

# **IBM Aspera Drive User Guide 3.1.7**

Mac OS X

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# Introduction

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IBM Aspera Drive is a data transfer client application that you run on your desktop or mobile device, to move files or folders quickly and securely through your Aspera transfer server.

## Features at a Glance

Drive provides the following services:

- Integrated desktop browsing of remote files.
- Drag-and-drop high-speed upload and download from cloud storage and traditional storage.
- Background synchronization of files.
- Sending and receiving of large files and data sets at global distances.

# Installation

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## Installing Drive

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To install Drive, follow the instructions in this section. To upgrade an existing Drive installation, see [Upgrading Drive](#) on page 5.

Before installing Drive, obtain from your system administrator the URL and username/password credentials for at least one transfer server for use with Drive.

1. Download and open the Drive disk image:

**AsperaDrive-version.dmg**

2. After you have agreed to the license agreement, the Drive application appears in a Finder window. Drag-and-drop the Drive application to the desired location (such as the desktop or the **Applications** folder).
3. If Drive still appears as a device in your Finder window, eject it.
4. Enable the extensions that provide some Drive functions from the Finder interface.
  - a) From the Apple menu, select **System Preferences**.
  - b) Go to **Extensions > All**.
  - c) Ensure that for Aspera Drive, the **Share Menu** and **Finder** extensions are enabled.
5. If you are using Drive with Aspera on Cloud, you may need to log in as an admin. If so, consult your system administrator for these credentials.
6. To begin using Drive, go to where you placed the application and double-click it. A wizard opens, for adding an account for use with an Aspera transfer server.


For instructions on using the wizard, see the sections in this guide that describe adding and modifying accounts. The Drive functions available to you depend on the type of server you connect to. See

- [Adding a Drive Account for IBM Aspera on Cloud](#)  
or
- [Adding a Drive Account for IBM Aspera Faspex](#)  
or
- [Adding a Drive Account for IBM Aspera Shares](#)  
or
- [Adding a Drive Account for Cloud Storage](#)

## Upgrading Drive

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To determine whether Drive updates are available, do the following:

1. Check the release notes for information on new features and fixes since your last installation.
2. While Drive is running, click the Drive icon  in the menu bar, and select **Check for Updates**.
3. If a newer release is available, click **Install Update** and follow the onscreen instructions to upgrade your Drive installation.

**Note:** Before the upgrade can be applied, you must quit Drive.

## Uninstalling Drive

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To remove the Drive application from your system, run the uninstallation script:

1. Open a terminal window:  
**Applications > Utilities > Terminal**
2. At the terminal prompt, type the following command:

```
$ /installationDirectory/Aspera\ Drive.app/Contents/Resources/
uninstall_drive.sh
```

*installationDirectory* is the directory where you placed the Drive application when you installed it. For example, */Users/yourUserName/Desktop* or */Applications*.

3. Answer the prompts and finish the uninstallation process.

## Working with IBM Aspera on Cloud

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### Drive with Aspera on Cloud

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You can use Drive in conjunction with IBM Aspera on Cloud, a SaaS platform for file transfer and collaboration. When Aspera on Cloud is integrated into Drive, you can do the following:

- See all your Aspera on Cloud workspaces, files, and packages (sent, received, and archived) in a single view in the file browser.
- Share content with members of your organization.
- Send packages to an Aspera on Cloud inbox.
- Check in and check out files for collaboration with a team.

**Note:** Drive does not currently support adding metadata to packages that it sends. Therefore, ensure that Aspera on Cloud is not configured to have any required metadata fields when sending packages. You can configure optional metadata fields, but Drive will ignore them.

#### Seeing into Your Aspera on Cloud Workspace

To view the contents of a location in Aspera on Cloud, you can use any of these interfaces:

- Aspera on Cloud itself (in a web browser)
- Drive's Remote View

See [Understanding the Remote View](#) on page 7.

For detailed information on using Aspera on Cloud, see the Help Center within the Aspera on Cloud application.



## Adding a Drive Account for Aspera on Cloud

Use Drive's account setup wizard to configure a new transfer account. Have the following information available before configuring an account:

- The URL of your Aspera on Cloud platform.
- The username and password that you have on Aspera on Cloud.

The steps below assume that you have Drive installed and running.

To add an Aspera on Cloud account to Drive, do the following:

1. In the menu bar, click the Drive icon  and select **Preferences > Accounts**.
2. Click  to add a transfer account. The **Account Wizard** opens.
3. Fill in the fields with the following information about the Aspera on Cloud platform:

Field	Description
<b>Account name</b>	A name for the account. This name is used only by Drive.
<b>Server address</b>	The URL for the server that is running Aspera on Cloud.

Click **Next**.

4. On the **Authentication** screen, with **SAML Authentication** selected, click **Next**.
5. Enter your Aspera on Cloud credentials:

Field	Description
<b>Username</b>	The username that you have on Aspera on Cloud.
<b>Password</b>	The password that you have on Aspera on Cloud.

6. If your Aspera on Cloud platform is configured for synchronization, either
  - Set up syncing. To do so, either accept the default directory shown for **Place my files in**, or click **Change** to browse for a different folder (or create a new one).
  - or
  - Click **I'd rather not set up file syncing now**.
7. If you opted to set up syncing on the previous screen, the **Account Wizard** prompts you to choose folders to sync. You can either
  - Select **Synchronize with the selected remote folders** and then select the folders on Aspera on Cloud to sync. Click the arrows to expand or collapse the folder view, and select the check boxes for the folders you want to sync. Choose the sync direction:
    - **Two-Way**
    - **Remote to Local** (default)
    - **Local to Remote**
  - or
  - Select **I'll choose the folders to sync later**.

