



Cherry Print

User Guide

4, rue d'Alsace
68250 ROUFFACH, FRANCE

T : +33 3 89 49 67 26
F : +33 3 89 49 53 26

contact@capvision.fr
capvision.fr



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Cherry Print

Cherry Print enables you to print directly to your local printers from Microsoft Dynamics 365 Business Central.

Thanks to multiple connectors, you can simplify your printing flow the way it fits for your company. We currently support the following services:

- **ezeep***: this service connects your local printers to the cloud.
- **PrintNode***: this service connects your local printers to the cloud.
- **Azure Storage***: store your documents to Azure Blob Storage or Azure File Storage. You can archive your documents or let them being handled by another service looking at your storage.
- **E-mails**: send your documents to your printer e-mail address and your document being printed (only for manufacturer that support printing by e-mail).
- **Rest API**: send your documents to an external API.

* extra costs may apply for these services.

Features and benefits using this extension

- Reduce the number of actions required to print
- Speed up your printing flow in your warehouse or production department
- Get control on your printed document with printing logs
- Optimize your paper costs by setting the tray, monochrome or duplex mode per printer

Supported languages:

English, French

Supported editions:

This app supports both Essential and Premium editions of Microsoft Dynamics 365 Business Central.

Supported countries:

All countries are supported

User Guide

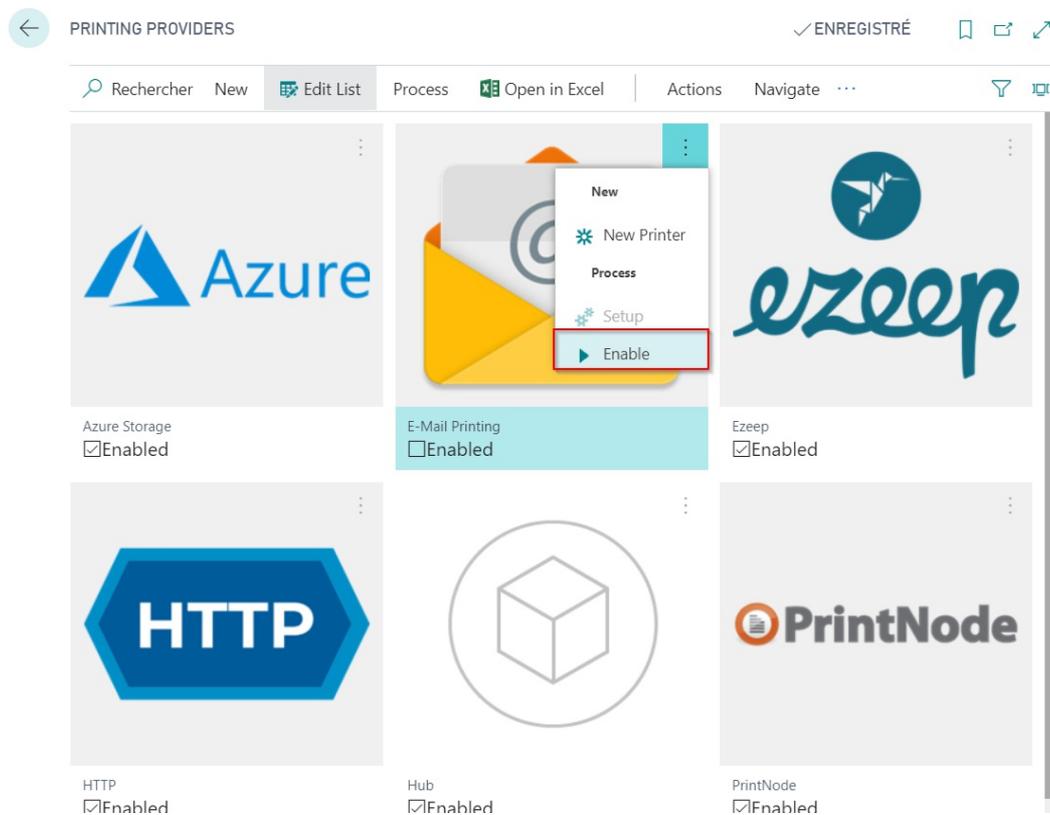
Quick Start

Set up printing providers

Printing providers are services that expose printers to Cherry Print. A printer can be a physical printer or something that will handle the document to print (for instance a Print to E-mail printer).

Printing Providers can be set up this way:

1. Choose  and type **Printing Providers**.
2. Select the provider you want and select **Enabled**.



3. Some providers require some settings. Select **Setup** action to open the configuration page.

Cherry Print embeds the following providers:

- [Azure Storage](#)
- [E-mail](#)
- [ezeep](#)
- [HTTP](#)
- [Hub](#)
- [PrintNode](#)

