a new install of Folder Sync	See <a href="#">Performing a new installation of Folder Sync</a> .
Upgrade from the Folder Sync 1.13 original release or later	See <a href="#">Upgrading from the Folder Sync 1.13 original release or later</a> .
Upgrade from Folder Sync 1.12	See <a href="#">Upgrading from Folder Sync 1.12</a> .
Upgrade from Folder Sync 1.11 or earlier versions	See <a href="#">Upgrading from Folder Sync 1.11 or earlier versions</a> .

More Information

[Folder Sync revision history](#)

## Performing a new installation of Folder Sync

Perform a new installation of Folder Sync 1.13.3 if you have not previously used Folder Sync.

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**Note:** User Account Control (UAC) must be turned off, or you must install Folder Sync as an administrator.

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To perform a new installation of Folder Sync

1. Download the Folder Sync compressed setup file from the following location on our Support website:

<http://www.veritas.com/docs/100039727>

1. Extract the contents of the compressed setup file on the required server.
2. Run the extracted Folder Sync Setup .msi file.

3. When the ArchiveTools Folder Sync setup wizard displays, click **Next** to proceed with the installation of Folder Sync.
4. Specify the installation location for Folder Sync. We recommend that you use the default location. Then click **Next** to continue.
5. In the Enter Service Account and Password window, provide the logon credentials for the Folder Sync service account you have prepared:
  - Enter the Folder Sync service account user name in the format `*Domain*\_ServiceAccount_`
  - Enter the password for the Folder Sync service account, and then re-enter the password to confirm it.
6. Click **Install** to proceed with the installation.
7. When the setup wizard indicates that it is ready to finish, keep the option **Launch Archive Tools Configuration** selected, and click **Finish**.
8. The Archive Accelerator Configuration Wizard starts, and prompts you for the SQL instance to use for the ArchiveAccelerator database.

“ ”

**Note:** If you install Folder Sync on multiple servers for load sharing or redundancy, specify the same SQL instance for each installation of Folder Sync. All of the Folder Sync installations must all share the same SQL server database.

“ ”

Specify the SQL Server instance that Folder Sync is to use, in the following format:

`*SQL_computer_name* \_SQL_instance_`

“ ”

**Note:** To use the default SQL instance, omit the `SQL_instance` and specify only the following:  
`SQL_computer_name\`



1. Click **Next**. The Archive Accelerator Configuration Wizard displays your configuration settings.
2. Click **Next** to begin the configuration.

The Archive Accelerator Configuration Wizard notifies you when the configuration is complete and the Archive Tools Management Console has been installed.

Now that the installation and initial configuration is complete you can configure the Folder Sync task settings in the management console.

See [Configuring the settings for the Folder Sync task](#).

## Upgrading from the Folder Sync 1.13 original release or later

To upgrade from the Folder Sync 1.13 original release (V1.94.6460 binaries) or later you must first stop all the running ArchiveTools Folder Sync services and any ArchiveTools CloudLink Server services. You can then install Folder Sync 1.13.3 on the Folder Sync server or servers, and finally restart any ArchiveTools CloudLink Server services. The following steps describe the full procedure. You can retain your existing Folder Sync database to preserve its data.

To upgrade from the Folder Sync 1.13 original release or later

1. On a server on which Folder Sync is installed, click **Start > All Programs > ArchiveTools > ArchiveTools Management Console**.
2. In the left pane of the management console, expand the Archive Accelerator node and click the Task List folder.
3. In the Task List window, right-click the **Folder Sync** task and select **Stop** to end the task. If you have multiple **Folder Sync** tasks configured, repeat this step for each **Folder Sync** task in the Task List window.
4. Wait for the status of every Folder Sync task to change to Stopped. If necessary, click **Refresh** in the Actions pane to refresh the display.
5. Close the ArchiveTools Management Console.
6. If you have CloudLink installed, open the Windows **Services** MMC snap-in on any servers on which CloudLink is installed, and stop the **ArchiveTools CloudLink Server** service.

Make sure that all the **ArchiveTools Folder Sync** services and **ArchiveTools CloudLink Server** services are stopped before you continue.

1. Download the Folder Sync 1.13.3 compressed setup file from the following location on our Support website:

<http://www.veritas.com/docs/100039727>

1. Extract the contents of the compressed setup file on the Folder Sync server.
2. Run the extracted Folder Sync 1.13.3 Setup .msi file.
3. When the ArchiveTools Folder Sync setup wizard displays, click **Next** to proceed with the installation of Folder Sync.
4. Specify the installation location for Folder Sync, and then click **Next** to continue.
5. In the Enter Service Account and Password window, provide the logon credentials for the Folder Sync service account:
  - Enter the Folder Sync service account user name in the format **\*Domain\***  
**\\_ServiceAccount\_**
  - Enter the password for the Folder Sync service account, and then re-enter the password to confirm it.
6. Click **Install** to continue with the installation.
7. When the setup wizard indicates that the setup has completed, keep **Launch Archive Tools Configuration** checked and click **Finish**.
8. The ArchiveAccelerator Configuration Wizard starts, and prompts you for the SQL instance to use for the ArchiveAccelerator configuration database.

Specify the SQL Server instance in the following format:

```
*SQL_computer_name* \_SQL_instance_
```

“ ”

**Note:** To use the default SQL instance, omit the `SQL_instance` and specify only the following:  
`SQL_computer_name\`

“ ”

1. The Folder Sync database configuration wizard asks if you want to use the existing ArchiveAccelerator database. Click **Yes** to use the existing Folder Sync database and preserve its existing data.

Remember that if you installed Folder Sync on multiple servers for load sharing or redundancy, all of the Folder Sync instances must share the same SQL server database.

1. Click **Next**. The Archive Accelerator Configuration Wizard displays your configuration settings.
2. Click **Next** to begin the configuration.

The Archive Accelerator Configuration Wizard notifies you when the configuration is complete.

1. Repeat steps 8 to 18 on any additional servers on which Folder Sync is installed.
2. Restart any **ArchiveTools CloudLink Server** services that you stopped in step 6.
3. Review the Folder Sync task configuration settings in the management console.

See [Configuring the settings for the Folder Sync task](#).

## Upgrading from Folder Sync 1.12

You can upgrade from Folder Sync 1.12 without uninstalling the current version. You can retain your existing Folder Sync database to preserve its data.

These instructions assume that you want to install the new Folder Sync on the same server as the old one. Before you continue, make sure that the Folder Sync server meets the latest requirements.

See [Requirements for the servers on which Folder Sync is installed](#).

To upgrade from Folder Sync 1.12

1. On the server on which Folder Sync is installed, click **Start > All Programs > ArchiveTools > ArchiveTools Management Console**.
2. In the left pane of the management console, expand the Archive Accelerator node and click the Task List folder.
3. In the Task List window, right-click **Folder Sync** and select **Stop** to end the task.
4. Wait for the status of the Folder Sync task to change to Stopped. If necessary, click **Refresh** in the Actions pane to refresh the display.
5. Close the ArchiveTools Management Console.

6. Open the Windows **Services** MMC snap-in, and ensure that the ArchiveTools Folder Sync service has stopped running.
7. Download the Folder Sync 1.13.3 compressed setup file from the following location on our Support website:

<http://www.veritas.com/docs/100039727>

1. Extract the contents of the compressed setup file.
2. Run the extracted Folder Sync 1.13.3 Setup .msi file.
3. When the ArchiveTools Folder Sync setup wizard displays, click **Next** to proceed with the installation of Folder Sync.
4. Specify the installation location for Folder Sync, and then click **Next** to continue.
5. In the Enter Service Account and Password window, provide the logon credentials for the Folder Sync service account you have prepared:
  - Enter the Folder Sync service account user name in the format `*Domain*`  
`\_ServiceAccount_`
  - Enter the password for the Folder Sync service account, and then re-enter the password to confirm it.
6. Click **Install** to continue with the installation.
7. When the setup wizard indicates that the setup has completed, keep **Launch Archive Tools Configuration** checked and click **Finish**.
8. The ArchiveAccelerator Configuration Wizard starts, and prompts you for the SQL instance to use for the ArchiveAccelerator configuration database.

Specify the SQL Server instance in the following format:

```
*SQL_computer_name* \_SQL_instance_
```

“ ”

**Note:** To use the default SQL instance, omit the `SQL_instance` and specify only the following:  
`SQL_computer_name\`

“ ”

1. The Folder Sync database configuration wizard asks if you want to use the existing ArchiveAccelerator database. Click **Yes** to use the existing Folder Sync database and preserve its existing data.

“ ”

**Note:** If later you install Folder Sync on additional servers for load sharing or redundancy, specify the same SQL instance for each installation of Folder Sync. All of the Folder Sync installations must all share the same SQL server database.

“ ”

2. Click **Next**. The Archive Accelerator Configuration Wizard displays your configuration settings.
3. Click **Next** to begin the configuration.

The Archive Accelerator Configuration Wizard notifies you when the configuration is complete.

Now that the installation and initial configuration is complete you must review the Folder Sync task configuration settings, and make any required updates to these settings in the management console.

See [Configuring the settings for the Folder Sync task](#).

## Upgrading from Folder Sync 1.11 or earlier versions

To upgrade from Folder Sync 1.11 or earlier versions you must uninstall your current version before you install version 1.14.0. The following procedures describe how to perform these steps. You can retain your existing Folder Sync database to preserve its data.

“ ”

**Note:** Folder Sync 1.14.0 requires a 64-bit operating system. To upgrade from Folder Sync 1.11 or earlier versions that run on a 32-bit operating system you must update your server hardware to a 64-bit operating system.

“ ”

Before you proceed, make sure that the server on which you want to install the new Folder Sync meets all the requirements.

See [Requirements for the servers on which Folder Sync is installed](#).

