

*IBM Aspera Cargo 3.2 User Guide for  
Windows*



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# IBM Aspera Cargo User Guide for Windows

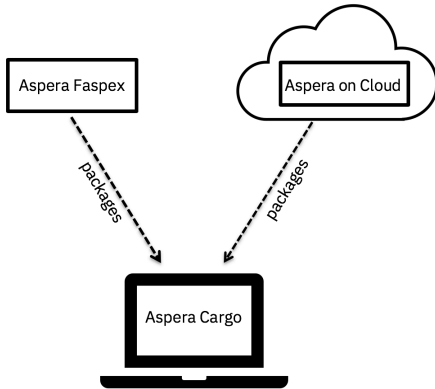
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Welcome to the Cargo documentation, where you can find information about how to install, maintain, and use Cargo.

## Introduction

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IBM Aspera Cargo is a command-line tool that enables users of IBM Aspera on Cloud and IBM Aspera Faspex to automatically check for and download incoming packages.



Cargo adds the following benefits to your Aspera implementation:

Benefit	Feature Description
Automatic download of Aspera packages	Cargo is compatible with Aspera on Cloud and Faspex and can be configured to automatically download received packages. Cargo also supports multiple, concurrent FASP transfers.
Custom download directory	You can download Aspera packages to the directory of your choice.
Easy installation	Cargo is available as a small, installable package.
Decryption of packages	You can use Cargo to decrypt downloaded content, with the IBM Aspera Crypt program.
Lightweight	Cargo is a Windows service that runs using a configuration file.

## Getting Started with Cargo

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### Installing Cargo

#### About this task

Use the Aspera installation program to set up the Cargo service on your computer.

#### Procedure

1. Go to the [Aspera website](#), select the appropriate operating system and version, and click **Direct download**.
2. Run the downloaded **.msi** and proceed through the installer screens:

- a) Accept the license agreement.
  - b) On the **Aspera Service Account** screen, create and confirm a password for the service user.
  - c) Click **Install**.
  - d) When installation is complete, click **Finish**.
3. Edit the Cargo configuration file, then import it.  
For instructions, see [“Configuring Cargo for Aspera on Cloud” on page 2](#) or [“Configuring Cargo for Faspex” on page 5](#).

**Note:** If your environment includes both Aspera on Cloud and Faspex, create a single configuration file that lists the information for both kinds of server.

4. Start the Cargo service.  
For instructions, see [“Starting and Stopping Cargo” on page 8](#).

**Note:** Cargo downloads packages that are received *after* the service has been started.

## Configuring Cargo for Aspera on Cloud

Cargo uses a configuration file to store the account information for your transfer server(s) and settings for the way that packages will be downloaded. Before Cargo can function correctly, you must specify these elements in the **.conf** file.

1. If Cargo is running, stop the service.
2. Find the sample configuration file at the path below.

**C:\Program Files (x86)\Aspera\Aspera Cargo\etc\aac\_jwt.sample.conf**

**Note:** Take care to create a configuration file that is valid JSON. For example, if your path uses backslashes, use `//`.

3. In a text editor, modify the sample configuration file. See the table below for required fields.

**Note:** If your environment includes both Aspera on Cloud and Faspex, create a single configuration file that lists the information for both kinds of server.

4. Save your edited configuration file.

You can change the filename of the sample file. Your new filename must end in **.conf**.

5. Import the file into Cargo.

Run the following as administrator, at the admin command prompt:

```
C:\> cd \Program Files [(x86)]\Aspera\Aspera Cargo\bin\
C:\> cargo -f path-to-config-file
```

6. For security, if you have set the **<password\_cleartext>** or **<passphrase\_cleartext>** fields, delete the configuration file after you have imported it, to avoid leaving the password in unencrypted form.
7. Now start the Cargo service. See [Starting and Stopping Cargo](#).

### Sample Configuration File

A sample configuration file is shown below (and is included in the installation package). Your settings may differ from the examples shown. At a minimum, change the required entries as appropriate to your system, and import the file. See above for instructions.

The text of the **aac\_jwt.sample.conf** file:

```
{
  "conf": {
    "accounts": [
      {
        "authentication_type": "JWT",
        "client_id": "",
        "client_secret": "",
        "host": "https://sample.ibmaspera.com",
```

```

    "name": "Sample AoC",
    "private_key": "/absolute/path/to/private_key",
    "user": "sample@domain.com",
    "packages": {
      "auto_start": true,
      "check_interval_seconds": 900,
      "download_dir": "/path/to/automatically/download/packages/to/",
      "name": "Sample AoC Inbox",
      "passphrase_cleartext": "",
      "passphrase_enabled": false,
      "separate_package_folders": true,
      "skip_owner_packages": false,
      "version": 2,
    }
  },
  "version": 1,
}

```

### Conf File Fields and Values

Field	Required/ Optional	Description	Values
<b>authentication_type</b>	Required.	The authentication type used on this transfer server.	<b>JWT</b>
<b>client_id</b>	Optional. Set this field only if you want to use a custom client ID that you have generated in AoC's Admin app.	The client ID for the AoC organization.	To use the generic, default value, omit this field or leave it empty.
<b>client_secret</b>	Optional. Set this field only if you want to use a custom client secret that you have generated in AoC's Admin app.	The client secret for the AoC organization.	To use the generic, default value, omit this field or leave it empty.
<b>host</b>	Required.	The AoC server hostname or IP address.	
<b>name</b>	Required.	A human-readable name for your AoC server, for differentiation of multiple accounts.	
<b>private_key</b>	Required.	The full path to your SSH private key file.	