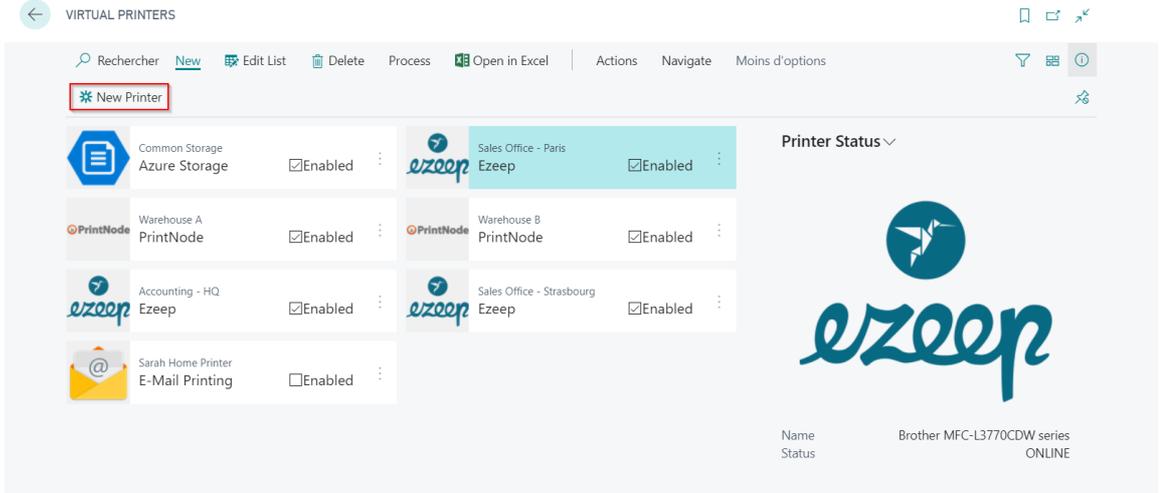
Set up virtual printers

A virtual printer is an instance of a printer exposed by a printing provider.

To create a new virtual printer, follow the steps below:

1. Choose  and type **Virtual Printers**.
2. S e l e c t **New**

Printer action.



The screenshot shows the 'VIRTUAL PRINTERS' management interface. At the top, there's a search bar and a 'New Printer' button highlighted with a red box. Below, a grid of printer cards is displayed, each with a provider icon (like Azure Storage, PrintNode, or Ezeep), a name, and an 'Enabled' checkbox. On the right, a 'Printer Status' panel shows the 'ezeep' logo and the status 'Brother MFC-L3770CDW series ONLINE'.

3. Select the printing provider and then, one of the printers exposed by it.
4. Enter a unique virtual printer name.
5. Choose **OK**.
6. Some printer requires more settings before being ready to be used. If so, select the virtual printer and choose **Setup Printer** action.

You can now use the printer.

Info

You can create several virtual printers for one printer exposed by a printing provider. This way you can have different settings and use the right virtual printer for the right document.

Define the default printer of a report

Please refer to the [Business Central documentation](#).

Advanced features

Logs

Each document you print with Cherry Print is logged. It is useful for usage statistics and connectivity problems with external services.

You can access to a virtual printer logs by following these steps:

1. Choose  and type **Virtual Printers**.
2. Select a printer.
3. Choose **View Logs** action.

Note

Please note that the logs can temporary store your documents (if you enable [background printing](#)). This data is deleted once the job finished (successfully or failing).

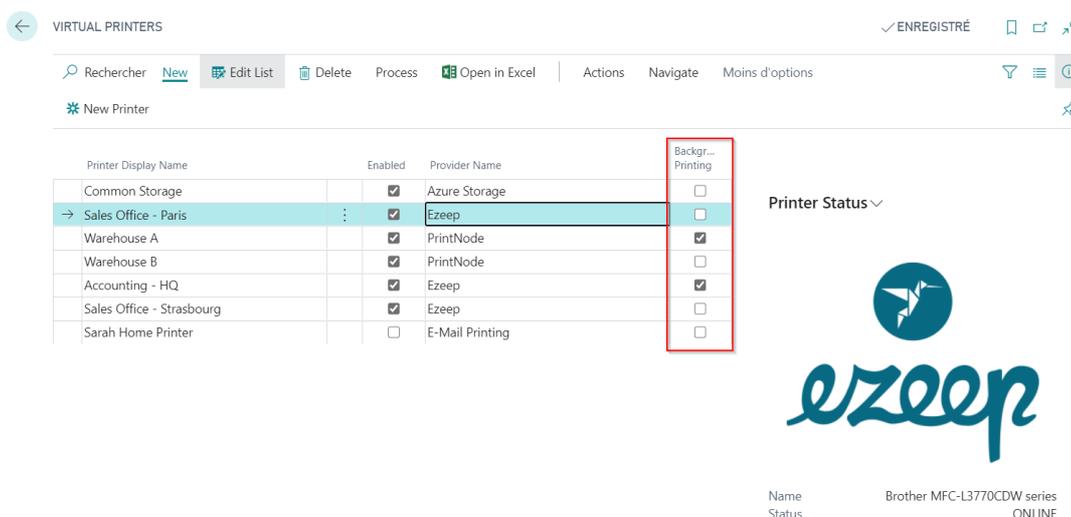
Background printing

Printing can take a while, especially if you are printing large documents or sending them to web services. During this process, the user waits until the document is correctly handled by Cherry Print. Because if, for any reason, the document cannot be printed, Cherry Print lets the document to Business Central. Usually it will be downloaded on the user device and can be printed manually.

If you do not want to wait, Cherry Print can print the document in background. It means the user will be able to work again immediately and the document is printing a moment later (usually few milliseconds to few seconds later).

