

# **Sphereon Blockchain Add-on for Alfresco**

## **Alfresco Module Package (AMP) Installation Guide** (Linux version)



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## PREREQUISITES

### 1. wget or curl

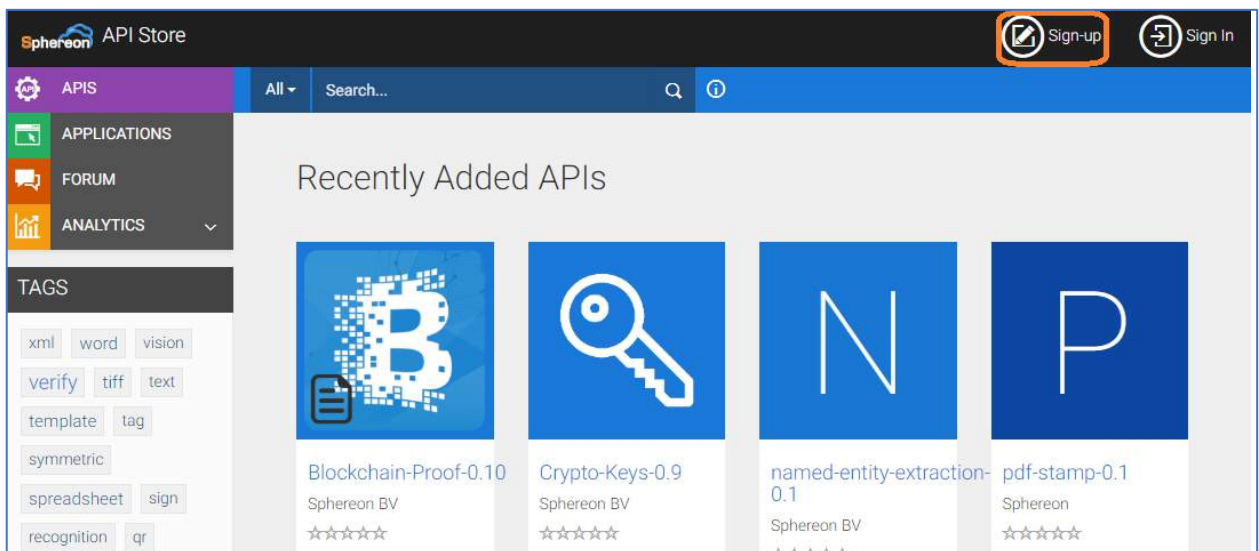
As prerequisite you will need to have either wget or curl installed.

### 2. Signup and register on store.sphereon.com

In order to use the Sphereon APIs you need a **consumer key** and a **secret value**.

To obtain these you must signup at <https://store.sphereon.com>

Click on Sign up.



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Enter your account details

The image shows two overlapping screenshots from the Sphereon API Store interface. The primary screenshot is the 'Create your Account' form, which includes the following fields and elements:

- Username \***: Input field containing 'dcodeer', with a character count of 24 remaining.
- Password \***: Input field with masked characters.
- Re-type Password \***: Input field with masked characters.
- First Name \***: Input field containing 'Devin'.
- Last Name \***: Input field containing 'Coder'.
- Email \***: Input field containing 'dcodeer@programmer.net'.
- Buttons**: 'View Additional Details' (link), 'Sign Up' (orange), and 'Cancel' (grey).

The secondary screenshot is a notification box titled 'API Store - Notification' with the following content:

- Title**: API Store - Notification
- Message**: User added successfully. You can now sign into the API store using the new user account.
- Action**: OK button.

Log in with the user name and password that you just entered in the Sign up screen.

The image shows the 'Sign in to your account' form in the Sphereon API Store interface. It includes the following fields and elements:

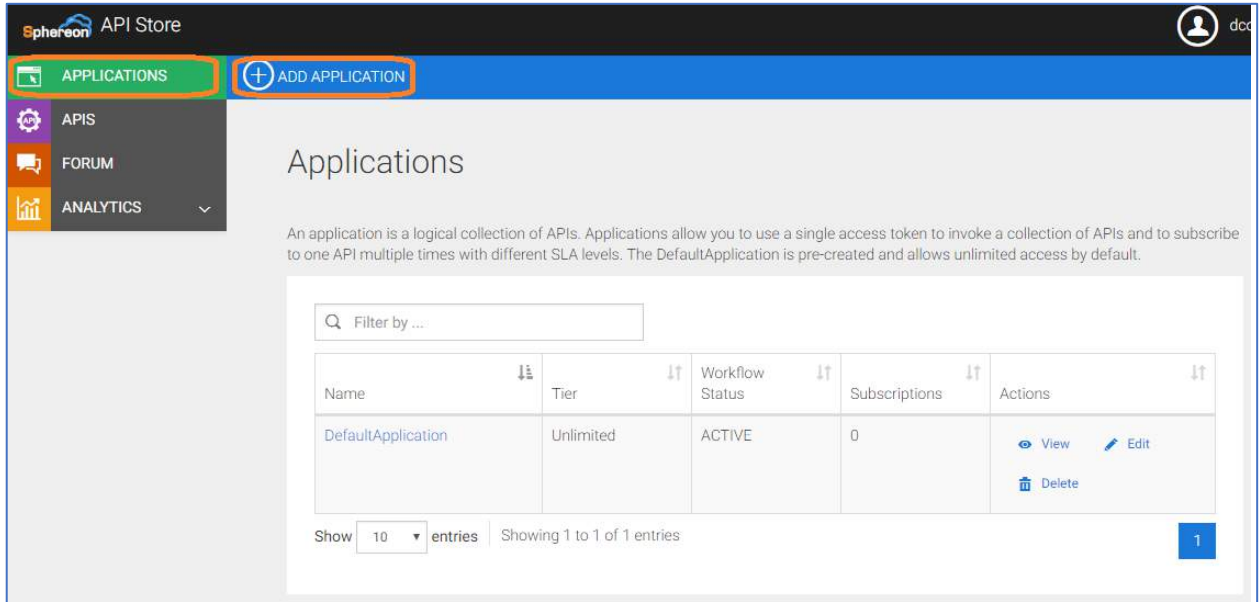
- Username**: Input field containing 'dcodeer'.
- Password**: Input field with masked characters.
- Buttons**: 'Sign In' (orange) and 'Go Back' (grey).

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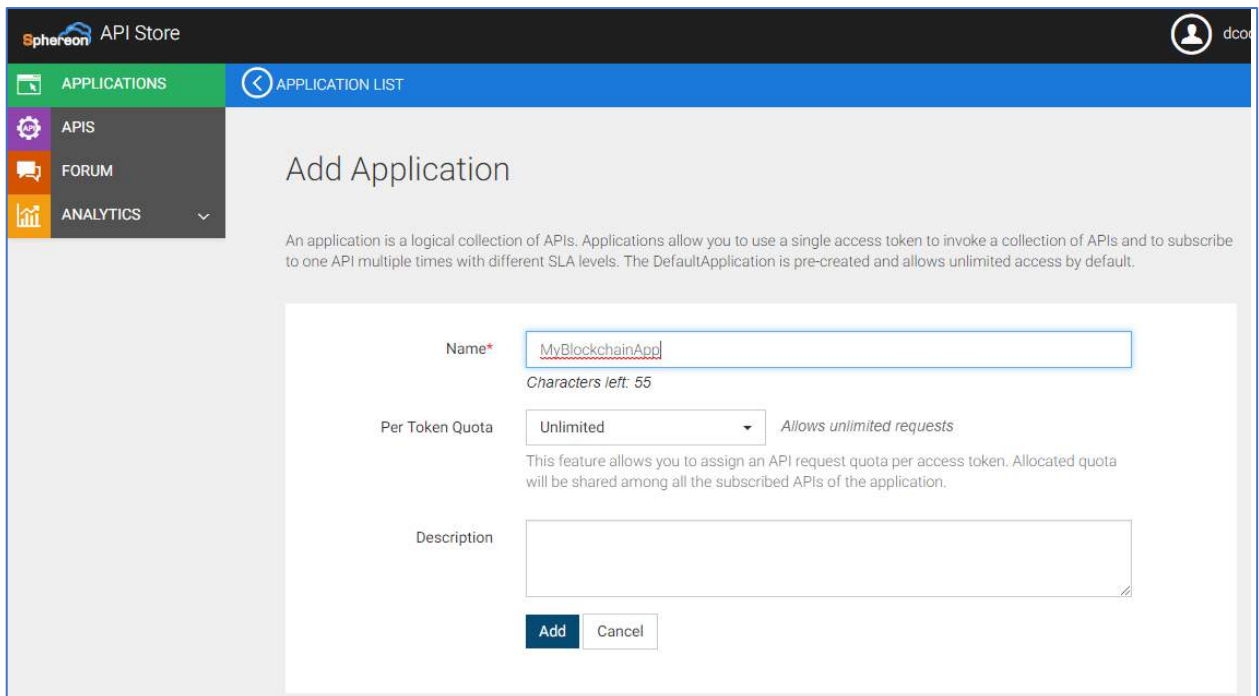
## Add an Application

You will need to define and configure a so-called Application, which will consist of one (or more) APIs and that you will use for your project.