To uninstall Folder Sync 1.11 or earlier versions

1. Click **Start > All Programs > ArchiveTools > ArchiveTools Management Console**.
2. In the left pane of the management console, expand the Archive Accelerator node and click the Task List folder.
3. In the Task List window, right-click the **Folder Sync** task and select **Stop** to end the task.
4. Wait for the status of the Folder Sync task to change to Stopped. If necessary, click **Refresh** in the Actions pane to refresh the display.
5. Close the ArchiveTools Management Console.
6. Open the Windows **Services** MMC snap-in, and ensure that the ArchiveTools Folder Sync service has stopped running.
7. If you made any changes to the Folder Sync `.config` files, copy the files to a backup folder. The `.config` files are located in the Folder Sync installation folder, typically `C:\Program Files\ArchiveTools\ArchiveTools Folder Sync`. These files are deleted when you uninstall Folder Sync in step 9.
8. Click **Start > Control Panel > Programs > Programs and Features**.
9. In Uninstall or change a program, right-click **ArchiveTools Folder Sync** and click **Uninstall**.

“ ”

**Note:** If Windows fails to completely remove ArchiveTools Folder Sync, see the following article on our Support website: <http://www.veritas.com/docs/100014288>

“ ”

To install the new version of Folder Sync

1. Download the Folder Sync 1.13.3 compressed setup file from the following location on our Support website:

<http://www.veritas.com/docs/100039727>

1. On the 64-bit server on which you want to install the new Folder Sync, log on as an administrator.
2. Extract the contents of the compressed setup file.
3. Run the extracted Folder Sync 1.13.3 Setup .msi file.
4. When the ArchiveTools Folder Sync setup wizard displays, click **Next** to proceed with the installation of Folder Sync.
5. When you are prompted, specify the installation location for Folder Sync. We recommend that you use the default location that is displayed. Then click **Next** to continue.
6. In the Enter Service Account and Password window, provide the logon credentials for the Folder Sync service account:
  - Enter the Folder Sync account user name in the format `*Domain* \_ServiceAccount_`
  - Enter the password for the Folder Sync service account, and then re-enter the password to confirm it.
7. Click **Install** to continue with the installation.
8. When the setup wizard indicates that it is ready to finish, keep **Launch Archive Tools Configuration** checked, and click **Finish**.
9. The Archive Accelerator Configuration Wizard starts, and prompts you for the SQL instance to use for the ArchiveAccelerator configuration database.

Specify the SQL Server instance in the following format:

```
*SQL_computer_name* \_SQL_instance_
```

“ ”

**Note:** To use the default SQL instance, omit the `SQL_instance` and specify only the following:  
`SQL_computer_name\`

“ ”

1. The Folder Sync database configuration wizard asks if you want to use the existing ArchiveAccelerator database. Click **Yes** to use the existing Folder Sync database and preserve its existing data.

“ ”

**Note:** If you later install Folder Sync on additional servers for load sharing or redundancy, specify the same SQL instance for each installation of Folder Sync. All of the Folder Sync installations must all share the same SQL server database.

“ ”

2. Click **Next**. The Archive Accelerator Configuration Wizard displays your configuration settings.
3. Click **Next** to begin the configuration.

The Archive Accelerator Configuration Wizard notifies you when the configuration is complete.

1. If you saved any modified `.config` files when you uninstalled Folder Sync, you can edit the new `.config` files to reinstate your changes. The new `.config` files are located in the Folder Sync 1.14.0 installation folder, typically `C:\Program Files\ArchiveTools\ArchiveTools Folder Sync`.

“ ”

**Note:** Save a backup copy of the new.configfiles before you make any changes.

“ ”

2. Now that the installation and initial configuration is complete you must specify the new Folder Sync task settings for on-premises Exchange synchronization.

See [Configuring the settings for the Folder Sync task](#).

# Configuring the Folder Sync task

---

This section includes the following topics:

- [Configuring the settings for the Folder Sync task](#)
- [Restarting the Folder Sync task](#)

## Configuring the settings for the Folder Sync task

As part of setting up Folder Sync you must configure the settings for the Folder Sync task.

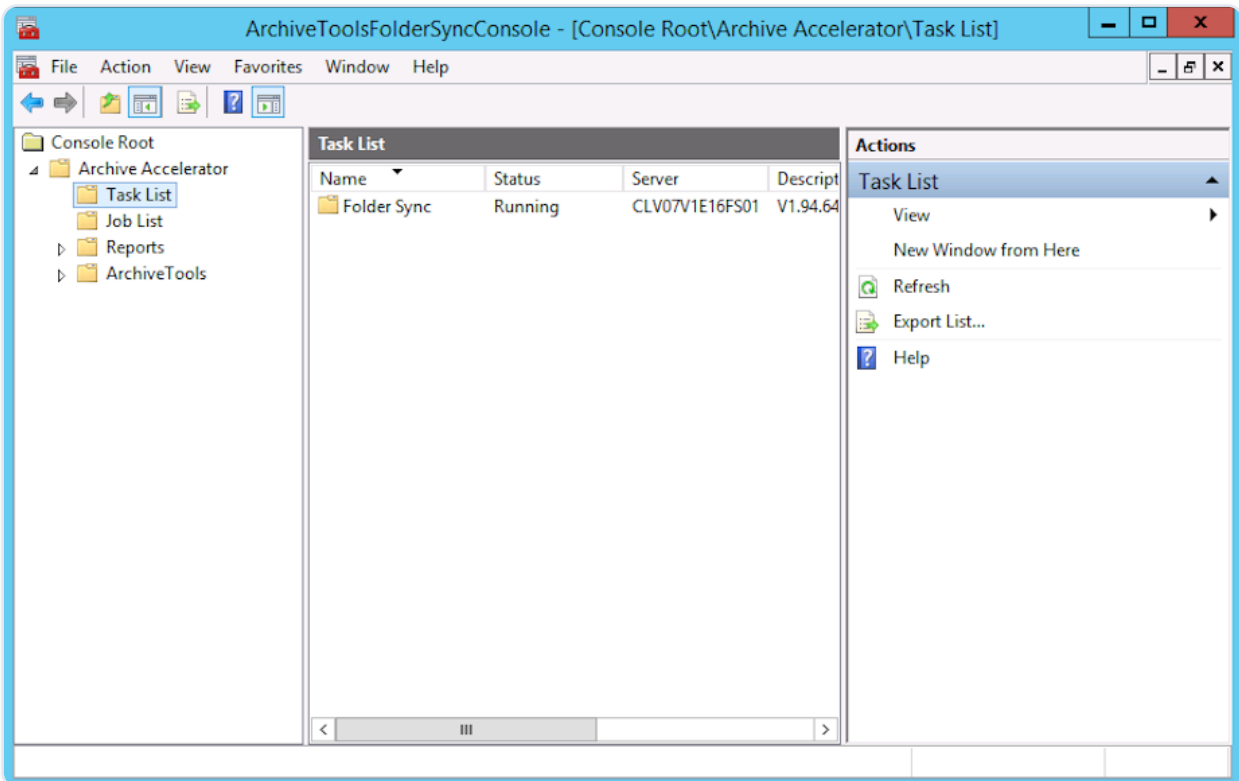
“ ”

**Note:** When you upgrade Folder Sync, some of the Folder Sync task configuration values are retained. You must check whether these values are still appropriate. For upgrades from Folder Sync 1.12 or earlier it is usually appropriate to increase the `Concurrent Mailboxes` value from its old default value of 30 to the new default value of 50. This new default value reflects the increased processing efficiency of the new version.

“ ”

To configure settings for the Folder Sync task

1. Log on to the Folder Sync server using the Folder Sync service account credentials.
2. Click **Start > All Programs > ArchiveTools > ArchiveTools Management Console**.
3. In the left pane of the management console, expand the Archive Accelerator folder and select the Task List folder.



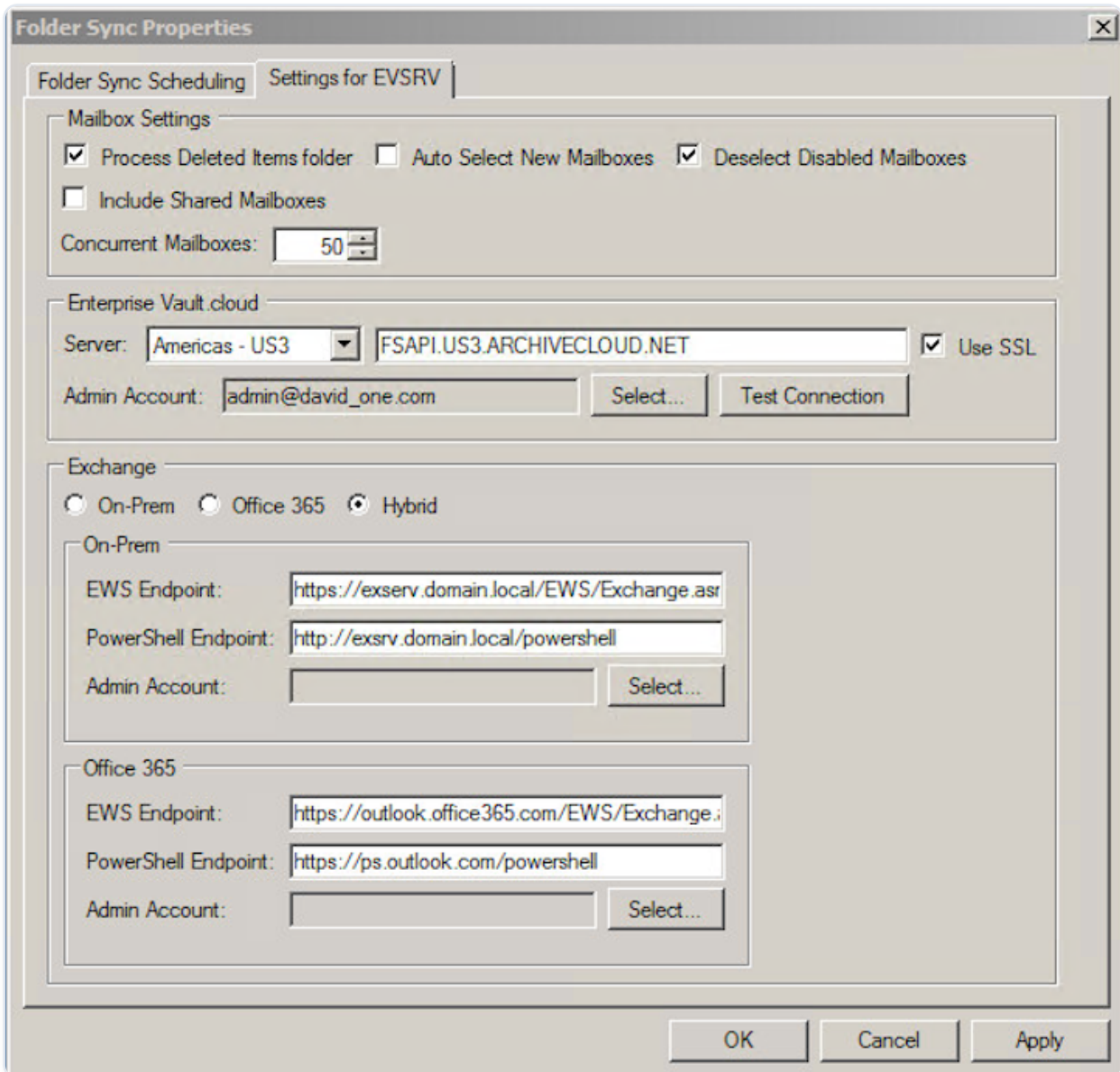
- In the central Task List pane, right-click the Folder Sync folder and select **Properties**.



