



CLOUD CONNECTORS

1.2.0

INTRODUCTION

The Cloud Connectors add-on works with Atlassian Confluence and JIRA applications. It allows to easily work with a content of multiple accounts of **Box**, **Dropbox**, **Google Drive** and **OneDrive Personal**. The way of displaying and working with the content is almost in same way as with an internal storage of Atlassian Confluence and JIRA.

The add-on uses external server located at <https://api.cloud-connectors.net>, which performs an OAuth handshake with the cloud storages. The server **does not store any data**, only performs following actions:

- receives an authorization request from an Atlassian application
- sends an authorization request to a particular cloud storage
- does an OAuth handshake
- and redirects back to an Atlassian application with an OAuth information.

It is also possible to use own configuration for OAuth instead of built-in service which uses external server. The own configuration requires:

- Application name
- Application key
- Application secret

A content displayed by the add-on from a cloud storages is never stored in an Atlassian application. It is always streamed from the cloud. Only when it is needed, then a file can be stored in an Atlassian application by selecting a file and it will be uploaded without any other action required by a user.

ADMINISTRATION GUIDE

Administration of the add-on is same for Confluence and JIRA except one setting for Scheduled Back Up Confluence which is available only in Confluence.

INSTALLATION

The process of add-on installation is described by Atlassian and can be found at <https://confluence.atlassian.com/upm/installing-add-ons-273875715.html>.

After successful installation a license key is required to insert in appropriate field to enable all functionalities of this add-on.

CONFIGURATION

A configuration page consists of 3 sections (available in Confluence, JIRA contains 2 sections):

- Accounts
- Permissions
- Scheduled Back Up Confluence (available only in Confluence)

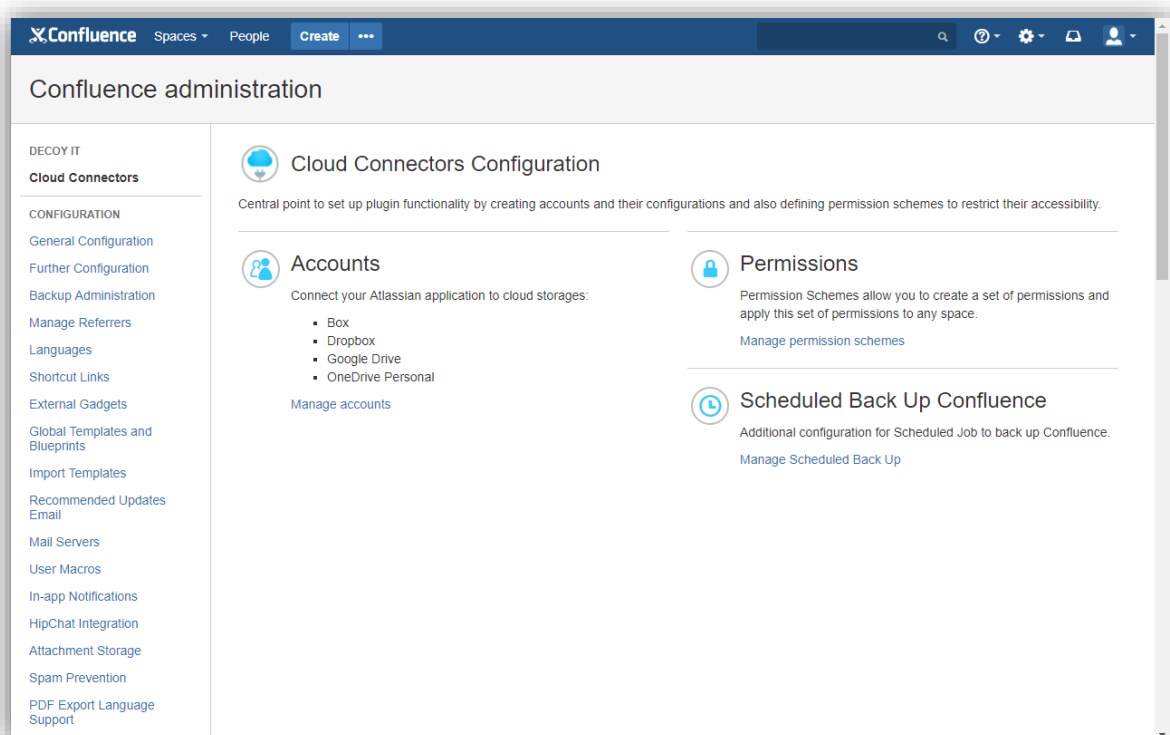


Image 1 Configuration page

ACCOUNTS

In this section the accounts can be created and linked with appropriate cloud storages. A table provides basic information about account to easily identify it:

- **Type**, represents cloud storage: Box, Dropbox, Google Drive, OneDrive Personal
- **Link**, whether an account is linked with a cloud storage and has the OAuth data
- **Status**, whether an account is enabled or disabled. Disabled accounts will not be used to work with a content
- **Health**, whether an OAuth works correctly or not. If there is an error, an appropriate account has to be re-linked.

Each account can have several „profiles“ which means it can be re-used several times with different configurations or permissions.

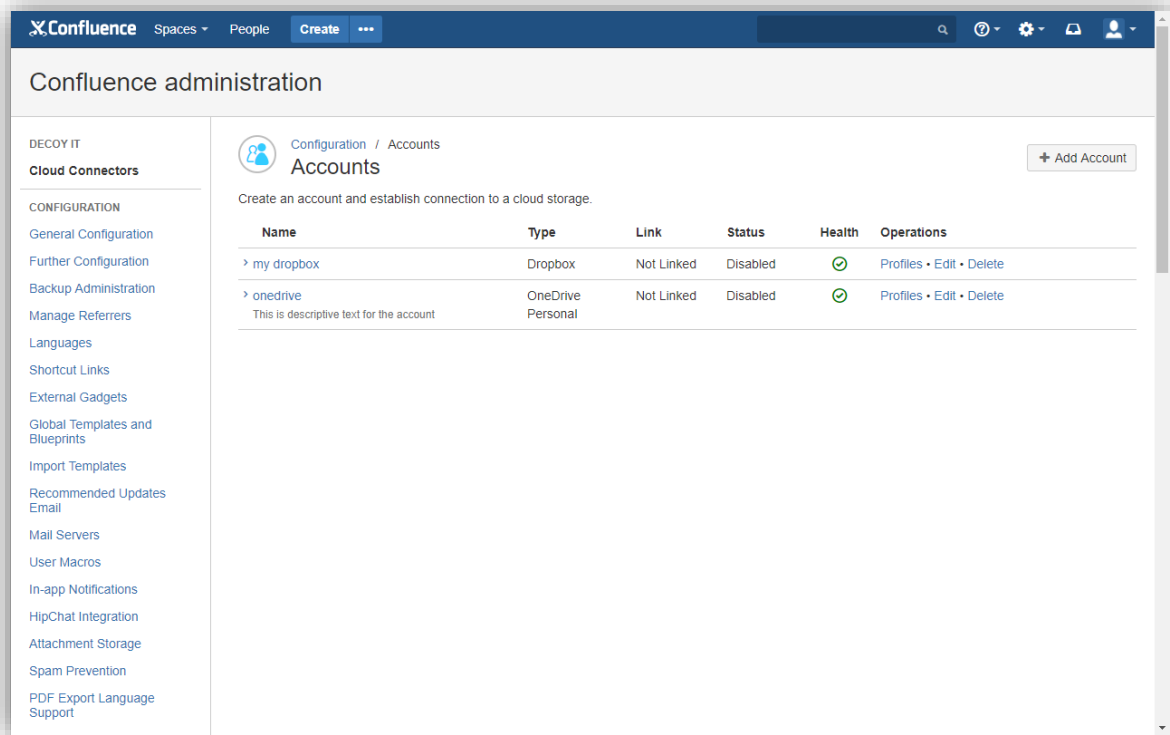


Image 2 Accounts page

Table rows can be uncollapsed which will show all profiles configured in an account. Each account has a default account profile created automatically with the same name as account and is assigned to the Default Permission Scheme.

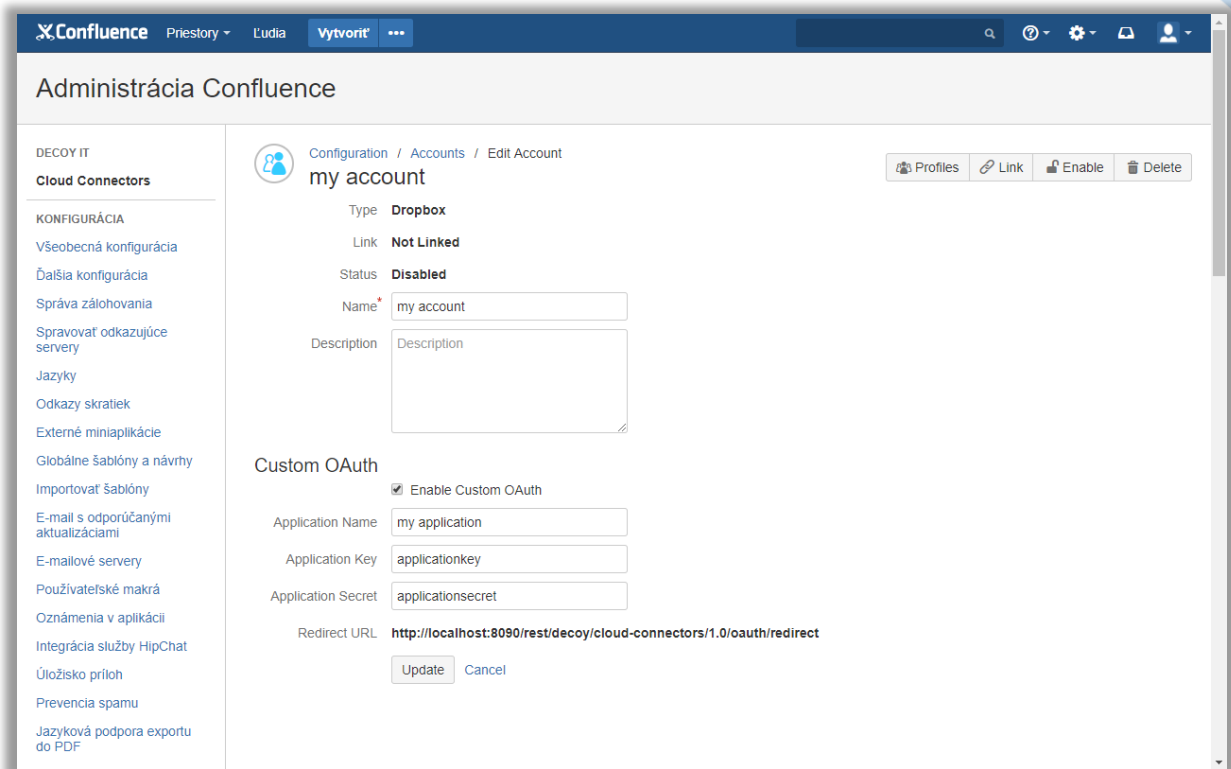


Image 3 Edit account page

More actions can be found on an account's page when editing it:

- **Profiles**, displays account profiles for an account
- **Link**, connects an account to a cloud storage and performs OAuth handshake
- **Enable/Disable**, enables or disables an account
- **Delete**, deletes an account with all profiles and OAuth data. **If there is some content inserted into a page which uses this account, it will stop working.**

Each account contains also advanced settings where a custom OAuth can be configured. To enable custom OAuth configuration **check the option enable custom OAuth** and fill in followed information:

- Application Name
- Application Key
- Application Secret

A redirect URL is located below the application information which must be used in a cloud storage when configuring an application.