## 8. Set up package downloading:

- Choose **Automatically download my packages to** and enter or browse to a location where you'd like to store your downloaded packages.
- or
- Choose **I'd rather not set up automatic downloading now**. You can change this setting later if you wish.

## 9. If you opted to set up package downloading in the previous step, now select a timeframe:

- Choose to download packages from a date in the past.

Select **Download my packages from date sent** and choose an option from the drop-down:

- **Yesterday** (default)
- **A week ago**
- **A month ago**
- **The beginning of time**

or

- Choose to download packages from now on.

## 10. Set up how you will check for new packages:

- Choose **Check for new packages** and select an automated time interval from the drop-down list.

or

- Choose to check for packages manually.

## 11. Click **Finish** to complete your Aspera on Cloud account setup.

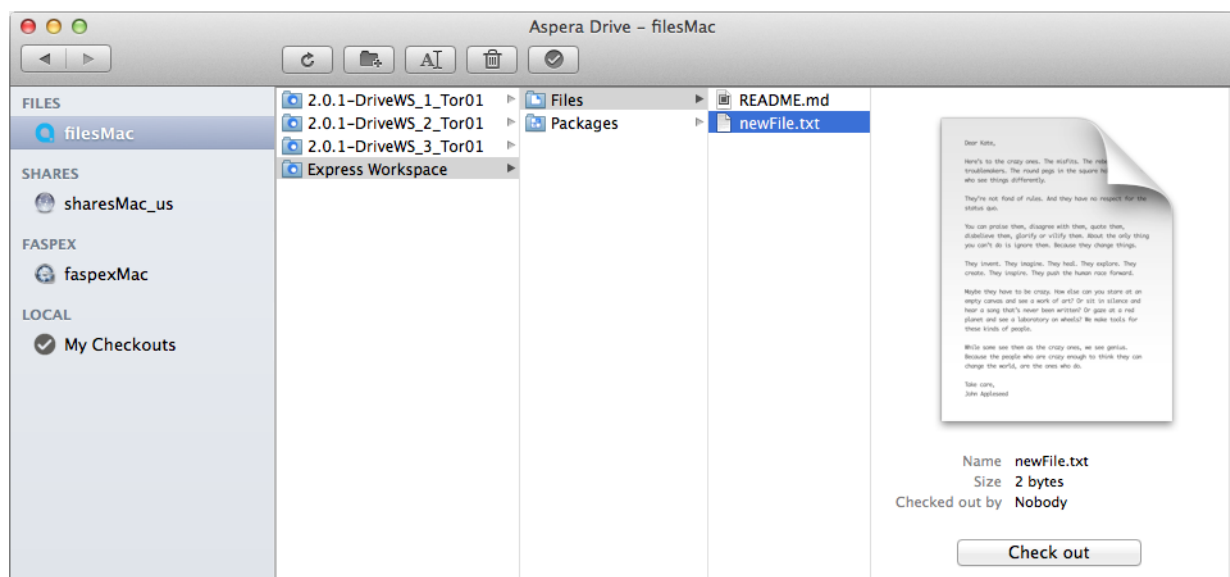
## Checkin/Checkout of Aspera on Cloud Content

You can use Drive to collaborate across your team, with clear "ownership" while a user is editing a document. With the checkin/checkout feature, users check out a copy of a file, make local changes, and then check in the edited file. While the first user has the file checked out, other users can view but not modify the master copy.

**Note:** The checkin/checkout feature is available in Drive if it has been enabled in Aspera on Cloud at the *organization* level.

### Understanding the Remote View

Drive's checkin/checkout feature takes place in a window called *Remote View*:



Drive's Remote View lets you see the contents of a Aspera on Cloud workspace, outside of the Aspera on Cloud interface.

### Remote View Versus Finder

In appearance, Drive's Remote View closely resembles Finder, the Mac OS X file browser. The most crucial difference is that Drive checkin/checkout functions are performed in Remote View. In Finder, you can see the current contents of a Aspera on Cloud location, but not the checkin/checkout status of those contents.


### Basic Checkin/Checkout Workflow

With Drive running, do the following:

1. Open Remote View:
  - a. In the menu bar at the top of your screen, click the Drive icon.
  - b. Select **Aspera Drive** > *AsperaOnCloudAccountName*.
2. In Remote View, navigate through your workspace to the file you want to work on, and select it.
3. Click **Check out**.

When you do this, Drive downloads a copy of the file to your local computer and places a lock on it, so that others can't edit it until you check it back in.

The file opens in the default application for that file type.


4. Edit the file and save your changes.
5. Back in Remote View, click **My Checkouts** in the lefthand pane, and check it in. There are several ways to do this:
  - Select the file and click **Check in**.
  - Select the file and click  > **Check in**.
  - Right-click the file and select **Check in**.

When you do this, Drive uploads your edited copy to the Aspera on Cloud workspace and releases the lock. Now others can see or check out the version with your changes.

### Checking In a New File

To check in content that is not yet stored in Aspera on Cloud, the process is almost the same as for existing content in Aspera on Cloud.