**Note:** If you have set up multiple instances of Folder Sync on separate servers, the Task List pane shows the Folder Sync task for each server. Select the task for the required server.



- On the Folder Sync Properties dialog, select the Settings for *computer\_name* tab and enter the required information as described in the following steps.



6. Under Mailbox Settings, select the required processing options as follows:

<p><b>PROCESS DELETED ITEMS FOLDER</b></p>	<p><b>SELECT THIS OPTION IF YOU WANT TO PROVIDE FOLDER SYNC USERS WITH A DELETED ITEMS FOLDER IN PERSONAL.CLOUD\:</b></p>
	<p><b>- IF THIS CHECK BOX IS SELECTED, ANY ITEMS THAT ARE MOVED TO THE DELETED ITEMS FOLDER IN OUTLOOK APPEAR IN THE DELETED ITEMS FOLDER IN PERSONAL.CLOUD AFTER SYNCHRONIZATION.</b></p>
	<p><b>- IF THIS CHECK BOX IS CLEARED, THE DELETED ITEMS FOLDER DOES NOT APPEAR WITH THE OTHER SYNCHRONIZED FOLDERS IN PERSONAL.CLOUD. ITEMS THAT ARE MOVED TO THE DELETED ITEMS FOLDER IN OUTLOOK REMAIN IN THE ORIGINAL MAILBOX FOLDER IN PERSONAL.CLOUD AFTER SYNCHRONIZATION.</b></p>
<p>Auto Select New Mailboxes</p>	<p>Select this option if you want scheduled Folder Sync synchronizations to target any new mailboxes that are added between the synchronizations. For every newly added mailbox, Folder Sync sets the Selected value to True in the mailbox database table.</p>
	<p><b>Note:</b> If you select this option before Folder Sync has performed its first scheduled synchronization, Folder Sync also sets theSelectedvalue toTruefor all existing Office 365 mailboxes. Scheduled synchronizations target all existing mailboxes in addition to any newly added ones. If you select this option after Folder Sync has performed its first scheduled synchronization, Folder Sync does not change theSelectedvalue for existing mailboxes. Only newly added mailboxes are targeted automatically.</p>
	<p><b>Note:</b> Do not select theAuto Select New Mailboxesoption unless you have sufficient Folder Sync licenses for the provisioned</p>

<p><b>PROCESS DELETED ITEMS FOLDER</b></p>	<p><b>SELECT THIS OPTION IF YOU WANT TO PROVIDE FOLDER SYNC USERS WITH A DELETED ITEMS FOLDER IN PERSONAL.CLOUD\:</b></p>
	<p><b>- IF THIS CHECK BOX IS SELECTED, ANY ITEMS THAT ARE MOVED TO THE DELETED ITEMS FOLDER IN OUTLOOK APPEAR IN THE DELETED ITEMS FOLDER IN PERSONAL.CLOUD AFTER SYNCHRONIZATION.</b></p>
	<p><b>- IF THIS CHECK BOX IS CLEARED, THE DELETED ITEMS FOLDER DOES NOT APPEAR WITH THE OTHER SYNCHRONIZED FOLDERS IN PERSONAL.CLOUD. ITEMS THAT ARE MOVED TO THE DELETED ITEMS FOLDER IN OUTLOOK REMAIN IN THE ORIGINAL MAILBOX FOLDER IN PERSONAL.CLOUD AFTER SYNCHRONIZATION.</b></p>
	<p>Personal.cloud users in your Office 365 environment.</p>
<p>Deselect Disabled Mailboxes</p>	<p>Select this option if you want to stop Folder Sync from synchronizing disabled mailboxes. If a mailbox becomes disabled, Folder Sync deselects the mailbox from further processing.</p>
<p>Include Shared Mailboxes</p>	<p>Select this option to include shared mailboxes in Folder Sync's All Mailboxes list. The shared mailboxes are then available for selection in Folder Sync.</p>
<p>Concurrent Mailboxes</p>	<p>Select the number of mailboxes to be processed at the same time. The default value of 50 is recommended for most configurations.</p>

7. Under Enterprise Vault.cloud, enter the details of your Enterprise Vault.cloud environment as follows:

<p><b>SERVER</b></p>	<p><b>FROM THE DROP-DOWN LIST, SELECT YOUR ENTERPRISE VAULT.CLOUD REGION. FOLDER SYNC THEN POPULATES THE DATA CENTER LOCATION BOX WITH THE APPROPRIATE VALUE.</b></p>
	<p><b>IF YOUR ENTERPRISE VAULT.CLOUD REGION IS NOT LISTED IN THE DROP-DOWN LIST, OR IF YOU ARE UNSURE ABOUT WHAT TO SELECT, CONTACT <a href="#">VERITAS SERVICES &amp; SUPPORT</a> .</b></p>
	<p><b>IF YOU SELECT CUSTOM YOU CAN ENTER A CUSTOMIZED DATA CENTER LOCATION. DO NOT USE THIS OPTION EXCEPT UNDER THE DIRECTION OF VERITAS SERVICES &amp; SUPPORT.</b></p>
<p>Use SSL</p>	<p>Select this check box if you want to use a secure connection between the Folder Sync server and the Enterprise Vault.cloud archive server.</p>
<p>Admin Account</p>	<p>Provide the credentials of the Enterprise Vault.cloud administrator account that you want Folder Sync to use. The account must have the administrator role in the Enterprise Vault.cloud Administration Console under Role Management &gt; Assign Accounts .</p>
	<p>Click Select and enter the account user name and password. Enter the user name in UPN format, such as administrator @ company.com</p>
<p>Test Connection</p>	<p>When you have entered the Enterprise Vault.cloud configuration information, click Test Connection to test whether Folder Sync can make the connection to your Enterprise Vault.cloud company with the supplied details.</p>

8. Under Exchange, select the mailbox synchronization option that you want this instance of Folder Sync to support:

- **On-Prem** : On-premises Exchange mailbox synchronization.
- **Office 365** : Office 365 mailbox synchronization.
- **Hybrid** : Hybrid environment, that is with both on-premises Exchange and Office 365.

9. If you selected **On-Prem** or **Hybrid** in step 8, complete the On-Prem settings as follows:



**Note:** For Exchange 2007, only the EWS Endpoint must be set. Leave the other two settings with no value set.



<b>EWS ENDPOINT</b>	<b>ENTER THE EXCHANGE WEB SERVICES ENDPOINT FOR THE EXCHANGE SERVER.</b>
	<b>TO OBTAIN THE EWS ENDPOINT FOR AN EXCHANGE SERVER, ENTER THE FOLLOWING COMMAND ON THE SERVER, IN THE EXCHANGE MANAGEMENT SHELL:</b>
	<code>GET-WEBSERVICESVIRTUALDIRECTORY \   SELECT INTERNALURL</code>
	<b>THE URL IS TYPICALLY OF THE FORMAT:</b>
	<code>HTTPS:// /EWS/EXCHANGE.ASMX</code>
	<b>WHERE IS THE FULLY QUALIFIED DOMAIN NAME OF THE ON-PREMISES EXCHANGE SERVER.</b>
PowerShell Endpoint	Except for Exchange 2007, enter the PowerShell endpoint for the Exchange server.
	To obtain the PowerShell endpoint for an Exchange server, enter the following

EWS ENDPOINT	ENTER THE EXCHANGE WEB SERVICES ENDPOINT FOR THE EXCHANGE SERVER.
	TO OBTAIN THE EWS ENDPOINT FOR AN EXCHANGE SERVER, ENTER THE FOLLOWING COMMAND ON THE SERVER, IN THE EXCHANGE MANAGEMENT SHELL:
	<code>GET-WEBSERVICESVIRTUALDIRECTORY \   SELECT INTERNALURL</code>
	THE URL IS TYPICALLY OF THE FORMAT:
	<code>HTTPS:// /EWS/EXCHANGE.ASMX</code>
	WHERE IS THE FULLY QUALIFIED DOMAIN NAME OF THE ON-PREMISES EXCHANGE SERVER.
	command on the server, in the Exchange Management Shell:
	<code>get-powershellvirtualdirectory \   select internalurl</code>
	The URL is typically of the format:
	<code>http:// /powershell</code>
	where is the fully qualified domain name of the on-premises Exchange server.
	<b>Note:</b> For Exchange 2007, do not set a value.
Admin Account	Except for Exchange 2007, click Select and enter the account user name and password for your prepared on-premises Exchange administration account. Enter the user name in UPN format, such as administrator @ company.com
	If you install Folder Sync on multiple servers for load sharing or redundancy, each Folder