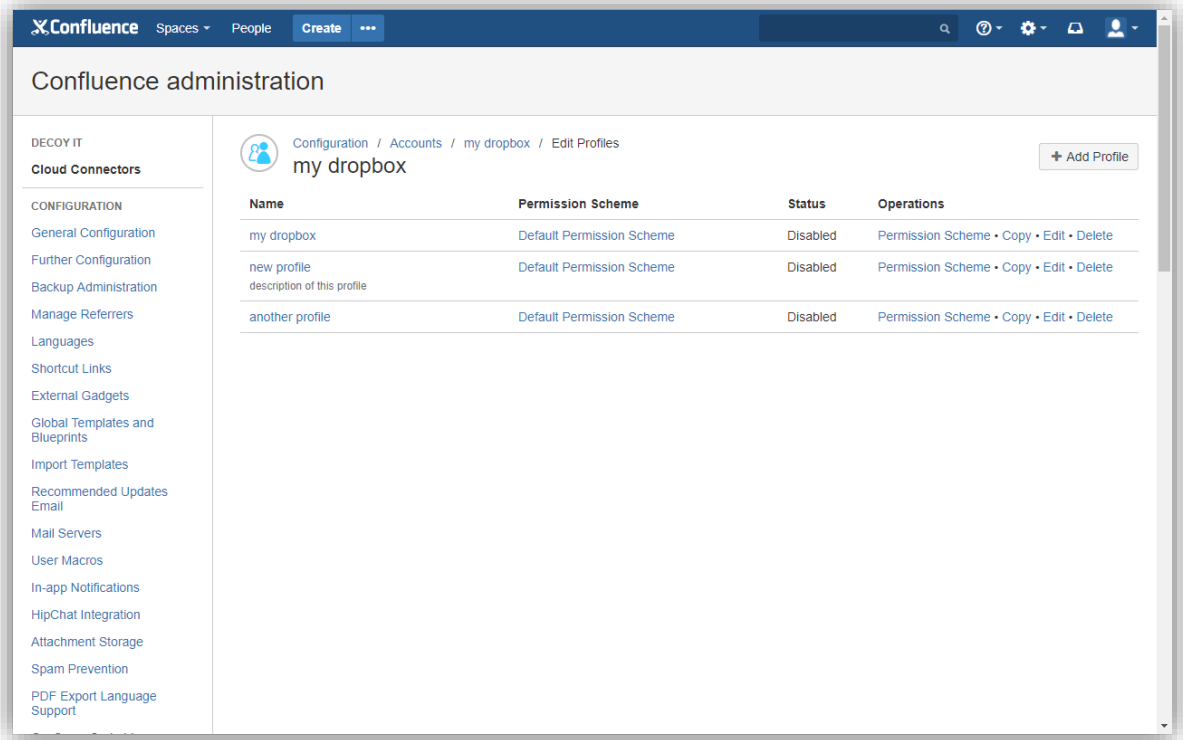
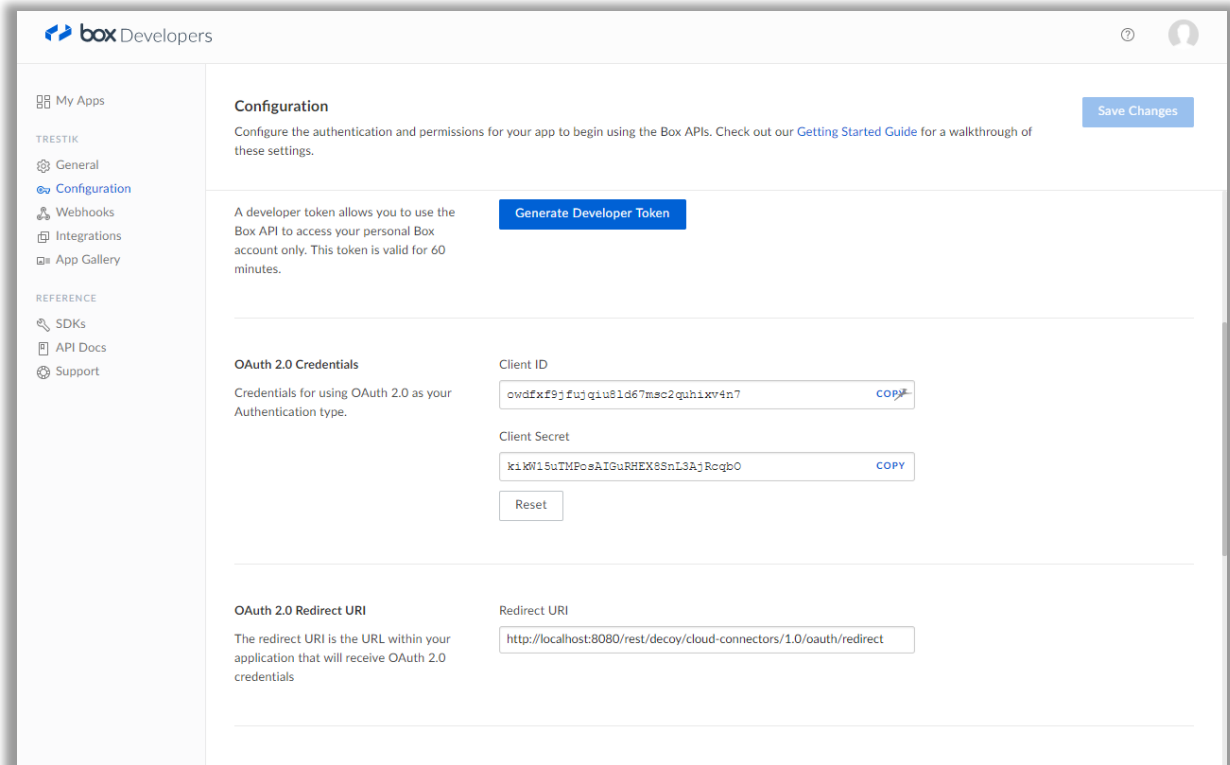


Image 4 Account profiles page

Profiles page allows to manage configuration of accounts in way of „profiles“. Permission Scheme can be assigned to a profile to restrict rights for accessing/working with a content from a cloud storage.

Custom Box Application

Visit the site <https://app.box.com/developers/console> and create a new application.



box Developers

Configuration

Configure the authentication and permissions for your app to begin using the Box APIs. Check out our [Getting Started Guide](#) for a walkthrough of these settings. [Save Changes](#)

A developer token allows you to use the Box API to access your personal Box account only. This token is valid for 60 minutes. [Generate Developer Token](#)

OAuth 2.0 Credentials

Credentials for using OAuth 2.0 as your Authentication type.

Client ID: [COPY](#)

Client Secret: [COPY](#)

[Reset](#)

OAuth 2.0 Redirect URI

The redirect URI is the URL within your application that will receive OAuth 2.0 credentials

Redirect URI:

Image 5 Box application

In the section Redirect URIs enter a redirect URL displayed in the Cloud Connectors add-on when adding/editing an account.

Copy Client ID (Application Key) and Client Secret (Application Secret) and enter them in the Cloud Connectors.

Custom Dropbox Application

Visit the site <https://www.dropbox.com/developers/apps> and create an application.

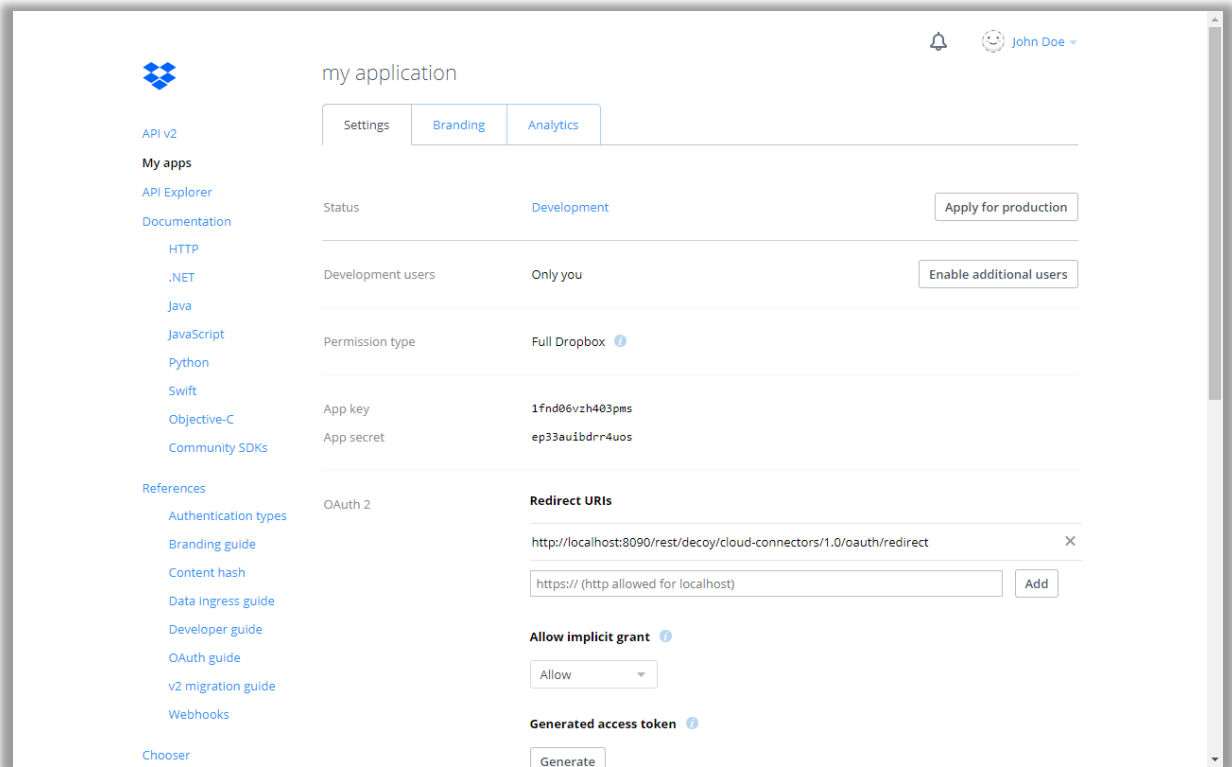


Image 6 Dropbox application

In the section Redirect URIs enter a redirect URL displayed in the Cloud Connectors add-on when adding/editing an account.