To enable background printing,

1. Choose  and type **Virtual Printers**.
2. Select a printer and check **Background Printing**.



Printer Display Name	Enabled	Provider Name	Backgr... Printing
Common Storage	<input checked="" type="checkbox"/>	Azure Storage	<input type="checkbox"/>
→ Sales Office - Paris	<input checked="" type="checkbox"/>	Ezeep	<input checked="" type="checkbox"/>
Warehouse A	<input checked="" type="checkbox"/>	PrintNode	<input checked="" type="checkbox"/>
Warehouse B	<input checked="" type="checkbox"/>	PrintNode	<input type="checkbox"/>
Accounting - HQ	<input checked="" type="checkbox"/>	Ezeep	<input checked="" type="checkbox"/>
Sales Office - Strasbourg	<input checked="" type="checkbox"/>	Ezeep	<input type="checkbox"/>
Sarah Home Printer	<input type="checkbox"/>	E-Mail Printing	<input type="checkbox"/>

Printer Status ✓



Name: Brother MFC-L3770CDW series
Status: ONLINE

This setting takes effect immediately.

Using substitution strings

Constants

In several places, Cherry Print printers accept parameters that can contain dynamic content.

String	Description
{"\$extension"}	Document extension. Typically <i>pdf</i> .
{"\$objectname"}	Business Central Object Name that generated the document.
{"\$objectid"}	Business Central Object ID that generated the document.
{"\$companyname"}	The name of the company from which the document has been created.
{"\$invokedby"}	The name of the user that printed the document.
{"\$senderemail"}	The e-mail address of the user that printed the document.
{"\$day"}	Day of the month (on two digits).
{"\$month"}	Month of the year (on two digits).
{"\$year"}	Year (on four digits).
{"\$hours"}	Hours (on two digits between 0-23).
{"\$hours12"}	Hours (on two digits between 0-12).
{"\$minutes"}	Minutes (on four digits between 0-59).
{"\$seconds"}	Minutes (on four digits between 0-59).

String	Description
{"\$ampm"}	AM/PM.
{"\$guid"}	Generates a GUID.
{"\$printername"}	Name of the virtual printer.

For instance, if you have to name an invoice as a file, you can use this filename:

```
{"$year"}-{"$month"}-{"$day"} {"$companyname"} Invoice.{"$extension"}
```

The output will be for instance:

```
2020-05-21 CRONUS Invoice.pdf
```

Contextual record

You can also access data from the first record in the report and use the value as substitution strings. For instance, if you print a sales order, the first record will be from the *Sales Header* table. Then, you can use this syntax to access the customer name:

```
{"Sell-to Customer Name"}
```

To retrieve the name of the shipping agent, type a formula like this one:

```
{"Shipping Agent".Name [Code = field("Shipping Agent Code")]}
```

Info

The table is different from one report to another. It might be useful to create a dedicated printer for each report.

User Guide

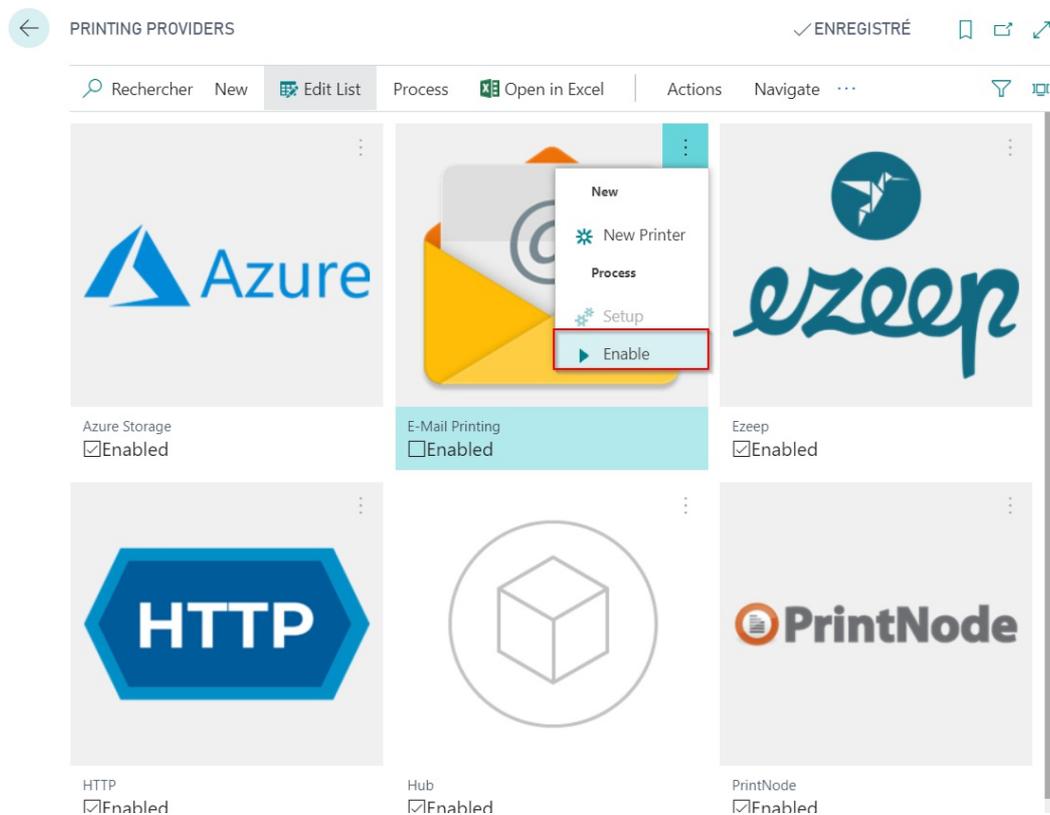
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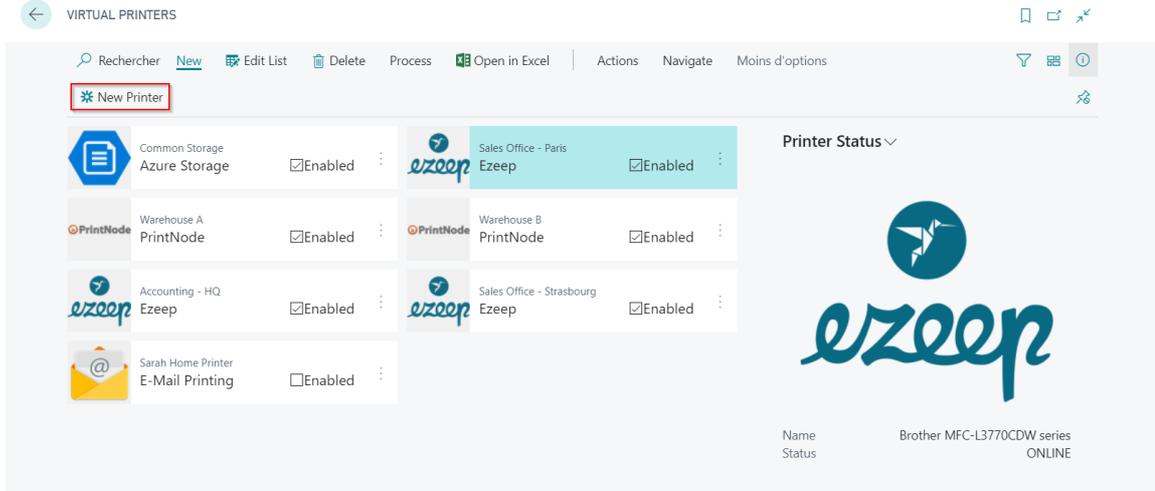
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Provider	Printer Name	Status
Common Storage Azure Storage		Enabled
Warehouse A PrintNode		Enabled
Accounting - HQ Ezeep		Enabled
Sarah Home Printer E-Mail Printing		Enabled
Sales Office - Paris Ezeep		Enabled
Warehouse B PrintNode		Enabled
Sales Office - Strasbourg Ezeep		Enabled