Field	Required/ Optional	Description	Values
<b>user</b>	Required.	Your AoC user name (usually an email address).	
<b>packages</b> fields:			
<b>auto_start</b>	Optional.	Sets whether Cargo should automatically start checking for packages when it is launched.	Cargo sets this value to <b>true</b> .
<b>check_interval_seconds</b>	Optional.	The time, in seconds, to elapse between checking for new packages.	Valid values are <b>60, 300, 900, 1800, and 3600</b> . The default value is <b>900</b> .
<b>download_dir</b>	Required.	The absolute path to the directory that will be used to store downloaded packages.	
<b>passphrase_cleartext</b>	Optional; required for automatic package decryption.	The passphrase that Cargo should use for automatic decryption of packages upon download.  If there is a passphrase mismatch, the file is left encrypted, but is downloaded successfully.  For security, the value you enter in the <b>&lt;passphrase_cleartext&gt;</b> field is stored in an encrypted form when you import the configuration file.  <b>Important:</b> If you use the <b>&lt;passphrase_cleartext&gt;</b> field, be sure to delete the configuration file after you have imported it, to avoid leaving the password in unencrypted form.	
<b>passphrase_enabled</b>	Optional.	Set to <b>true</b> if you want Cargo to use a passphrase to decrypt packages.  Set the passphrase itself in the <b>&lt;passphrase_cleartext&gt;</b> field.	The default value is <b>false</b> .
<b>separate_package_folders</b>	Optional.	Set to <b>true</b> if you want packages with the same title to be downloaded to unique folders.	The default value is <b>true</b> .
<b>skip_owner_packages</b>	Optional.	Set to <b>true</b> if Cargo should skip packages that you sent to yourself.	The default value is <b>false</b> .
<b>version</b>	Required.	Cargo-internal data. Do not modify the value in this field.	

## Configuring Cargo for Faspex

Cargo uses a configuration file to store the account information for your transfer server(s) and settings for the way that packages will be downloaded. Before Cargo can function correctly, you must specify these elements in the **.conf** file.

1. If Cargo is running, stop the service.
2. Find the sample configuration file at the path below.

**C:\Program Files (x86)\Aspera\Aspera Cargo\etc\aspex.sample.conf**

**Note:** Take care to create a configuration file that is valid JSON. For example, if your path uses backslashes, use `//`.

3. In a text editor, modify the sample configuration file. See the table below for required fields.

**Note:** If your environment includes both Aspera on Cloud and Faspex, create a single configuration file that lists the information for both kinds of server.

4. Save your edited configuration file.

You can change the filename of the sample file. Your new filename must end in **.conf**.

5. Import the file into Cargo.

Run the following as administrator, at the admin command prompt:

```
C:\> cd \Program Files [(x86)]\Aspera\Aspera Cargo\bin\  
C:\> cargo -f path-to-config-file
```

6. For security, if you have set the **<password\_cleartext>** or **<passphrase\_cleartext>** fields, delete the configuration file after you have imported it, to avoid leaving the password in unencrypted form.

### Sample Configuration File

A sample configuration file is shown below (and is included in the installation package). Your settings may differ from the examples shown. At a minimum, change the required entries as appropriate to your system, and import the file. See above for instructions.

The text of the **aspex.sample.conf** file:

```
{  
  "conf": {  
    "accounts": [  
      {  
        "authentication_type": "BASIC",  
        "host": "https://sample.com",  
        "name": "Sample Faspex",  
        "user": "username",  
        "password_cleartext": "password",  
        "packages": {  
          "auto_start": true,  
          "check_interval_seconds": 900,  
          "download_dir": "/path/to/automatically/download/packages/to/",  
          "name": "Sample Faspex Inbox",  
          "passphrase_cleartext": "",  
          "passphrase_enabled": false,  
          "separate_package_folders": true,  
          "skip_owner_packages": false,  
          "version": 2,  
        }  
      }  
    ],  
    "version": 1,  
  }  
}
```

