OneDrive Client

Release 0.0.1-alpha

Aug 07, 2019

Contents:

1 Goals **3**

2 Current features **5**

3 Documentation **7**

4 Welcome to OneDrive Client's documentation! **9**
- 4.1 Usage 9
- 4.2 Changelog 15

5 Indices and tables **17**

Linux client for OneDrive for Business.

CHAPTER 1

Goals

- Support of different desktop and mobile platforms.
- Support of different cloud-storage services like Dropbox, OneDrive, Google Drive, Flickr, etc.
- Ensure safety of handling of the user-data by the application.

CHAPTER 2

Current features

- The application is launchable and usable (with consideration that it's an alpha-version).
- OneDrive for Business support.
- Atomic file updates through FUSE-based filesystem-wrapper that provides file-locking capabilities.

CHAPTER 3

Documentation

For further details please refer to the documentation: https://onedrive-client.readthedocs.io/

CHAPTER 4

Welcome to OneDrive Client's documentation!

4.1 Usage

4.1.1 Preparations

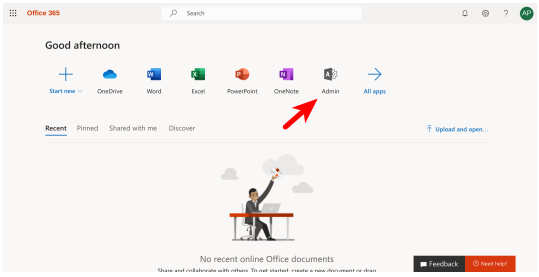
Before using the application, user has to acquire an Offce 365 license that contains OneDrive application and then make some configuration adjustments.

Acquiring Office 365 license

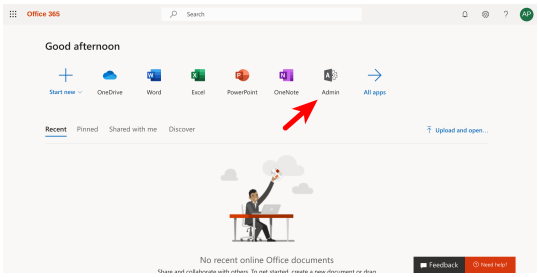
This could be done on office.com.

Configuring Office 365

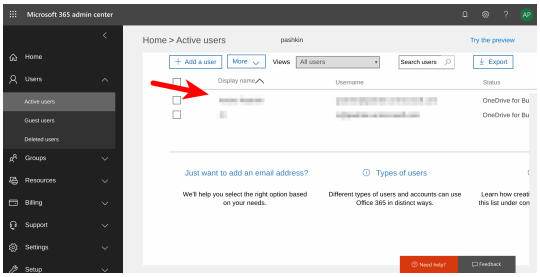
1. After you acquired the license and entered your account, you should see the home page. Click on the "Admin" button.



2. Then click on "Active users".

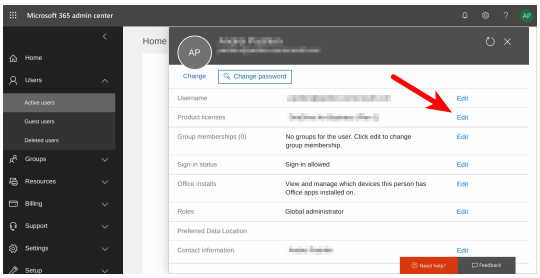


3. Find user, that you want to use for accessing OneDrive and click on it.

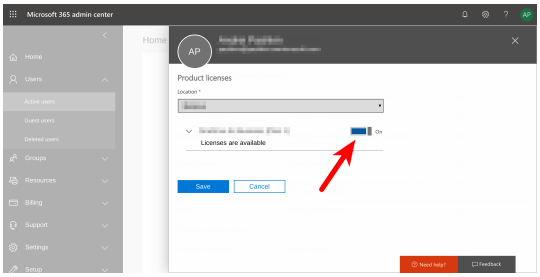


Tip: You can setup a user with guest-status so that the application won't have admin-access to your Office 365.