Go to the APPLICATIONS section, click [ADD APPLICATION](#).



Choose and enter a name for the Application that is going to use.

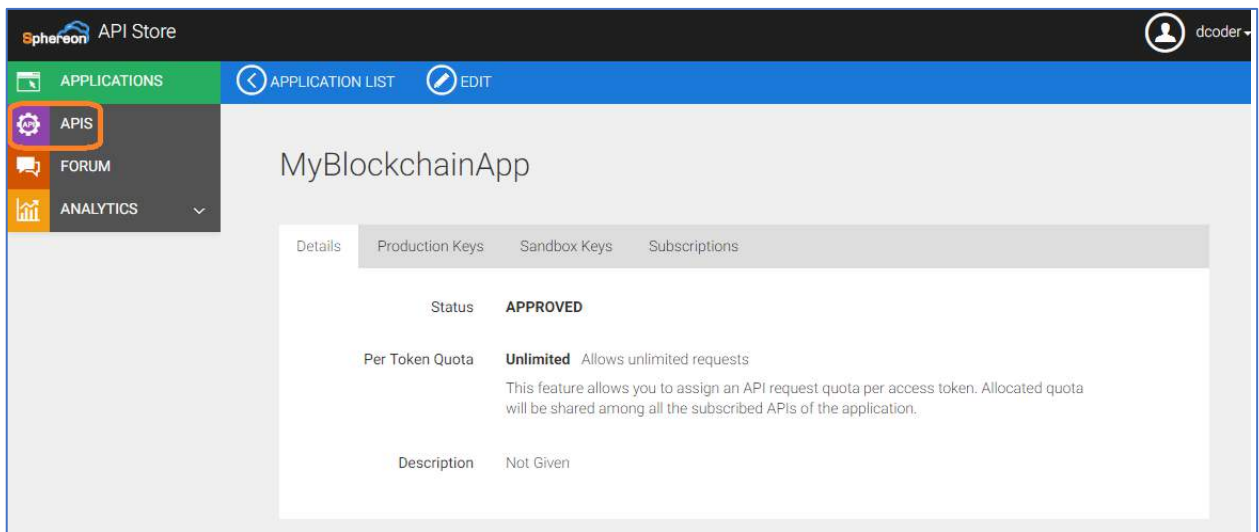


You can leave the Per Token Quota as is. Optionally, you can enter a Description for your Application.

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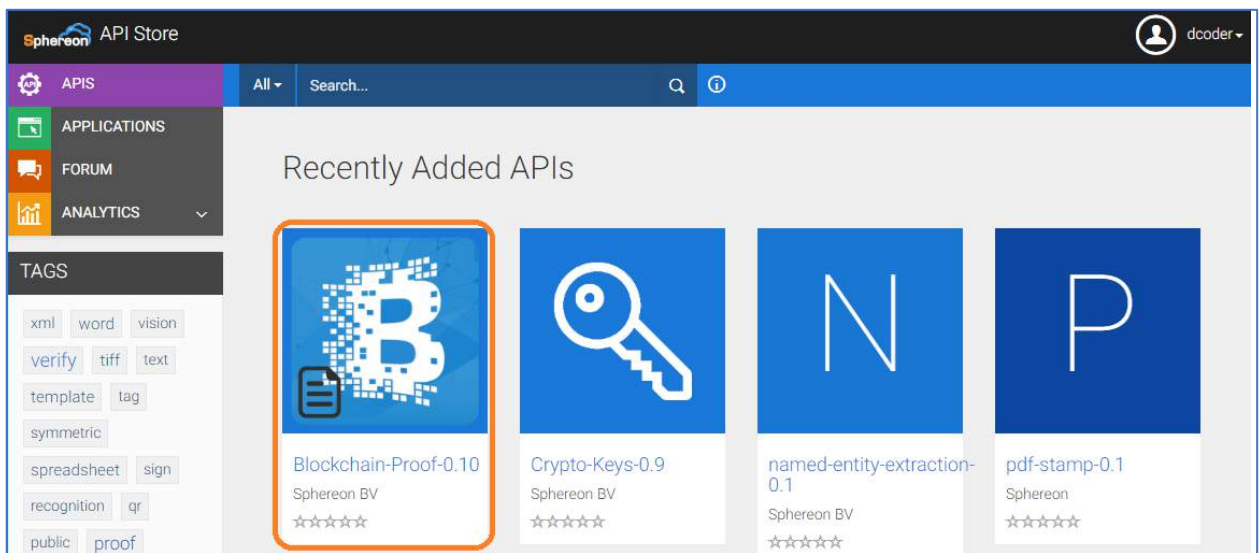
## Add the APIs to the Application