With Drive running, do the following:

1. Create the file and save it.
2. In the **Save** dialog, give your new file a filename and browse to the desired location in Aspera on Cloud.
3. In Remote View, click **My Checkouts** in the lefthand pane, and check it in. There are several ways to do this:
  - Select the file and click **Check in**.
  - Select the file and click  > **Check in**.
  - Right-click the file and select **Check in**.

### Reverting a Checkout

Once you have checked out a file, you might need to release the lock you hold on it — for example, so that another team member can edit it. Reverting a checkout removes the file lock and deletes your local copy.

**Note:** If you revert a checkout on a file you have edited, *you lose the changes you have made to the file*. In the Aspera on Cloud workspace, Drive restores the version of the file that you checked out.

To revert a checkout, do the following:

1. Go to **My Checkouts**.



2. Right-click the checked-out file and select **Revert**.

Drive alerts you that reverting will discard any changes you have made to the file.

3. Click **Revert** to finish.

## Checkout Versus Open

*Opening* a file through Drive and *checking it out* look very similar in behavior: in both cases, Drive downloads a local copy to your computer and opens it in the default application. But with checkout, Drive also places a lock on the file so that other users cannot edit it.

If you double-click a file, this opens it but does not check it out. Take care to note the difference in your collaboration workflow.

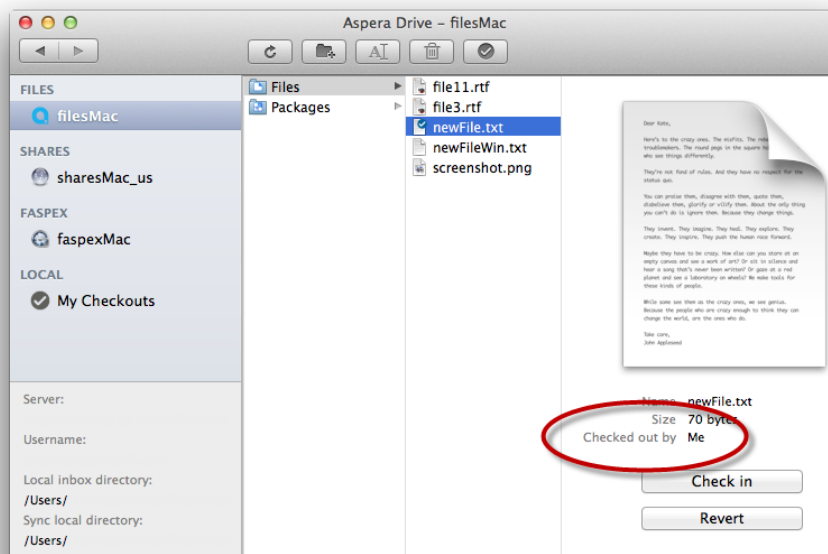
## Viewing File Locks

You can use Drive to see who has a particular file checked out from the Aspera on Cloud repository.

Do the following:

1. In Remote View, navigate through Aspera on Cloud to the location of the content you want information about.
2. Select it.

The entry in Remote View shows you which user has checked out the file.



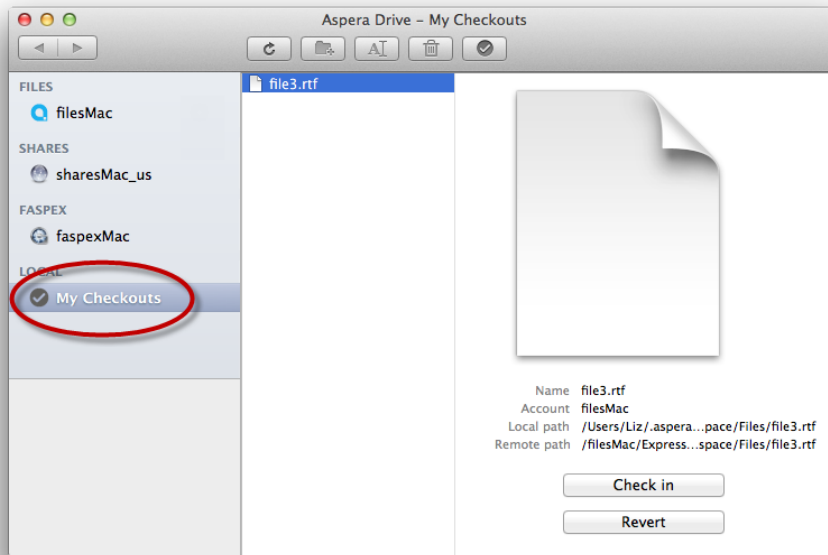
## My Checkouts

In the course of your work, it may be easy to lose track of your checkouts, especially if

- You check out a large number of files.
- Your checked-out content comes from several different locations in Aspera on Cloud.
- Some time passes between checking out a file and checking it in.

The most convenient way to keep track of your checked-out content is to use the **My Checkouts** area of Drive's Remote View.

To see all of your current checkouts, click **My Checkouts**.



### Moving, Renaming, and Deleting Checked-Out Content

You cannot move, rename, or delete a file or its parent folder while you (or any other user) has it checked out. This limitation prevents misalignments in the master repository in Aspera on Cloud.

Instead, you can

1. Check the content back in (or revert your checkout).
2. Move, rename, or delete the content in Aspera on Cloud, once the file lock has been released. (That is, once the content is not checked out by you or another user.)