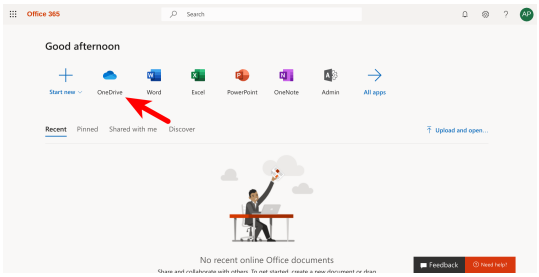
4. Click on "Edit" button in the "Product licenses" row.



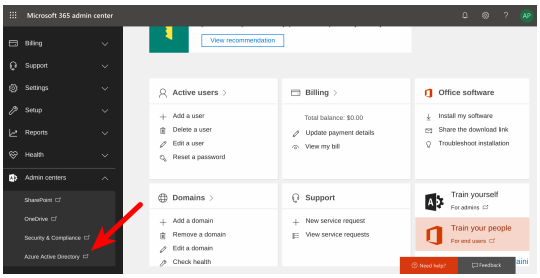
5. Ensure the license is turned on for the user.



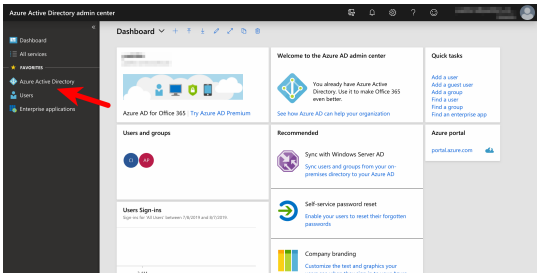
6. Open the home page of Office 365 as the picked user and click on OneDrive application button (sometimes it might be required to force Office 365 to provision it).



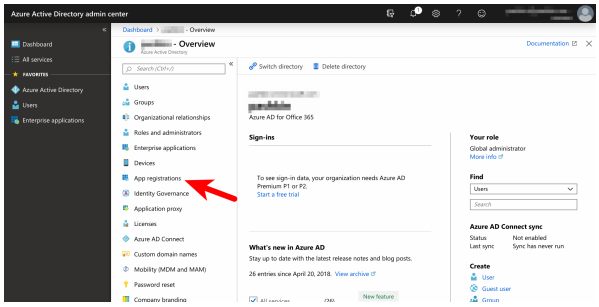
7. Then, as an admin user, go to the home page and click on “Admin” button again as in step 1..
8. Click on “Azure Active Directory”.



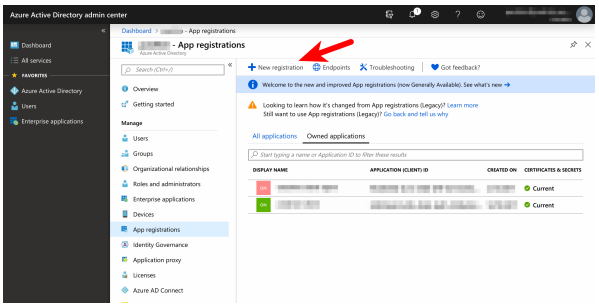
9. On the newly opened page click on “Azure Active Directory”.



10. Click on “App registrations”.



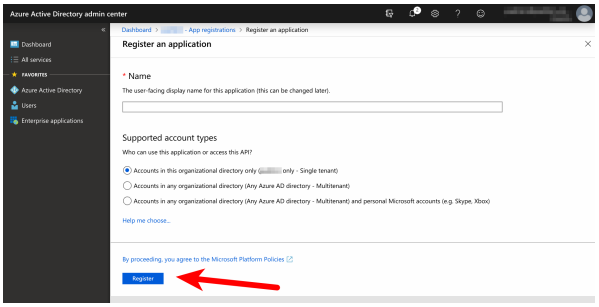
11. Click on “New registration”.



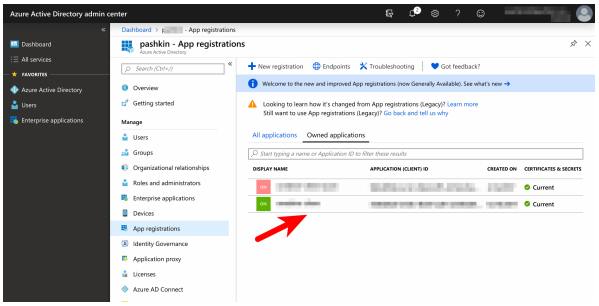
12. Fill all the necessary fields:

    - **Name** - could be arbitrary.
    - **Supported account types** - choose according to your needs. You can click on "Help me choose…" to get some guiding information.
    - **Redirect URI (optional)** - put something like `http://localhost:8080` and remember the value.