Copy App key and App secret and enter them in the Cloud Connectors.

Custom Google Drive Application

Visit the site <https://console.developers.google.com> and create a new application.

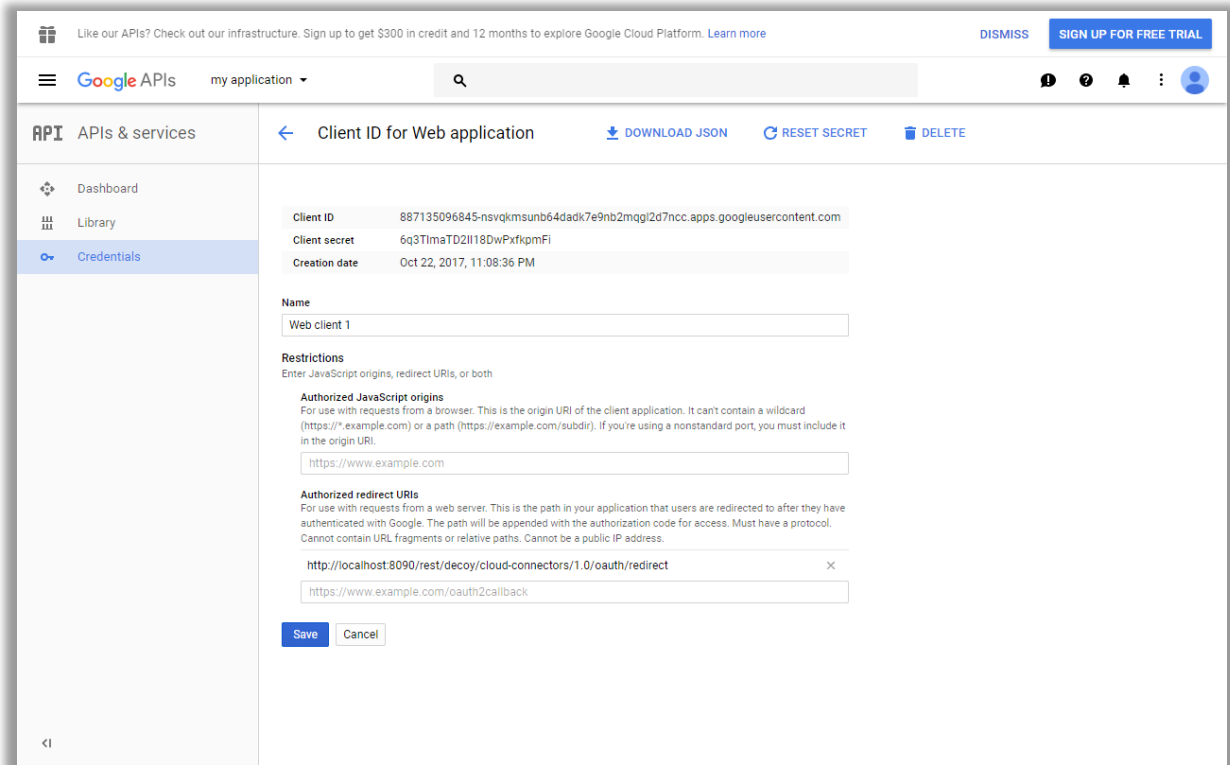


Image 7 Google Drive Application

When the application is added, create a OAuth Credentials.

In the section Redirect URLs enter a redirect URL displayed in the Cloud Connectors add-on when adding/editing an account.

Copy Client ID (Application Key) and Client secret (Application Secret) and enter them in the Cloud Connectors.

Once the setup is done, enable Google Drive API for the application.

OneDrive Personal Application

Visit Application Registration Portal – Microsoft <https://apps.dev.microsoft.com> and add an application.

The screenshot displays the Microsoft Application Registration Portal interface for a newly created application named "my application".

- Name:** my application
- Application Id:** 00000000401FB61C
- Application Secrets:**
 - Generate New Password button
 - Secret: KcR9B03VNVn6HpJURqkvS1Q
 - Version: 0
 - Status: Current
- Platforms:**
 - Add Platform button
 - Web platform selected
 - Allow Implicit Flow: ☒
 - Restrict token issuing to this app: ☒
 - Limits the issuing of JSON Web Tokens (JWT) for your domain to exclusively this application.
 - Target Domain:
 - This is the domain that other apps will use when they request a JWT for your app on Windows (such as www.contoso.com).
 - Target Domain input field
 - Redirect URLs:
 - Add URL button
 - Redirect URL input field containing: http://localhost:8090/rest/decoy/cloud-connectors/1.0/oauth/redirect

Image 8 OneDrive Personal Application

In the section Redirect URLs enter a redirect URL displayed in the Cloud Connectors add-on when adding/editing an account.

Copy Application Id (Application Key) and Application secret and enter them in the Cloud Connectors.

PERMISSION SCHEMES

Permission Schemes can be managed in the Permissions section. A scheme contains configuration of rights to access/perform an action with a content stored in cloud storage.

There is a default scheme „Default Permission Scheme“ which cannot be deleted and every newly created account profile is assigned to it. Which can be manually changed.

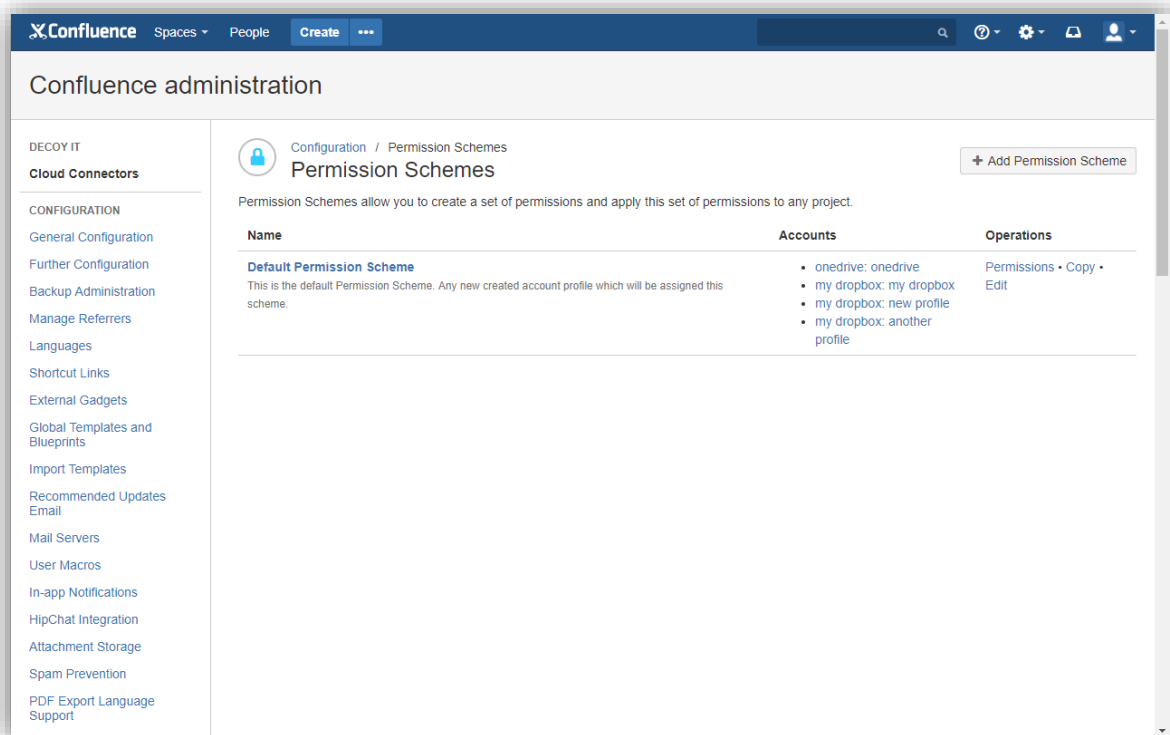


Image 9 Permission Schemes page

A table displays accounts with their profiles which are linked to a particular Permission Scheme.

Permissions operation allows to change configuration of access rights.

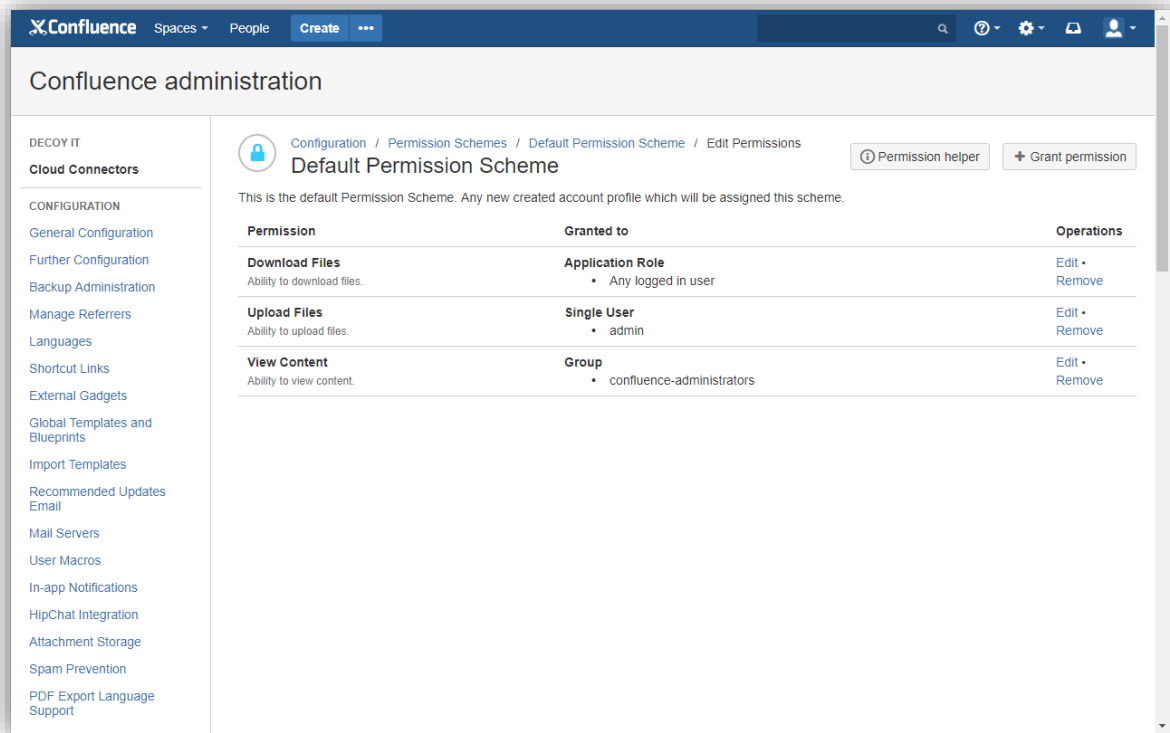


Image 10 Edit permissions of Permission Scheme

This page contains „Permission helper“ to check whether a user has rights to work with a content in a selected account profile.

