

OAuth2



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Nextcloud allows connecting external services (for example Moodle) to your Nextcloud. This is done via `OAuth2`. See [RFC6749](#) for the OAuth2 specification.



Nextcloud supports only confidential clients.

Add an OAuth2 Application

Head over to your Administrator Security Settings. Here you can add a new `OAuth2` client.

OAuth 2.0 clients

OAuth 2.0 allows external services to request access to Nextcloud.

Name	Redirection URI	Client Identifier	Secret
Example Application	https://example.acme.inc/admin/oauth2callback.php	mFc2eFLSTKPzRdeS6H5fXlJGBh5cmNsVAn3yAC0Enkzx8kjnERrBLonyEQiQbc34	****

Add client

Name	Redirection URI	Add
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Enter the name of your application and provide a redirection url. You should now have a Client Identifier and Secret. Enter those into your `OAuth2` client.

Please provide the OAuth2 application the following details:

- Authorization endpoint: `https://cloud.example.org/apps/oauth2/authorize`
- Token endpoint: `https://cloud.example.org/apps/oauth2/api/v1/token`

Note that you must include `index.php` if pretty URL is not configured - i.e.

`https://cloud.example.org/index.php/apps/oauth2/api/v1/token`.

The access token

The access token obtained is a so called Bearer token. Which means that for request to the Nextcloud server you will have to send the proper authorization header.

Authorization: Bearer <TOKEN>

Note that apache by default strips this. Make sure you have `mod_headers`, `mod_rewrite` and `mod_env` enabled.

Security considerations

Nextcloud `OAuth2` implementation currently does not support scoped access. This means that every token has full access to the complete account including read and write permission to the stored files. It is essential to store the `OAuth2` tokens in a safe way!

Without scopes and restrictable access it is not recommended to use a Nextcloud instance as a user authentication service.

Skipping pre-login warning

In Nextcloud default `OAuth2` flow, a confirmation step is shown before login if the user is not yet logged-in, and a second one is shown after login. To skip the pre-login one for a trusted application, the configuration option `skipAuthPickerApplications` can be set through occ:

```
sudo -E -u www-data php occ config:app:set oauth2 skipAuthPickerApplications --type array --value '["myapplication"]'
```

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