EWS ENDPOINT	ENTER THE EXCHANGE WEB SERVICES ENDPOINT FOR THE EXCHANGE SERVER.
	TO OBTAIN THE EWS ENDPOINT FOR AN EXCHANGE SERVER, ENTER THE FOLLOWING COMMAND ON THE SERVER, IN THE EXCHANGE MANAGEMENT SHELL:
	<code>GET-WEBSERVICESVIRTUALDIRECTORY \   SELECT INTERNALURL</code>
	THE URL IS TYPICALLY OF THE FORMAT:
	<code>HTTPS:// /EWS/EXCHANGE.ASMX</code>
	WHERE IS THE FULLY QUALIFIED DOMAIN NAME OF THE ON-PREMISES EXCHANGE SERVER.
	Sync's Folder Sync task must use a different on-premises Exchange admin account.
	<b>Note:</b> For Exchange 2007, do not set a value. The Folder Sync service account credentials are used automatically.

10. If you selected **Office 365orHybrid** in step 8, complete the Office 365 settings as follows:

EWS ENDPOINT	USE THE SUPPLIED OFFICE 365 EXCHANGE WEB SERVICES ENDPOINT\:
	<code>HTTPS://OUTLOOK.OFFICE365.COM/EWS/ EXCHANGE.ASMX</code>
PowerShell Endpoint	Use the supplied Office 365 PowerShell endpoint\:
	<code>https://ps.outlook.com/powershell</code>
Admin Account	Click Select and enter the account user name and password for your prepared Office 365 administration account. Enter the user name in UPN format, such as administrator @ company.com

<b>EWS ENDPOINT</b>	<b>USE THE SUPPLIED OFFICE 365 EXCHANGE WEB SERVICES ENDPOINT\:</b>
	<b>HTTPS://OUTLOOK.OFFICE365.COM/EWS/EXCHANGE.ASMX</b>
	<b>Note:</b> If you install Folder Sync on multiple servers for load sharing or redundancy, each Folder Sync's Folder Sync task must use a different Office 365 administration account.

11. When you have completed the configuration and successfully tested the connection to Enterprise Vault.cloud, click **OK**.
12. Restart the Folder Sync task to complete the configuration.

See [Restarting the Folder Sync task](#).

## Restarting the Folder Sync task

After you configure the Folder Sync message service settings you can restart the Folder Sync task to trigger the check for whether an Enterprise Vault.cloud account exists for each mailbox. Folder Sync does not perform folder synchronizations for a mailbox unless it can confirm that an account exists for the mailbox in your company's Enterprise Vault.cloud archive.



**Note:** You must also restart the Folder Sync task if you make changes to the Folder Sync configuration file `ArchiveAcceleratorSynchService.exe.config`.



A restart of the Folder Sync task triggers a check for provisioned archive accounts if at least 60 minutes have passed since the provisioned accounts were last checked.

To restart the Folder Sync task

1. On the Folder Sync server, click **Start > All Programs > ArchiveTools > ArchiveTools Management Console**.
2. In the left pane of the management console, expand the Archive Accelerator node.

3. Select the Task List folder.
4. In the Task List pane, right-click the Folder Sync folder and select **Stop**.
5. Wait for the status of the Folder Sync task to change to Stopped. If necessary, click **Refresh** in the Actions pane to refresh the display.
6. In the Task List pane, right-click the Folder Sync folder and select **Start**.

Confirm that the status of the Folder Sync task changes back to Started. If necessary click **Refresh** in the Actions pane to refresh the display.

“ ”

**Note:** If the mailbox account synchronization has succeeded for a mailbox, the mailbox database table in the ArchiveTools Management Console shows the account ID in the Account ID column.

“ ”

More Information

[Folder Sync fails to work for some mailboxes](#)

# Running and scheduling Folder Sync synchronizations

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This section includes the following topics:

- [About performing and scheduling Folder Sync synchronizations](#)
- [Performing a "Run Now" Folder Sync synchronization](#)
- [Configuring scheduled Folder Sync synchronizations](#)
- [About Folder Sync scheduling and choosing a scheduling strategy](#)
- [Creating scheduled Folder Sync synchronization events](#)
- [Selecting the mailboxes to target for scheduled Folder Sync synchronizations](#)
- [Changing the iterative restart period for scheduled Folder Sync synchronization events](#)

## About performing and scheduling Folder Sync synchronizations

From the ArchiveTools Management Console you can create a Folder Sync synchronization event to run immediately. You can also configure folder synchronization events to run on a schedule at a specific day and time each week. In either case you must select the mailboxes that you want Folder Sync to process.

- See [\(performing-a-run-now-folder-sync-synchronization.html "Performing a "Run Now" Folder Sync synchronization"\)](#).
- See [Configuring scheduled Folder Sync synchronizations](#).

## Performing a "Run Now" Folder Sync synchronization

From the ArchiveTools Management Console you can perform a Folder Sync synchronization immediately for one or more mailboxes.

Folder Sync may take some time to complete the processing of all of the mailboxes. The processing time depends on several factors including the number of selected mailboxes and the size of the mailboxes.

“ ”

**Note:** You cannot prioritize mailboxes for synchronization. Folder Sync synchronizes the selected mailboxes in alphabetical order.

“ ”

To perform a Run Now Folder Sync synchronization

1. In the left pane of the ArchiveTools Management Console, expand the Archive Accelerator node.
2. Expand the Archive Tools node and select **All Mailboxes**.

The main pane then displays the All Mailboxes table, which shows the Folder Sync status for each mailbox in the Folder Sync mailbox database.

1. In the list of mailboxes, select the mailboxes on which you want to run the synchronization.

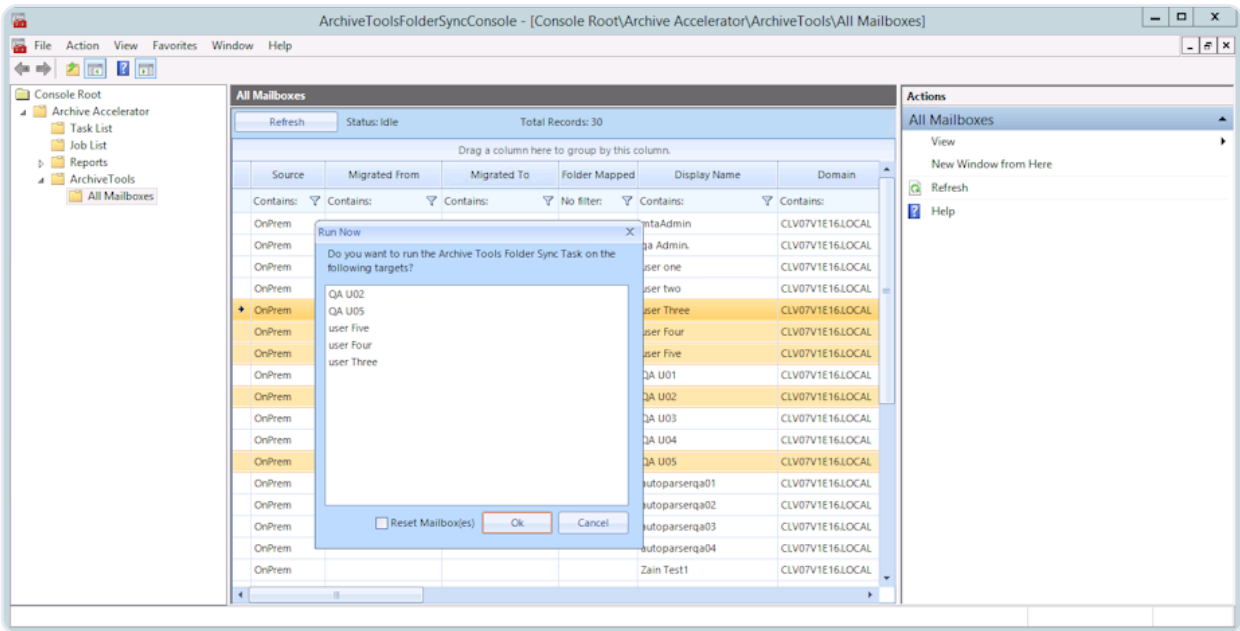
To select multiple mailboxes, hold down the Ctrl key while you select the mailboxes. To select multiple consecutive mailboxes, hold down the Shift key while you select the mailboxes.

“ ”

**Note:** To select all of the mailboxes that are currently provisioned in Enterprise Vault.cloud, sort or group the table on the Archived column, then select all of the mailboxes that have the value True in that column.

“ ”

1. Right-click any one of the selected mailboxes, and choose **Run Now** to display the Run Now dialog.



2. On the Run Now dialog, click **OK** to start the Folder Sync synchronization.



**Note:** Never select the Reset Mailbox(es) check box, unless Veritas Services & Support direct you to do so. See About the Reset Mailbox(es) option.



The Status column displays the Folder Sync synchronization status for each mailbox. To update the Status column, click **Refresh**.

More Information

[Viewing the All Mailboxes table](#)

### About the Reset Mailbox(es) option

When you select one or more mailboxes and then select Run Now from the right-click menu, the Run Now dialog appears. The dialog includes a Reset Mailbox(es) check box, which you should normally always keep unselected.