## Conf File Fields and Values

Field	Required/ Optional	Description	Values
<b>authentication_type</b>	Required	The authentication type used on this transfer server.	<b>BASIC</b>
<b>host</b>	Required	The Faspex server hostname or IP address.	
<b>name</b>	Required	A human-readable name for your Faspex server, for differentiation of multiple accounts.	
<b>user</b>	Required	Your Faspex user name (usually an email address).	
<b>password_cleartext</b>	Required	The password for your Faspex account. For security, the value you enter in the <b>&lt;password_cleartext&gt;</b> field is stored in an encrypted form when you import the configuration file.  <b>Important:</b> If you use the <b>&lt;password_cleartext&gt;</b> field, be sure to delete the configuration file after you have imported it, to avoid leaving the password in unencrypted form.	
<b>packages</b> fields:			
<b>auto_start</b>	Optional	Sets whether Cargo should automatically start checking for packages when it is launched.	Cargo sets this value to <b>true</b> .
<b>check_interval_seconds</b>	Optional	The time, in seconds, to elapse between checking for new packages.	Valid values are <b>60, 300, 900, 1800, and 3600</b> . The default value is <b>900</b> .
<b>download_dir</b>	Required	The absolute path to the directory that will be used to store downloaded packages.	
<b>passphrase_cleartext</b>	Optional; required for automatic package decryption.	The passphrase that Cargo should use for automatic decryption of packages upon download.  If there is a passphrase mismatch, the file is left encrypted, but is downloaded successfully.  For security, the value you enter in the <b>&lt;passphrase_cleartext&gt;</b> field is stored in an encrypted form when you import the configuration file.	



Field	Required/Optional	Description	Values
		<b>Important:</b> If you use the <b>&lt;passphrase_cleartext&gt;</b> field, be sure to delete the configuration file after you have imported it, to avoid leaving the password in unencrypted form.	
<b>passphrase_enabled</b>	Optional	Set to <b>true</b> if you want Cargo to use a passphrase to decrypt packages.  Set the passphrase itself in the <b>&lt;passphrase_cleartext&gt;</b> field.	The default value is <b>false</b> .
<b>separate_package_folders</b>	Optional	Set to <b>true</b> if you want packages with the same title to be downloaded to unique folders.	The default value is <b>true</b> .
<b>skip_owner_packages</b>	Optional	Set to <b>true</b> if Cargo should skip packages that you sent to yourself.	The default value is <b>false</b> .
<b>version</b>	Required	Cargo-internal data. Do not modify the value in this field.	

## Upgrading Cargo

### About this task

**Note:** As of version 3.2.0, Cargo uses a new format for its configuration file. When you upgrade an existing installation, your previous configuration file is migrated automatically to the new format, and your existing accounts are retained. If you want to preserve the old configuration file, make a copy of it before upgrading your installation.

To update your existing Cargo installation, do the following:

### Procedure

1. Go to the [Aspera website](#).
2. Follow the instructions in [Installing Cargo](#) to run the installation program on your desktop.

**Note:** Installing the new version overwrites your existing version of Cargo, and removes your previous configuration file unless you have archived it.

The Cargo service starts automatically.

## Uninstalling Cargo

To uninstall Cargo, go to **Start > Control Panel > Uninstall a program**.

Select **IBM Aspera Cargo**, right-click, and select **Uninstall**.

## Using Cargo

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### Cargo Options

To see Cargo's command-line options, use the following command to display the help file:

```
C:\> cd C:\Program Files (x86)\Aspera\Aspera Cargo\bin
C:\> cargo -h
```

#### Usage

**cargo** [*options*]

```
-h, --help           Display usage
-A, --version        Display version
-f PATH              Load configuration file and exit. Not to be run in
combination with other arguments.
-w PATH              Export the configuration file to a local copy.
-q                  Suppress error dialogs (when processing configuration)
-u                  Uninstall application data.
--protocol           Handle protocol url.
-L LOG-DIR           Logging dir
-m PATH-to-asperacargod.conf  Migrate a Cargo 1.x config file to the current format.

-L-                 Log to console
-D                  Set debug level to DEBUG
-DD                 Set debug level to TRACE
```

### Starting and Stopping Cargo

Before you can start the Cargo Windows service, you must configure all required settings. For details on writing and importing the configuration file and on which settings are required, see [“Configuring Cargo for Aspera on Cloud”](#) on page 2 and [“Configuring Cargo for Faspex”](#) on page 5.

To stop or restart the service, do the following:

1. Go to **Start > Administrative Tools > Services**.
2. In the **Services** list, double-click **Aspera Cargo Service**.  
The **Aspera Cargo Service Properties** dialog opens.
3. Click **Stop** or **Start** to stop or (re)start Cargo.

### The Cargo Log File

Cargo logs data about the transfers it handles. You can use the Cargo log file to view the status of your transfers.

#### Log File Location

The Cargo log file can be found at the following location:

```
C:\Program Files (x86)\Aspera\Aspera Cargo\var\log\
```

#### Log File Size

Cargo creates a rolling log of a maximum of 10 log files, of ~10 MB each.