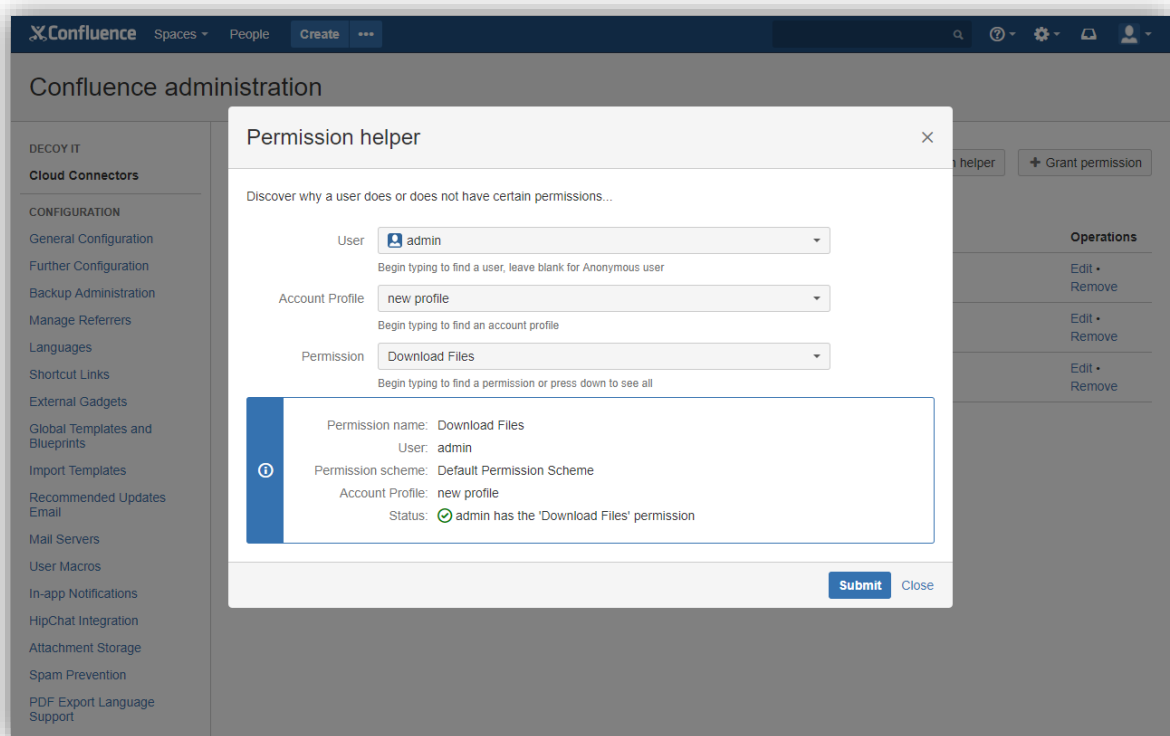


Image 11 Permission helper

SCHEDULED BACK UP CONFLUENCE

This functionality is available only in Confluence.

Cloud Connectors creates a scheduler job to perform back up of Confluence.

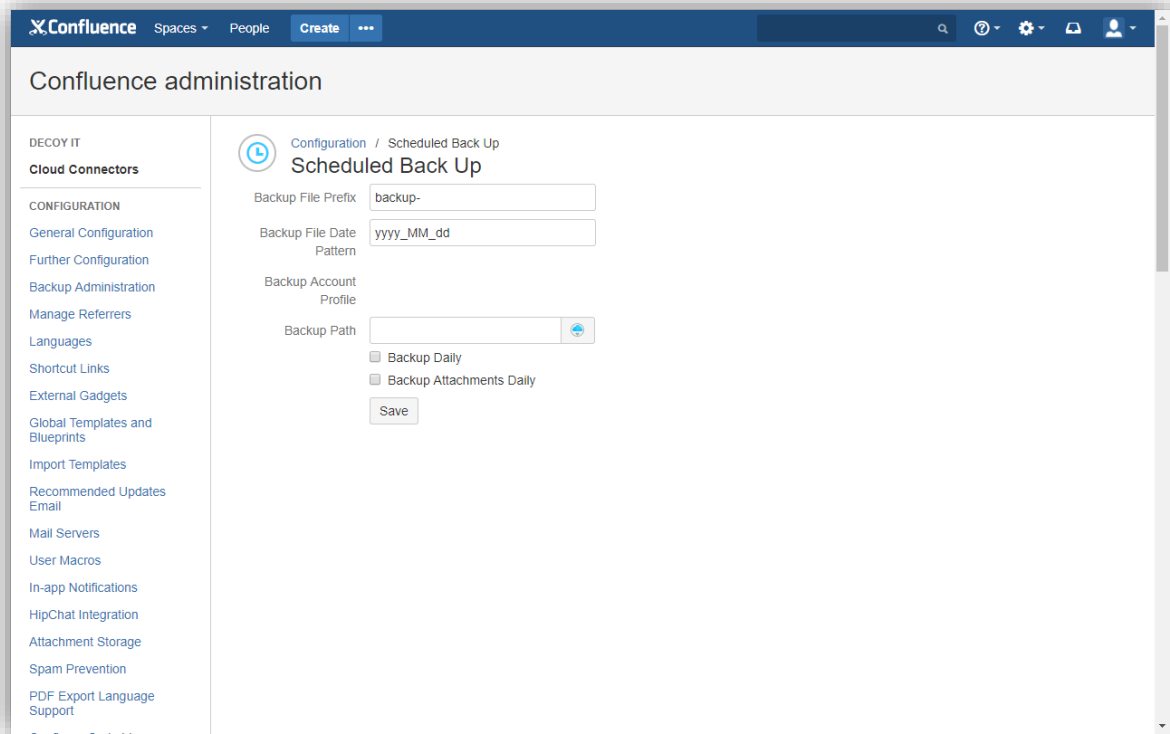


Image 12 Scheduled Back Up page

The configuration page modifies format of file name which consists of prefix and date pattern.

Backup Path is a folder in a cloud storage.

If a checkbox Backup Daily is not checked then Scheduled back up will not be executed.

Shortcut Links						Disable
External Gadgets						Run · Edit · Disable
Global Templates and Blueprints						Run · Edit · Disable
Import Templates						Run · Edit · Disable
Recommended Updates Email						Run · Edit · Disable
Mail Servers						Run · Edit · Disable
User Macros						Run · Edit · Disable
In-app Notifications						Run · Edit · Disable
HipChat Integration						Run · Edit · Disable
Attachment Storage						Run · Edit · Disable
Spam Prevention						Run · Edit · Disable
PDF Export Language Support						Run · Edit · Disable
Configure Code Macro						Run · Edit · Disable
Office Connector						Run · Edit · Disable
WebDAV Configuration						Run · Edit · Disable
ATLASSIAN MARKETPLACE						Run · Edit · Disable
Find new add-ons						Run · Edit · Disable
Manage add-ons						Run · Edit · Disable
USERS & SECURITY						Run · Edit · Disable
Users						Run · Edit · Disable
Groups						Run · Edit · Disable
Security Configuration						Run · Edit · Disable
Global Permissions						Run · Edit · Disable
Space Permissions						Run · Edit · Disable
User Directories						Run · Edit · Disable

Clean Journal Entries	Scheduled	Aug 03, 2017 02:00	0	Run · Edit · Disable
Clean Old Audit Records	Scheduled	Aug 03, 2017 00:00	0	Run · Edit · Disable
Clean Temporary Directory	Scheduled	Aug 03, 2017 04:00	0	Run · Edit · Disable
Clear Expired Mail Errors	Scheduled	Aug 03, 2017 03:00	0	Run · Edit · Disable
Clear Expired Remember Me Tokens	Scheduled	Aug 20, 2017 00:00	0	Run · Edit · Disable
Cloud Connectors Back Up Confluence	Scheduled	Aug 03, 2017 02:00	0	Run · Edit · Disable
Cluster Cache Compaction	Scheduled	Aug 02, 2017 16:00	Aug 02, 2017 17:00	6 History · Run · Edit · Disable
Conversion Queue Monitor	Scheduled	Aug 02, 2017 16:26	Aug 02, 2017 16:26	2 History · Run · Edit · Disable
Deferred File Deletion	Scheduled	Aug 02, 2017 16:17	Aug 02, 2017 16:32	3 History · Run · Edit · Disable
EhCache Cache Compaction	Scheduled	Aug 02, 2017 16:22	Aug 02, 2017 16:27	11 History · Run · Edit · Disable

Image 13 Cloud Connectors Back Up Scheduler Job

The Confluence administration of Scheduled jobs allows to adjust a time of execution and to disable the job.