**Note:** Never select the Reset Mailbox(es) check box unless Veritas Services & Support direct you to do so. Do not use the Reset Mailbox(es) option simply because a mailbox encountered errors while processing.



If the Reset Mailbox(es) option is selected when you click OK on the Run Now dialog, the Run Now operation executes a reset on all of the selected mailboxes. The next time that Folder Sync processes a reset mailbox, the mailbox is processed as if for the first time.

## Configuring scheduled Folder Sync synchronizations

The Folder Sync scheduling feature lets you configure folder synchronization events to run on a schedule.

**Table: Steps to configure scheduled Folder Sync synchronization events** lists the steps to consider when you configure scheduled Folder Sync synchronizations. Note that the steps can be performed and repeated in any order, as required.

### Table: Steps to configure scheduled Folder Sync synchronization events

STEP	REFERENCE
Understand the scheduling process, and decide on a suitable folder synchronization schedule.	See <a href="#">About Folder Sync scheduling and choosing a scheduling strategy</a> .
Create one or more scheduled synchronization events.	See <a href="#">Creating scheduled Folder Sync synchronization events</a> .
Select the target mailboxes for the scheduled folder synchronization events.	See <a href="#">Selecting the mailboxes to target for scheduled Folder Sync synchronizations</a> .
If required, modify the pause period between iterative reruns of the scheduled folder synchronization events.	See <a href="#">Changing the iterative restart period for scheduled Folder Sync synchronization events</a> .

## About Folder Sync scheduling and choosing a scheduling strategy

Folder Sync lets you configure folder synchronization events to run on a schedule. Note the following about the scheduled synchronization events:

- Each scheduled synchronization event runs once a week, on the day and time that you specify. For example, if you schedule an event to run on Wednesdays at 9:00 P.M., the event runs every Wednesday at that time until you remove the event. To configure Folder Sync to run on multiple days of the week you can create a separate synchronization event for each day.
- For each scheduled synchronization event you must define a duration period, which can be up to 23 hours and 59 minutes.

“ ”

**Note:** Avoid periods when the Folder Sync server is busy with system tasks such as backup. For on-premises synchronizations, also avoid periods when the Exchange servers are busy with system tasks

“ ”

- The time that Folder Sync takes to complete the processing of all of the mailboxes depends on several factors, including:
  - The number of selected mailboxes.
  - The size of the mailboxes.
  - The duration period that you set for the scheduled synchronization events.

The processing may take a considerable time to complete if you synchronize a large number of mailboxes, or if the mailboxes hold a lot of items.

- If the Folder Sync task fails to process all of the mailboxes within the event duration period, it resumes the synchronization where it left off in the next scheduled event.
- If a set pause period elapses after the Folder Sync task completes the processing of the first mailbox, the task begins to process the mailboxes again from the beginning. The pause period is referred to as the iterative restart period. The default value of the iterative restart period is 60 minutes. You can change this period if you want.

See [Changing the iterative restart period for scheduled Folder Sync synchronization events](#).

- You cannot select different mailboxes for different scheduled synchronization events. If you want to perform a synchronization for an extemporary list of mailboxes, perform a Run Now synchronization.
- Folder Sync processes the selected mailboxes in alphabetical order. You cannot prioritize mailboxes for synchronization.

In practice you may need to set an aggressive synchronization strategy to ensure that new emails are synchronized from the Exchange folders to the archive folders without much delay. For example you can:

- Create a synchronization event for every day of the week.
- Configure each synchronization event to run with a duration period that is as long as possible. You can configure a duration of up to 23 hours and 45 minutes.

“ ”

**Note:** Avoid periods when the Folder Sync server is busy with system tasks such as backup. For on-premises synchronizations, also avoid periods when any on-premises Exchange servers are busy with system tasks.

“ ”

- Reduce the iterative restart period to 30 minutes.

## Creating scheduled Folder Sync synchronization events

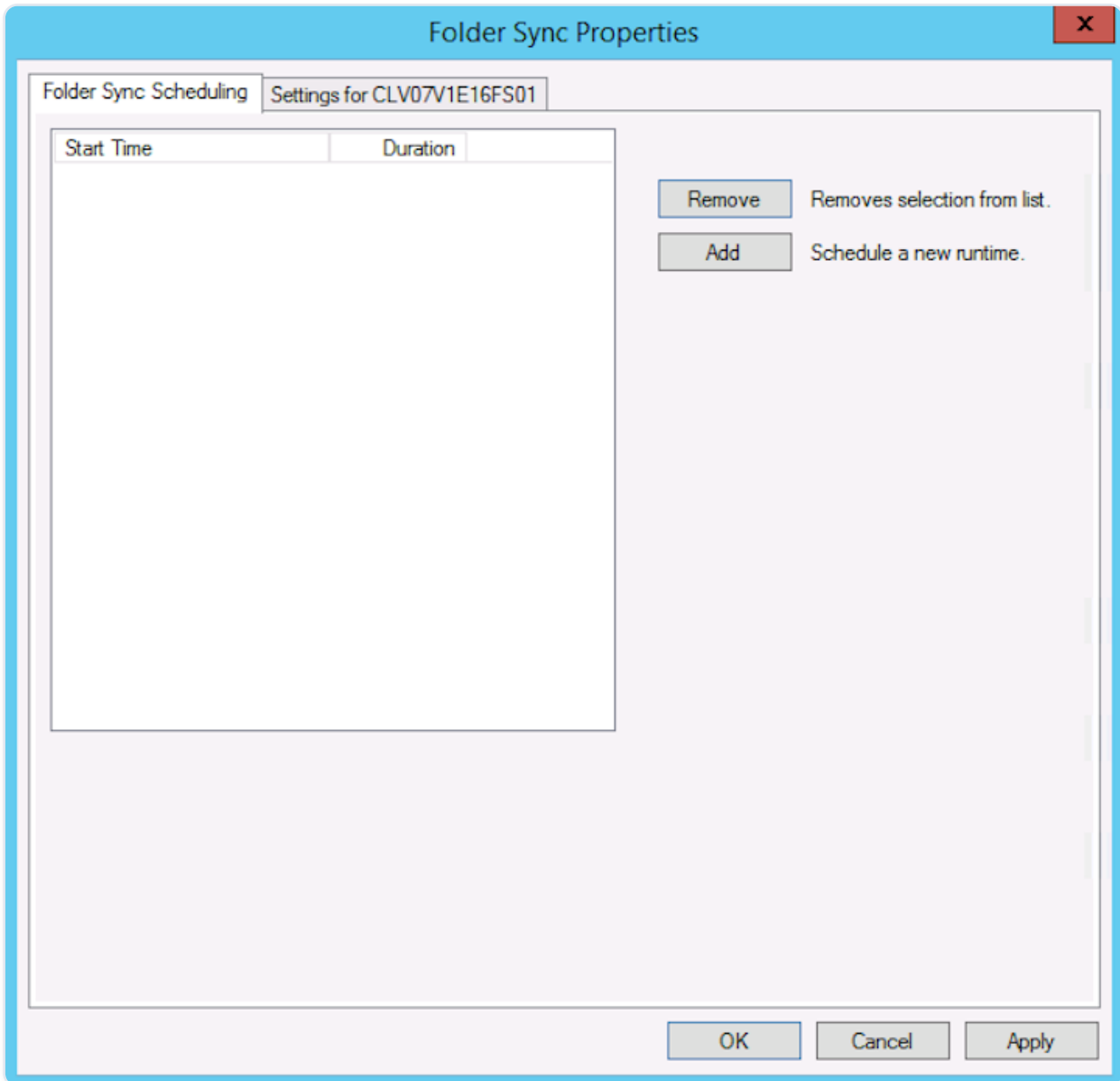
The Folder Sync scheduling feature lets you schedule synchronization events. Each synchronization event runs on a weekly basis. We recommend that you create a scheduled synchronization event for every day of the week.

For each event you must specify a day of the week on which to run the event, a start time, and a duration period.

To create scheduled Folder Sync synchronization events

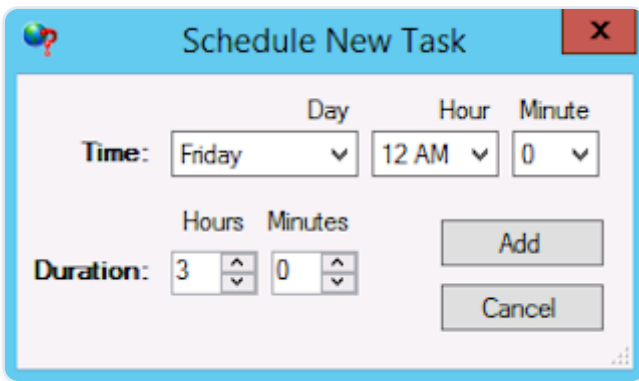
1. On the Folder Sync server, click **Start > All Programs > ArchiveTools > ArchiveTools Management Console**.

2. In the left pane of the management console, expand the Archive Accelerator folder.
3. Select the Task List folder.
4. In the Task List pane, right-click the Folder Sync folder and select **Properties**.
5. On the Folder Sync Properties dialog, ensure that the Folder Sync Scheduling tab is selected.



6. Click **Add** to create a new scheduled synchronization event.

The Schedule New Task dialog appears.



1. On the Schedule New Task dialog, specify the required schedule as follows:

TIME	<p><b>SELECT THE DAY OF THE WEEK AND THE TIME AT WHICH YOU WANT THE SYNCHRONIZATION EVENT TO START.</b></p>
	<p><b>THE SYNCHRONIZATION EVENT RUNS AT THE SELECTED DAY AND TIME EACH WEEK.</b></p>
Duration	<p>Select the duration period for the synchronization event.</p>
	<p>Avoid periods when the Folder Sync server and any on-premises Exchange servers are busy with system tasks such as backup.</p>

2. Click **Add** to create the synchronization event.
3. To schedule additional synchronization events, repeat steps 6 to 8.