Next, go to the APIS section.



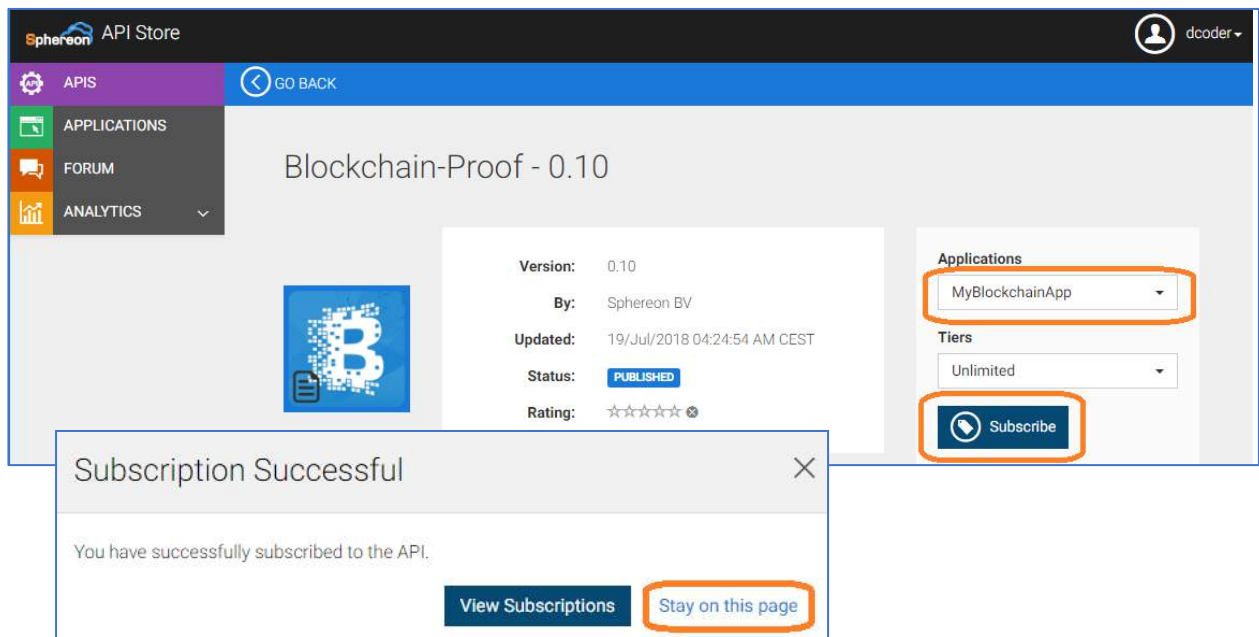
The APIS Section will display publicly available APIs.

Click on [Blockchain-Proof API](#).



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Next, select your Application from the drop-down menu and click the [Subscribe] button to subscribe (and link) the API to your new Application.



Click on the [Stay on this page] button.