USER'S GUIDE FOR CONFLUENCE

Confluence version of this add-on brings many features:

- Image Dialog
- Insert Link Dialog
- Macros
- Page Attachments
- Page Import/Export
- File List Extension
- Blueprint
- User's Profile Picture

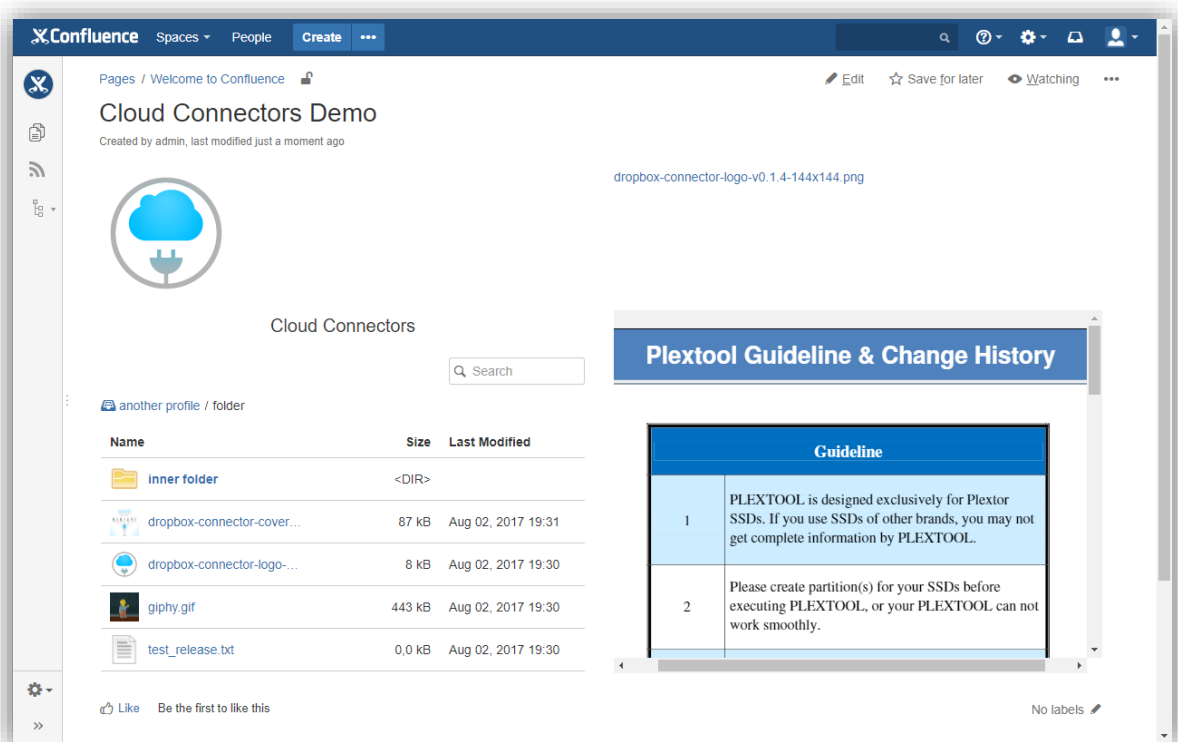


Image 14 Example of Cloud Connectors content

IMAGE DIALOG

The original panel in the Image Dialog was extended by an upload button which allows to upload a file from a cloud storage directly to a page.

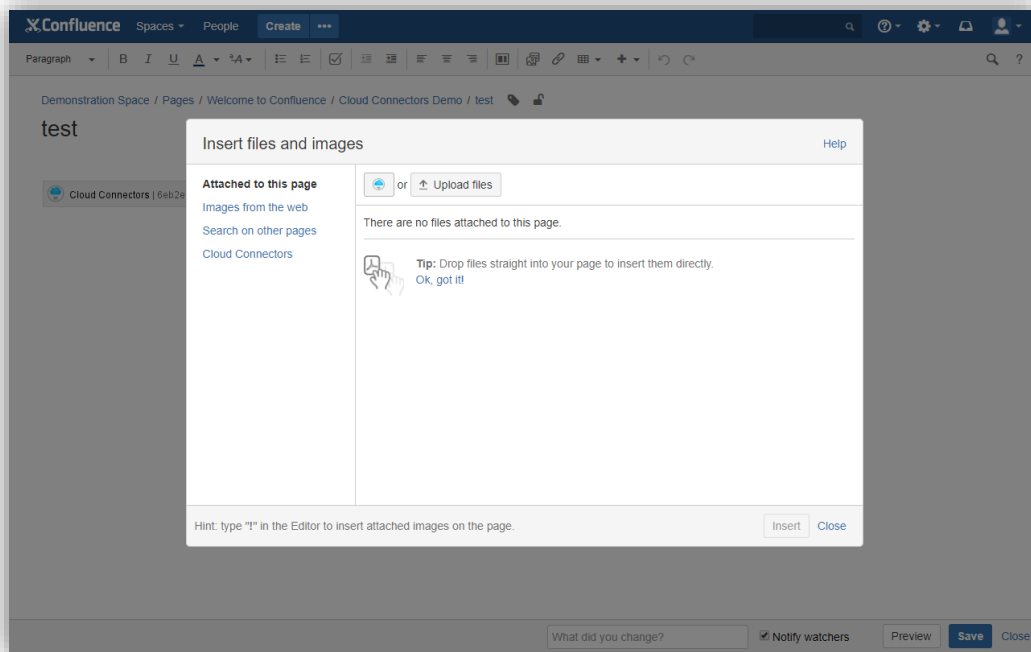


Image 15 Upload button in Image Dialog

The add-on adds a panel to the Image Dialog which lists images from a cloud storage. A selected image can be inserted into a page without uploading it to Confluence.

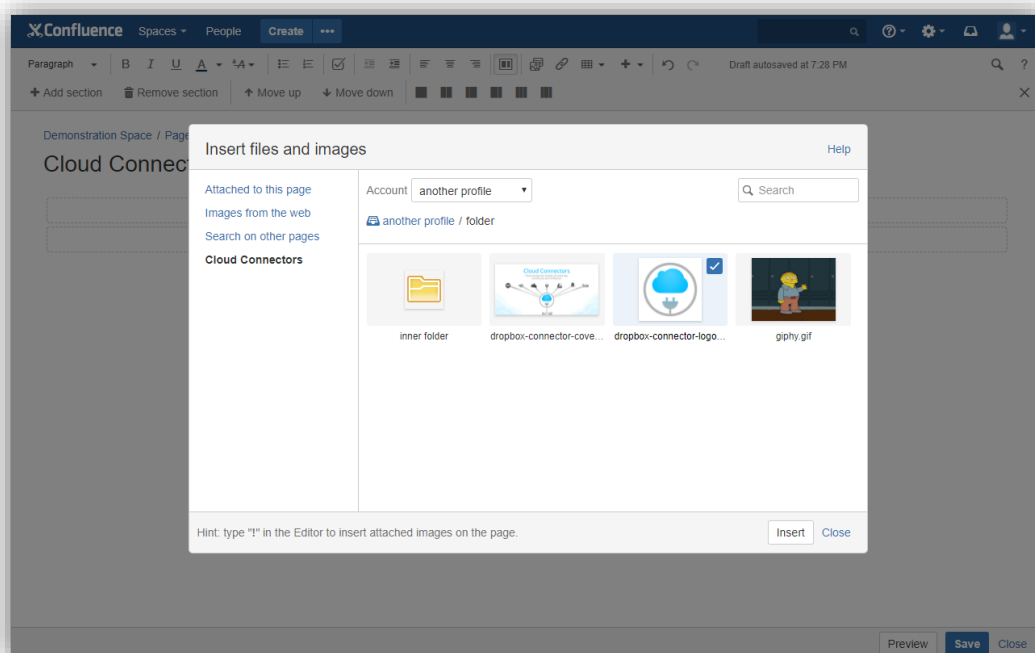


Image 16 Cloud Connectors panel in Image Dialog

INSERT LINK DIALOG

The original panel in the Link Browser was extended by an upload button which allows to upload a file from a cloud storage directly to a page.

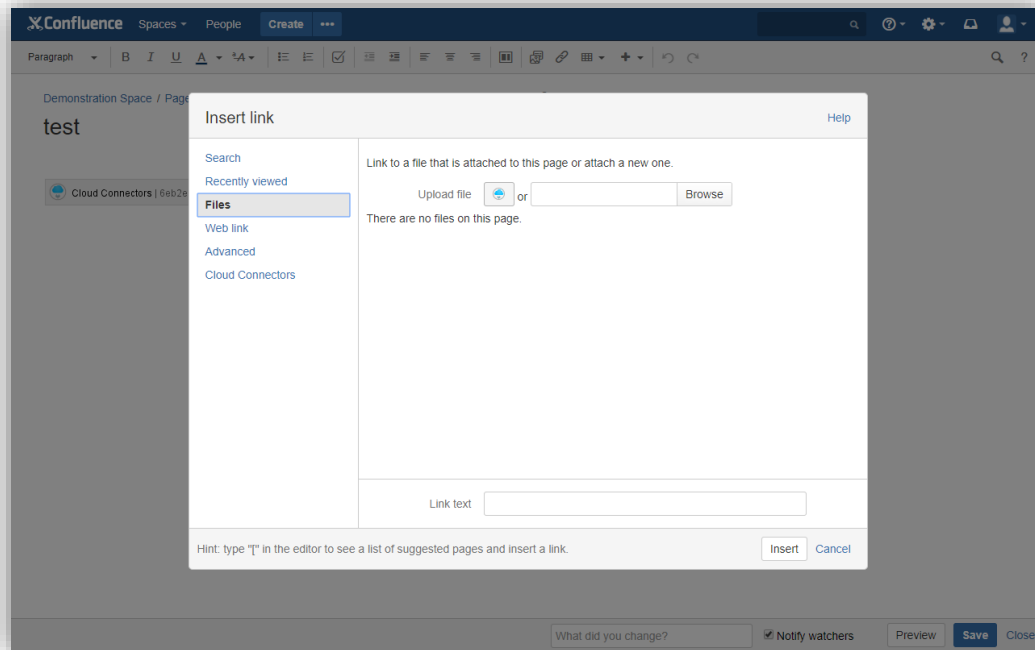


Image 17 Upload button in the Insert Link Dialog

The add-on adds a custom panel to the Insert Link Dialog which lists files from a cloud storage. After selecting a file, it will be inserted into a content of page.