To remove a scheduled synchronization event, select the task and then click **Remove**.



**Note:** You cannot edit a scheduled synchronization event. If necessary, remove the event and create a new one.



## Selecting the mailboxes to target for scheduled Folder Sync synchronizations

If you create scheduled Folder Sync synchronization events, you must select the mailboxes to target for scheduled folder synchronizations.

“ ”

**Note:** You cannot select different mailboxes for different scheduled synchronization events. If you want to perform a synchronization for an extemporary list of mailboxes, you can perform a Run Now synchronization.

“ ”

Folder Sync processes the selected mailboxes in alphabetical order. You cannot prioritize mailboxes for synchronization.

You use the ArchiveTools Management Console to select the mailboxes to target. You can also remove mailboxes from the list of targeted mailboxes, if required.

“ ”

**Note:** To target automatically any new mailboxes that are added between synchronizations, use the Auto Select New Targets configuration option. See Configuring the settings for the Folder Sync task.

“ ”

To select the mailboxes to target for scheduled Folder Sync synchronizations

1. In the left pane of the ArchiveTools Management Console, expand the Archive Accelerator node.
2. Expand the Archive Tools node and then select **All Mailboxes**.

The main pane displays the mailbox database table, which shows the Folder Sync status for each mailbox in the mailbox database.

1. In the mailbox database table, select one or more mailboxes that you want to target for scheduled folder synchronization.

To select multiple mailboxes, hold down the Ctrl key while you select the mailboxes. To select multiple consecutive mailboxes, hold down the Shift key while you select the mailboxes.

1. Right-click any one of the mailboxes that you selected, and choose **Select for Sync**.
2. To check which mailboxes are now selected for scheduled synchronization, you can examine the Selected column of the table. This column displays True for all of the mailboxes in the mailbox database that are targeted for scheduled synchronization.

“ ”

**Note:** To refresh the information in the mailbox database table, click Refresh under Actions in the right pane.

“ ”

To remove mailboxes from the list of mailboxes that are targeted for scheduled Folder Sync synchronizations

1. In the left pane of the ArchiveTools Management Console, expand the Archive Accelerator node.
2. Expand the Archive Tools node and then select **All Mailboxes**.

The main pane displays the mailbox database table, which shows the Folder Sync status for each mailbox in the mailbox database.

1. In the mailbox database table, select one or more mailboxes that you want to remove from folder synchronization.

To select multiple mailboxes, hold down the Ctrl key while you select the mailboxes. To select multiple consecutive mailboxes, hold down the Shift key while you select the mailboxes.

1. Right-click any one of the mailboxes that you selected, and choose **Select for Sync**.
2. The Select Mailboxes for Sync dialog lists the mailboxes you selected. Clear the **Select** checkbox at the bottom of the dialog, and then click **OK**.

“ ”

**Note:** You must clear the `Select` check box, otherwise the mailboxes are selected for synchronization.

“ ”

- To confirm that the mailboxes are now unselected, examine the `Selected` column of the mailbox database table. This column displays `False` for all of the mailboxes in the mailbox database that are not targeted for scheduled synchronization.

“ ”

**Note:** To refresh the information in the mailbox database table, click `Refresh` under `Actions` in the right pane.

“ ”

More Information

[Viewing the All Mailboxes table](#)

## Changing the iterative restart period for scheduled Folder Sync synchronization events

Within the duration period that you set for a scheduled Folder Sync synchronization, the Folder Sync task may perform repeat folder synchronization runs. The task begins a repeat synchronization run if a pause period elapses after the task has finished processing the first mailbox. The pause period between the reruns is named the iterative restart period.

By default the iterative restart period is set to 60 minutes. You can change this value if you want. For example, to set a more aggressive policy for folder synchronizations, you can reduce the iterative restart period to, say, 30 minutes.

“ ”

**Note:** Setting the iterative restart period to 0 disables the rerun of the scheduled folder synchronization in the duration period.



To change the iterative restart period you must edit a value in a Folder Sync configuration file.

To change the iterative restart period for scheduled Folder Sync synchronizations

1. On the Folder Sync server, navigate to the Folder Sync installation folder, typically `C:\Program Files\ArchiveTools\ArchiveTools Folder Sync`.
2. Take a backup copy of the file `ArchiveAcceleratorSynchService.exe.config` and paste it in a suitable location in case you want to revert to it later.
3. Open `ArchiveAcceleratorSynchService.exe.config` with a text editor such as Notepad.
4. Find the setting `ScheduleRestartPeriodMinutes`.
5. Change the value of this setting from the default of 60 to the required number of minutes.
6. Close the file, and save the changes.
7. Restart the Folder Sync task.

See [Restarting the Folder Sync task](#).

# Monitoring and managing Folder Sync

This section includes the following topics:

- [About monitoring and managing Folder Sync](#)
- [Viewing the All Mailboxes table](#)
- [Viewing the Folder Sync job list](#)
- [Viewing the Folder Sync mailbox report](#)
- [Viewing the Folder Sync status report](#)
- [Disabling or enabling Folder Sync from the Administration Console](#)
- [Viewing the Folder Sync synchronization status of an account from the Administration Console](#)

## About monitoring and managing Folder Sync

Folder Sync provides a number of means for monitoring the status of its folder synchronizations.

Table: [Monitoring options in Folder Sync](#) lists these options.

### Table: Monitoring options in Folder Sync

ITEM	DESCRIPTION	MORE INFORMATION
All Mailboxes table	Enables you to check the synchronization status of every mailbox. Provides filters and sort features.	See <a href="#">Viewing the All Mailboxes table</a> .
Job list	Presents a dynamic record of all the Folder Sync jobs that have run or that are currently executing, with details about each job.	See <a href="#">Viewing the Folder Sync job list</a> .
Folder Sync mailbox report	Provides information on the status of each mailbox that Folder Sync has processed.	See <a href="#">Viewing the Folder Sync mailbox report</a> .

ITEM	DESCRIPTION	MORE INFORMATION
Folder Sync status report	Provides information on the status of processing in the last 24 hours, for all the mailboxes that are selected for Folder Sync synchronization.	See <a href="#">Viewing the Folder Sync status report</a> .

An Enterprise Vault.cloud administrator can perform the following actions from the Enterprise Vault.cloud Administration Console:

- Disable or enable Folder Sync.

See [Disabling or enabling Folder Sync from the Administration Console](#).

- View the synchronization status of an individual archive account.

See [Viewing the Folder Sync synchronization status of an account from the Administration Console](#).

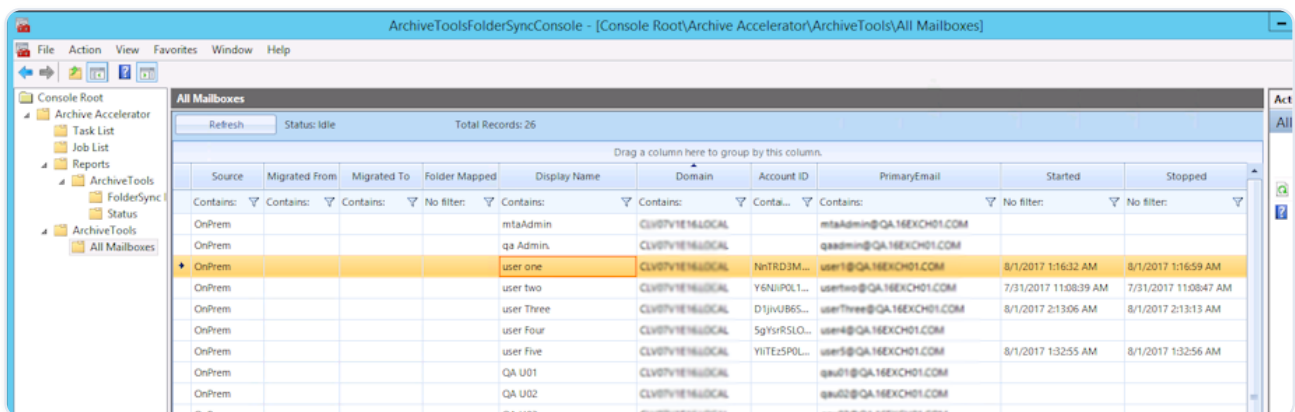
## Viewing the All Mailboxes table

The All Mailboxes table provides information on the Folder Sync synchronization status for all the mailboxes that it has been directed to synchronize.

To view the All Mailboxes table

1. In the left pane of the ArchiveTools Management Console, expand the Archive Accelerator node.
2. Expand the ArchiveTools node and select **All Mailboxes**.

The **All Mailboxes** table appears in the main pane:





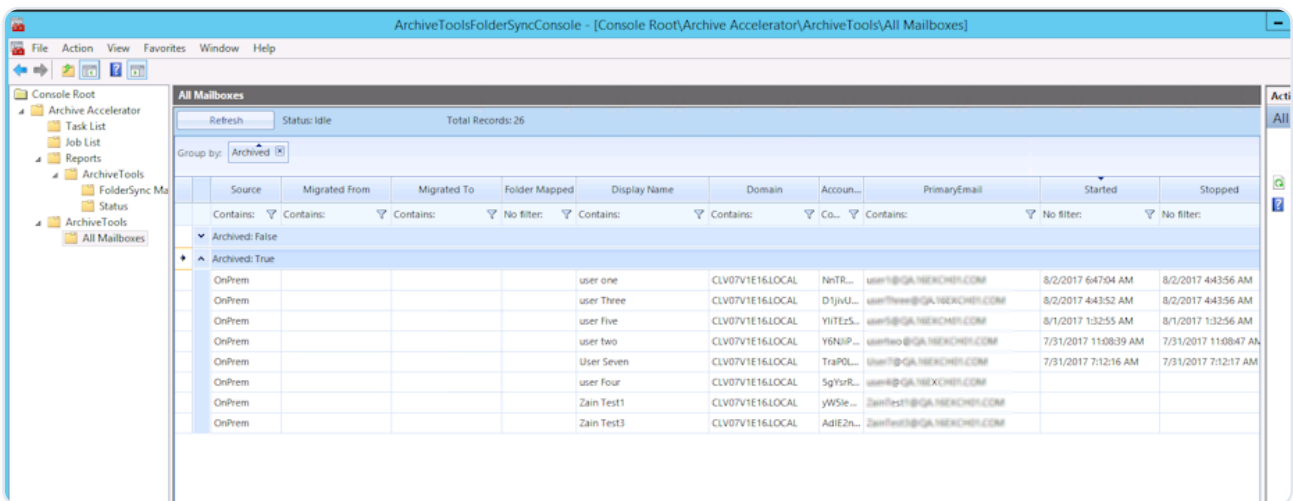
**Note:** ClickRefresh to refresh the table contents as required. The ArchiveTools Management Console does not update the table automatically.