On the right side, the 'Printer Status' panel displays the 'ezeep' logo and the printer details: Name: Brother MFC-L3770CDW series, Status: ONLINE.

3. Select the printing provider and then, one of the printers exposed by it.
4. Enter a unique virtual printer name.
5. Choose **OK**.
6. Some printer requires more settings before being ready to be used. If so, select the virtual printer and choose **Setup Printer** action.

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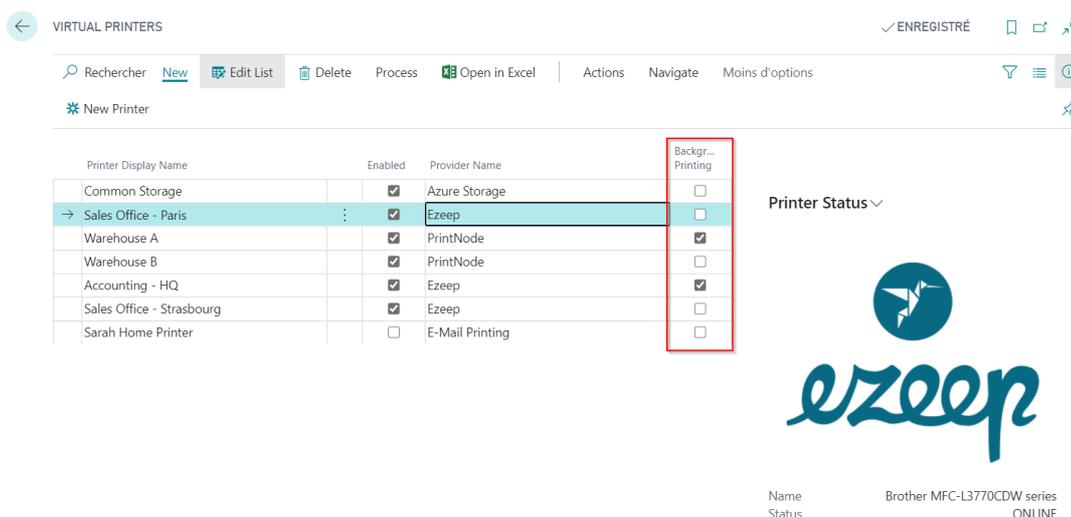
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Sales Office - Strasbourg	<input checked="" type="checkbox"/>	Ezeep	<input type="checkbox"/>
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Printer Status ▼



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```
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```

Info

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Azure Storage Setup

What is a Azure Storage?

[Azure Storage](#) is a cloud storage service. You can use it to store the document you print with Cherry Print.

Azure Storage is a service managed by Microsoft, please note that extra costs might apply.

Before using Azure Storage, you must create [an account](#).

Set up the service

1. Choose  and type **Printing Providers**.
2. Select **Azure Storage** and ensure that **Enabled** is checked.

Set up a printer

The Azure Storage provider exposes two printers:

Printer Name	Description
Azure Blob Storage	Stores the document in a Azure Blob Storage container.
Azure File Storage	Stores the document in a Azure File Storage share. That kind of storage can be mounted as a connected drive on your company computers.