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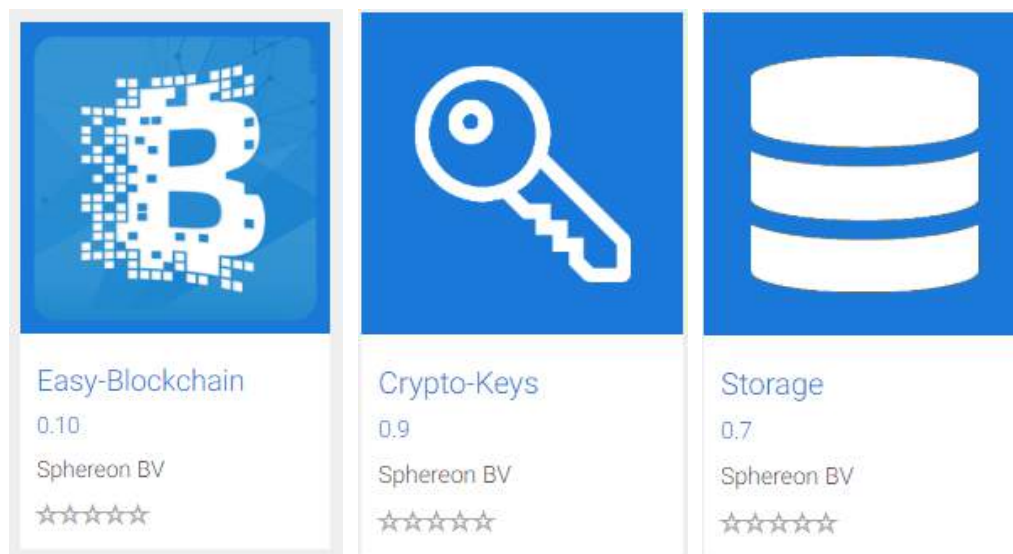
Besides the Blockchain-Proof API, you also need to subscribe to the following APIs:

- Easy-Blockchain
- Crypt-Keys
- Storage

Click on GO BACK to return to the APIS page.



Repeat steps 7 and 8 for all of the API's below:

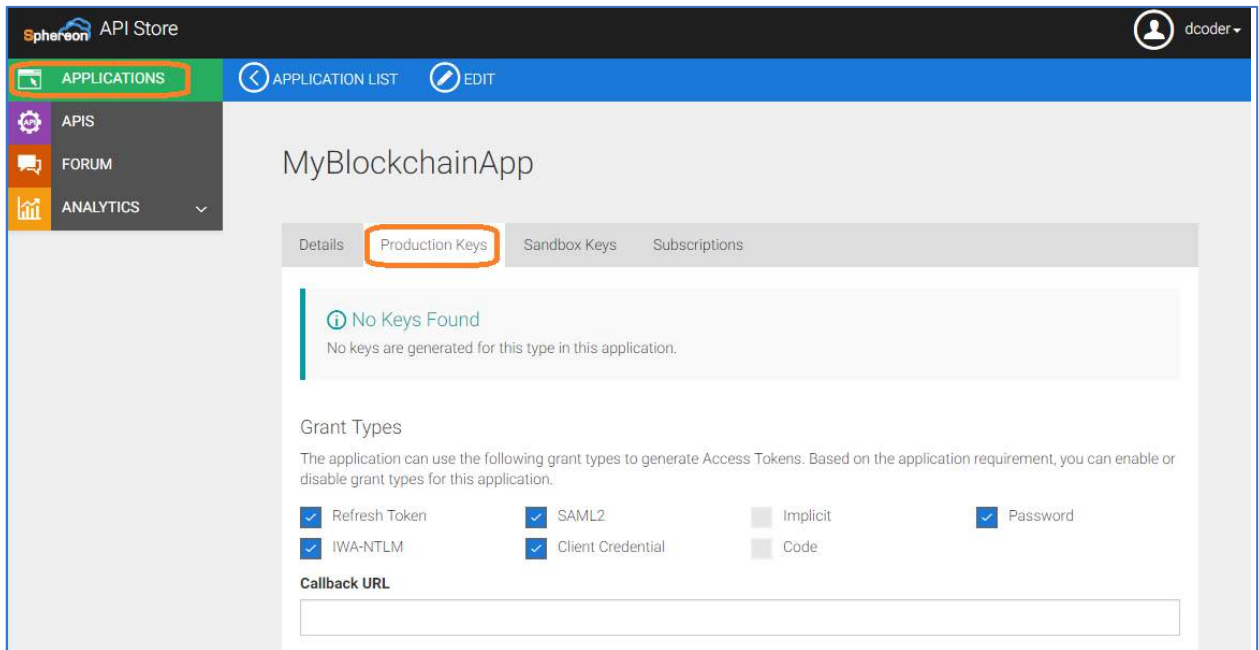




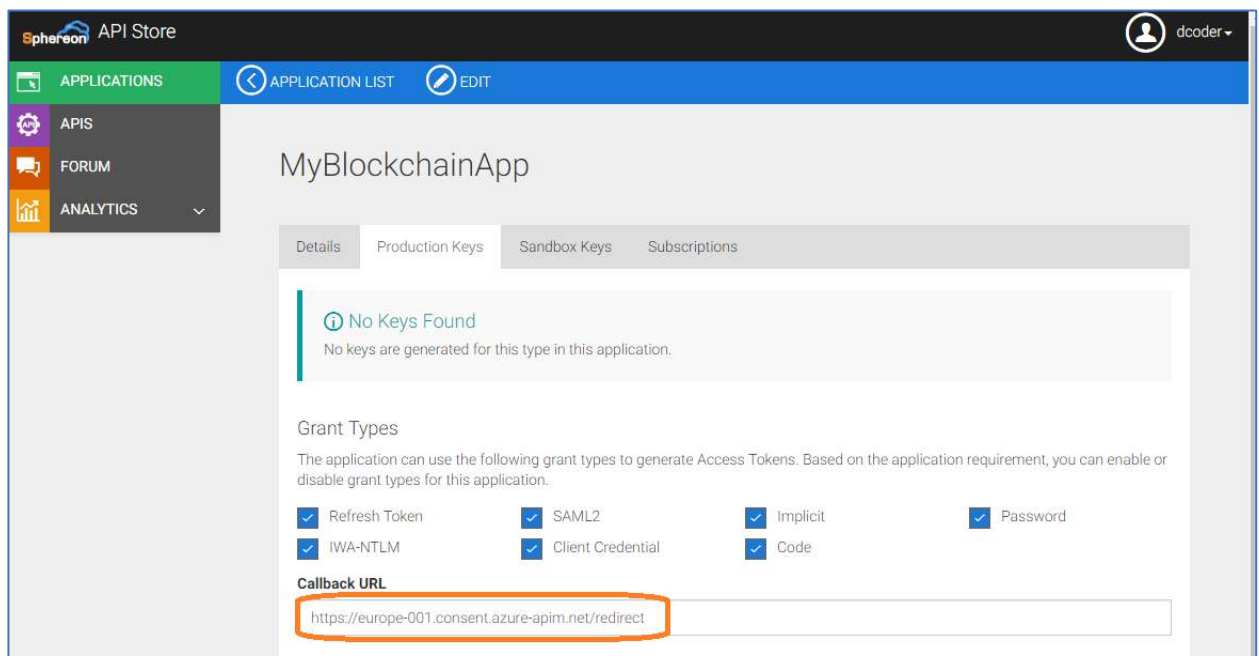
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## Generate the Keys

Go back to the APPLICATION section and open the Production Keys tab.