You can sort, filter, and group the values in this table as follows:

- To sort the contents by a particular column, click the column heading.
- To filter the content of any column, click to the left of the filter icon in the required column, and type the text on which you want to filter.
- To group the content according to the values in a particular column, drag the column heading to the area above the table headings row.

The following example shows the table, grouped by the values in the Archived column:



## Contents of the All Mailboxes table

Table: All Mailboxes table content describes each column of the All Mailboxes table.



**Note:** ClickRefresh to refresh the table contents as required. The ArchiveTools Management Console does not update the table automatically.



**Table: All Mailboxes table content**

COLUMN HEADING	DESCRIPTION
Source	The Exchange environment of the mailbox, which can be one of:
	- Online : Office 365
	- OnPrem : On-premises Exchange
	- A blank entry may indicate that the mailbox was added by an earlier version of Folder Sync and could not be rediscovered by this version. In hybrid environments, a blank entry may result for a mailbox that has been migrated.
Migrated From	Hybrid environments only: The name of the on-premises mailbox from which this Office 365 mailbox was migrated.
Migrated To	Hybrid environments only: The name of the Office 365 mailbox to which this on-premises mailbox was migrated.
Folder Mapped	Hybrid environments only: Shows the value True if the folder IDs have been mapped successfully from the on-premises mailbox to the Office 365 mailbox.
Display Name	The mailbox display name.
Domain	The domain of the mailbox.
Account ID	Displays the ID of the archive account in Enterprise Vault.cloud, if Folder Sync has identified one.
	<b>Note:</b> If the entry is blank, Folder Sync has not identified an Enterprise Vault.cloud archive

COLUMN HEADING	DESCRIPTION
	account for the mailbox, and folder synchronizations do not proceed.
Primary Email	The primary email address for the mailbox.
Started	The date and time when the folder synchronization last started.
Stopped	The date and time when the latest folder synchronization stopped.
Last Completed	The date and time when folder synchronization last completed.
Archived	True : Folder Sync has established that an archive account exists in Enterprise Vault.cloud.
	False : Folder Sync has not found an archive account in Enterprise Vault.cloud.
Selected	True : The mailbox is selected for a scheduled synchronization.
	False : The mailbox is unselected for scheduled synchronization.
Status	The folder synchronization status. The status can be any one of the following\:
	- To be started . Folder synchronization has not run.
	- Started . Folder synchronization is in progress.
	- Stopped . The Folder Sync task stopped while folder synchronization was in progress.
	- Completed . Folder synchronization finished successfully.

COLUMN HEADING	DESCRIPTION
	- Erred . An error occurred during processing. See the Event Log column for details.
	- Paused . Folder synchronization is paused.
Event	An event log error that was generated for this mailbox.
Added	The date and time that the mailbox was added to the table. For mailboxes that were added in a previous version of Folder Sync, this value defaults to the date and time that Folder Sync was upgraded.
Updated	The date and time that the mailbox was last updated as a result of account ID synchronization. This synchronization occurs when the ArchiveTools Folder Sync Service starts, and at the beginning of each scheduled synchronization. For support use.

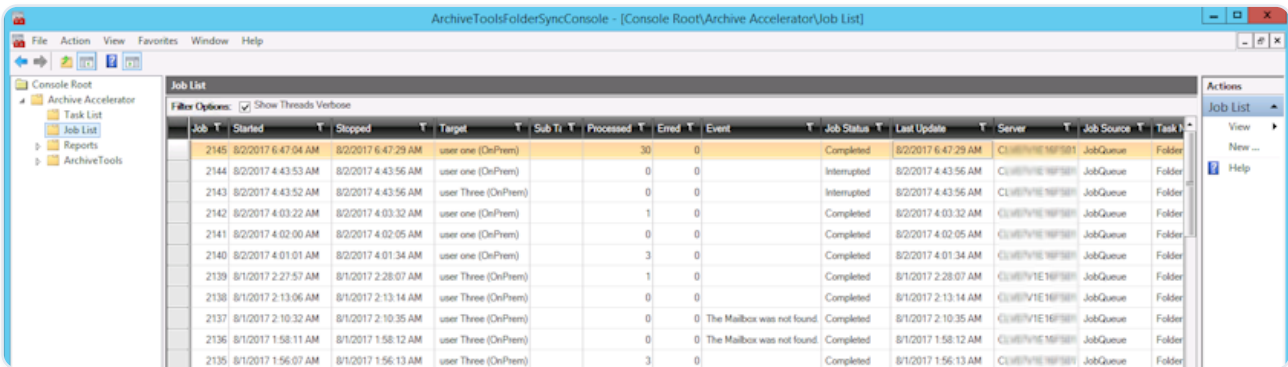
## Viewing the Folder Sync job list

A Folder Sync folder synchronization event runs a separate synchronization job for each selected mailbox that it processes. The Folder Sync job list presents a dynamic record of all the Folder Sync jobs that have run or that are currently executing, with details about each job.

To view the Folder Sync job list

1. In the left pane of the ArchiveTools Management Console, expand the Archive Accelerator node.
2. Select **Job List**.

The job list appears in the main pane.



You can sort and filter the contents of the job list as follows:

- To sort the list on a column, click the column heading. To reverse the sort order, click the column heading again.
- To filter the content that is included in a column, click the filter icon in the column heading and in the Filter dialog specify the filter details. The available filter options depend on the column that is selected.

To remove a filter from a column, click the filter icon in the column heading, and then click **Clear Filter**.

## Contents of the Folder Sync job list

Table: Folder Sync job list column descriptions describes the information that the Folder Sync job list table presents for each job.

### Table: Folder Sync job list column descriptions

COLUMN HEADING	DESCRIPTION
Job	The unique job number of this job.
Started	The date and time when the job started.
Stopped	The date and time when the job stopped.
Target	The display name of the mailbox that was the target of this job.
Sub Target	The folder that the job is processing, or last processed.
Processed	The number of messages and folders that were processed.

COLUMN HEADING	DESCRIPTION
Erred	The number of errors that occurred during processing
Event	The most recent error message that is associated with this job.
Job Status	One of Completed, Erred, or Interrupted.
Last Update	The last occurrence of an update to any column in this job row.
Server	The name of the server that is running the Folder Sync application.
Job Source	The source of the job\:
	- Manual : A run now synchronization
	- Schedule : A scheduled synchronization.
Task Name	For Folder Sync the task name is always Folder Sync .
Job Type	Indicates whether Messages or Folders have been processed.
Report Only	Whether the job ran in Report Only mode.
Info	The number of folders and email messages that Folder Sync has sent to the web service for archiving.
	<b>Note:</b> This number does not indicate the number of folders or email messages that were archived at the time of the synchronization event.
Logfile	The name of the log file that is associated with the job.

More Information

About the Folder Sync event log errors and log files

## Viewing the Folder Sync mailbox report

The ArchiveTools Folder Sync mailbox report shows the status of each mailbox that Folder Sync has processed. The report includes a list of the folders that have been synchronized for each mailbox. You can click a folder in the list to view a child report, the ArchiveTools Folder Sync folder report. The folder report shows details of the emails that Folder Sync has processed for the selected folder.

To view the Folder Sync mailbox report

1. In the left pane of the ArchiveTools Management Console, expand the Archive Accelerator node.
2. Expand the Reports node. Then expand the FolderSync node, and select **FolderSync Mailbox Report**

The mailbox report appears in the main pane.



**Note:** If you have run the report before, the most recently generated report is shown. To refresh the report, click the refresh icon in the report's menu bar.



Mailbox Name	Mailbox Identity	Archived	Status	Time of First Sync	Time of Last Sync	Time Started	Time Stopped	Folder List
fSTestUser	30	True	5	12/20/2016 5:12:38 PM	1/4/2017 11:31:34 AM	1/4/2017 2:31:45 PM	1/4/2017 2:32:02 PM	
fSTestUser2	32	True	5	12/20/2016 1:57:46 PM	1/4/2017 2:29:00 PM	1/4/2017 2:31:53 PM	1/4/2017 2:32:12 PM	
fSTestUser3	37	True	5	1/4/2017 9:34:51 AM	1/4/2017 2:28:02 PM	1/4/2017 2:32:01 PM	1/4/2017 2:32:21 PM	

You can use the report's menu bar options to page through the report, print or export the report, and to search for a text string.

To sort the report on a column, click the sort icon in the column heading. To reverse the sort order, click the icon again.

## Contents of the Folder Sync mailbox report

Table: Contents of the ArchiveTools Folder Sync mailbox report lists the information that the Folder Sync mailbox report includes.