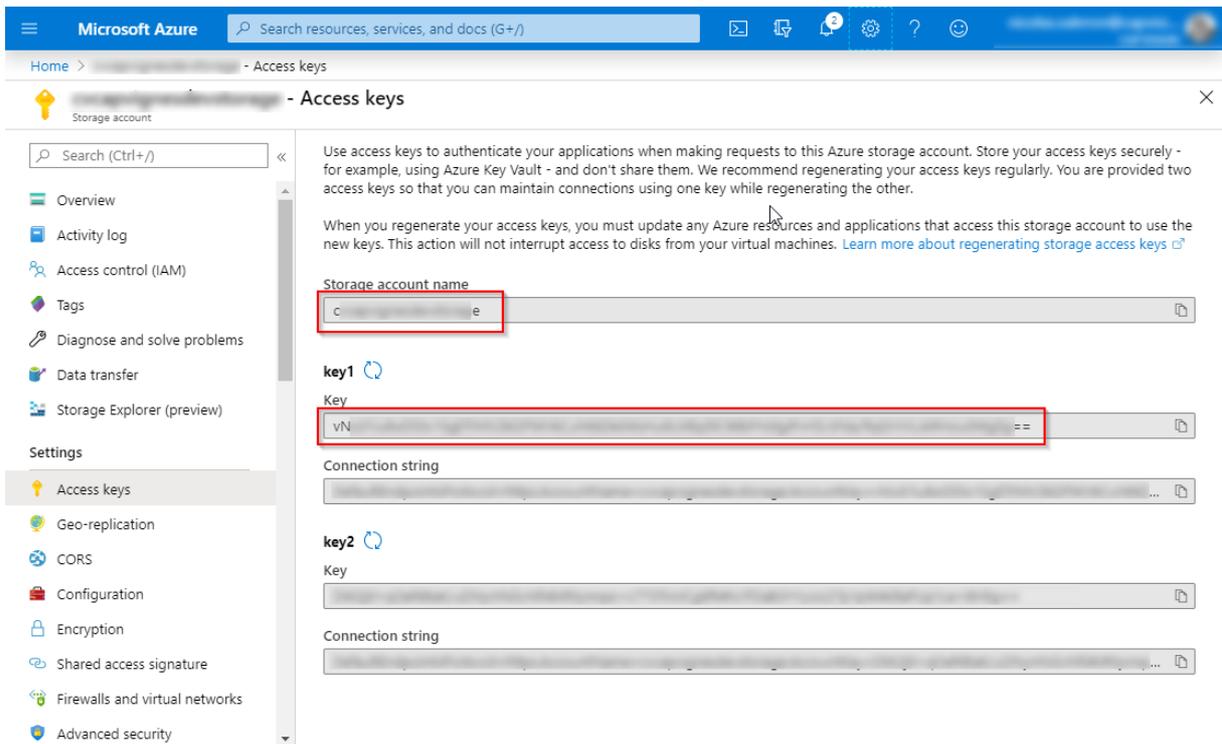
Whatever type of storage you choose, you will have to retrieve your [Access Key](#).

Configure an Azure Blob Storage printer

Azure Blob Storage printer requires these information:

Property	Mandatory	Description
Account Name	Yes	The unique name of your Azure Storage.
Access Key	Yes	One of the two valid access keys.

You can retrieve your account name and access key from the Azure Portal.



PropertyMandatoryDescription

Storage Name	Yes	The name of the container that will host the blobs.
File Name	Yes	The name of the blobs. The name is dynamically generated each time a document is saved. You can use substitution strings to create a unique name.