### Full Paths in My Checkouts

For convenience, the **My Checkouts** area uses a flat structure (a simple list) to show the content you have checked out.

But you can also see the full path to the content's location in Aspera on Cloud through the **Local path** and **Remote path** metadata in Remote View.

## Troubleshooting the Checkin/Checkout Process

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### How do I find my checked-out content?

To see all of your current checkouts, click **My Checkouts**.

For more information, see [My Checkouts](#) on page 9.

### How do I open a file someone else has checked out?

If another user has checked out a file, you can *open* it; but keep in mind that the copy you are viewing is local only, and any changes you make to it cannot be committed to the Aspera on Cloud repository.

See [Checkout Versus Open](#) on page 9.

**How do I see who has checked out a file I need?**

In Remote View, navigate through Aspera on Cloud to the content you want information about.

See [Viewing File Locks](#) on page 9.

**I can't find the My Checkouts area.**

Verify that you are using Remote View rather than Finder.

Finder and Remote View are visually quite similar, but you cannot use Drive checkin/checkout functions within Finder. If your window lacks a **My Checkouts** entry in its leftmost pane, it is most likely a Finder window.

To open Remote View,

1. Go to the menu bar at the top of your screen and click the Drive icon.
2. Select **Aspera Drive** > *AsperaOnCloudAccountName*.

The window that appears is Drive's Remote View.

For further information, see [Understanding the Remote View](#) on page 7.

**How do I know where my checkin will go in Aspera on Cloud?**

When you check content back in, it returns to the Aspera on Cloud location where you checked it out from.

Also see [Full Paths in My Checkouts](#) on page 10.

**I've reverted a checkout, but the file still appears in My Checkouts.**

If you check out a file from one computer, then release the file lock (that is, revert the checkout) from a different computer, the file still appears in the **My Checkouts** area on the computer where you checked it out.

The file in **My Checkouts** is a *local copy* of the file, on the computer where you checked it out. Drive retains this copy because you might have made changes to it that you need to retain. To remove it from the **My Checkouts** area, right-click it and select **Revert**.

**Can I check out a file while I'm working in an application?**

If you're working in an application (for example, TextEdit, Photoshop, or any other common application), you can use the application's own **File** menu to open files that are shared with you through Drive. But when you open a file in this way, it is a *read-only local copy*.

To check out the file, use Drive's Remote View. See [Understanding the Remote View](#) on page 7

## Working with IBM Aspera Faspex

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### Managing Drive Accounts for Faspex

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An *account* in Drive allows you to use the browsing and transfer features between your client computer and the Faspex transfer server. Managing accounts involves adding, modifying, and deleting accounts.

Before you can set up and manage accounts, you must obtain the credentials for your Faspex user account from your system administrator. You will use these credentials to connect to the transfer server.



## Adding a Drive Account for Faspex

Use Drive's account setup wizard to configure a new package transfer account. Have the following information available before configuring an account:

- The address of the server where Faspex is installed and running.
- The username and password that you have on the Faspex server.

The steps below assume that you have Drive installed and running.

To add a Faspex account to Drive, do the following:

1. In the menu bar, click the Drive icon  and select **Preferences > Accounts**.
2. Click  to add a transfer account.  
The **Account Wizard** opens.
3. Fill in the fields with the following information about the Faspex transfer server:

Field	Description
<b>Account name</b>	A name for the account. The name is used only by Drive.
<b>Server address</b>	The URL for the server that is running Faspex.

Click **Next**.

4. Enter your credentials on the transfer server:

Field	Description
<b>Username</b>	The username that you have on the Faspex server.
<b>Password</b>	The password that you have on the Faspex server.

Drive then validates the connection.

5. If you are prompted to confirm the server's security certificate, indicate whether you trust the server.
6. Set up package downloading:
  - Choose **Automatically download my packages to** and enter or browse to a location where you'd like to store your downloaded Faspex packages.
  - or
  - Choose **I'd rather not set up automatic downloading now**. You can change this setting later if you wish.
7. If you opted to set up package downloading in the previous step, now select a timeframe:
  - Choose to download packages from a date in the past.

Select **Download my packages from date sent** and choose an option from the drop-down:

- **Yesterday** (default)
- **A week ago**
- **A month ago**
- **The beginning of time**

or

- Choose to download packages from now on.

Click **Next**.

8. Set up how you will check for new packages:


- Choose **Check for new packages** and select an automated time interval from the drop-down list.
  - or
  - Choose to check for packages manually.
9. Click **Finish** to complete creating the package transfer account.

## Modifying a Drive Account for Faspex

You can modify the following aspects of a package transfer account:

- The local destination directory for downloading received packages.
- How often Drive should look for new packages.
- Whether to overwrite packages that have the same title.
- Whether to automatically decrypt downloaded packages.

The steps below assume that you have Drive installed and running, and that you have created at least one Drive account that you want to modify.

1. In the menu bar, click the Drive icon  and select **Preferences > Accounts**.
2. On the left side of the dialog, select the transfer server account you want to modify.
3. Under **Account**, you can change the connection settings for the account:

Field	Description
<b>Account name</b>	The name of the account. The name is used only by Drive.
<b>Server address</b>	The URL for the server, and the port number (if applicable).
<b>Username</b>	The username that you have on the transfer server.
<b>Password</b>	The password that you have on the transfer server.
<b>Do not verify host's SSL certificate</b>	If selected, Drive will bypass the validation of your server's SSL certificate. Select this option if your server's certificate is not valid, but you trust the server.