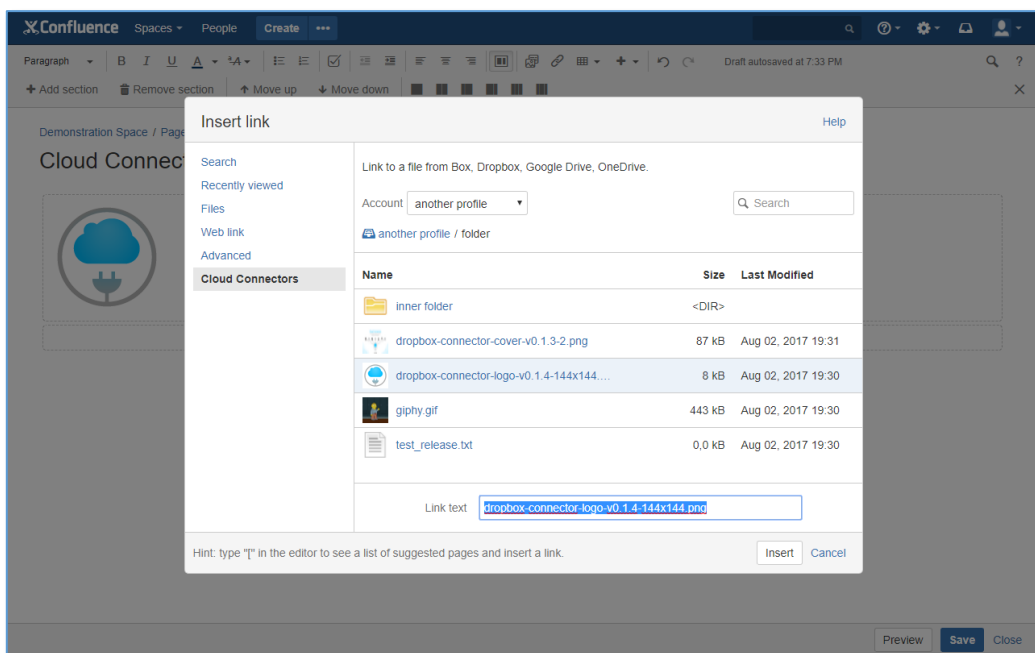


Image 18 Cloud Connectors panel in Insert Link Dialog

MACROS

There two macros:

- Cloud Connectors
- Cloud Connectors Viewer

The Cloud Connectors macro displays a content of a cloud storage. Configuration modifies a look and a functionality enabled in the macro.

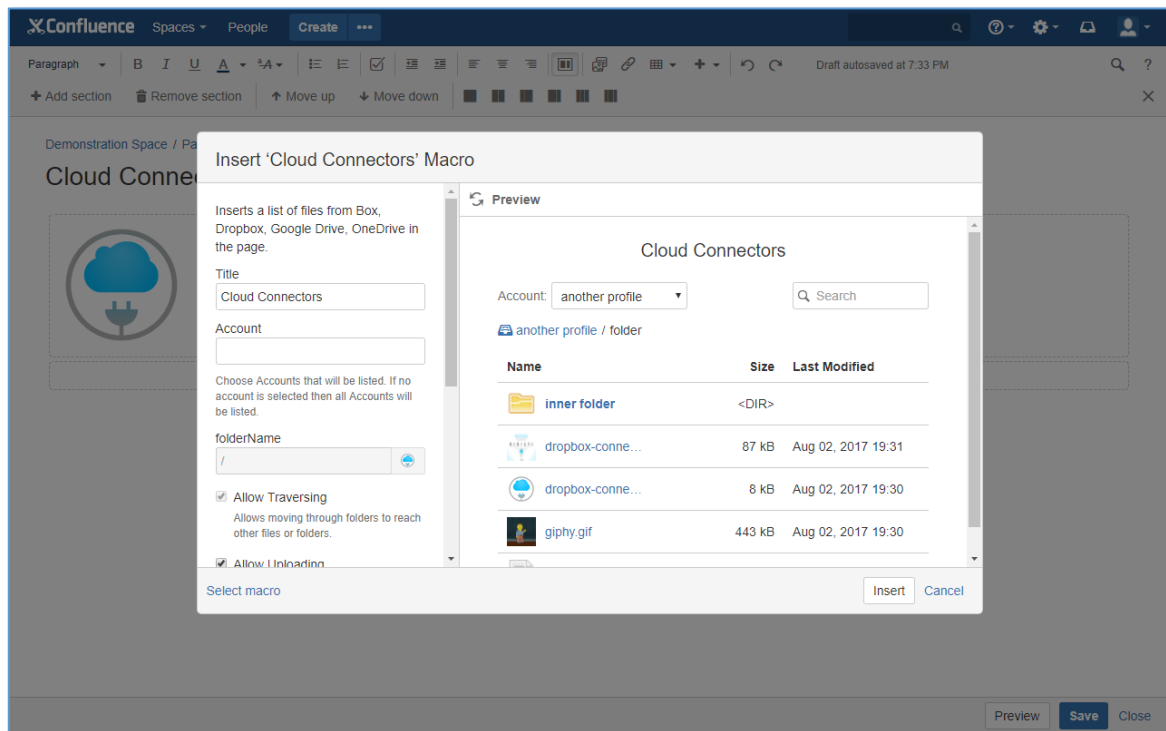


Image 19 Macro Cloud Connectors

The Cloud Connectors Viewer macro allows to embed a file of specified format into a page and renders its content in PDF format.

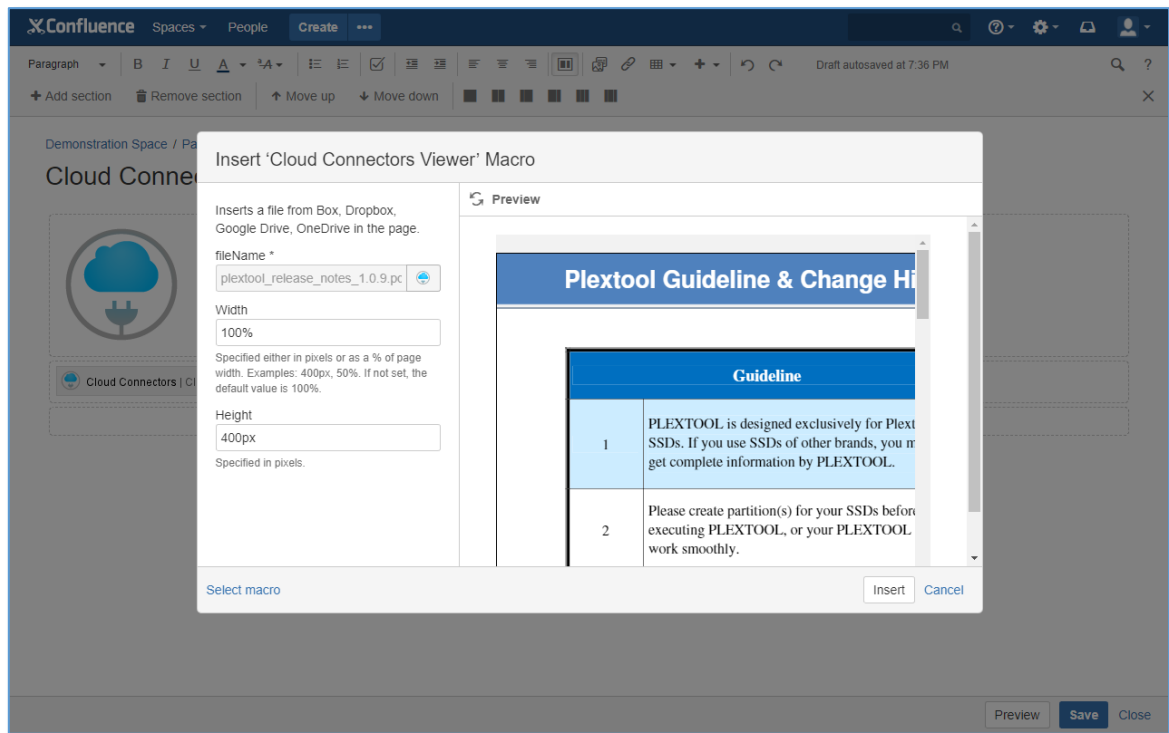


Image 20 Macro Cloud Connectors Viewer

PAGE ATTACHMENTS

Attachments section of a page was extended by:

- Button to attach file from a cloud storage to a current page
- Link in an attachments table to upload file from a page to a selected folder in a cloud storage

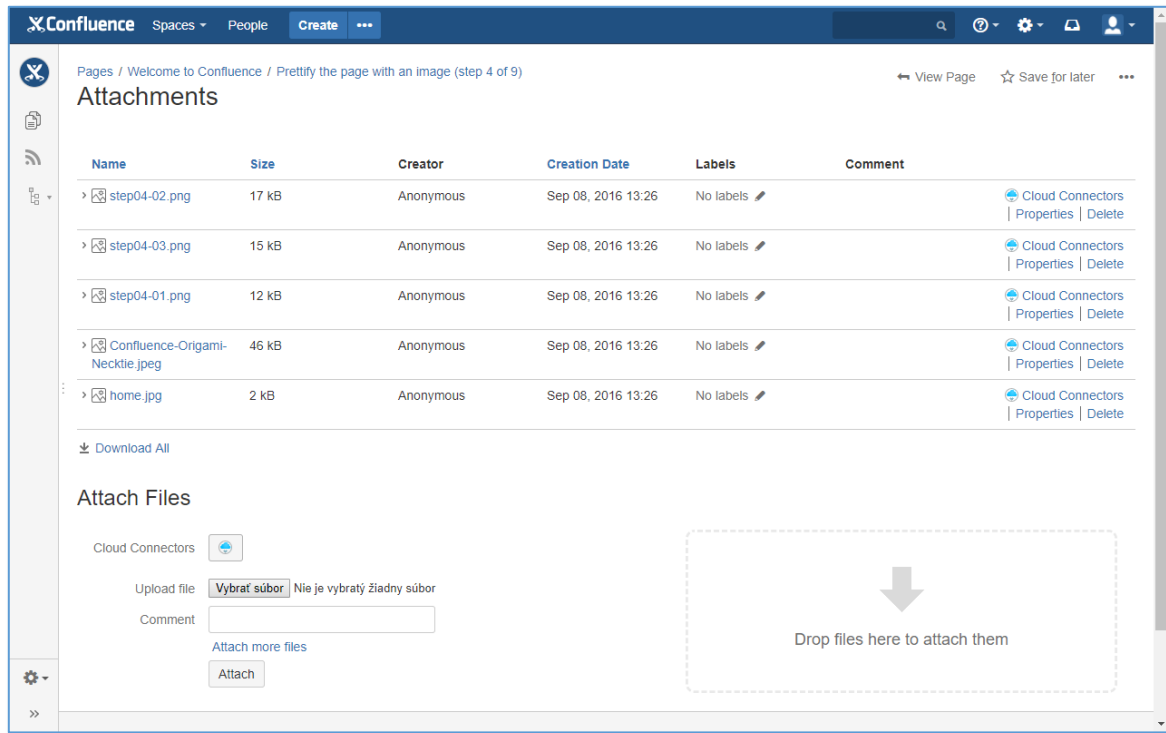


Image 21 Page Attachments extensions

PAGE IMPORT/EXPORT

Action menu of a page contains three items with the icon of Cloud Connectors:

- Export to PDF
- Export to Word
- Import Word Document

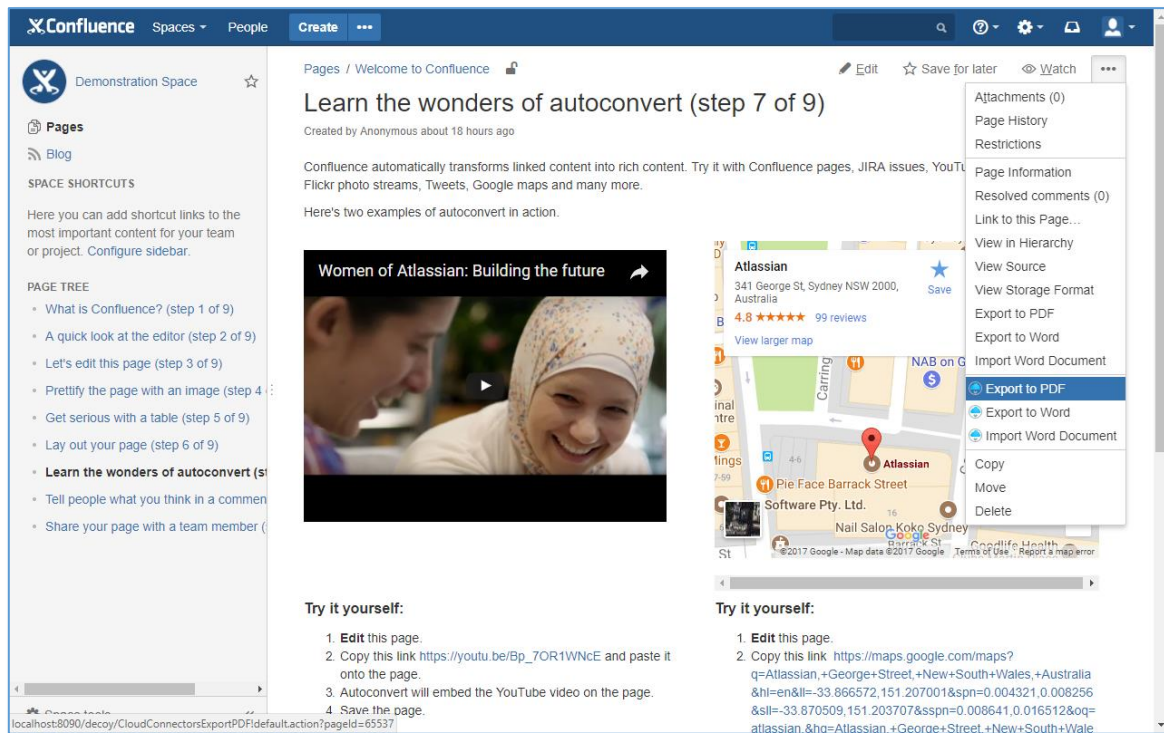


Image 22 Page Import/Export

After selecting a folder in a cloud storage then a page can be exported directly to the selected folder.

Import Word Document page requires to select a file , which will be imported into the Confluence.

FILE LIST

The original File List macro was extended by a upload button which uploads a selected file from a cloud storage into a current page which contains the macro.

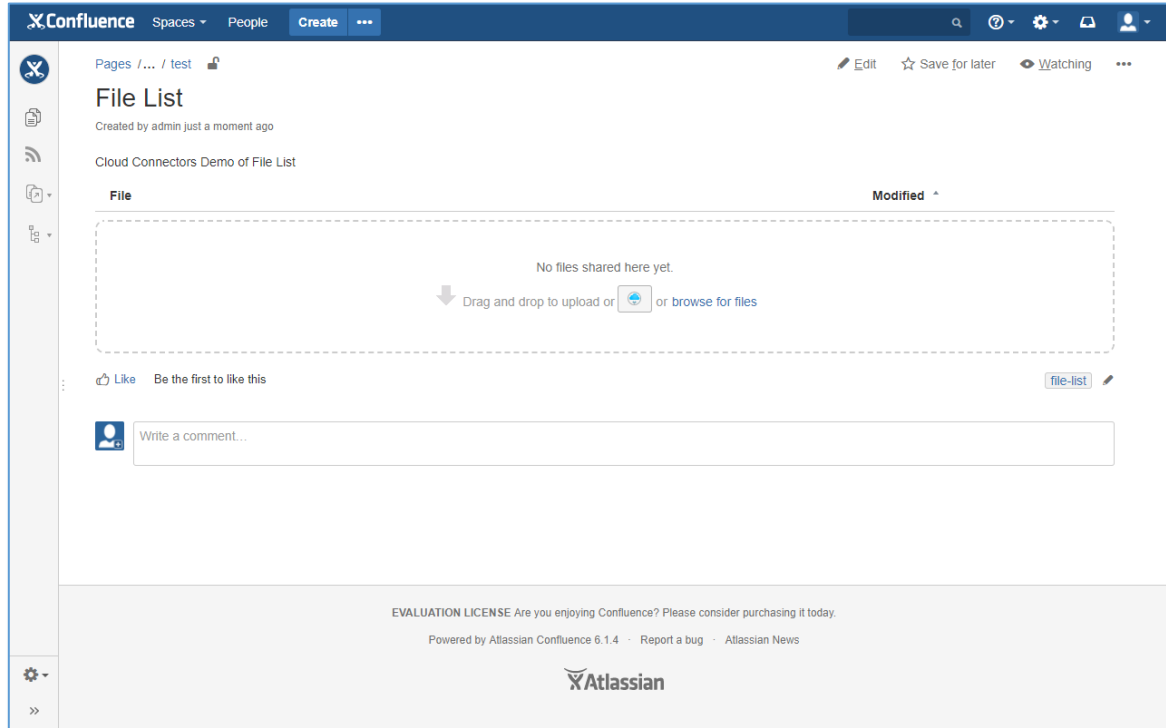


Image 23 Upload button on File list page

BLUEPRINT

Cloud Connectors Blueprint creates a page with Cloud Connectors macro to display a content of a cloud storages.

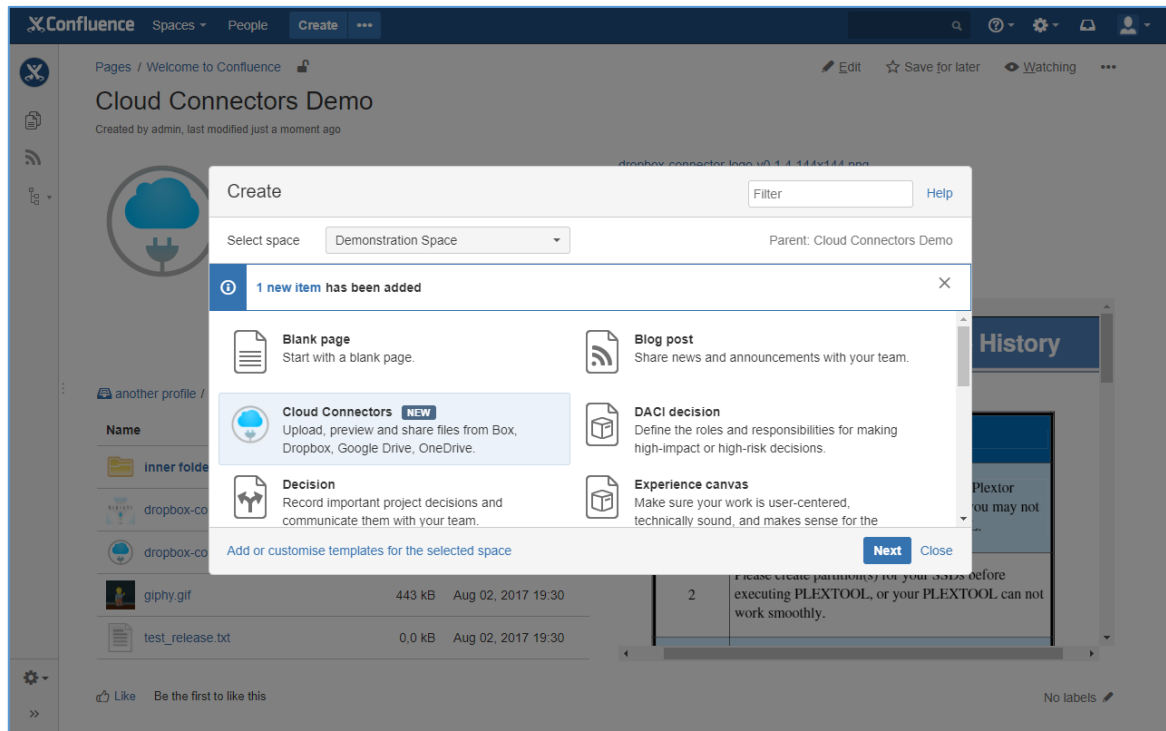


Image 24 Cloud Connectors Blueprint

PROFILE PICTURE

The Upload a profile picture was extended by the Cloud Connectors button which allows to select a file which will be uploaded to the Confluence and used as a profile picture of a user.

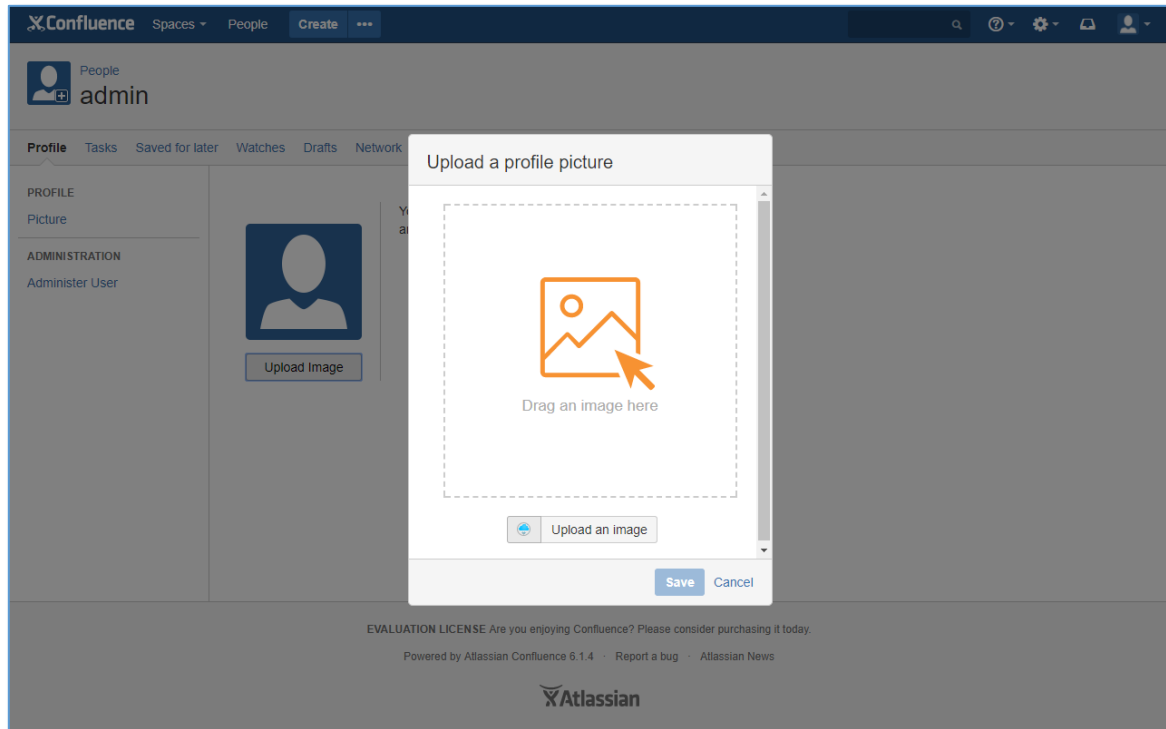


Image 25 Upload a profile picture

Allowed file formats are: GIF, JPG, JPEG, PNG

USER'S GUIDE FOR JIRA

Dedicated add-on version for Atlassian JIRA consists of two areas:

- Project
- Issue

Cloud Connectors add-on displays content of configured cloud storages in a page which can be found under Add-ons section in left menu of a project dashboard.