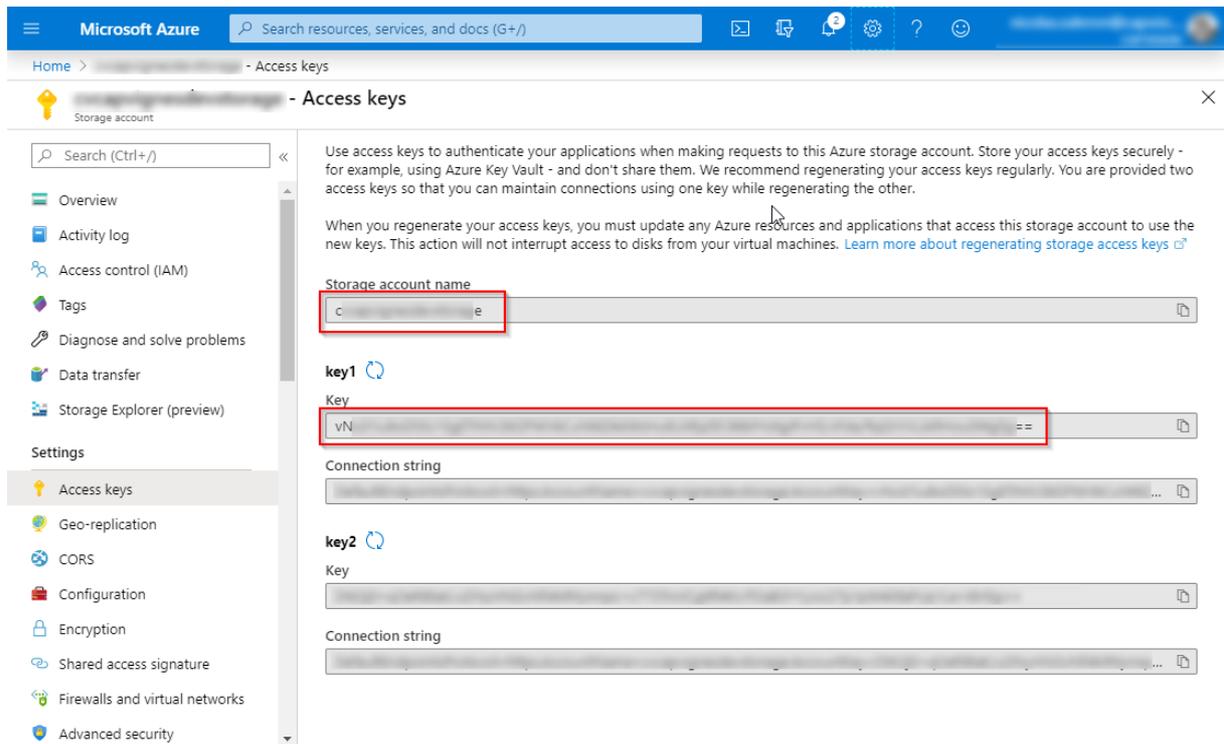
Configure an Azure File Storage printer

Azure File Storage printer requires these information:

Property MandatoryDescription

Account Name	Yes	The unique name of your Azure Storage.
Access Key	Yes	One of the two valid access keys.

You can retrieve your account name and access key from the Azure Portal.



PropertyMandatoryDescription

Storage Name	Yes	The name of the file share that will host the blobs.
File Name	Yes	The name of the file, including directories and subdirectories. The name is dynamically generated each time a document is saved. You can use substitution strings to create a unique name. Please note that the path must already exist. If not, the document upload will fail.

AZURE STORAGE PRINTER SETUP



Account

Don't have an account? [Click here to subscribe.](#)

Account Name	<input type="text" value="cronus-mystorage"/>
Access Key	<input type="password" value="....."/>
Storage Name	<input type="text" value="common"/> ...
File Name	<input type="text" value="{{year}}-{{month}}-{{day}}-{{guid}}.{{extension}}"/>

- Account
- Paper/Quality
- Disposition

ezeep Provider

What is ezeep?

ezeep is a cloud printing solution.

To support this service, Cap Vision is a member of the [Cloud Printing Alliance](#).



**Cloud Printing
Alliance**

Before using ezeep with Cherry Print, you must [create an account](#), install a software on your computers connected to your printers and setup your account. To get more information, see the [official ezeep documentation](#).

Please note ezeep might charge you for the usage of their service.

Cherry Print is compatible with Shared Workspace, Commercial and Education [offers](#). Cherry Print is not compatible with ezeep Dash.

Set up the service

In Business Central, follow these steps to start using ezeep:

1. Choose  and type **Printing Providers**.
2. Select **Ezeep** and ensure that **Enabled** is checked.
3. Go [to the Ezeep page](#) and click **Setup** action **Setup**.

EZEEP SERVICE SETUP



Connection Settings

Fill your account credentials. You can get an account by subscribing to Ezeep (extra costs may apply) on <https://www.ezeep.com/>.

Don't have an account? [Click here to subscribe.](#)

User Name tom@cronus.fr

Password ●●●●●●●●

Connection Settings

Test Connection

- 4. Enter your ezeep e-mail address and password.

Note

You can select **Test Connection** action to test if Cherry Print is able to connect to ezeep.

Set up a printer

All printers available in your PrintNode account are visible with Cherry Print.

In the printer settings, you can set how the document will be printed. You can manage these properties:

Property Name	Mandatory	Description
Color	No	
Collate	No	
Copies	No	
Duplex	No	
Reverse Order	No	
Rotation	No	

Troubleshooting

Why am I receiving an Internal Server Error in the virtual printer logs?

You might get this error if the user is not allowed to use the printer. Before printing, each ezeep user must be assigned to a user group. Then you must create at least one policy for the user group that allows using the printer.

HTTP Setup

What is the HTTP Printer?

The HTTP Printer lets you send a document to a generic web service that support HTTP POST action.

Set up the service

1. Choose  and type **Printing Providers**.
2. Select HTTP and ensure that **Enabled** is checked.

Set up a printer

The HTTP provider exposes only one printer: HTTP Post.

In the setup page, you have settings to provide:

Property	Mandatory	Description
----------	-----------	-------------

URL	Yes	URL where the documents have to be posted. The URL supports substitution strings .
Content Type	No	If you want to define the content-type property of the HTTP request.
User Name	No	If the server requests authentication, you can provide basic authentication.
Password	No	If the server requests authentication, you can provide basic authentication.
Body	No	If you let this field blank, then the document stream is send in raw format in the request's body. If you type something, it will be used as the request's body. You can use common substitution strings and specific substitution strings as described below.

Info

Use the body if your API expect JSON or XML format.

HTTP PRINTER SETUP



General

URL

AUTHENTICATION

You can specifies basic authentication credentials. If you let the username and password blank, anonymous requests is executed.

Username

Password

- General
- Paper/Quality
- Disposition

Body substitution strings

The body field supports common [substitution strings](#). Below is listed substitution strings that can also be used with the body field.

String	Description
<code>{{document-base64}}</code>	The content of the document stream formatted in Base64.

Hub Setup

What is a Hub Printer?