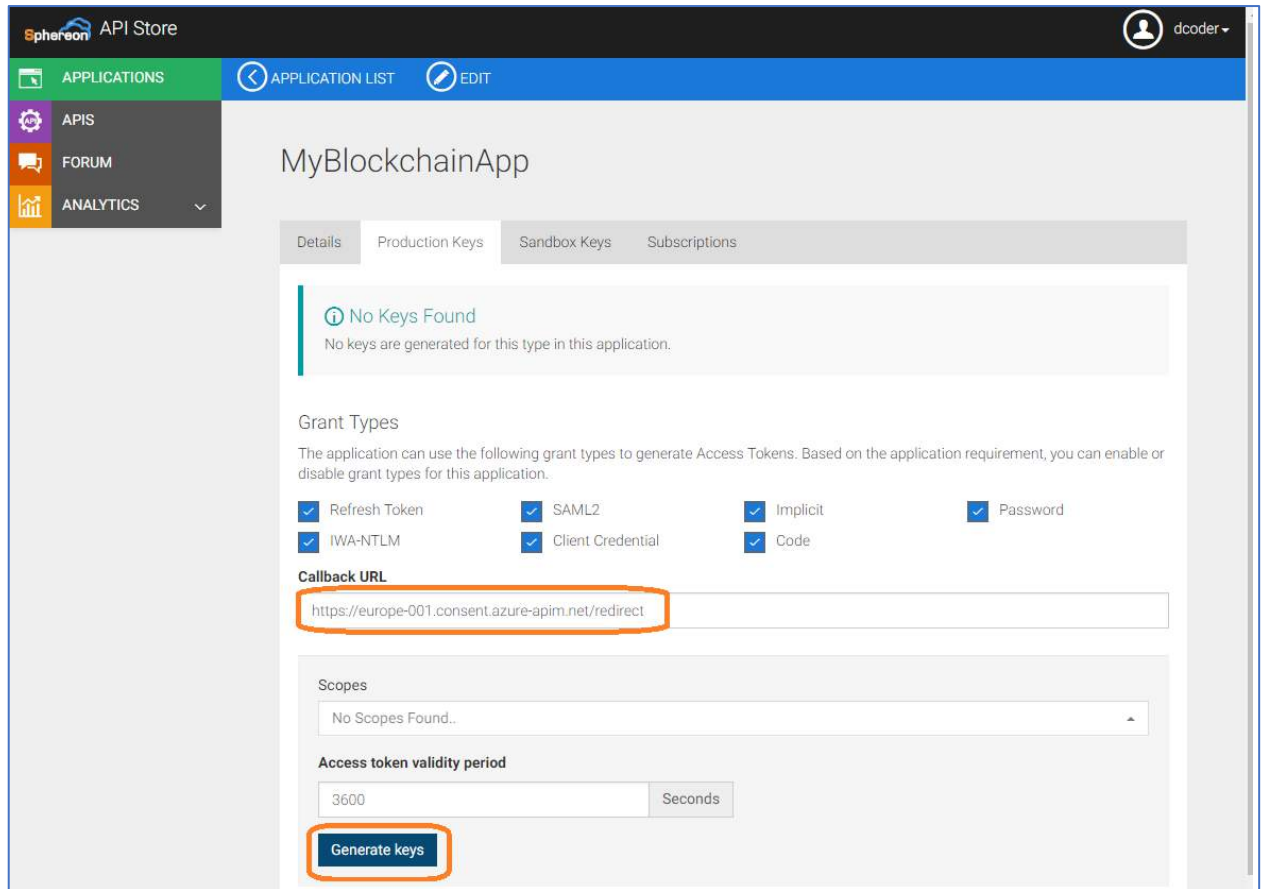


**Note:** If your connecting app provides a callback URL (like MS-flow) you can enter this in the "Callback URL" field.



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Now click on the [Generate Keys] button at the bottom of the screen.



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If your keys are hidden, you can click on the [Show keys] button.

The screenshot displays the configuration interface for the Alfresco Blockchain add-on, specifically the 'Production Keys' tab. At the top, there are navigation tabs for 'Details', 'Production Keys', 'Sandbox Keys', and 'Subscriptions'. A 'Show Keys' button is highlighted with an orange border. Below this, the 'Consumer Key' and 'Consumer Secret' fields are shown with masked text and copy icons. The 'Grant Types' section lists various authentication methods, all of which are checked: Refresh Token, SAML2, Implicit, Password, IWA-NTLM, Client Credential, and Code. The 'Callback URL' field is populated with 'https://europe-001.consent.azure-apim.net/redirect'. An 'Update' button is located below the callback URL. The 'Generate a Test Access Token' section shows an 'Access Token' field with masked text and a copy icon. A note states: 'Above token has a validity period of 3600 seconds. And the token has ( am\_application\_scope default ) scopes.' Below this, the 'Scopes' dropdown menu is empty, displaying 'No Scopes Found..'. The 'Validity period' is set to 3600 seconds. A 'Regenerate' button is positioned at the bottom of the token generation section.

Write down or copy the keys. You will need them during the installation process.