4. On the **Services** pane, click **Packages: Settings**. The **Packages** dialog appears.
5. Modify the fields as needed:

Field	Description
<b>Download received packages to</b>	Specify the folder where downloaded packages will be saved. You can download packages to the default folder: <code>/Users/macUsername/Documents/driveAccountName</code> , or you can click <b>Change</b> to provide a different folder name.
<b>Overwrite packages that have the same title</b>	When a received package has the same title as an existing package, Drive can either reuse the same folder (overwriting the existing package), or create a new folder for the received package.  If you select this check box, packages with the same name as an already existing downloaded package will be downloaded into the existing folder. If a file being downloaded has the same name as an existing file, that file from the older package is overwritten.  If you do not select this check box, Drive will create a new folder for the new package, so that the existing one is not overwritten.

Field	Description
	<p>For example, if you have already downloaded a package with a title of <b>My_Files</b>, and then download another package with the same title, the files will be placed in <b>My_Files(2)</b>.</p> <p>If you select this check box, Drive will place the new package into the existing <b>My_Files</b> folder instead of creating a new <b>My_Files(2)</b> folder. If <b>My_Files</b> already contains a file with the same filename, the existing file will be overwritten.</p> <p>By default, this check box is not selected.</p>
<b>Do not download packages sent by me</b>	<p>If this field is selected, packages that you send to yourself or to work groups that you belong to are not downloaded. (By default, it is selected.)</p> <p>If this field is not selected, packages that you send to yourself or to work groups that you belong to are downloaded.</p>
<b>Packages are downloaded from</b> <b>Note:</b> This field is not configurable.	<p>Displays the date since which Drive will search for packages to download.</p> <p>For example, if this field displays <b>05/06/2014</b>, Drive downloads any packages that have arrived since May 6, 2014.</p>
<b>Check for new packages</b>	Select the interval in which to check for newly arrived packages.
<b>Automatically unlock encrypted files on download</b>	If you have configured encryption for your packages, you can set Drive to automatically decrypt them when they are downloaded. To do so, select this checkbox and enter the decryption passphrase in the <b>Passphrase</b> field.

- Click **OK** to apply and save your settings, or click **Cancel** to cancel your selections.

## Package Transfer: Overview


IBM Aspera Faspex is a file-exchange application. With a Web-based GUI, Faspex offers advanced management options for *fasp* high-speed data transfer to match your organization's workflow.

When working with Faspex, you can perform the following tasks:

- Send packages.
- Receive packages.

Before you can send and receive packages using Drive, you must obtain the credentials for a user account from your system administrator. You will use these credentials to connect to Faspex.

## Sending Faspex Packages with Drive

- Open the **Send Files** dialog by doing one of the following:
  - In the menu bar, click the Drive icon  and select **Send To**.
  - In the Finder, right-click an item and select **Send with Aspera Drive** (or **Services > Send with Aspera Drive**, depending on your Mac configuration).
- In the **Send Files** dialog, enter the following:

Field or Button	Description
<b>Account</b>	The account you will use to send the package from (required).
<b>Email or Group</b>	The recipient of the package (required).


Field or Button	Description
<b>Title</b>	A short, relevant title for the package (required).
<b>Notes</b>	A short message to the recipient of this package.
<b>Files</b>	A list of the files and folders in the package that will be sent. To add items to this list, click <b>Add files</b> or drag and drop from the Finder into the <b>Send Files</b> dialog.
<b>Encrypt sent files</b>	Select this check box if you want to encrypt files before sending them. When you select <b>Encrypt sent files</b> and click <b>Send Package</b> , you are prompted to enter and confirm a passphrase.  When you send encrypted packages, you must provide the recipients with the encryption passphrases so that they can decrypt packages after they receive them.
<b>Add files</b>	Click <b>Add files</b> to add a file or files to the package for transfer. You can also drag and drop files from Finder into this dialog.
<b>Add folder</b>	Click <b>Add folder</b> to add a folder to the package for transfer. You can also drag and drop folders from Finder into this dialog.
<b>Remove</b>	To remove an item from the package to be sent, select it in the <b>Files</b> list and click <b>Remove</b> .





3. Click **Send** to send the package.

The Drive **Activity** window's **Transfers** pane opens to display the progress of the transfer.

## Receiving Faspex Packages with Drive

- **Getting More Information About a Transferred Package**

- a) In the menu bar, click the Drive icon  and select **Activity**.
- b) Click **Transfers** to view a list of the recent packages that you have sent or downloaded.
- c) With the buttons in the **Transfers** pane, you can perform the following additional tasks:

	Opens the <b>Transfer Monitor</b> for more in-progress detail about the transfer. In the <b>Transfer Monitor</b> , you can adjust the transfer rate (if settings allow).
	Opens a Finder window to the transfer destination folder (the "containing folder").
	Stops an in-progress transfer.
	Resumes a stopped or suspended transfer.

In addition to those actions, you can also right-click a package and select **Remove** to remove it from the list.

- **Clearing a Transfer**



If a transfer is not currently queued or running, you can remove it from the list:

On the **Transfers** pane, right-click a transfer in the list and select **Remove**.

- **Looking for New Packages**

If you have configured Drive to look for new packages at a certain interval, click the **Inbox** pane to see when Drive will next check for newly arrived packages.