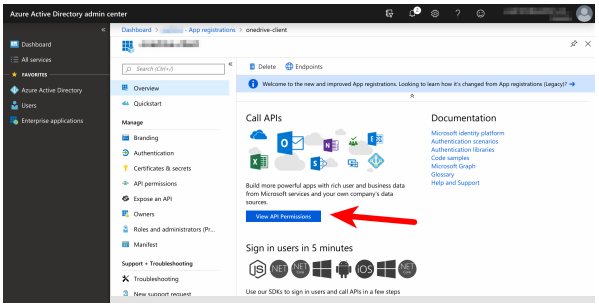
    and then click on "Register".

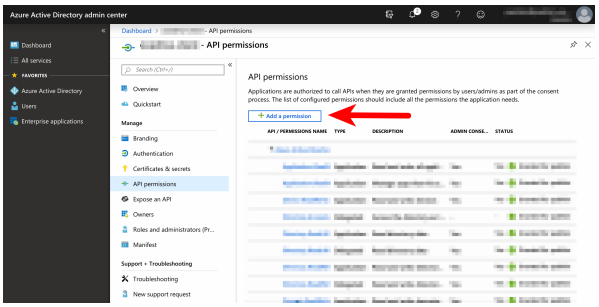


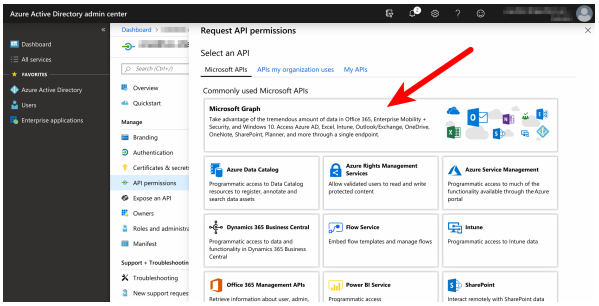
13. In the opened list of registered applications click on the one that was just created.

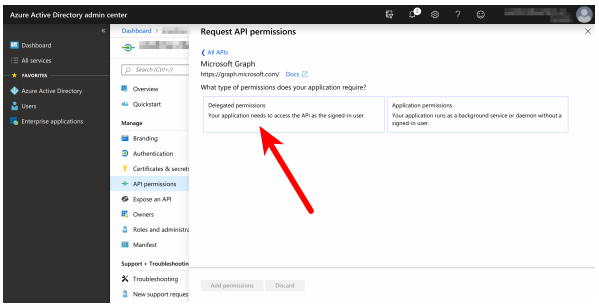


14. Click on "View API permissions" then on "Add a permission" then on "Microsoft Graph" then on "Delegated permissions".

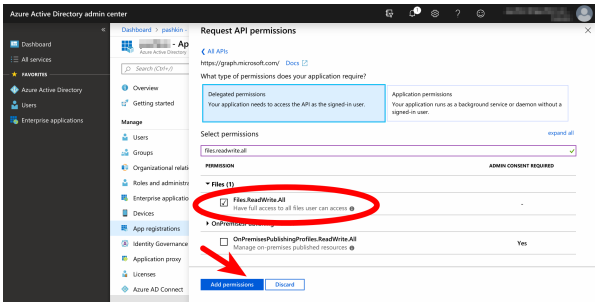






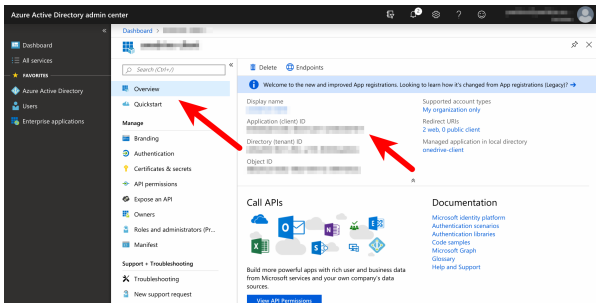


15. Find and check "```Files.ReadWrite.All"‘‘ permission or another permission that grants level of access to the files according to your needs. Then click on “Add permissions”.

