

IBM Aspera Cargo User Guide 3.2.0

Windows

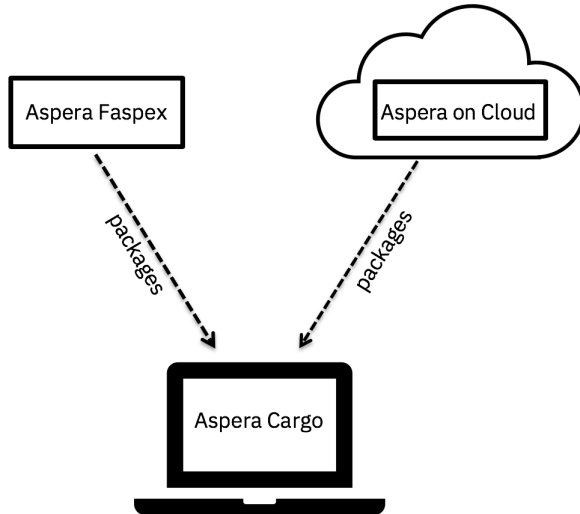
Revision:145 Generated:04/05/2019 07:33

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Introduction

IBM Aspera Cargo is a Windows service that enables IBM Aspera on Cloud and IBM Aspera Faspex users 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

Installing Cargo

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

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](#).
4. Start the Cargo service.
Note: For instructions, see [Starting and Stopping Cargo](#).

Configuring Cargo

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. In a text editor, modify the sample configuration file at the path below.

For Aspera on Cloud: **C:\Program Files (x86)\Aspera\Aspera Cargo\etc\ao_c_jwt.sample.conf**

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

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

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

3. Save your edited configuration file. (You can change the **sample** filename.)
4. Import the file into Cargo.

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

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

5. For security, if you have set the `<password_cleartext>` or `<passphrase_cleartext>` fields, delete the configuration file, to avoid leaving the password in unencrypted form.

Sample configuration files are included below (and is built into 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.

Sample Configuration Files

Below is the text of the **ao_c_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,
}
}

```

Below is the text of the **faspex.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
authentication_type	Required	The authentication type used on this transfer server.	JWT for AoC; BASIC for Faspex.
client_id	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.

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

Field	Required/ Optional	Description	Values
		<p>If there is a passphrase mismatch, the file is left encrypted, but downloads successfully.</p> <p>For security, the value you enter in the <code><passphrase_cleartext></code> field is stored in an encrypted form when you import the configuration file.</p> <p>Important: If you use the <code><passphrase_cleartext></code> field, take care to delete the configuration file after you have imported it, to avoid leaving the password in unencrypted form.</p>	
<code>passphrase_enabled</code>	Optional	<p>Set to true if you want Cargo to use a passphrase to decrypt packages.</p> <p>Set the passphrase itself in the <code><passphrase_cleartext></code> field.</p>	The default value is false .
<code>separate_package_folders</code>	Optional	Set to true if you want packages with the same title to be downloaded to unique folders.	The default value is true .
<code>skip_owner_packages</code>	Optional	Set to true if Cargo should skip packages that you sent to yourself.	The default value is false .
<code>version</code>	Required	Cargo-internal data. Do not modify the value in this field.	

Upgrading Cargo

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. If you want to retain the old configuration file, make a copy of it before upgrading your installation.

To update your existing Cargo installation, do the following:

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

Cargo Options

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

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

Usage

cargo [*options*]

```
-h, --help           Display usage
-A, --version       Display version
-f PATH             Load configuration file
-w PATH             Save configuration file
-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 Load Cargo config into Drive.
-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](#).

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.

Technical Support

Support Websites

For an overview of IBM Aspera Support services, go to <https://asperasoft.com/company/support/>.

To view product announcements, webinars, and knowledgebase articles, as well as access the Aspera Support Community Forum, sign into the IBM Aspera Support site at <https://www.ibm.com/mysupport/> using your IBMid (not your company Aspera credentials), or set up a new account. Search for Aspera and select the product. Click **Follow** to receive notifications when new knowledgebase articles are available.

Personalized Support

You may contact an Aspera support technician 24 hours a day, 7 days a week, through the following methods, with a guaranteed 4-hour response time.

Email	aspera-support@ibm.com
Phone (North America)	+1 (510) 849-2386, option 2
Phone (Europe)	+44 (0) 207-993-6653 option 2
Phone (Singapore)	+81 (0) 3-4578-9357 option 2

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