You can also do the following:

- To stop checking for packages, click .
- To resume automatic checking for packages, click .
- To check for packages immediately, right-click an inbox and select **Check Now**.
- **Decrypting Received Packages**  
If you receive an encrypted package, see [Decrypting Packages](#) on page 19.

## Working with IBM Aspera Shares

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### Managing Drive Accounts for Shares

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An *account* in Drive allows you to use the browsing and transfer features between your client computer and the Shares transfer server. Managing accounts involves adding, modifying, and deleting accounts.

Before you can set up and manage accounts, you must obtain the credentials for your Shares user account from your system administrator. You will use these credentials to connect to the transfer server.

### Adding a Drive Account for Shares



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To set up a transfer account, make sure you have the following information from the system administrator who manages your Shares transfer server:

- A URL for the Shares transfer server, including a port and path (if applicable).
- A username and password that was set up on your Shares transfer server.

The steps below assume that you have Drive installed and running.

To add a Shares account to Drive, do the following:

1. In the menu bar, click the Drive icon  and select **Preferences > Accounts**.
2. Click  to add a transfer account.  
The **Account Wizard** opens.
3. Fill in the fields with the following information about the Shares transfer server:

Field	Description
<b>Account name</b>	A name for the account. The name is used only by Drive.
<b>Server address</b>	The URL for the server that is running Shares.

4. If you are prompted to confirm the server's security certificate, indicate whether you trust the server.
5. Set your Shares server's authentication method:
  - SAML Authentication  
If you choose **SAML Authentication**, log in to the Shares server with this user's SAML credentials.  
or
  - Basic Authentication  
If you choose **Basic Authentication**, enter the username and password for this user on the Shares server.
6. If the transfer server supports synchronization, either




- Set up syncing. To do so, either accept the default directory shown for **Place my files in**, or click **Change** to browse for a different folder (or create a new one).
  - or
  - Click **I'd rather not set up file syncing now**.
7. If you opted to set up syncing on the previous screen, the **Account Wizard** prompts you to choose folders to sync. You can either
- Select **Synchronize with the selected remote folders** and then select the folders on the server to sync. Click the arrows to expand or collapse the folder view, and select the check boxes for the folders you want to sync. Choose the sync direction:
    - **Two-Way**
    - **Remote to Local** (default)
    - **Local to Remote**
  - or
  - Select **I'll choose the folders to sync later**.
8. When the screen displays a success message, click **Finish** to exit the **Account Wizard**.

## Modifying a Drive Account for Shares

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The steps below assume that you have Drive installed and running, and that you have created at least one Drive account that you want to modify.

To modify a transfer account, do the following:

1. In the menu bar, click the Drive icon  and select **Preferences > Accounts**.
2. On the left side of the dialog, select the transfer server account you want to modify.
3. Under **Account**, you can change the connection settings for the account:

Field	Description
<b>Account name</b>	The name of the account. The name is used only by Drive.
<b>Server address</b>	The URL for the server, and the port number (if applicable).
<b>Username</b>	The username that you have on the transfer server.
<b>Password</b>	The password that you have on the transfer server.
<b>Do not verify host's SSL certificate</b>	If selected, Drive will bypass the validation of your server's SSL certificate. Select this option if your server's certificate is not valid, but you trust the server.

4. Back in the **Preferences** dialog, click **Save** to put into effect any changes you have made.

## Content Transfer: Overview

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With a file-transfer account on Drive, you can transfer files and folders between your computer and the server using drag-and-drop in a Finder-like interface. You can also create, rename, and delete files and folders, and browse the file system.


Before you can transfer files using Drive, you must obtain the credentials for a user account from your system administrator. You will use these credentials to connect to the accounts server.

**Note:** In order for Drive to run transfers, a Connect Server license is required on the node.

## Transferring Content

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Drive is accessible through a Finder-like interface. You can use standard Finder functions for moving and copying files between the server and your local computer.





1. To access the transfer server, click the Drive icon  in the menu bar, and select **Aspera Drive > accountName**.
2. Use standard Finder functions for browsing through files and folders of each account, transferring files to and from your transfer account, or creating new folders.

**Note:** Depending on your account's permissions on the file transfer server, you might encounter limitations on the following actions on the transfer server:

- browsing
  - transfers
  - file operations
  - context menu options
3. Verify the status of your transfer:  
If it is not already open, open the Drive **Activity** window. On the **Transfers** pane, in the list of transferred files and folders, view the status of your transfer.

You can see its status during a transfer, or after it has completed.

The buttons on the **Activity** window's **Transfers** pane have the following meanings:

	Opens the <b>Transfer Monitor</b> for more in-progress detail about the transfer. In the <b>Transfer Monitor</b> , you can adjust the transfer rate (if allowed).
	Opens a Finder window to the transfer destination folder (the <i>containing folder</i> ).
	Stops an in-progress transfer.
	Resumes a stopped or suspended transfer.

**Note:** If a transfer is reported as complete but the file or folder does not appear in the Drive window, refresh the window.

## Synchronization

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### Sync Capability: Overview

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With Drive transfer accounts for Aspera on Cloud or Aspera Shares, you can set up Drive to sync folders automatically on your client computer and the server whenever the folder's content changes in either location. Content changes include

- modification of file contents
- changes in file and folder names
- creation and deletion of files and folders

Before you can sync files and folders using Drive, you must obtain the credentials for a user account from your system administrator. You will use these credentials to connect to the transfer server.