A hub printer is a virtual printer to redirect a document to several printers. For example, you can use a Hub Printer in the following scenarios:

- A document has to be sent to a paper printer and e-mailed to someone;
Mix E-mail printer and PrintNode/ezeep printer.
- A document must be archived on a storage and printed on a paper;
Mix Azure Storage printer and PrintNode/ezeep printer.
- Multiple copies is not supported by a printer and you want to print a document twice.
Add the same printer twice in the hub.

Set up the service

1. Choose  and type **Printing Providers**.
2. Select **Hub** and ensure that **Enabled** is checked.

Set up a printer

The Hub provider exposes only one printer.

In the virtual printer settings, you can add other virtual printers to which the document to print must be redirected.

Warning

You can setup a hub printer in a way it loops indefinitely (by adding a hub printer to itself). Please add virtual printers with care!

The option **Continue on failure**, allows the hub to continue printing with the next printer even if one printer is unable to print the document.

PrintNode Setup

What is PrintNode?

PrintNode is a cloud printing solution. Before using PrintNode with Cherry Print, you must [create an account](#) and install a software on your computers connected to your printers.

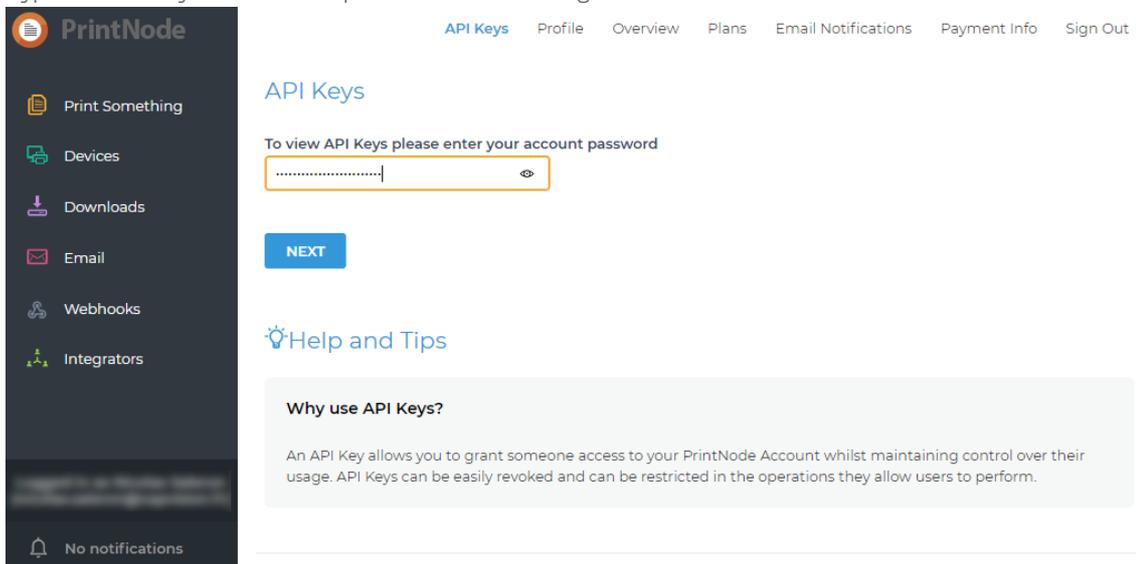
Please note PrintNode might charge you for the usage of their service.

Cherry Print is compatible with Single Account and Integrator Account [offers](#). Standalone installation is not supported.

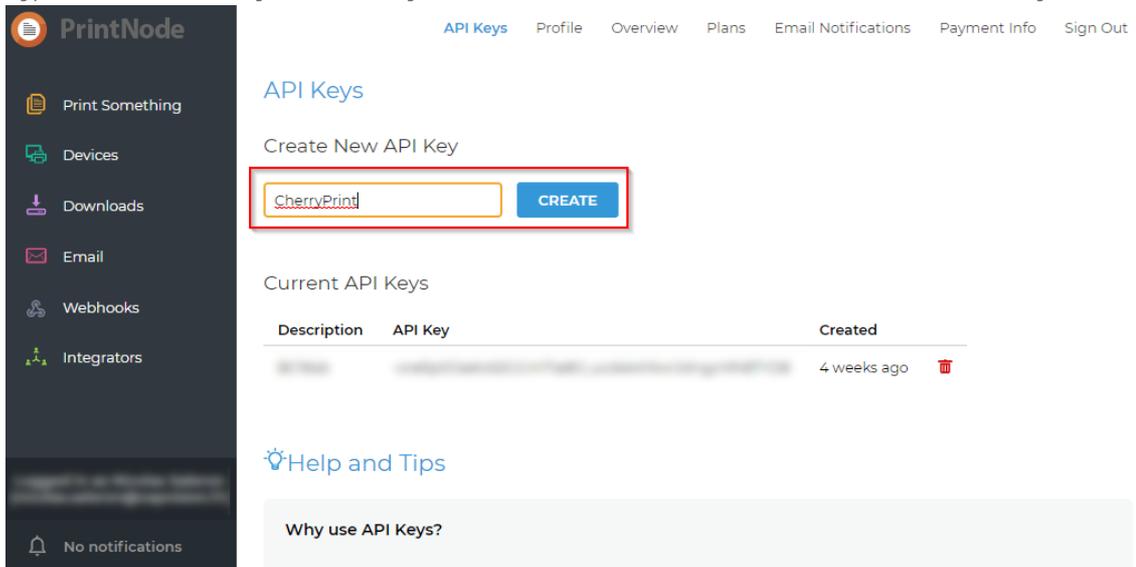
Set up the service

First of all, you need to get an API Key from your PrintNode account. To do this follow these steps:

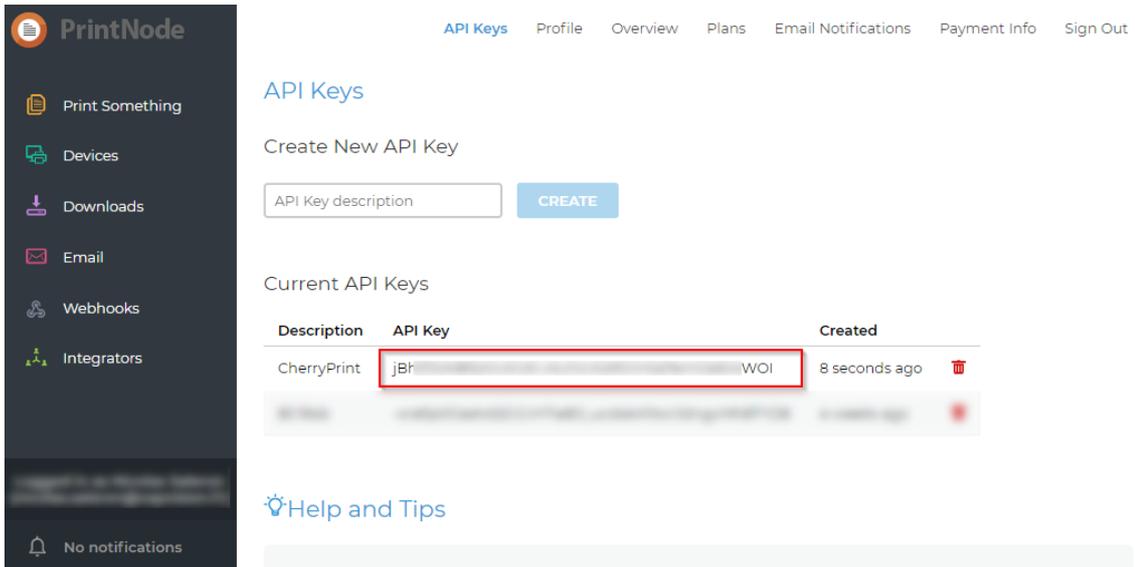
1. Go to [this page](#), and login with your PrintNode credentials if requested.
2. Type your password again and click on **Next**.



3. Type the name of your API Key and click on **Create**. You can choose the name you want.



4. Save the API Key you just created. You will be requested to type this value in Cherry Print.



Now you have your key, follow these steps in Business Central:

5. Choose  and type **Printing Providers**.
6. Select **PrintNode** and ensure that **Enabled** is checked.
7. Go to action **Setup**.
8. Then type the API Key in the relevant field.

PRINTNODE SERVICE SETUP



Connection Settings

Fill the API Key associated with your PrintNode account. You can create API Keys from <https://app.printnode.com>.

[Don't have an account? Click here to subscribe.](#)

API Key

Connection Settings

Test Connection

Note

You can select **Test Connection** action to test if Cherry Print is able to connect to PrintNode.

Set up a printer

All printers available in your PrintNode account are visible with Cherry Print.

In the printer settings, you can set how the document will be printed. You can manage these properties:

Property Name	Mandatory	Description
---------------	-----------	-------------

Bin	No	
Collate	No	
Dpi	No	
Copies	No	
Duplex	No	
Paper size	No	
Rotation	No	

E-mail Printer Setup

What is an e-mail printer?

An e-mail printer consists to send the document to print attached to an e-mail. Most modern printer supports e-mail printing. Even if it can be slow, this method is usually free of charge and supported by many manufacturers:

- [Brother](#)
- [Epson with Epson Connect](#)
- [HP with ePrint](#) for web-enabled printers.

Set up the service

1. Choose  and type **Printing Providers**.
2. Select **E-Mail Printing** and ensure that **Enabled** is checked.

Set up a printer

The e-mail printing provider exposes only one printer.

The printer has some settings to provide:

Property Name	Mandatory	Description
Send From	Yes	E-mail address from which the printing job is sent. This field supports substitution strings . Basically you can set it to <code>{{senderemail}}</code> .
Send To	Yes	E-mail address where the printing job is sent. This field supports substitution strings .
Subject	No	Subject of the e-mail. This field supports substitution strings .
Attachment Name	Yes	Name of the document to print. This field supports substitution strings . Basically you can set it to <code>document,{{extension}}</code>
Body	No	The content of the e-mail in HTML. This field supports substitution strings . Basically you can let this field blank.

Note

If you modify the body, select **Body** and then **Save** to store the value.

E-MAIL PRINTER SETUP



General

Fill the information that will allow the e-mail to be sent. You can use substitution values: take a look at the help to get more details.

Send From	<input type="text" value="{{senderemail}}"/>
Send To	<input type="text" value="printer026458@cronus.fr"/>
Subject	<input type="text" value="Print Me!"/>
Attachment Name	<input type="text" value="{{guid}}.{{extension}}"/>

Body ▾

1

- General
- Paper/Quality
- Disposition



**4, rue d'Alsace
68250 ROUFFACH
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**T : +33 3 89 49 67 26
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contact@capvision.fr
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