**Note:** You can always revisit this page.

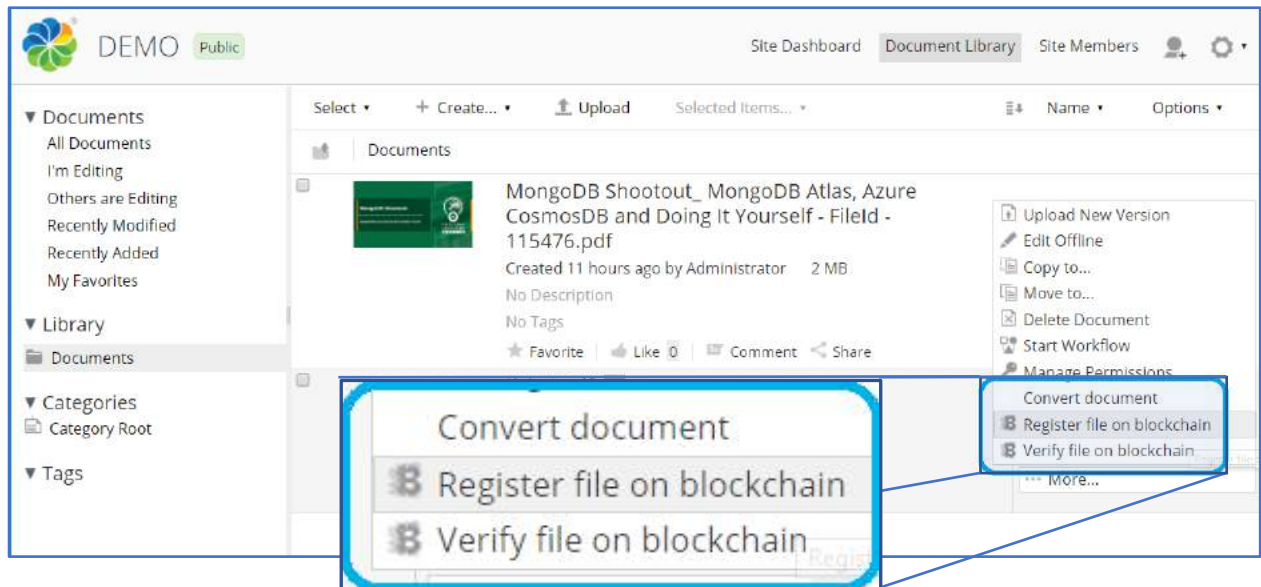
**Note:** There are separate keys for Production and Sandbox (Test) environments.

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## INSTALLATION

These following sections of this document describe how to install the Sphereon Blockchain add-on for Alfresco.

The Sphereon Blockchain add-on will provide Menu items for function that link them to Sphereon's cloud API content services.



### An Alfresco Module Package (AMP)

The Sphereon Blockchain add-on is packaged in the Alfresco Module Package (AMP) file format for easy deployment in production environments.

This AMP file is essentially a Zip file with a specific layout, containing all of the files required for the installation. This format allows the module to be more easily shared with the community, developers or customers.

### Advantages of using AMP files

Here are some of the advantages of packaging your extension in an AMP file:

- AMPs provide a namespace feature that helps prevent file name clashes with other extensions.
- The minimum and maximum version of Alfresco required for the extension to operate correctly can be specified in the AMP file.
- Dependencies on other modules can be declared in the AMP file.
- AMP files can contain a module version number.
- Data required by the extension when the module is loaded can be included in the AMP.

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## Installation steps

The steps are:

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Restart Alfresco	15

**Note:**     **This installation requires Alfresco to be stopped and restarted!**

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## Download and install the Alfresco Module Package (AMP)

Open a shell and go to your Alfresco home directory. As prerequisite you will need to have either wget or curl installed.

For wget:

```
sudo ./alfresco.sh stop

sudo wget https://sphereon.com/downloads/Alfresco/alfresco-amp-bundle.tar.gz alfresco-amp-bundle.tar.gz

sudo tar -xf alfresco-amp-bundle.tar.gz

sudo ./bin/sphereon_amps.sh
```

For curl:

```
sudo ./alfresco.sh stop

sudo curl https://sphereon.com/downloads/Alfresco/alfresco-amp-bundle.tar.gz --output alfresco-amp-bundle.tar.gz

sudo tar -xf alfresco-amp-bundle.tar.gz

sudo ./bin/sphereon_amps.sh
```

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## Configure the Alfresco global properties

Use your editor of choice to edit the `./tomcat/shared/classes/alfresco-global.properties` file and add the following:

```
sphereon.blockchain.proof.api.auth.oauth2-consumer-key=*****  
sphereon.blockchain.proof.api.auth.oauth2-consumer-secret=*****  
sphereon.blockchain.proof.encoding=hex  
sphereon.blockchain.proof.enabled=true  
sphereon.blockchain.proof.config-name=poe-factom
```

Use the consumer-key and consumer-secret values you generated earlier (page 11).

## Restart Alfresco

Now you can start Alfresco again:

```
sudo ./alfresco.sh start
```

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