## Syncing Content

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### Monitoring Sync Status

You can monitor the status of a sync operation on the **Activity Window > Sync** tab.

A progress bar shows in-progress synchronizations, and a countdown timer shows when the next synchronization will take place.

### Stopping and Starting Sync

You can stop and resume file syncing with these buttons on the **Activity Window > Sync** tab:

	Stops an in-progress synchronization.
	Resumes a stopped synchronization.

### Resolving Sync Conflicts

A sync conflict occurs when the file on one side does not match the file on the other side. Files and folders may not be synchronized for reasons such as insufficient permissions for the destination folder on the local computer.

If a file or folder cannot be synchronized, a conflict warning appears on the **Activity Window > Sync** tab.

To resolve the conflict, do the following:

1. Click the red **conflict** link.
2. In the dialog that appears, select the file or folder that is in a conflict state.
3. Click **Resolve Selected Conflicts**.

Drive renames the content on the local file system, appending the phrase **conflict-mine**. For example, the file **log.txt** is renamed as **log.conflict-mine.txt**.

## Working with Aspera Encrypted Files

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### Decrypting Packages


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Encrypting a file protects it from unwanted access. When an encrypted file arrives after transfer, you must decrypt it before you can use it.

**Note:** Decrypting files requires a *passphrase* — a sequence of text that the sender of the package used to encrypt the package. Before decrypting files, ensure that you have the necessary passphrase.

IBM Aspera Crypt works with Drive to decrypt downloaded files.

To decrypt files you have downloaded, do the following:

1. Go to **Activity > Transfers** and select the encrypted package you want to decrypt.
2. While Drive is running, click the Drive icon  in the menu bar, and select **Unlock Encrypted Files**.

The **Aspera Crypt** dialog appears.

3. Select a package or browse to the encrypted content.

When the encrypted content is loaded into Crypt, a status message appears at the bottom of the application, displaying the number of items ready for decryption.

4. Type the passphrase into the field and click **Decrypt**.

You can also choose to decrypt the content later.

5. View the output in the **Aspera Crypt** viewing window.

The decrypted contents appear in the same directory as the original encrypted contents.

If the decrypted file (without the **.aspera-encv** extension) already exists in the same folder, “*(decrypted)*” is added to the filename.

If your **Aspera Crypt** viewing window has multiple decrypted items listed, you can use the **View** drop-down list to sort the items by **latest**, **finished**, or **failed**.

### Automatic Decryption

As an alternative to the manual process above, you can set Drive to automatically decrypt the packages that it downloads.

Choose one of the following ways to set up automatic decryption:

- When you create the Drive account for Faspex or Aspera on Cloud, select the option to **Automatically unlock encrypted files on download**.
- Modify an existing account to enable this option. For instructions, see [Modifying a Drive Account for Faspex](#) on page 13.

## Configuring Your Decryption Settings

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You can adjust the settings that are used when packages are decrypted. In the Crypt window, do the following:

1. Click **Settings**.

2. Configure the following:

- **Delete encrypted files when finished**

When this check box is selected, Crypt removes the encrypted files from your system after the destination (decrypted) content has been created.

- **Number of concurrent threads for decryption**

Select the number of threads that are decrypting at any given time. A higher setting means that files will be decrypted more quickly, but this may slow down the rest of your computer while it is running. The options are **1** (default), **2**, **4** and **8**.

## Drive Preferences

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### Setting Your Preferences in Drive

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Through the **Preferences** dialog, you can set your preferences for the following areas:

- general settings
- accounts
- transfers
- network
- bandwidth

To set your preferences, open the **Preferences** dialog:

With Drive running, click its icon  in the menu bar, and select **Preferences**.

## General Preferences

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You can set the following preferences at **Preferences > General**:

Field	Description
<b>Remove transfer list items</b>	Select whether to remove the entry automatically from the transfer view after it has completed, or to manually remove items.  <b>Manually</b> is selected by default.
<b>Logging level</b>	Choose the level of information to be recorded in the Drive logs. Options are: <ul style="list-style-type: none"> <li>• <b>Info</b></li> <li>• <b>Debug</b></li> <li>• <b>Trace</b></li> </ul> <p><b>Note:</b> Do not change this setting unless Aspera Technical Support asks you to do so.</p>

## Account Preferences

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Select **Preferences > Accounts** to create, configure, modify, and remove accounts.

### Adding an Account


- For instructions on adding Drive accounts for use with a Shares transfer server, see [Adding a Drive Account for Shares](#) on page 16.
- For instructions on adding Drive accounts for use with a Faspex transfer server, see [Adding a Drive Account for Faspex](#) on page 12.
- For instructions on adding Drive accounts for use with cloud storage, see [Adding a Drive Account for Cloud Storage](#).

### Modifying an Account

- For Shares, see [Modifying a Drive Account for Shares](#) on page 17.
- For Faspex, see [Modifying a Drive Account for Faspex](#) on page 13.
- For cloud accounts, see [Modifying a Drive Account for Cloud Storage](#).

### Removing an Account

To remove an account and manage the account's files after removal, do the following:

1. In the list of accounts, select an account to be removed.
2. Click  to remove the account.

When you remove an account, all account transfers and services associated with that account are stopped and removed.