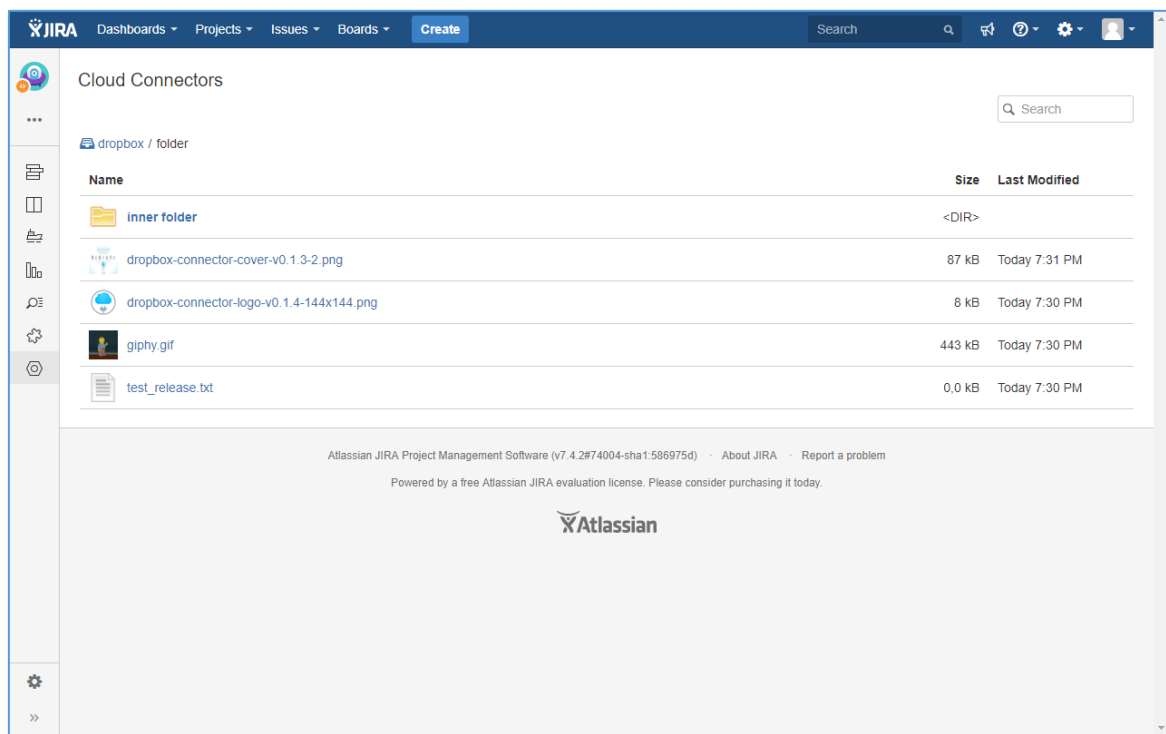


Image 26 Project panel

An issue also displays a content of cloud storages in a panel similar to Attachments.

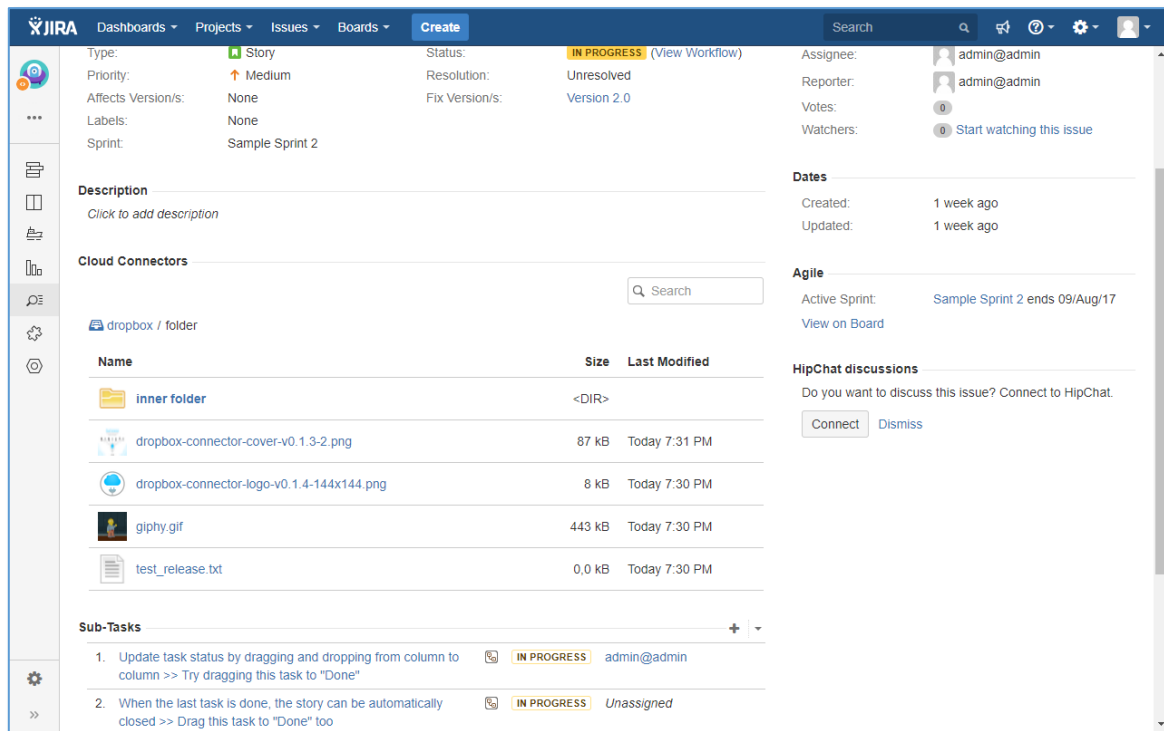


Image 27 Issue Panel

Other functionality of the add-on in an issue is the ability to add a link to a file in cloud storages. All the links are grouped by application identifier „Cloud Connectors“.

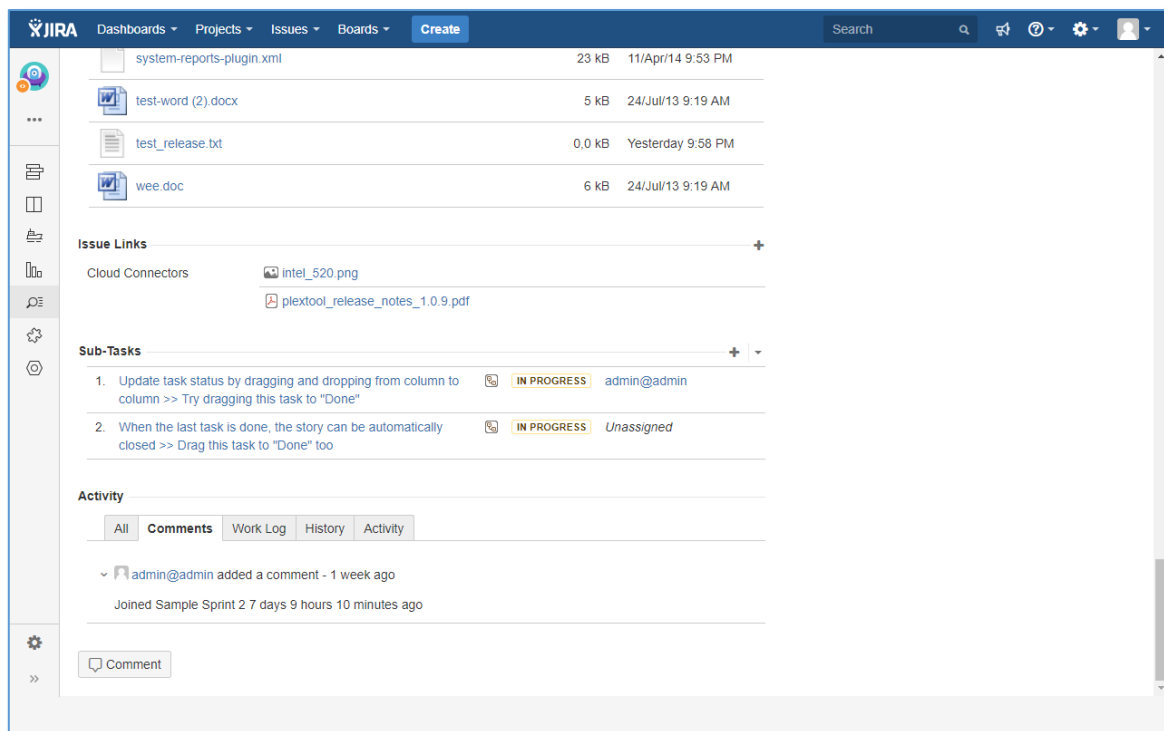


Image 28 Issue Links

SUPPORT

The add-on was made to implement elementary functionality of working with a content in external storage without need to store it in Confluence. This is the initial version which can be extended by many other functionalities.

If you spot incorrect behaviour of this plugin or if you need more detailed guidance how to use this plugin, please, contact at support@decoy.sk.

We are also looking for your feedback, opinions and ideas on how we can improve this add-on. So, feel free to contact us on above email address.