### Table: Contents of the ArchiveTools Folder Sync mailbox report

COLUMN HEADING	DESCRIPTION
Mailbox name	The display name of the mailbox for which information is provided.
Mailbox Identity	An integer that identifies this mailbox.
Archived	True : Folder Sync has established that a provisioned account exists in Enterprise Vault.cloud.  False : Folder Sync has been unable to identify a provisioned account exists in Enterprise Vault.cloud.
Status	A code that indicates the folder synchronization status, as follows\:
	- 1 - To be started. Folder synchronization has not run.
	- 2 - Started. Folder synchronization is in progress.
	- 3 - Stopped. The Folder Sync task stopped while folder synchronization was in progress.
	- 4 - Completed. Folder synchronization finished successfully.
	- 5 - Erred. An error occurred during processing. See the Event log column of the Folder Sync mailbox database entry for details.
	- 6 - Paused. Folder synchronization is paused.

COLUMN HEADING	DESCRIPTION
Time of First Sync	The date and time when the first successful synchronization of the mailbox completed.
Time of Last Sync	The date and time when the most recent successful synchronization of the mailbox completed.
Time Started	The date and time when the most recent synchronization attempt started.
Time Stopped	The date and time when the most recent synchronization attempt finished.
Folder List	Click the Expand icon to see a list of folders that Folder Sync processed in the last synchronization.
	Click any folder in the list to view a ArchiveTools Folder Sync folder report for the folder. The folder report lists details of the items that Folder Sync processed for the selected folder.
	To return to the parent mailbox report, click the left arrow button above the folder report's title in the main pane.

More Information

[Viewing the All Mailboxes table](#)

## Viewing the Folder Sync status report

The ArchiveTools Management Console includes a ArchiveTools Folder Sync status report which shows information about the status of processing in the last 24 hours for the mailboxes that are selected for Folder Sync processing.

The ArchiveTools Management Console includes a report on the status of each mailbox that has been selected for Folder Sync synchronization.

To view the Folder Sync status report

1. In the left pane of the ArchiveTools Management Console, expand the Archive Accelerator node.
2. Expand the Reports node.
3. Expand the FolderSync node and select **Status**.

The Folder Sync status report appears in the main pane.



**Note:** If you have run the report before, the most recently generated report is shown. To refresh the report, click the refresh icon in the report's menu bar.



Refresh

1 of 1 | 100% | Find | Next

### Archive Tools Folder Sync Status Report

Report Creation Time: 1/9/2017 12:22:46 PM

#### Distinct Selected Mailboxes Processed (Last 24 Hours)

Status	Count	%
To Be Started	3	60.00%
Processing...	2	40.00%
Unprocessed	0	0.00%
<b>Total</b>	<b>5</b>	

#### Total Mailboxes Processed (Last 24 Hours)

Status	Count
Completed	10
Mailbox Scan	2

#### Time Since Oldest Selected Mailbox Processed

Timespan
0:04:34

You can use the report's menu bar options to page through the report, print or export the report, and to search for a text string.

To sort the report on a column, click the sort icon in the column heading. To reverse the sort order, click the icon again.

## Contents of the Folder Sync status report

**Table: Contents of the ArchiveTools Folder Sync status report** describes the information that the Folder Sync status report includes.

**Table: Contents of the ArchiveTools Folder Sync status report**

SECTION	DESCRIPTION
Distinct Selected Mailboxes Processed (Last 24 Hours)	Of the mailboxes that were selected for Folder Sync processing:
	The count for processed, completed, started, erred, and unprocessed individual mailboxes in the last 24 hours.
	<b>Note:</b> If the same mailbox was processed multiple times within the 24-hour period, the mailbox is counted only once in these figures.
	The mailbox numbers are shown both as a count and as a percentage of the total.
Total Mailboxes Processed (Last 24 Hours)	Of the mailboxes that were selected for Folder Sync processing:
	The total count for processed, completed, started, erred, and unprocessed mailboxes in the last 24 hours.
	<b>Note:</b> If the same mailbox was processed multiple times within the 24-hour period, the mailbox is counted each time in these figures.
Time Since Oldest Selected Mailbox Processed	Of the mailboxes that were selected for Folder Sync processing:

SECTION	DESCRIPTION
	The longest time that has elapsed since Folder Sync began processing any individual mailbox.
	If the time is under 24 hours, the format of the value is Hours : Minutes : Seconds (HH:MM:SS)
	If the time is greater than 24 hours, the format of the value is Days : Hours : Minutes : Seconds (D:HH:MM:SS)
	Assuming that at least one complete folder synchronization has completed, this time provides an indicator of how long Folder Sync took to process all of the selected mailboxes.

## Disabling or enabling Folder Sync from the Administration Console

Folder synchronization is enabled by default in the Administration Console after you have installed and configured Folder Sync.

When you have completed the installation and configuration of Folder Sync, you can enable or disable all Folder Sync synchronization activity from the Enterprise Vault.cloud Administration Console.



**Note:** If you enable Folder Sync it does not run immediately, but at the next scheduled synchronization event.



To disable or enable Folder Sync from the Administration Console

1. In a supported Internet browser, navigate to the URL for your Enterprise Vault.cloud Administration Console, and log in.

2. In the left pane of the Administration Console, expand the Policy Management node and select **Archive Options**.
3. Under Active Folder Synchronization, the Administration Console displays the current enablement status of Folder Sync, the number of users whose folders are being synchronized, and the date and time of the last synchronization event.

In the **Status** drop-down box, select **Enable** or **Disable**.

## Viewing the Folder Sync synchronization status of an account from the Administration Console

For individual users you can view the synchronization status and the date and time of the last synchronization event from the Accounts node of the Enterprise Vault.cloud Administration Console.

“ ”

**Note:** You cannot make Folder Sync-related changes for individual users from the Administration Console. Changes must be made in the ArchiveTools Management Console.

“ ”

To view the Folder Sync synchronization status of an account from the Administration Console

1. In an Internet browser, navigate to the URL for your Enterprise Vault.cloud Administration Console, and log in.
2. In the left pane of the Administration Console, expand the My Config node and select **Accounts**.
3. Click a user from the list on the Accounts page, to display the Edit Account page for that user.
4. On the Edit Account page, Folder Synchronization Status shows the synchronization status for the selected user, and the date and time of the last synchronization event.
5. Click **Cancel** to exit the Edit Account page without making any changes.

# Troubleshooting Folder Sync

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This section includes the following topics:

- [About the Folder Sync event log errors and log files](#)
- [Folder Sync fails to work for some mailboxes](#)
- [Troubleshooting occasional time-outs of the Folder Sync service](#)

## About the Folder Sync event log errors and log files

The Folder Sync application writes to the Windows Application log. The event log entries show the source as ArchiveTools Folder Sync. Synchronization errors are displayed in the ArchiveTools Management Console, in the following places:

- In the Event Log column of the All Mailboxes table.

See [Viewing the All Mailboxes table](#).

- In the Event column of the job list.

See [Viewing the Folder Sync job list](#).

The Folder Sync log files are located by default on the installation drive under the ProgramData folder, typically in C:\ProgramData\Vault Solutions\Archive Accelerator.

“ ”

**Note:** To see theProgramDatafolder you must set your Windows file options to view hidden files.

“ ”

To change the log file location or configure which items to log, edit the file ArchiveAcceleratorSynchService.exe.config in the Folder Sync installation folder, typically C:\Program Files\ArchiveTools\ArchiveTools Folder Sync.

- To change the output location for the log files, set a value for the setting logPath.
- To log errors from the Folder Sync service, set the value of logService to True.

- To log errors from the job scheduler, set the value of logJob to True.
- If you set the value of logXML to True, Folder Sync creates a series of XML files that include the information that it sends to the Enterprise Vault.cloud data center. The information includes folder names and item IDs.

If you make changes to the ArchiveAcceleratorSynchService.exe.config file, you must restart the Folder Sync task to implement the changes.

See [Restarting the Folder Sync task](#).

## Folder Sync fails to work for some mailboxes

For Folder Sync to synchronize folders and their contents in a timely manner, the Folder Sync scheduler must run events on a daily basis. The events should be run with as near to a 24-hour duration as possible. Avoid running events at times of high server demand, such as when Folder Sync server backups or on-premises Exchange server backups are run.

Folder Sync does not perform folder synchronizations on mailboxes for which it cannot identify a provisioned account ID in Enterprise Vault.cloud. If Folder Sync has not found a provisioned account ID for a mailbox, then the ArchiveTools Management Console shows the following in the entry for the mailbox database under Archive Accelerator > ArchiveTools > Servers:

- The Account ID column is empty.
- After an attempted folder synchronization, the Event Log column shows the error `No Account ID has been specified`.

To fix this condition, ensure that Enterprise Vault.cloud has provisioned an archive account for the mailboxes, and then let Folder Sync perform a check for the provisioned mailbox accounts.

Folder Sync performs a check for provisioned mailbox accounts in the following circumstances:

- When the Folder Sync task starts, if at least 60 minutes have passed since it checked the mailbox accounts.
- If no scheduled folder synchronization is running and at least 60 minutes have passed since a scheduled folder synchronization completed.

## Troubleshooting occasional time-outs of the Folder Sync service

If the Folder Sync host server is slightly underpowered you may experience occasional time-outs of the ArchiveTools Folder Sync service.

An error such as the following may be received:

```
Windows could not start the ArchiveTools Folder Sync service on Local Computer.  
Error 1053: The service did not respond to the start or control request in a  
timely fashion.
```

To help to avoid a time out of the service in this situation, you can set a Windows registry value on the host server as follows.

To troubleshoot occasional time-outs of the Folder Sync service

1. Start the Windows registry editor on the Folder Sync host server.
2. Locate the following registry subkey:

```
HKEY_LOCAL_MACHINE  
  
  \SYSTEM  
  
    \CurrentControlSet  
  
      \Control
```

1. Under this subkey, edit or create the following DWORD value: ServicesPipeTimeout.

Give ServicesPipeTimeout a decimal value of 180000.

1. Exit from the registry editor.
2. You must restart the host server to apply this change.