3. Click **Yes** to confirm the account removal, or click **No** to cancel the account removal.

### Configuring Sync Settings

For Drive accounts that are set up with Aspera on Cloud or Shares as the transfer server, you can configure synchronization settings, such as which remote folders to sync with, and the direction of the synchronization relationship.

For instructions on using synchronization features, see [Syncing Content](#) on page 19.

## Configuring Faspex Account Settings

For Drive accounts that are set up with Faspex as the transfer server, you can configure the following:

- The local directory for received packages.
- Whether to overwrite packages.
- How often Drive should look for new packages.

For instructions, see [Modifying a Drive Account for Faspex](#) on page 13.

If you make any changes on the **Accounts** pane, click either **Revert** to undo them, or **Save** to put them into effect.

## Transfer Preferences

Select **Preferences > Transfers** to set your transfer preferences.

1. Configure settings in the **Queue** area of the **Transfers** pane:

Field	Description	Default Setting
<b>Enable queuing</b>	When this check box is selected, Drive limits the number of concurrent transfers.  <b>Note:</b> When transfers are queued, you can start them manually from the <b>Activity &gt; Transfers</b> window.	Selected
<b>Maximum concurrent transfers</b>	If <b>Enable queuing</b> is selected, you can enter a maximum number of concurrent transfers in this field.  Any transfers above this value are queued and then started once the number of concurrent transfers drops below the specified value.  When queuing is not enabled, this field is not available.	3

2. Configure settings in the **Retry** area of the **Transfers** pane:

Field	Description	Default Setting
<b>Automatically retry failed transfers</b>	When this check box is selected, Drive retries failed transfers.  If you want Drive to retry failed transfers, specify the number of attempts and the interval in which Drive will try to resend in seconds, minutes, or hours.	Selected
<b>Attempts</b>	When <b>Automatically retry failed transfers</b> is selected, Drive will make the number of retry attempts that you specify in this field.	3
<b>Interval</b>	When <b>Automatically retry failed transfers</b> is selected, Drive will retry transfers at the interval you specify in this field.	30 seconds

3. Configure settings in the **Sync** area of the **Transfers** pane:

Field	Description	Default Setting
<b>Interval</b>	If the sync feature is enabled, specify the interval between synchronizations.	30 seconds

4. Close the **Preferences** dialog. Drive saves your settings.

## Network Preferences

Select **Preferences > Network** to set your network preferences.

1. In the **HTTP Proxy** area, set the following preferences:

Field	Description
<b>Use HTTP Proxy</b>	If this check box is selected, Drive uses an HTTP proxy to connect to the Internet.
<ul style="list-style-type: none"> <li>• <b>Username</b></li> <li>• <b>Password</b></li> <li>• <b>Address and Port</b></li> </ul>	<p>Use these fields to define your HTTP proxy configuration. Type the following information:</p> <ul style="list-style-type: none"> <li>• your username</li> <li>• your password</li> <li>• your server's URL or IP address, and port number</li> </ul> <p><b>Note:</b> For some proxies, username and password are optional.</p>

2. If you will use a FASP proxy for your transfers, set the following preferences in the dialog's **FASP Proxy** area:

Field	Description
<b>Use FASP Proxy (DNAT)</b>	If your transfers will use an IBM Aspera FASP Proxy server, select this check box.
<b>Secure (DNATS)</b>	Select this check box if your FASP Proxy uses a secure connection.
<ul style="list-style-type: none"> <li>• <b>Username</b></li> <li>• <b>Password</b></li> <li>• <b>Address and Port</b></li> </ul>	<p>Use these fields to define your FASP Proxy configuration. Type the following information:</p> <ul style="list-style-type: none"> <li>• your server username</li> <li>• your server password</li> <li>• your server's URL or IP address, and port number</li> </ul> <p><b>Note:</b> These fields are enabled only if <b>Use FASP Proxy (DNAT)</b> is selected.</p>

## Bandwidth Preferences

Transfer speeds depend on server settings and your network connectivity. To limit transfer rates, go to **Preferences > Bandwidth**.

### Manual Versus Automatic Transfers

The limits you set on the **Bandwidth** tab can be different for transfers that are initiated *manually* versus those that are *automatically* triggered. Automatic transfers can include sync-initiated transfers, script-initiated transfers, or any other kind of background method of starting a Drive transfer.

### Settings

Area	Field Name	Description
<b>Manual Transfers</b>	<b>Limit downloads to</b>	When the <b>Limit to</b> check box is selected, you can set the download rate in either megabits per second (Mbps) or kilobits per second (Kbps).

Area	Field Name	Description
		The limit you set here will apply to downloads that users initiate manually.
	<b>Limit uploads to</b>	<p>When the <b>Limit to</b> check box is selected, you can set the upload rate in either megabits per second (Mbps) or kilobits per second (Kbps).</p> <p>The limit you set here will apply to uploads that users initiate manually.</p>
<b>Automatic Transfers</b>	<b>Limit background downloads to</b>	<p>When the <b>Limit to</b> check box is selected, you can set the download rate in either megabits per second (Mbps) or kilobits per second (Kbps).</p> <p>The limit you set here will apply to downloads that are initiated programmatically.</p>
	<b>Limit background uploads to</b>	<p>When the <b>Limit to</b> check box is selected, you can set the upload rate in either megabits per second (Mbps) or kilobits per second (Kbps).</p> <p>The limit you set here will apply to uploads that are initiated programmatically.</p>