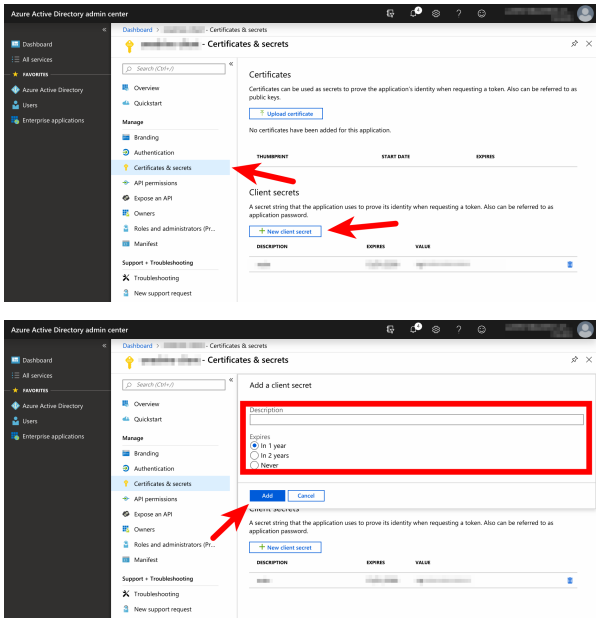


Tip: Check out the permissions reference: https://developer.microsoft.com/graph/docs/concepts/ permissions_reference

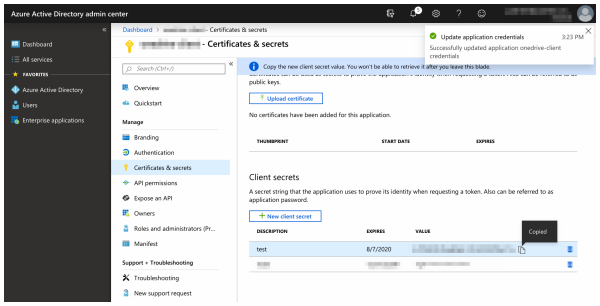
16. Return to the application page as in step 13. and click on “Overview”. Find “Application (client) ID” field and remember the value.



17. Click on “Certificates & secrets” and then click on “New client secret”. Then fill the description (could be arbitrary) and choose expiration interval. Then click “Add”.



18. Copy the value of the newly created secret and save it somewhere.



4.1.2 Installation

Currently the application is only installable as a standard Python package. Just clone the repository and install it using Pip:

```
git clone https://github.com/AndreiPashkin/onedrive_client.git
pip install onedrive_client
```

4.1.3 Authentication

Application requires a cookie to authenticate in Office 365. Go to https://login.microsoftonline.com/, login with the credentials you want the application to use and then collect the cookie value for `login.microsoftonline.com` domain. It could be done using a debugging proxy like Fiddler.

4.1.4 Configuration

Here is an example configuration file:

```
client_id: <Client ID (see :ref:`step 16 <.. _step-16>`)>
client_secret: <Client secret (see :ref:`step 18 <.. _step-18>`)>
redirect_uri: <Redirect URI (see :ref:`step 12 <.. _step-12>`)>
cookie: <Cookie value (see `Authentication`_)>
system_directory: <A directory where you want the app to store data and
                   other internally used files.>
mount_directory: /home/andrei/projects/onedrive/mount
log_level: <Accepted values are: CRITICAL, ERROR, WARNING, NOTICE, INFO,
            DEBUG, TRACE. Pick "INFO" if not sure.>
```

4.1.5 Using application

To launch the application simply use a command like this:

```
onedrive -c <Path to the config. file> start
```

Path to the configuration file could be relative to the current working directory or absolute.

4.2 Changelog

4.2.1 [0.0.1-alpha]

Description

Initial release. The application is working, covered with tests, though it's more developers-oriented for now and not production-ready.

Added

- OneDrive for Business support.
- CLI.
- File locking.
- Initial file synchronization logic implementation.
- Initial documentation.

CHAPTER 5

Indices and tables

- genindex
- modindex
- search